UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

EARTHQUAKE DATA REPORT

OCTOBER 1993

by

U.S. Geological Survey

NATIONAL EARTHQUAKE INFORMATION CENTER[1]

Open-File Report 93-610

1993

[1]USGS, Denver, Colorado

U. S. DEPARTMENT OF THE INTERIOR

Geological Survey

EARTHQUAKE DATA REPORT

The Earthquake Data Report (EDR) is a bulletin of all seismic phase and amplitude data which were associated with events published in the Preliminary Determination of Epicenters (PDE) Monthly Listing. It also contains information about the hypocentral computations (such as standard errors) that are not included in the PDE Monthly Listing. A machine-readable version of this EDR is available from the Books and Open-File Reports Section of the U.S. Geological Survey.

All data in the EDR are grouped by event, with events listed by origin time in date/time order through the month. All times are in Coordinated Universal Time (UTC). Locations are in decimal degrees of geographic latitude and longitude. Depths are in kilometers below the free surface. Hypocentral coordinates are determined by a modified Geiger's method and may be constrained by reported first arriving P-waves, Pdiff, and the DF branch of PKP. Data are corrected for station elevation and for the ellipticity of the Earth. Outliers may be truncated (ie., removed from the calculation) either automatically or manually. The solution is allowed to converge between rounds of automatic truncation to insure a unique result. Convergence is aided by step length damping.

The error bars of the computed hypocentral coordinates are 90% marginal confidence intervals incorporating Baysian information to stabilize estimates derived from small samples (Jordan and Sverdrup, 1981). It is assumed that the travel-time errors *of the data used* are independent, unbiased, and have an expected standard deviation of 1 s. Monte Carlo experiments suggest that the error bars are accurate for events constrained by more than about 30 data. However, care should be exercised in interpreting these numbers in terms of absolute location accuracy because of unmodeled biases. Analysis of events with independently known coordinates indicates that most PDE determinations are accurate to a few tenths of a degree in epicentral position and 25 km in depth. For special studies, we urge that inquiry be made to this office for possible recomputation of hypocenters of interest, using more complete instrumental data.

Restricted focal depths occur in four instances. If at any point in the computation the depth becomes negative, the solution is automatically restricted at 33 km and indicated by "NORMAL DEPTH." If the unrestricted depth computation is unsatisfactory, and in the judgment of the reviewing geophysicist the earthquake probably has a shallow focus, a solution may be held at 33 km. These are also indicated by "NORMAL DEPTH." The geophysicist may restrain the depth at any value indicated by evidence from available seismograms. These are indicated by, for example, "DEPTH = 100 KM (GEOPHYSICIST)." If two or more pP phases are identified, and in general, yield depths within 10 km of the mean, then the depth is automatically restricted to this value and denoted by, for example, "DEPTH = 51 KM (5 DEPTH PHASES)." pP phases may also appear as unidentified second arrivals with associated travel-time residuals. Hypocentral coordinates derived from other sources, such as the California Institute of Technology, the University of California at Berkeley, and the U. S. Department of Energy are noted on the EDR.

Two types of magnitude are computed: body-wave magnitude (m_b) and surface-wave magnitude (M_{SZ}). Each is a 25% trimmed mean of individual station values. Station magnitudes not used in the trimmed mean are marked with an X. This includes station magnitudes of either type which deviate significantly from the mean and surface-wave magnitudes determined from horizontal amplitudes. Body-wave magnitudes are computed according to the formula $\log(A/T)+Q$, derived by Gutenberg and Richter (1956), where A is the P-wave amplitude in micrometers, T is the period in seconds, and Q is the depth-distance factor. Surface-wave magnitudes are computed from the formula $\log(A/T) + 1.66\log(\Delta) + 3.3$, where A is the maximum vertical surface-wave amplitude in micrometers, T is the period in seconds, and Δ is the epicentral distance in degrees. Surface-wave magnitudes are determined only for earthquakes whose focal depths (taking into account the computed standard deviations) are potentially less than 50 km, for stations having $20° \leq \Delta \leq 160°$, and for reported periods of $18 \leq T \leq 22$ s. No correction for focal depth is used in the M_S calculation. Body-wave magnitudes are not determined from PKP arrivals or for stations having $\Delta \leq 5°$. Amplitude values stated in this report are in nanometers (nm) for body-waves and micrometers (μm) for surface-waves.

The travel-time residual (observed – computed) is based on the 1940 Jeffreys-Bullen P and 1968 Bolt PKP travel-time tables. Phases not used in the computation are marked by an X. The azimuth from the epicenter to the station is measured clockwise from north. The epicentral distance is the central angle in degrees.

The pulse distortion of seismic phases that have ray paths that touch a single internal caustic (*e.g.*, PP, pPP, SS and PKPab) can be corrected using the method of Hilbert transformation described by Choy and Richards (1975). Arrival times that are read from the phases that are corrected for pulse distortion are identified by the symbol H preceding the phase identifier (*e.g.*, HPP, HpPP, HSS and HP′ab).

Hypocenter Symbols

& Indicates that parameters of the hypocenter were supplied or determined by a computational procedure not normally used by the National Earthquake Information Service (NEIS). The source or nature of the determination is indicated by a 2 to 5 letter code enclosed by angle brackets and appearing in the first line of comments. A "-P" appended to the code indicates that the computation is preliminary. These codes are included with the list of abbreviations in the PDE Monthly Listing.

% Indicates a single network solution. A non-furnished hypocenter has been computed using data reported by a single network of stations for which the date and/or origin time cannot be confirmed from seismograms available to a NEIS analyst. Also, if we define η to be the geometric mean of the semi-major and semi-minor axes of the horizontal 90% confidence ellipse, then $\eta \leq 16.0$ km.

* Indicates a less reliable solution. In general, $8.5 < \eta \leq 16.0$ km.

? Indicates a poor solution, published for completeness of the catalog. In general, $\eta > 16.0$ km. This includes poor solutions computed using data reported by a single network.

The lack of any symbol indicates that $\eta \leq 8.5$ km.

Note: On printers available to the NEIS for this publication, the symbol for degrees (°) appears as "`". Also note that certain phase codes are abbreviated because the data base and file format limit the length of the codes to five characters. Thus, PKP is occasionally abbreviated to P′ and the numbers 2 and 3 are sometimes used to represent the AB (AC for SKKS) and BC branches of core phases, respectively. In some codes, R is used to represent repetition; for example, pRPKP represents the phase pPKPPKP and RRPG represents PgPgPg.

References

Bolt, Bruce A. (1968), Estimation of PKP Travel Times, *Bull. Seis. Soc. Am.*, **58**, pp. 1305–1324.

Choy, George L. and P. G. Richards (1975), Pulse Distortion and Hilbert Transformation in Multiply Reflected and Refracted Body Waves, *Bull. Seis. Soc. Am.*, **65**, pp. 55–70.

Gutenberg, B. and C. F. Richter (1956), Magnitude and Energy of Earthquakes, *Ann. di Geofisica*, **9**, no. 1, pp. 1–15.

Jeffreys, Harold and K. E. Bullen (1940), *Seismological Tables*, British Assoc. for the Advancement of Science, Gray Milne Trust.

Jordan, Thomas H. and Keith A. Sverdrup (1981), Teleseismic Location Techniques and their Application to Earthquake Clusters in the South-Central Pacific, *Bull. Seis. Soc. Am.*, **71**, pp. 1105–1130.

```
---------------------------------------
?  OCT  01, 1993  01h 02m 43.52± 3.56s
   31.904 S ±21.5km   71.508 W ±27.6km
   DEPTH =  33.0km  (normal)
 NEAR COAST OF CENTRAL CHILE      (135)
      MD 3.9 (SAN).

JACH    1.10 135 iP     03 02.96   0.3
                iS     03 20.80
ROCH    1.14 159 iP     03 03.35  -0.1
                iS     03 21.61
PEL     1.42 151 iPd    03 07.43   0.2
                iS     03 29.06
LCCH    1.57 182 iP     03 08.75  -0.6
                iS     03 33.37
FCH     1.75 144 iP     03 12.83   0.5
                iS     03 38.95
TACH    1.81 165 iP     03 12.63  -0.3
                iS     03 39.77
PCH     1.91 154 iP     03 14.44   0.1
LNV     2.05 178 iP     03 16.83   0.5
RTCB    2.35  80 ePd    03 22.00   1.3
                (S)    03 58.00
CFA     2.80  85 e(P)   03 28.50   1.5
                S      04 09.60
MRA     4.94  97 e(P)c  03 56.40  -1.0
TCA     5.93  86 eP     04 09.00  -2.4
                (S)    05 23.00
     S.D. = 1.2  on  12 of  12 obs.
---------------------------------------
&  OCT  01, 1993  01h 40m 54.01s
   40.408 N          124.740 W
   DEPTH =  21.1km
 NEAR COAST OF NORTHERN CALIF.    ( 35)
      <GM-P>. MD 2.9 (GM).

KCTM    0.32  77 P      41 01.58   0.5
KMPM    0.47  89 iPc    41 03.52  -0.2
                eS     41 11.07
KBRM    0.68  61 P      41 06.32  -0.8
FHC     0.70  55 iPc    41 06.66  -0.7
KGMM    0.88  66 P      41 09.72  -1.0
KRPM    0.93  36 P      41 09.84  -1.5
KPPM    1.05  93 P      41 12.46  -1.2
KHBM    1.19  77 P      41 13.89  -1.7
KRMM    1.28  29 P      41 14.76  -2.1
GCBM    1.39 137 P      41 16.17  -2.1
LBPM    1.42  93 P      41 17.29  -1.5
LGPM    1.54  70 iPc    41 18.80  -1.7
GHOM    1.65 145 P      41 19.59  -2.4
WDC     1.69  83 iPc    41 20.74  -1.8
LBKM    1.71  66 P      41 21.28  -1.8
LGBM    2.15  63 P      41 28.35  -1.1
LBFM    2.36  66 eP     41 31.58  -0.8
MIN     2.40  90 P      41 30.67  -2.2
LMEM    2.42  86 eP     41 32.61  -0.7
MAC     2.42 139 P      41 27.56  -5.6
LHCM    2.49  80 P      41 33.16  -1.0
LGMM    2.50  61 P      41 35.02   0.6
OGOM    2.52 106 P      41 32.11  -2.4
NTBM    2.57 146 P      41 32.95  -2.3
ORV     2.63 108 eP     41 33.89  -2.3
       25 obs. associated
---------------------------------------
?  OCT  01, 1993  01h 45m 06.32± 2.09s
   42.894 N ±12.0km  145.210 E ±23.8km
   DEPTH =  70.5 ± 12.7 km
   3.9mb (  1 obs.)
 HOKKAIDO, JAPAN  REGION          (224)

KUSJ    0.42 299 iP+    45 18.50  -0.1
                eS     45 24.80
HOOJ    1.51 251 eP     45 32.30   0.5
                eS     45 49.60
ASAJ    2.23 304 iPd    45 41.80   0.0
MRRJ    3.09 263 eP     45 53.30  -0.4
                eS     46 26.40
OFUJ    4.66 216 P      46 15.60  -0.1
                S      47 05.30
NB2    69.88 338 P      56 11.20   0.1
       0.7s     1.10nm          3.9mb
     S.D. = 0.5  on   6 of   6 obs.
---------------------------------------
?  OCT  01, 1993  02h 00m 52.85± 0.89s
   26.172 S ± 8.1km   27.303 E ± 8.8km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA         (584)

KSR     0.48 310 eP     01 02.50   0.1
                S      01 11.00
SLR     0.98  64 eP     01 12.00  -0.1
                S      01 24.50
SEK     2.16 172 eP     01 30.50   0.3
                S      01 57.00
BLF     3.09 198 e(P)   01 43.00  -0.3
     S.D. = 0.5  on   4 of   4 obs.
---------------------------------------
   OCT  01, 1993  03h 59m 33.05± 0.21s
   36.637 N ± 2.8km   23.967 E ± 2.2km
   DEPTH =  88.1km  (  9 depth phases)
   4.9mb ( 79 obs.)
 SOUTHERN GREECE                  (368)

VLI     0.83 276 ePg    59 54.00   3.0
VAM     1.24 171 ePb    59 58.20   2.4
ATH     1.35 352 ePb    59 59.50   2.4
NPS     1.91 135 ePb    00 05.50   0.9
AGG     2.71 332 iPn    00 18.08   2.6
                eSn    00 49.88
VLS     3.10 301 ePn    00 22.20   1.4
IZM     3.15  55 iPn    00 21.00  -0.6
PRK     3.18  34 eP     00 22.70   0.9
PAIG    3.29 356 ePn    00 24.96   1.6
                iSn    01 02.96
CIN     3.43  72 iPd    00 27.00   1.7
LIT     3.65 342 iPn    00 30.28   1.9
                eSn    01 12.48
EZN     3.69  30 iP     00 29.50   0.7
OUR     3.69   0 ePn    00 30.52   1.6
                eSn    01 11.86
KZN     4.05 335 eP     00 35.20   1.2
THE     4.07 349 iPn    00 35.68   1.6
                eSn    01 20.60
IGT     4.07 316 iPn    00 35.20   1.0
                eSn    01 21.28
SOH     4.21 354 iPn    00 38.16   2.0
                eSn    01 24.50
LSK     4.39 324 iPnd   00 39.80   1.0
                iSn    01 29.00
GRG     4.48 345 ePn    00 40.84   0.9
                eSn    01 30.92
SRS     4.48 356 ePn    00 41.60   1.7
KEK     4.50 314 eP     00 39.00  -1.1
SRN     4.50 317 iPnd   00 40.50   0.4
                iSn    01 28.50
ALN     4.55  20 ePn    00 41.40   0.5
KNT     4.59 350 ePn    00 42.56   1.1
                iSn    01 34.58
FNA     4.61 335 ePn    00 42.32   0.6
                eSn    01 34.16
RDO     4.67  15 eP     00 43.20   0.8
KBN     4.70 329 iPnd   00 43.20   0.3
                iSn    01 34.00
KHL     4.73  67 iP     00 46.50   3.1X
MFT     4.89  31 iP     00 46.00   0.4
OHR     5.11 332 iPn    00 48.20  -0.4
                i      01 01.60
                i      01 10.40
                i      01 29.00
                i      01 44.70
                Lg     01 46.70
VLO     5.19 319 iPnd   00 50.00   0.3
                iSn    01 46.00
BCK     5.36  79 iP     00 54.20   2.0
ALT     5.43  62 eP     00 56.00   2.8X
SKO     5.68 341 iPnd   00 56.00  -0.5
                i      00 58.50
                i      01 08.00
                Lg     02 28.00
TIR     5.69 327 iPnd   00 54.50  -2.1
                iSn    01 58.00
CTT     5.69  36 iP     00 56.50  -0.2
PHP     5.74 333 iPnc   00 56.60  -0.8
                iSn    01 59.20
ISK     5.94  40 eP     01 00.70   0.5
ITU     5.95  40 eP     01 02.00   1.7
DMK     5.95  28 iP     01 00.80   0.5
LACI    5.99 328 iPnc   01 00.00  -0.8
                iSn    02 04.40
HRT     6.11  45 iP     01 02.00  -0.5
GPA     6.17  52 iP     01 05.00   1.6
SDA     6.42 329 iPnc   01 06.00  -0.7
ULC     6.45 327 iPnd   01 04.99  -2.3
                iSn    02 06.34
BCI     6.47 333 iPn    01 06.90  -0.5

PVY     6.70 334 iPnc   01 09.37  -1.4
                iSn    02 14.29
TTG     6.83 329 iPnd   01 10.35  -2.1
                iSn    02 16.08
BDV     6.90 326 iPnc   01 10.76  -2.6
                iSn    02 17.05
IVA     6.97 335 iPnc   01 13.10  -1.3
                iSn    02 20.90
PPCY    7.03 102 eP     01 13.00  -2.2
HCY     7.18 326 iPnc   01 14.61  -2.6
                iSn    02 23.35
NKY     7.26 330 iPnc   01 16.22  -2.2
                iSn    02 26.28
BRY     7.52 328 iPnd   01 19.13  -2.9
                iSn    02 32.10
PLE     7.55 334 iPnd   01 20.67  -1.7
                iSn    02 34.58
CSS     7.79 100 ePc    01 22.50  -3.1X
FAM     8.31  98 ePc    01 30.50  -2.3
MTUR    8.62   5 eP     01 38.50   1.5
HVAR    8.72 321 iPnd   01 34.50  -3.8X
                iSn    03 04.30
GZR     8.79 355 ePd    01 42.50   3.1
MLR     8.97   9 ePc    01 42.50   0.6
                e      14 49.00
KAS     8.97  55 eP     01 44.50   2.6
CFR     9.11  19 eP     01 43.00  -0.5
DEV     9.27 355 ePd    01 47.00   1.2
VRI     9.45  12 ePd    01 49.50   1.2
                ed     14 43.50
BHL     9.94 102 P      01 48.00  -7.0X
CLI    10.21  13 ePc    02 01.50   3.0X
GAZ    10.62  83 eP     02 04.40   0.3
ZAG    10.96 329 eP     02 03.50  -5.0X
KIS    10.99  18 iP+    02 10.00   1.0
     Z  11s      0.90um
PTJ    11.04 329 iP     02 05.20  -4.5X
RIY    11.31 323 ePn    02 09.80  -3.4X
SIM    11.31  40 eP     02 15.00   1.8
PSZ    11.67 346 ePd    02 15.80  -2.2
LJU    11.76 326 eP     02 17.40  -1.8
                e      02 28.20
                eS     04 18.50
                e      04 21.00
                e      04 40.80
SRO    11.92 341 eP     02 21.20  -0.1
FIR    12.05 310 ePn    02 24.50   1.6
                iSn    04 32.00
UZH    12.05 355 eP     02 24.00   1.0
ZST    12.61 339 e(P)   02 29.50  -0.8
                e      02 40.40
                e      04 34.00
SPC    12.84 349 eP     02 36.60   3.1X
PGF    12.96 302 eP     02 34.90  -0.2
       0.8s     86.50nm          5.5mb
KBA    13.08 326 iPc    02 32.40  -4.3X
                i      02 39.00
                iS     04 52.40
BHG    13.78 327 eP     02 44.60  -1.0
OJC    13.91 349 eP     02 48.80   1.5
                e      02 53.00
WTTA   14.01 323 iPd    02 48.40  -0.5
                i      02 56.80
                i      05 08.70
                i      05 16.00
OGA    14.05 321 eP     02 48.70  -0.6
WATA   14.09 323 iPc    02 48.70  -1.2
PCP    14.12 309 P      02 49.44  -0.7
FIN    14.17 307 P      02 51.25   0.4
SQTA   14.19 322 iPd    02 50.30  -0.9
                i      05 04.80
                i      05 20.50
IMI    14.25 306 P      02 52.65   0.8
GEC2   14.33 332 Pn     02 52.00  -0.8
       0.6s     12.12nm          4.4mb
                e      02 58.50
                e      03 06.30
MOTA   14.33 322 iPd    02 52.10  -0.9
OSS    14.39 319 ePd    02 53.70   0.0
ROB    14.43 307 P      02 55.04   0.9
SBF    14.53 305 eP     02 55.60   0.1
       0.9s    109.10nm          5.1mb
KHC    14.61 332 P      02 55.00  -1.4
       1.0s      7.00nm          3.9mb X
                e      03 01.50
                e      03 32.00
                e      05 30.00
```

01d 04h

```
                e     05 49.50
VDL    14.63 317 ePc  02 57.80   0.9
ENR    14.69 306 P    02 57.92   0.3
TMA    14.74 315 iPc  02 58.30   0.0
STV    14.76 306 P    02 59.49   1.0
WET    14.89 331 iPc  03 04.50   4.5X
FRF    14.94 303 eP   03 00.00  -0.6
       1.2s    68.45nm        4.8mb
LMR    14.95 302 eP   02 59.80  -1.0
       1.1s    51.55nm        4.7mb
PRU    14.99 336 eP   02 59.80  -1.4
                i     03 04.80
                e     05 49.40
PZZ    15.02 307 P    03 02.62   0.8
BHB    15.06 308 P    03 02.78   0.5
LRG    15.09 302 eP   03 02.20  -0.4
       1.1s   126.50nm        5.1mb
     Z  21s     0.28um
LLS    15.12 317 ePc  03 03.80   0.7
RSP    15.21 309 P    03 04.02  -0.2
KSP    15.23 341 iP   03 07.60   3.3X
       1.0s    31.00nm        4.5mb
                i     03 29.40
MMK    15.24 313 ePc  03 03.30  -1.4
RRL    15.40 308 P    03 07.15   0.4
LSD    15.42 310 P    03 05.83  -1.2
DIX    15.58 312 ePc  03 11.40   2.4
LPG    15.69 310 eP   03 11.30   0.8
       0.7s    33.95nm        4.7mb
LPL    15.71 310 eP   03 11.40   0.8
       0.5s    24.95nm        4.7mb
ZLA    15.82 318 ePd  03 11.70  -0.1
EMS    15.86 312 eP   03 14.10   1.6
SLE    15.94 319 ePd  03 12.70  -0.6
BRG    15.94 336 iP   03 05.20  -8.1X
       1.2s    22.00nm        4.2mb
                i     03 29.00
                i     03 40.00
GRF    15.99 329 iP   03 16.80   2.9X
       1.5s   200.00nm        5.1mb
                epP   03 34.80
                esP   03 45.00
                eS    06 15.60
                esS   06 45.00
HOF    16.21 331 eP   03 19.00   2.3
FEL    16.26 319 P    03 16.79  -0.6
BBS    16.29 317 P    03 17.45  -0.2
PYA    16.30  57 iP   03 38.00  20.1X
       1.0s   100.00nm
     Z  20s     1.50um
                e     06 26.00
ERE    16.48  71 iP   03 20.00  -0.1
                i     06 24.00
MOX    16.58 331 eP   03 22.40   1.2
       1.6s    24.00nm        4.2mb
LOMF   16.60 315 P    03 20.86  -0.8
CLL    16.63 335 iPc  03 22.10   0.3
       1.7s    39.00nm        4.3mb
                i     03 38.00
                i     03 47.70
MOF    16.72 317 P    03 22.50  -0.6
BSF    16.90 317 eP   03 24.90  -0.4
       1.1s   105.50nm        5.0mb
MTA    16.92  66 iPc  03 25.60   0.1
       0.8s    40.00nm        4.7mb
ECH    16.92 318 P    03 24.59  -1.0
HOFF   16.96 321 P    03 28.12   2.2
CDF    16.98 319 eP   03 26.00  -0.3
       0.8s    26.45nm        4.5mb
LANF   17.07 321 P    03 28.95   1.7
HAU    17.24 317 eP   03 29.10  -0.4
       0.9s    63.70nm        4.8mb
     Z  19s     0.10um
MNK    17.44   7 eP   03 46.00  14.2X
VITF   17.56 317 P    03 34.45   1.1
TNS    17.60 325 ePnd 03 33.50  -0.4
TAB    17.83  79 iP-  03 36.00  -0.9
GRO    17.91  61 eP   03 40.00   2.3
       1.0s   160.00nm        5.2mb
SMF    18.02 310 eP   03 37.00  -2.0
       0.7s    29.30nm        4.6mb
LBF    18.09 311 eP   03 39.30  -0.6
       0.6s    36.80nm        4.8mb
LOR    18.29 312 eP   03 41.90  -0.5
       0.5s    19.45nm        4.6mb
     Z  21s     0.15um
WLF    18.34 321 iPc  03 42.89   0.1
AVF    18.38 310 eP   03 42.20  -1.2
       0.8s    33.20nm        4.6mb
SSF    18.41 311 eP   03 43.00  -0.8
       0.8s    78.45nm        5.0mb
CAF    18.50 303 eP   03 44.40  -0.5
       1.0s    24.00nm        4.4mb
BGF    18.60 309 eP   03 45.70  -0.3
       0.8s    42.45nm        4.8mb
MAF    18.64 308 eP   03 45.90  -0.5
       0.8s    17.35nm        4.4mb
TCF    18.89 307 eP   03 48.30  -0.9
       1.3s    61.35nm        4.7mb
RJF    18.99 304 eP   03 50.40   0.2
       1.0s    65.40nm        4.9mb
     Z  22s     0.10um
LPO    19.02 302 eP   03 50.30  -0.2
       0.5s    13.20nm        4.5mb
HYF    19.03 311 eP   03 50.60  -0.1
ENN    19.15 323 eP   03 52.00   0.1
       1.0s    50.00nm        4.8mb
EPF    19.20 297 eP   03 51.30  -1.3
       0.6s     8.20nm        4.2mb
LSF    19.31 307 eP   03 52.60  -1.1
       1.1s    45.90nm        4.7mb
LFF    19.40 303 eP   03 54.50   0.0
       1.0s    46.80nm        4.7mb
DOU    19.40 320 Pc   03 53.80  -0.7
       0.7s    53.30nm        5.0mb
                ed    04 13.00
WTS    19.58 327 eP   03 59.00   2.6
       0.8s    20.50nm        4.5mb
                e     04 17.00
SNF    19.81 321 Pc   03 58.80   0.1
OBN    20.39  21 eP   04 05.00   0.3
       1.8s   144.00nm        5.0mb
     Z  16s     0.60um        4.0MszX
     N  20s     0.60um
     E  14s     0.40um
                i     04 29.50
                ePPP  04 40.00
                eS    07 44.00
                eSS   08 28.00
MFF    20.52 307 eP   04 05.20  -0.9
       0.8s    61.25nm        5.0mb
ELIZ   20.57 296 eP   04 07.13   0.4
ENIJ   20.94 279 eP   04 11.52   1.0
EVIA   21.04 283 eP   04 13.00   1.5
EHUE   21.16 281 eP   04 14.51   1.7
ECRI   21.20 294 eP   04 13.61   0.5
MOS    21.24  22 eP   04 14.00   0.7
                e     04 51.00
LDF    21.28 312 eP   04 13.10  -0.7
       0.5s    53.80nm        5.1mb
TAF    21.48 273 iP   04 19.00   3.1X
FLN    21.57 312 eP   04 16.00  -0.6
       0.4s    36.65nm        5.1mb
     Z  22s     0.15um        3.3Msz
LPF    21.61 310 eP   04 16.80  -0.3
       1.2s   160.65nm        5.3mb
GRR    21.64 311 eP   04 16.80  -0.5
       0.7s    59.10nm        5.1mb
ECOG   21.99 280 eP   04 20.95  -0.1
EGUA   22.04 279 eP   04 22.13   0.7
EBAN   22.07 282 eP   04 21.56  -0.2
GUD    22.28 289 eP   04 23.77  -0.2
ELUQ   22.51 281 eP   04 26.23   0.2
EHOR   23.25 282 eP   04 31.19  -2.0
PUL    23.51   8 ePd  04 36.00   0.6
                i     04 56.00
                e     05 09.00
                e     08 40.00
UPP    23.60 352 iP   04 44.60   8.3X
                i     04 55.30
NUR    23.90   1 eP   04 48.50   9.3X
IFR    23.97 271 iPc  04 43.50   3.0X
TNF    24.41 269 iP   04 44.00  -0.4
HFS    24.43 348 eP   04 42.60  -1.7
       0.4s     4.20nm        4.2mb
SHI    24.85  98 eP   04 49.00   0.1
NRA0   25.39 346 iPd  04 52.40  -1.0
                pP    05 13.40  96km
                ScPd  11 52.10
NRE0   25.39 346 eP   04 56.20   2.9X
KAF    25.54   3 iP   04 52.50  -2.3
       0.6s     4.80nm        4.2mb
NB2    25.73 346 P    04 55.10  -1.5
       0.6s     2.60nm        3.9mb
AVE    25.87 272 iPd  05 00.00   1.9
                i     05 22.00
                i     05 32.80
EKA    26.28 324 Pc   05 01.80   0.2
       1.0s    39.50nm        4.9mb
ESK    26.29 324 ePc  05 02.00   0.3
       0.7s    65.00nm        5.3mb
TIO    26.50 267 iP   05 05.20   1.1
ASH    27.30  77 eP   05 11.00  -0.1
       1.2s   180.00nm        5.5mb
DCN    27.40 317 eP   05 15.00   3.2X
MAIO   28.48  80 eP   05 21.00  -0.8
       0.9s    10.66nm        4.5mb
ARU    30.48  39 eP   05 37.00  -2.3
                e     06 11.00
SVE    31.67  39 ePc  05 48.00  -1.8
BCAO   32.43 190 iPc  05 56.00  -0.8
       0.8s   179.00nm        5.9mb X
                i     05 57.00
                i     06 27.00
FRU    38.95  65 iPc  06 52.00   0.0
       1.8s    80.00nm        5.3mb
TIC    39.89 229 Pc   07 00.23   0.3
       0.8s    84.50nm        5.7mb
KIC    39.95 228 eP   07 00.75   0.4
       0.8s   102.00nm        5.8mb
LIC    40.23 228 Pc   07 03.07   0.4
       0.6s    68.50nm        5.7mb
KSH    40.59  70 P    07 05.50  -0.1
       0.9s    30.00nm        5.1mb
NDI    45.04  84 iPd  07 40.50  -1.2
POO    47.20  99 eP   08 02.50   3.6X
WMQ    48.11  61 P    08 04.90  -0.9
LSZ    51.78 175 iP   08 34.60   0.6
                i     09 42.00
DMN    51.80  81 P    08 30.40  -3.9X
KKN    51.86  81 P    08 30.60  -4.1X
GUN    52.28  81 P    08 34.00  -4.0X
KRI    53.44 173 iPd  09 01.30  15.1X
KOD    54.84 105 eP   08 55.00  -1.9
LSA    55.65  76 iPc  09 01.80  -0.9
       0.8s    30.00nm        5.4mb
ZAK    56.50  49 iPc  09 07.60  -0.4
BUL    56.64 175 iPc  09 10.50   1.1
       1.0s    17.50nm        5.1mb
GTA    58.13  62 eP   09 17.70  -2.0
       1.2s    14.00nm        4.9mb
FRB    58.90 329 eP   09 23.50  -1.1
       1.0s    12.00nm        5.0mb
WIN    59.24 187 iPd  09 28.00   0.4
       1.0s    40.00nm        5.5mb
SLR    62.17 176 iPd  09 48.00   0.7
       0.8s    14.93nm        5.1mb
KSR    62.23 177 iPd  09 38.50  -9.2X
       1.0s   112.00nm        5.9mb
LZH    62.42  64 Pd   09 46.80  -2.3
       1.2s    37.00nm        5.3mb
                pP    10 08.00  83km
LMN    64.09 309 eP   09 59.50  -0.2
CD2    64.77  69 iPc  10 03.10  -1.3
       0.9s    36.00nm        5.3mb
MBC    65.01 351 ePd  10 04.90  -0.3
       1.4s   118.00nm        5.6mb
                PP    13 57.40
                PcS   15 01.30
                S     18 37.60
                SSS   25 30.40
                P'P'  38 44.30
YAK    65.11  30 eP   10 01.00  -5.0X
                e     10 36.00
BLF    65.43 178 eP   10 08.70   0.2
       0.7s    22.00nm        5.2mb
HHC    65.63  56 Pc   10 08.60  -1.2
       1.0s    48.00nm        5.4mb
CBM    65.63 311 eP   10 09.41  -0.2
       0.8s    10.98nm        4.8mb
EMM    66.28 309 eP   10 13.89   0.1
JAQ    66.54 320 eP   10 15.00  -0.4
KMI    66.87  75 Pd   10 15.00  -3.1X
       1.0s    60.00nm        5.5mb
XAN    67.06  64 P    10 17.40  -1.6
       0.8s     8.00nm        4.7mb
CHTO   67.17  83 eP   10 18.20  -1.6
TIY    67.73  59 eP   10 21.50  -1.7
BJI    69.09  55 eP   10 29.50  -1.9
       1.0s     8.00nm        4.6mb
GRM    69.63 178 e(P) 10 35.50   0.9
```

GAC	70.65	313	eP	10 41.00	0.2
RSNY	70.71	311	eP	10 41.77	0.5
	0.9s	13.77nm		4.8mb	
BINY	72.88	310	eP	10 55.34	1.1
	0.5s	10.97nm		5.0mb	
INK	74.02	351	eP	10 59.00	-1.3
YKA	75.75	342	eP	11 05.00	-5.3X
	0.6s	2.90nm		4.3mb	
SOB1	75.94	247	(P)	11 13.00	0.9
CVL	76.86	308	eP	11 16.80	-0.2
CEH	78.51	306	eP	11 26.13	0.1
	0.9s	79.35nm		5.6mb	
ULM	78.55	325	eP	11 28.00	2.0
LHS	80.48	306	eP	11 36.79	0.1
			epP	12 01.25	93km
JSC	80.90	306	eP	11 39.68	0.8
HBF	81.15	304	eP	11 40.90	0.7
PRM	81.74	306	eP	11 43.89	0.6
ELC	83.93	313	eP	11 54.46	0.0
			epP	12 18.45	90km
FVM	84.17	314	eP	11 56.34	0.7
	0.8s	21.00nm		5.2mb	
BDF	85.31	247	Pc	12 03.40	1.7
	1.8s	1.75nm		3.8mb	X
			e	12 35.60	
RSSD	86.82	325	eP	12 09.14	0.2
	1.1s	13.54nm		4.9mb	
NEW	88.64	335	eP	12 17.17	-0.2
	1.0s	37.14nm		5.5mb	
			epP	12 41.33	89km
TUL	88.69	315	iP	12 18.50	0.7
LRM	89.01	331	eP	12 19.60	0.1
UYO	89.16	313	iPd	12 20.80	0.7
BW06	90.33	328	eP	12 25.05	-0.6
	0.9s	3.85nm		4.6mb	
GMW	91.07	338	eP	12 29.05	0.3
			epP	12 52.81	87km
WMOK	91.22	316	eP	12 30.15	0.5
	1.0s	24.69nm		5.5mb	
			epP	12 53.65	86km
PPD	91.83	244	(P)	12 35.00	2.6
DAU	93.00	327	(P)	12 37.84	-0.3
PV09	93.61	325	eP	12 40.75	-0.2
			epP	13 03.60	84km
PV10	93.66	325	eP	12 40.94	-0.2
SRU	93.74	326	eP	12 40.20	-1.2
			epP	13 03.68	86km
DUG	93.84	328	eP	12 41.73	-0.1
	0.6s	3.66nm		5.0mb	
WRA	117.70	95	PKP	18 10.10	-0.7
	0.8s	2.00nm			
WR2	117.72	95	ePKP	18 09.30	-1.6
	0.6s	8.00nm			
STK	129.02	104	ePKP	18 30.20	-2.0
	0.5s	0.90nm			

S.D. = 1.2 on 242 of 274 obs.

OCT 01, 1993 04h 13m 09.27± 0.22s
43.331 N ± 3.2km 17.418 E ± 2.7km
DEPTH = 10.0km (geophysicist)
NORTHWESTERN BALKAN REGION (383)
ML 4.2 (ZAG), 4.1 (VIE), 4.0 (TIR). Felt (VII) at Mostar, Bosnia and Herzegovina.

HVAR	0.72	258	iPg	13 25.40	1.9
			iSg	13 39.70	
BRY	0.93	117	iPgc	13 24.92	-2.2
			iSg	13 35.52	
HCY	1.19	138	iPgd	13 31.00	-0.4
			iSg	13 45.85	
NKY	1.27	114	iPgd	13 31.23	-1.7
			iSg	13 46.41	
PLE	1.44	89	iPgd	13 34.42	-1.1
			iSg	13 51.95	
BDV	1.47	135	iPgc	13 35.61	-0.3
			iSg	13 55.05	
TTG	1.63	123	iPgc	13 37.18	-0.8
			iSg	13 58.35	
IVA	1.87	103	iPgd	13 42.00	0.3
			iSg	14 04.27	
ULC	1.92	135	iPnd	13 43.41	1.0
			iSn	14 06.92	
SDA	2.00	129	iPnd	13 45.50	2.1
			iSn	14 08.20	
PVY	2.02	111	iPnd	13 44.02	0.2
			iSn	14 08.14	
BCI	2.17	115	iPnd	13 48.30	2.3
			iSn	14 15.90	
LACI	2.40	134	iPnd	13 50.50	1.4
			iSn	14 21.00	
TIR	2.69	137	iPnd	13 54.00	0.7
			iSn	14 27.70	
ZAG	2.69	338	ePn	13 54.60	1.3
			iSn	14 27.40	
PTJ	2.77	338	iPn	13 55.50	0.9
			iSn	14 31.40	
PHP	2.78	125	iPnc	13 55.70	1.1
			iSn	14 29.70	
RIY	2.96	314	iPnc	14 00.20	3.0X
			iSn	14 42.30	
VLO	3.25	151	ePn	14 01.00	-0.3
SKO	3.26	113	iPn	14 02.00	0.5
			iS	14 34.00	
			iSn	14 38.00	
			i	14 41.00	
			iSg	14 46.00	
			Lg	15 02.00	
OHR	3.35	130	iPn	14 03.40	0.6
			i	14 11.50	
			i	14 44.70	
			i	14 54.70	
			i	15 02.30	
			Lg	15 05.00	
KBN	3.69	136	ePn	14 08.00	0.3
BZS	3.78	51	ePc	13 57.00	-11.8X
FNA	3.89	129	iPn	14 11.54	1.0
			eSn	14 57.70	
SRN	3.95	150	ePn	14 10.60	-0.6
LSK	3.97	142	ePn	14 11.00	-0.6
KEK	4.03	153	ePg	14 11.88	-0.5
BUD	4.30	15	ePn	14 14.50	-1.7
IGT	4.38	149	iPn	14 16.70	-0.7
			eSn	15 07.25	
SOP	4.39	352	ePn	14 19.90	2.4
GRG	4.40	121	ePn	14 18.13	0.5
			eSn	15 11.00	
KZN	4.44	131	ePg	14 17.00	-1.2
FIR	4.50	278	ePn	14 22.50	3.5X
			iSn	15 14.00	
SRO	4.53	8	iPn	14 19.90	0.6
			i	14 32.90	
			i(Sn)	15 11.60	
KNT	4.61	116	ePn	14 20.98	0.4
			eSn	15 18.98	
DEV	4.67	55	ePd	14 23.50	2.0
KBA	4.72	324	iPnc	14 24.60	2.2
			iSn	15 21.70	
ZST	4.87	358	iPn	14 22.80	-1.5
			i	14 28.00	
			i	14 35.40	
PSZ	4.91	20	iPn	14 22.40	-2.5
THE	4.94	121	iPn	14 25.41	0.2
			eSn	15 23.34	
LIT	4.98	129	iPn	14 25.82	-0.1
			eSn	15 24.46	
VKA	4.99	352	ePn	14 25.00	-1.0
			iPg	14 48.70	
			iSn	15 23.40	
			e(Sg)	15 59.00	
SOH	5.08	118	ePn	14 29.05	1.8
			eSn	15 27.94	
SRS	5.09	114	iPn	14 27.82	0.4
			eSn	15 29.58	
BHG	5.43	326	iPnd	14 34.80	2.6
WTTA	5.66	316	iPnc	14 37.20	1.5
			iSn	15 45.10	
			iSg	16 26.30	
AGG	5.68	138	iPn	14 35.00	-0.8
			eSn	15 38.18	
VLS	5.68	154	ePn	14 33.50	-2.3
OGA	5.74	310	ePn	14 38.30	1.5
WATA	5.74	316	iPnd	14 38.90	2.1
			iSn	15 48.90	
OUR	5.74	119	ePn	14 39.58	3.0X
			eSn	15 44.00	
PAIG	5.79	124	ePn	14 36.54	-0.8
			eSn	15 44.62	
SQTA	5.86	314	iPnc	14 40.70	2.4
			iSn	15 53.00	
MOTA	5.99	314	iPnc	14 42.30	2.1
			iSn	15 53.20	
GEC2	6.09	336	Pn	14 42.00	0.5
			Sn	15 49.70	
SPC	6.18	18	e(Pn)	14 41.20	-1.7
PGF	6.23	266	Pn	14 45.60	2.1
UZH	6.30	31	eP	14 45.00	0.6
Z	11s		0.90um		
E	11s		0.80um		
			iS	15 51.00	
KHC	6.38	337	Pn	14 46.40	0.7
			eSn	15 57.00	
			e	16 47.00	
FUR	6.47	321	eP	14 48.00	1.2
PCP	6.52	284	P	14 48.71	1.1
WET	6.61	333	iPnd	14 49.50	0.6
FIN	6.73	281	P	14 50.77	0.3
ALN	6.86	108	ePn	14 52.98	0.6
IMI	6.94	278	P	14 55.30	1.8
PRU	6.95	344	ePn	14 53.50	0.0
	0.5s	18.00nm		5.5mb	
			e	14 58.20	
			e	15 06.60	
			i	15 25.50	
			Sg	16 21.70	
ROB	6.97	281	P	14 54.07	0.1
OJC	7.08	13	eP	14 55.00	-0.4
			e	14 58.00	
			eS	16 15.60	
SBF	7.27	278	Pn	14 58.90	0.8
			Sn	16 12.30	
ENR	7.29	280	P	14 59.15	0.7
STV	7.36	281	P	14 59.52	0.1
BHB	7.47	285	P	14 59.79	-1.1
RSP	7.52	287	P	14 58.55	-3.2X
PZZ	7.54	282	P	15 01.67	-0.4
KSP	7.55	355	eP	15 02.00	0.0
			e	15 13.80	
			eS	16 27.00	
LSD	7.65	290	P	15 01.62	-2.1
GRF	7.66	328	iPnd	15 03.50	-0.1
			e(Sn)	16 48.30	
RRL	7.81	285	P	15 04.64	-1.3
FRF	7.84	275	Pn	15 05.40	-0.7
			Sn	16 31.80	
VLI	7.84	146	ePn	15 02.60	-3.5X
BRG	7.91	344	iPn	15 05.70	-1.3
			i	16 27.50	
			iSg	16 56.00	
LPG	7.94	290	Pn	15 06.40	-1.3
			Sn	16 34.50	
HOF	7.95	333	iPd	15 07.10	-0.5
LMR	7.95	274	Pn	15 08.30	0.6
			Sn	16 31.80	
LPL	7.96	290	Pn	15 07.30	-0.6
			Sn	16 35.20	
LRG	8.06	275	Pn	15 09.10	0.0
			Sn	16 35.00	
MOX	8.32	334	eP	15 12.80	0.0
	0.8s	22.00nm		5.5mb	
CLL	8.53	341	ePn	15 21.00	5.4X
			eSn	16 48.00	
			eSg	17 48.00	
BSF	8.70	305	Pn	15 16.20	-2.0
			Sn	16 55.20	
CDF	8.71	309	Pn	15 16.30	-2.0
HAU	9.05	305	Pn	15 23.40	0.5
			Sn	17 02.40	
LBF	10.17	296	Pn	15 36.90	-1.5
			Sn	17 28.20	
SMF	10.17	294	Pn	15 36.60	-1.8
			Sn	17 25.70	
LOR	10.33	297	Pn	15 39.50	-1.0
			Sn	17 30.90	
SSF	10.50	296	Pn	15 41.20	-1.7
			Sn	17 34.60	
AVF	10.53	294	Pn	15 42.30	-1.0
ENN	10.80	318	eP	15 49.00	2.1
	0.9s	12.70nm		5.3mb	
BGF	10.82	292	Pn	15 46.50	-0.7
			Sn	17 42.80	
MAF	10.95	290	Pn	15 47.00	-2.0
DOU	11.09	312	iP	15 54.60	3.7X
HYF	11.13	296	Pn	15 51.00	-0.4
CAF	11.15	284	Pn	15 49.60	-2.2
TCF	11.20	291	Pn	15 52.60	0.1
WTS	11.23	324	eP	15 58.00	5.3X
	1.0s	17.90nm		5.4mb	
HFS	16.98	354	eP	17 05.90	-2.3
	0.4s	0.80nm		3.2mb	X
OBN	17.13	40	eP	17 10.00	0.0

01d 04h

```
        1.0s    18.00nm          4.2mb
NB2     18.12 350 P      17 21.90  -0.6
        0.8s     2.40nm          3.4mb X
KAF     19  ?  13 iP     17 37.90  -1.7
        0         3.20nm          4.0mb
SDF     24        8 eP     18 31.00   0.4
     S.D.       3  on 100 of 109 obs.
---------  ------------------------
&  OCT  01, 1993  04h 20m 17.00s
   33.912 N            118.620 W
   DEPTH =   6.0km  (geophysicist)
 SOUTHERN CALIFORNIA                ( 43)
      <PAS-P>. MD 2.5 (PAS).

SSK      0.83  69 iPc    20 33.21  -0.3
                  eS     20 46.24
ABL      1.06 332 eP     20 37.01  -0.5
PEC      1.21  91 eP     20 39.08  -0.9
                  eS     20 55.96
PLM      1.57 110 (P)    20 44.76  -0.9
                  eS     21 08.49
BCH      1.75 317 eP     20 44.44  -3.8
GSC      2.04  47 eP     20 52.18  -0.2
MTUM     3.43   1 (P)    21 12.15  -0.2
         7 obs. associated
-------------------------------------
?  OCT  01, 1993  04h 29m 02.67± 1.43s
   40.149 N ±15.2km   27.471 E ±10.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)
      ML 2.8 (ISK).

EDC      0.36  57 iPg    29 10.50   0.4
MFT      0.65 347 ePg    29 16.00   0.2
                  eSg    29 26.00
EZN      0.94 250 iPn    29 20.50   0.0
CTT      1.24  36 ePn    29 25.00  -0.6
     S.D. = 0.8  on   4 of   4 obs.
-------------------------------------
   OCT  01, 1993  04h 50m 05.40± 0.17s
   15.356 S ± 4.5km  173.895 W ± 4.8km
   DEPTH =  33.0km  (normal)
   5.2mb ( 34 obs.)
 TONGA ISLANDS                      (173)
      Mo=2.5*10**17 Nm (PPT).

BKM     17.28 260 iPc    54 09.50   3.6X
DZM     19.77 247 iPc    54 39.40   3.5X
OUZ     22.74 207 P      55 10.40   4.6X
HBZ     23.21 196 eP     55 14.30   4.0X
KUZ     23.22 202 P      55 13.20   2.7
AFR     23.23  99 iPd    55 11.30   0.6
        1.5s   179.70nm          5.4mb
PAE     23.42  99 iPd    55 13.00   0.4
        1.9s   455.00nm          5.7mb
PPT     23.42  99 iPd    55 13.10   0.5
        2.1s   569.40nm          5.7mb
     Z  36s  1500.00um          7.2MszX
PPN     23.56  99 iPd    55 14.40   0.5
        1.9s   239.60nm          5.4mb
PUZ     23.67 196 eP     55 16.30   1.5
TVO     23.74  99 iPd    55 16.20   0.5
        1.5s   221.50nm          5.5mb
URZ     24.16 198 eP     55 21.10   1.6
NOZ     24.24 196 eP     55 23.80   3.5X
WLZ     24.28 201 P      55 24.80   4.1X
PMO     25.09  93 iPd    55 28.70   0.0
        2.0s   620.40nm          5.9mb
MOZ     25.12 201 P      55 32.70   3.9X
VAH     25.33  93 iPd    55 30.70  -0.3
        1.9s   249.60nm          5.5mb
TPT     25.36  93 iPd    55 31.00  -0.2
        2.0s   494.50nm          5.8mb
NGZ     25.46 199 eP     55 32.00  -0.2
RUV     25.57  93 iPd    55 33.00  -0.2
        1.6s   225.10nm          5.5mb
PGZ     26.59 197 eP     55 43.70   1.3
MNG     26.82 198 eP     55 44.30  -0.2
KIW     27.21 199 P      55 47.40  -0.8
MTW     27.31 198 eP     55 49.90   0.9
BLW     27.51 197 eP     55 50.90   0.1
MRW     27.61 199 eP     55 51.40  -0.4
QRZ     27.99 202 eP     55 54.60  -0.6
THZ     28.68 201 eP     56 02.80   1.3
LTZ     29.80 201 eP     56 09.70  -1.8
LMZ     31.71 204 eP     56 27.00  -1.2
BWZ     32.17 202 eP     56 30.30  -2.0
LRCZ    32.83 202 P      56 36.10  -2.1
MMCZ    32.85 202 P      56 37.10  -1.2
LSCZ    32.86 202 P      56 34.80  -3.6X
SBCZ    32.86 202 eP     56 36.50  -1.9
CMCZ    32.92 202 P      56 38.00  -0.9
SIZ     34.81 202 eP     56 58.10   3.0X
ARMA    34.96 239 iPd    56 57.30   0.5
        0.6s    12.00nm          5.0mb
CTA     38.19 257 iPc    57 25.50   1.5
CNB     38.40 232 iPc    57 26.60   0.9
        0.7s    56.00nm          5.5mb
CAN     38.68 232 eP     57 28.30   0.3
BWA     38.81 234 eP     57 27.30  -1.8
ADE     46.65 236 e(P)   58 33.50   0.8
WR2     49.37 257 iPd    58 53.60  -0.5
        0.8s    36.40nm          5.5mb
WRA     49.39 257 P      58 54.30   0.1
        0.4s    20.00nm          5.5mb
ASPA    49.67 252 iPc    58 56.60   0.2
        0.8s    84.20nm          5.8mb
     Z  23s      0.50um          4.5MszX
FORT    55.01 243 iPd    59 35.20  -1.0
        0.8s    52.00nm          5.6mb
NANU    66.61 252 eP     00 55.80   0.7
CSY     70.25 205 eP     01 17.80   0.8
        0.7s     8.60nm          4.9mb
STAN    71.53  41 eP     01 25.55   0.4
        1.1s    40.00nm          5.4mb
BCH     71.60  44 eP     01 25.91   0.1
SAO     71.62  42 eP     01 25.59  -0.1
COE     71.76  42 eP     01 27.33   0.7
BKS     71.78  41 eP     01 26.69   0.0
        0.8s    30.00nm          5.4mb
     Z  17s      0.10um          4.2MszX
ARN     71.91  42 ePd    01 27.75   0.3
KMPM    72.20  38 eP     01 29.97   0.8
ISA     72.96  45 eP     01 33.62  -0.1
        0.9s     8.66nm          4.8mb
                  epP    02 08.67 142kmX
WDC     73.24  38 eP     01 35.32   0.1
        1.2s    14.69nm          4.9mb
ORV     73.25  40 eP     01 30.67  -4.6X
        1.2s    20.00nm          5.0mb
     Z  18s      0.10um          4.1Msz
                  eS     11 02.67
                  eLQ    20 31.67
                  eLR    22 56.67
ORV     73.25  40 eP     01 34.56  -0.7
LGPM    73.27  38 ePd    01 35.82   0.3
MMPM    73.68  43 ePc    01 38.50   0.2
YBH     73.85  37 eP     01 39.16   0.3
        1.1s    30.00nm          5.2mb
     Z  21s      0.10um          4.1Msz
                  eS     10 57.52
                  eLQ    20 31.52
                  eLR    23 42.52
GSC     73.90  46 ePd    01 38.93  -0.3
BONR    74.35  43 ePd    01 42.01  -0.1
SPA     74.74 180 iPd    01 44.90   1.1
        0.7s    15.63nm          5.1mb
TNP     75.13  43 iPd    01 46.40  -0.1
        0.8s    15.66nm          5.1mb
TUC     76.73  51 ePd    01 56.51   1.0
        1.1s    12.63nm          4.9mb
                  epP    02 29.58 132kmX
ARUT    77.51  45 ePd    01 59.78   0.0
RMW     77.94  33 eP     02 01.51  -0.3
MSU     78.73  45 iPd    02 06.96   0.4
                  epP    02 39.28 128kmX
DUG     79.15  43 ePc    02 08.42  -0.3
        0.9s     7.29nm          4.7mb
HVU     79.99  42 ePd    02 13.04  -0.2
                  epP    02 48.64 142kmX
SRU     80.15  45 ePd    02 13.89  -0.3
                  epP    02 48.40 137kmX
PTI     80.81  41 (P)    02 17.99   0.4
PV09    80.81  46 eP     02 17.60  -0.3
                  epP    02 51.50 134kmX
PV10    80.82  46 ePd    02 17.33  -0.5
                  ipP    02 51.17 134kmX
LTX     80.98  56 ePd    02 17.41  -1.3
                  epP    02 52.71 140kmX
HHAI    81.02  41 ePd    02 19.03   0.4
                  epP    02 52.54 132kmX
ALQ     81.14  50 P      02 19.38  -0.1
        1.1s    10.28nm          4.7mb
PV08    81.19  46 eP     02 19.83   0.0
LRM     82.28  38 eP     02 24.90  -0.4
FBA     82.44  11 ePd    02 25.01  -0.4
        0.7s    14.36nm          5.1mb
BW06    82.56  42 iPd    02 26.00  -0.8
        0.8s     8.58nm          4.9mb
GOL     83.97  46 eP     02 33.21  -0.9
        0.8s     8.47nm          5.0mb
BJI     85.09 314 eP     02 40.00   0.7
        1.2s    10.00nm          4.9mb
                  eS     13 08.00
RSSD    86.75  43 ePd    02 46.58  -1.2
        0.6s     3.64nm          4.8mb
                  epP    03 21.11 135kmX
INK     88.34  14 eP     02 55.00   0.4
        1.0s     2.00nm          4.4mb
YKA     90.25  24 eP     03 03.50  -0.2
        0.9s     4.70nm          4.8mb
CHTO    92.24 289 eP     03 15.20   1.4
NSD    129.46 353 ePKP   09 09.80  -2.0
        0.4s     0.70nm
CLL    143.71 353 iPKP   09 35.80  -2.8
        0.8s     9.00nm
BRG    144.01 352 iPKP   09 35.90  -3.2X
SPC    144.33 344 ePKP   09 38.30  -1.7
MOX    144.52 354 ePKP   09 38.40  -1.6
        2.3s    43.00nm
KAS    144.73 323 iPKPd  09 41.40   0.6
PRU    144.78 351 PKP    09 39.40  -1.1
        0.9s    19.10nm
                  e      09 57.00
GRF    145.50 354 ePKP   09 42.10   0.3
     Z  19s      0.10um          4.6Msz
                  e(pPKP10 15.00
PSZ    145.59 344 ePKPd  09 43.20   1.2
MLR    145.63 335 ePKPd  09 42.50   0.2
KHC    145.77 351 ePKP   09 43.00   0.7
        1.1s    12.50nm
                  e      10 18.00
ZST    146.02 347 ePKP   09 43.90   1.3X
                  epPKP  10 16.30
GEC2   146.03 351 PKP    09 42.80   0.0
        0.6s     3.58nm
                  e      09 46.90
                  e      10 17.30
                  e      10 22.00
SRO    146.09 345 iPKP   09 46.30   3.6X
FLN    146.25   8 ePKP   09 43.20   0.2
        0.8s    22.05nm
LDF    146.46   7 ePKP   09 43.80   0.5
        0.9s    20.15nm
GRR    146.56   8 ePKP   09 43.60   0.1
        0.9s    20.15nm
LPF    146.89   9 ePKP   09 44.80   0.8
        0.5s    10.55nm
FUR    147.01 354 iPKPc  09 47.30   3.0X
        0.7s    39.00nm
CDF    147.02 359 ePKP   09 45.30   0.9
        0.7s     7.70nm
BHG    147.24 352 ePKP   09 48.10   3.5X
HAU    147.44 360 ePKP   09 47.00   2.0X
        0.6s     5.30nm
LOR    148.13   3 ePKP   09 48.30   2.2
        0.6s     5.50nm
SSF    148.31   3 ePKP   09 49.00   2.6X
        1.1s    21.00nm
LBF    148.42   3 ePKP   09 49.10   2.5X
        0.7s     7.70nm
AVF    148.58   4 ePKP   09 49.20   2.4X
        0.9s    12.80nm
SMF    148.75   3 ePKP   09 49.90   2.8X
BGF    148.77   4 ePKP   09 50.00   2.9X
        0.8s    11.30nm
LSF    148.96   6 ePKP   09 50.80   3.4X
        0.7s    18.30nm
TCF    148.99   5 ePKP   09 51.10   3.6X
MAF    149.09   5 ePKP   09 51.50   3.9X
        0.7s     9.25nm
LPL    149.93 359 ePKP   09 54.60   5.4X
        1.0s    12.40nm
LPG    149.95 359 ePKP   09 54.70   5.4X
        0.8s     7.80nm
SKO    150.36 336 ePKP   09 55.00   5.3X
LPO    150.47   7 ePKP   09 55.40   5.7X
OHR    151.34 336 ePKP   09 55.50   4.3X
     S.D. = 1.0  on  97 of 126 obs.
-------------------------------------
   OCT  01, 1993  05h 11m 12.80± 0.22s
```

```
   44.541 N ± 1.8km    7.300 E ± 3.0km
   DEPTH =  11.7 ±  2.1 km
 NORTHERN ITALY                    (545)
      ML 3.1 (GEN), 3.1 (LDG).

PZZ     0.15 256 Pc    11 16.26  -0.3
STV     0.30 177 Pc    11 19.33   0.2
                 S     11 23.03
BHB     0.30 355 Pc    11 19.45   0.3
                 S     11 23.55
ENR     0.33 165 Pc    11 19.92   0.2
                 S     11 24.16
ROB     0.48 121 Pc    11 23.28   0.7
                 S     11 30.24
RRL     0.53 316 Pc    11 23.21  -0.4
                 S     11 29.83
TOUF    0.53 184 Pg    11 23.38  -0.2
AUTN    0.55 170 Pg    11 23.92  -0.2
                 Sg    11 31.75
SAOF    0.58 162 Pg    11 24.33  -0.2
                 Sg    11 32.05
RSP     0.61 357 Pc    11 24.40  -0.6
                 S     11 33.23
AURF    0.65 178 Pg    11 25.58  -0.2
                 Sg    11 34.48
MVIF    0.65 189 Pg    11 25.72  -0.1
                 Sg    11 34.50
SBF     0.69 172 Pg    11 26.20  -0.1
                 Sg    11 35.70
FIN     0.73 117 Pc    11 27.65   0.6
                 S     11 37.55
IMI     0.76 146 Pc    11 27.71   0.2
                 S     11 37.60
REVF    0.80 177 Pg    11 28.91   0.6
CALN    0.84 201 Pg    11 29.20   0.2
PCP     0.89  90 Pc    11 30.72   1.0
                 S     11 43.06
LSD     0.92 354 P     11 30.01  -0.4
                 S     11 42.29
LPG     1.03 338 Pg    11 32.80   0.5
                 Sg    11 47.80
LPL     1.05 338 Pg    11 33.20   0.5
                 Sg    11 49.40
FRF     1.09 206 Pg    11 33.90   0.8
                 Sg    11 47.00
LRG     1.28 212 Pn    11 36.70   0.3
                 Pg    11 37.40
                 Sg    11 53.70
LMR     1.34 206 Pn    11 37.40   0.2
                 Pg    11 38.00
                 Sg    11 55.00
PGF     2.34 148 Pn    11 51.40  -0.5
                 Sn    12 17.20
SMF     3.21 312 Pn    12 05.70   1.6
BSF     3.31 354 Pn    12 05.20  -0.4
LBF     3.37 318 Pn    12 06.70   0.3
HAU     3.53 350 Pn    12 08.50   0.0
AVF     3.57 310 Pn    12 09.60   0.5
LOR     3.63 320 Pn    12 10.90   0.8
SSF     3.66 315 Pn    12 11.10   0.7
BGF     3.72 304 Pn    12 11.50   0.2
MAF     3.73 298 Pn    12 12.40   0.9
CAF     3.75 278 Pn    12 10.00  -1.8
CDF     3.87 360 Pn    12 12.30  -1.2
     S.D. = 0.7  on  36 of  36 obs.
-------------------------------------
   OCT  01, 1993  05h 15m 04.83± 0.47s
   29.427 S ± 5.4km   68.140 W ± 9.8km
   DEPTH = 117.0 ±  9.5 km
 SAN JUAN PROVINCE, ARGENTINA     (137)

RTCB    2.13 195 iPc   15 42.00   1.6
ZON     2.16 192 iPc   15 41.50   0.7
CFA     2.17 182 iPd   15 42.10   1.2
MDZ     3.50 190 eP    16 02.60   4.1X
                 e(S)  16 38.60
TCA     3.61 123 iPd   15 58.10  -1.9
FSA     3.83  30 iPc   16 04.80   2.0
JACH    3.87 212 iP    16 04.58   1.1
PEL     4.30 210 iP    16 09.51   0.2
FCH     4.30 205 iP    16 10.96   1.3
ROCH    4.31 214 iP    16 09.36  -0.2
SAN     4.56 208 iP    16 12.99   0.2
PCH     4.65 205 iP    16 14.61   0.5
IHA     4.68 219 eP    16 13.00  -1.4
TACH    4.84 209 iP    16 15.75  -1.0
LCCH    4.99 215 iP    16 17.10  -1.6
CACH    5.12 204 iP    16 21.22   0.6
LNV     5.31 211 iP    16 20.76  -2.2
ANT     6.05 340 eP    16 31.70  -1.6
HJA     6.66  22 ePc   16 42.50   1.0
MOCB    8.45  16 P     17 06.30   0.0
CCH    12.13   9 P     18 05.50  10.3X
CNCB   12.56   1 P     18 01.00   0.0
LPB    12.83   0 P     18 05.00   0.5
LPAZ   13.08   0 P     18 08.10   0.2
                 LR    22 58.00
ARE    13.27 346 eP    18 08.00  -2.0
SIV    14.87  27 P     18 26.80  -3.5X
PPD    16.85  68 eP    18 53.20  -1.7
TUL    70.01 336 iP    26 06.40   0.9
LRM    85.00 331 eP    27 30.30   2.0
WR2   126.33 207 iPKPc 33 55.50  -0.3
        0.5s     3.80nm
                 e     34 26.80
WRA   126.34 207 PKP   33 56.00   0.1
        0.5s     2.20nm
DMN   156.44  88 PKP   35 00.00  12.5X
     S.D. = 1.3  on  28 of  32 obs.
-------------------------------------
%  OCT  01, 1993  05h 35m 58.98± 0.45s
   44.545 N ± 3.7km    7.255 E ± 4.8km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                    (545)
      ML 2.1 (GEN).

PZZ     0.12 250 Pc    36 02.20   0.1
                 S     36 04.19
BHB     0.30   1 P     36 05.52   0.3
                 S     36 09.82
STV     0.31 171 Pc    36 05.25  -0.1
                 S     36 09.18
ENR     0.34 159 Pc    36 05.88  -0.2
                 S     36 10.34
RRL     0.50 318 Pc    36 09.18  -0.1
                 S     36 15.68
ROB     0.51 119 Pc    36 09.31   0.0
                 S     36 16.37
RSP     0.61   0 P     36 10.90  -0.4
                 S     36 18.57
FIN     0.76 116 P     36 13.69  -0.2
                 S     36 23.33
IMI     0.78 144 P     36 14.58   0.3
                 S     36 24.29
PCP     0.92  90 P     36 16.77   0.1
                 S     36 28.59
     S.D. = 0.3  on  10 of  10 obs.
-------------------------------------
?  OCT  01, 1993  06h 02m 28.84± 2.87s
   35.375 S ±21.2km  179.101 E ±32.4km
   DEPTH = 277.3 ± 15.6 km
   3.3mb (  1 obs.)
 OFF E. COAST OF N. ISLAND, N.Z. (160)

HBZ     2.31 196 eP    03 15.60  -1.0
PUZ     2.78 194 P     03 20.90  -0.3
                 eS    04 05.00
KUZ     3.06 242 P     03 21.40  -2.7
URZ     3.29 208 P     03 26.50   0.0
                 S     04 15.70
NOZ     3.35 194 P     03 27.50   0.4
PAHZ    3.84 205 eP    03 34.10   1.5
MOZ     4.65 227 P     03 44.60   2.7
NGZ     4.71 215 P     03 43.90   1.1
CNZ     4.75 216 eP    03 44.80   1.6
WAHZ    4.84 206 eP    03 43.90  -0.2
TEHZ    4.95 201 eP    03 46.10   0.6
PGZ     5.69 202 eP    03 55.50   1.2
MNG     5.96 208 P     03 57.40  -0.3
                 S     05 09.90
KIW     6.40 210 P     04 02.50  -0.5
MTW     6.43 205 eP    04 02.90  -0.5
CAW     6.54 208 eP    04 04.50  -0.3
DIW     6.78 215 P     04 08.10   0.3
MRW     6.79 209 P     04 07.40  -0.5
TCW     6.95 212 P     04 08.90  -1.0
THZ     8.01 215 eP    04 23.10   0.0
                 eS    05 59.00
LTZ     9.10 214 eP    04 36.20  -0.6
MQZ     9.69 209 eP    04 41.80  -2.3
                 S     06 33.40
WRA    42.16 279 P     09 56.70   0.6
        0.6s     0.90nm        3.3mb
     S.D. = 1.3  on  23 of  23 obs.
-------------------------------------
?  OCT  01, 1993  06h 04m 08.96± 2.22s
   31.299 S ±21.8km   69.925 W ±12.7km
   DEPTH = 143.3 ± 18.5 km
 SAN JUAN PROVINCE, ARGENTINA     (137)
      MD 4.3 (SAN).

RTCB    0.98 101 iPc   04 33.00  -0.3
CFA     1.47 102 iPd   04 38.20   0.1
MDZ     1.82 150 eP    04 58.00  15.9X
ROCH    1.91 209 iP    04 43.40   0.2
                 iS    05 06.09
PEL     1.95 199 iP    04 43.48  -0.1
                 iS    05 06.54
FCH     2.05 189 iP    04 45.48   0.5
                 iS    05 10.30
SAN     2.24 196 iP    04 46.97   0.0
                 iS    05 12.58
IHA     2.25 220 eP    04 47.50   0.3
                 eS    05 12.80
PCH     2.37 192 iP    04 48.79   0.1
                 iS    05 16.99
TACH    2.50 200 iP    04 49.94  -0.3
                 (S)   05 20.82
LCCH    2.58 212 iP    04 51.38   0.2
                 iS    05 19.95
CACH    2.87 191 iP    04 55.15   0.1
                 iS    05 28.48
LNV     2.93 205 iP    04 54.76  -0.9
                 iS    05 27.05
MRA     3.76 108 iPc   05 06.50   0.0
                 S     05 47.10
TCA     4.57  92 iP    05 17.50   0.1
ANT     7.58 357 eP    06 11.20  13.3X
                 eS    06 50.00
HJA     9.00  28 iPd   05 53.50 -23.4X
     S.D. = 0.4  on  14 of  17 obs.
-------------------------------------
*  OCT  01, 1993  06h 04m 58.74± 1.82s
   58.192 N ±15.7km  143.421 W ± 5.7km
   DEPTH =  10.0km  (geophysicist)
 GULF OF ALASKA                    ( 15)
      ML 2.6 (AEIC).

KAIM    1.82 344 eP    05 31.85   1.6
CYK     1.96  14 eP    05 32.63   0.4
                 eS    05 55.58
WRG     1.99  21 eP    05 32.68  -0.1
                 eS    05 55.67
SNH     2.02   8 eP    05 33.80   0.6
HMT     2.19 349 eP    05 36.04   0.2
YAH     2.34  21 eP    05 38.16   0.1
YKU     2.35  53 P     05 38.20   0.2
CRQM    2.58   3 eP    05 41.05  -0.3
TGL     2.59   6 eP    05 40.83  -0.7
CVA     2.65 334 iP    05 42.05  -0.1
BALM    2.91  10 iP    05 45.67  -0.3
                 eS    06 18.38
CTGM    2.98  20 eP    05 46.76  -0.3
GLB     3.27 357 iP    05 50.57  -0.5
                 eS    06 27.92
VLZ     3.30 335 eP    05 51.01  -0.4
KLU     3.54 340 iP    05 54.40  -0.6
MPA     3.82 310 eP    05 58.00  -0.8
PTE     3.91 316 eP    05 59.05  -1.1
KNK     4.11 324 eP    06 04.55   1.6
SCM     4.15 333 eP    06 03.13  -0.4
SLKM    4.18 307 eP    06 04.18   0.2
CNPM    4.27 292 eP    06 05.42   0.1
SML     4.39 328 eP    06 06.53  -0.4
PLRM    4.46 322 eP    06 08.87   1.0
     S.D. = 0.7  on  23 of  23 obs.
-------------------------------------
   OCT  01, 1993  06h 29m 27.73± 0.63s
   39.225 N ± 6.0km   21.556 E ± 5.4km
   DEPTH =  10.0km  (geophysicist)
 GREECE                            (364)
      ML 2.7 (THE).

AGG     0.64 108 ePg   29 40.98   0.5
                 eSg   29 51.78
IGT     1.00 288 iPg   29 45.78  -0.8
                 iSg   30 01.02
KZN     1.09   9 ePb   29 46.90  -1.4
LIT     1.13  39 ePb   29 48.58  -0.4
                 eSb   30 05.90
VLS     1.29 216 ePn   29 51.70   0.0
```

01d 06h

```
KEK      1.45 290 ePn   29 59.80   5.9X
FNA      1.56 355 ePb   29 56.26   0.6
                  eSb   30 16.18
THE      1.77  37 ePb   29 58.98   0.4
PAIG     1.78  66 ePb   29 57.66  -1.1
                  eSb   30 20.74
GRG      1.85  20 ePb   30 00.78   1.1
                  eSb   30 26.18
OHR      1.97 343 iPn   30 03.00   1.4
SOH      2.11  40 ePn   30 03.22  -0.3
                  eSn   30 29.34
OUR      2.17  59 ePn   30 04.70   0.3
                  eSn   30 30.66
KNT      2.19  28 ePn   30 04.30  -0.4
                  eSn   30 31.34
SRS      2.45  39 ePn   30 08.62   0.2
                  eSn   30 38.06
     S.D. = 0.9  on  14 of  15 obs.
-----------------------------------
&  OCT  01, 1993  06h 35m 56.65s
   60.965 N          147.668 W
   DEPTH =  21.5km
 SOUTHERN ALASKA                  (  2)
     <AEIC>. ML 3.6 (AEIC), 3.6
     (PMR).

KNK      0.59 320 iPc   36 07.68  -0.5
                  eS    36 16.72
PTE      0.67 262 iPc   36 08.53  -1.0
                  eS    36 17.99
VLZ      0.67  75 iPd   36 08.33  -1.2
                  eS    36 18.21
HIN      0.81 134 eP    36 11.07  -0.9
                  eS    36 20.79
SCM      0.89  10 iPd   36 11.92  -1.4
SML      0.90 340 iPc   36 12.26  -1.3
                  eS    36 24.51
PLRM     0.95 312 iPc   36 12.61  -1.6
                  eS    36 26.01
PMR      0.95 312 ePc   36 12.29  -1.9
                  eS    36 25.34
MPA      0.96 241 iPd   36 12.71  -1.8
                  eS    36 25.58
PMS      0.96 288 P     36 13.00  -1.5
KLU      1.00  57 iPd   36 13.43  -1.8
GHO      1.01 324 iPc   36 13.93  -1.5
                  eS    36 27.10
CVA      1.03 113 iPc   36 14.14  -1.5
                  eS    36 29.16
SEW      1.23 226 eP    36 16.26  -2.4
                  eS    36 32.09
PWA      1.27 304 P     36 17.70  -1.4
SGAM     1.30 110 iPc   36 17.61  -1.9
SLKM     1.34 251 iPd   36 18.31  -1.8
TOA      1.35  31 P     36 19.50  -0.9
TZL      1.53  44 eP    36 22.29  -0.5
SUA      1.57 290 eP    36 21.93  -1.7
RAGM     1.58 110 P     36 25.70   2.0
MID      1.68 156 P     36 25.30   0.3
NKA      1.76 264 eP    36 25.81  -0.4
HMT      1.79 109 eP    36 24.16  -2.6
SDG      1.87  32 ePd   36 27.01  -0.8
                  eS    36 50.65
CUT      1.90 320 iPc   36 27.17  -1.1
GLB      1.93  74 ePc   36 26.77  -1.9
                  eS    36 50.98
SKT      2.12 300 ePc   36 29.11  -2.3
                  eS    36 55.05
DHY      2.12   4 eP    36 30.60  -1.1
                  eS    36 55.78
CGLM     2.13 281 eP    36 29.37  -2.3
SPU      2.14 278 eP    36 29.22  -2.6
CRP      2.20 280 eP    36 29.83  -2.9
CKN      2.21 279 eP    36 30.91  -1.8
CKT      2.22 278 eP    36 30.57  -2.4
NCG      2.22 283 eP    36 30.53  -2.4
HUR      2.22 336 eP    36 31.94  -1.0
                  eS    36 59.91
CRQM     2.23  93 eP    36 30.72  -2.4
BKG      2.24 275 eP    36 30.47  -2.8
CP2      2.24 280 eP    36 30.93  -2.4
PAX      2.27  26 eP    36 32.34  -1.3
                  eS    37 00.44
CNPM     2.29 233 ePd   36 31.11  -2.8
BGL      2.31 280 eP    36 31.85  -2.4
RDT      2.36 262 eP    36 33.53  -1.3
HOM      2.37 238 P     36 32.50  -2.5
TGL      2.38  93 eP    36 32.80  -2.4
DFR      2.49 264 eP    36 34.00  -2.8
RND      2.51 348 eP    36 35.76  -1.3
REF      2.52 261 P     36 34.20  -3.1
XLV      2.53 235 eP    36 34.31  -2.9
RSO      2.55 261 eP    36 34.91  -2.9
RS2      2.55 261 eP    36 34.93  -2.9
RED      2.57 260 eP    36 35.20  -2.7
                  eS    37 04.83
RDW      2.57 261 eP    36 34.94  -3.1
BALM     2.59  86 ePc   36 35.62  -2.7
NCT      2.61 263 eP    36 35.88  -2.7
THY      2.62  19 P     36 39.00   0.4
ILIM     2.76 254 ePd   36 37.25  -3.4
                  eS    37 08.94
TRF      2.78 335 eP    36 38.41  -2.6
INE      2.82 254 eP    36 38.47  -3.0
MCK      2.84 349 eP    36 40.70  -1.0
WRG      2.94 106 eP    36 40.44  -2.6
YAH      2.98  99 P     36 41.50  -2.3
KTH      3.01 331 eP    36 42.70  -1.4
OPT      3.06 247 eP    36 41.82  -3.0
CTGM     3.09  87 eP    36 43.82  -1.5
AUE      3.27 243 eP    36 45.18  -2.6
AUL      3.29 244 eP    36 45.83  -2.2
AUP      3.29 243 eP    36 45.76  -2.4
AUH      3.30 243 P     36 45.90  -2.4
AUI      3.31 243 eP    36 45.91  -2.4
AUW      3.31 244 P     36 45.70  -2.6
PDB      3.45 253 eP    36 47.15  -3.1
HDA      3.47   5 eP    36 48.69  -1.9
BC3      3.48  50 eP    36 49.16  -1.7
CDD      3.63 238 eP    36 49.75  -3.2
NEA      3.68 350 eP    36 51.02  -2.6
CCB      3.70 359 eP    36 51.37  -2.4
IL1      3.84   5 eP    36 53.38  -2.4
ILB      3.84   5 eP    36 53.64  -2.2
                  eS    37 35.42
SVW      3.87 276 eP    36 51.00  -5.3
FBA      3.95 359 eP    36 54.40  -3.0
MDM      4.02 357 eP    36 55.86  -2.5
GLM      4.04   2 P     36 57.70  -1.0
KDC      4.06 220 e(P)  36 53.70  -5.2
IM3      5.73 334 eP    37 19.21  -3.3
IMA      5.78 335 eP    37 20.07  -3.4
BM3      6.62  10 eP    37 33.21  -1.9
        87 obs. associated
-----------------------------------
   OCT  01, 1993  06h 47m 01.29± 0.82s
   39.858 N ± 5.9km   19.893 E ± 7.2km
   DEPTH =   5.0km  (geophysicist)
 GREECE-ALBANIA BORDER REGION    (392)
     ML 2.9 (THE). MD 3.2 (ATH).

SRN      0.09  75 iPgd  47 03.00  -0.3
                  iSg   47 06.00
KEK      0.16 207 ePg   47 04.10  -0.6
IGT      0.47 134 ePg   47 10.82   0.1
                  eSg   47 20.76
LSK      0.62  61 ePg   47 11.40  -2.2
VLO      0.68 334 ePg   47 10.20  -4.7X
KBN      1.03  42 ePg   47 21.70   0.5
                  iSg   47 37.50
OHR      1.43  29 iPn   47 26.40  -1.6
                  i     47 28.40
                  i     47 46.80
                  i     47 48.00
                  Lg    47 52.00
FNA      1.46  50 ePb   47 29.03   0.6
                  iSb   47 51.67
TIR      1.49 359 ePn   47 30.00   1.3
                  eSn   47 49.00
KZN      1.51  72 ePb   47 30.40   1.3
                  eSg   47 54.20
VLS      1.76 162 ePg   47 37.60   4.9X
LACI     1.78 356 ePn   47 33.50   0.6
PHP      1.87  13 ePn   47 32.70  -1.6
LIT      2.01  82 ePn   47 36.88   0.6
                  eSn   48 06.28
AGG      2.06 113 ePn   47 39.16   2.1X
                  eSn   48 07.92
GRG      2.21  59 ePn   47 38.80  -0.4
                  eSn   48 09.88
KNT      2.64  59 ePn   47 45.76   0.5
                  eSn   48 20.40
SOH      2.81  69 ePn   47 49.20   1.3
PAIG     2.91  87 ePn   47 47.72  -1.4
                  eSn   48 28.24
SRS      3.09  65 ePn   47 51.88   0.2
OUR      3.17  80 ePn   47 53.72   0.9
     S.D. = 1.2  on  18 of  21 obs.
-----------------------------------
   OCT  01, 1993  06h 48m 46.09± 0.55s
   43.387 N ± 7.4km   17.529 E ± 6.4km
   DEPTH =   5.0km  (geophysicist)
 NORTHWESTERN BALKAN REGION       (383)

HVAR     0.82 256 iPg   49 02.40   0.0
                  iSg   49 15.60
BRY      0.89 123 iPgd  49 02.10  -1.6
                  iSg   49 13.27
HCY      1.18 142 iPgc  49 07.84  -0.7
                  iSg   49 23.51
PLE      1.36  92 iPgc  49 11.22  -0.6
                  iSg   49 29.51
BDV      1.46 139 iPgc  49 12.30  -0.8
                  iSg   49 32.57
TTG      1.59 126 iPgc  49 15.24   0.3
                  iSg   49 36.80
IVA      1.81 106 iPnd  49 18.93   0.7
                  iSn   49 42.52
ULC      1.91 138 iPnc  49 20.19   0.6
                  iSn   49 45.02
PVY      1.96 113 iPnd  49 20.96   0.5
                  iSn   49 46.11
SDA      1.97 132 ePn   49 21.50   1.0
BCI      2.13 118 ePn   49 25.40   2.6X
LACI     2.38 137 ePn   49 29.00   2.7X
PHP      2.74 127 ePn   49 32.20   0.6
PTJ      2.75 336 iPn   49 32.10   0.3
                  iSn   50 09.30
RIY      2.99 312 e(Pn) 49 39.40   4.5X
SKO      3.21 115 ePn   49 31.00  -7.2X
OHR      3.33 132 ePn   49 30.80  -9.1X
GEC2     6.07 335 Pn    50 18.20  -0.6
                  Sg    51 25.70
     S.D. = 0.8  on  13 of  18 obs.
-----------------------------------
%  OCT  01, 1993  06h 57m 59.24± 0.87s
   39.494 N ± 8.0km   21.707 E ± 7.2km
   DEPTH =  10.0km  (geophysicist)
 GREECE                           (364)

AGG      0.67 134 ePg   58 12.64   0.0
                  eSg   58 20.84
LIT      0.86  45 ePg   58 15.44  -0.3
                  eSg   58 27.76
IGT      1.06 273 ePg   58 19.28   0.0
FNA      1.31 349 ePb   58 23.52   0.0
SOH      1.83  43 ePb   58 31.40   0.4
     S.D. = 0.3  on   5 of   5 obs.
-----------------------------------
%  OCT  01, 1993  07h 32m 17.57± 0.92s
   40.143 N ± 6.6km   23.909 E ± 6.9km
   DEPTH =   5.0km  (geophysicist)
 GREECE                           (364)
     ML 2.3 (THE).

OUR      0.20  16 ePg   32 21.20  -0.4
                  eSg   32 24.84
PAIG     0.28 219 iPg   32 22.48  -0.7
                  eSg   32 27.32
SOH      0.80 328 ePg   32 33.60   0.0
                  eSg   32 45.12
THE      0.87 304 ePg   32 34.76   0.0
                  eSg   32 47.36
SRS      1.00 346 ePg   32 36.84  -0.2
                  eSg   32 50.52
LIT      1.09 268 ePg   32 38.64   0.1
                  eSg   32 53.84
KNT      1.28 323 ePb   32 40.36  -1.3
                  eSb   33 00.56
GRG      1.41 306 ePb   32 45.40   1.5
                  eSb   33 03.64
ALN      1.79  64 ePb   32 49.88   0.5
                  eSb   33 14.20
FNA      2.04 289 ePn   32 53.50   0.5
                  eSn   33 20.15
     S.D. = 0.9  on  10 of  10 obs.
-----------------------------------
*  OCT  01, 1993  07h 49m 26.97± 1.32s
   44.715 S ± 8.2km  167.083 E ±12.8km
   DEPTH =  63.9 ± 17.3 km
   3.7mb (  1 obs.)
```

```
 SOUTH ISLAND, NEW ZEALAND          (162)

MSZ      0.60  86 P      49 39.50  -1.0
TLC      1.49 109 Pd     49 51.40  -0.8
MHZ      1.60 103 P      49 54.00   0.4
CMCZ     1.62 106 Pd     49 53.70  -0.2
SBCZ     1.63 104 P      49 54.30   0.3
LRCZ     1.65 103 Pd     49 54.80   0.5
LSCZ     1.67 105 Pd     49 54.80   0.2
MSCZ     1.70 104 P      49 55.30   0.4
LMZ      1.86  58 P      49 58.20   1.1
BWZ      2.01  86 Pc     50 00.90   1.7
TUZ      2.18 126 Pd     49 58.50  -3.1X
SIZ      2.28 162 P      49 56.10  -6.9X
ODZ      2.55  99 Pd     50 06.30  -0.5
WVZ      3.11  59 eP     50 15.00   0.4
MQZ      4.13  78 P      50 28.70  -0.3
LTZ      4.22  65 P      50 29.50  -0.9
                  eS     51 24.40
DSZ      4.55  51 P      50 34.80  -0.1
THZ      5.17  57 P      50 43.90   0.2
                  S      51 47.20
QRZ      5.58  48 P      50 49.20  -0.2
TCW      6.33  59 eP     51 00.30   0.5
DIW      6.37  55 P      51 01.10   0.7
MRW      6.58  61 eP     51 03.40   0.1
KIW      6.93  59 eP     51 07.10  -1.0
MTW      7.13  63 eP     51 09.60  -1.2
NRZ      7.41  46 P      51 14.70   0.0
MNG      7.42  59 eP     51 12.30  -2.6
                  eS     52 35.60
NGZ      8.42  52 P      51 30.10   1.3
MOZ      8.48  46 P      51 29.30  -0.2
URZ      9.90  53 P      51 49.50   0.5
KUZ     10.30  42 eP     51 55.10   0.7
OUZ     10.71  30 eP     52 00.00   0.0
CNB     16.48 299 eP     53 26.80  11.4X
                  eTT    08 21.00
CAN     16.70 298 eP     53 23.60   5.4X
                  eTT    08 20.70
WRA     36.69 302 P      56 29.40   0.0
         0.6s      0.60nm          3.7mb
     S.D. = 0.9  on  30 of  34 obs.
-----------------------------------
*  OCT  01, 1993  07h 51m 25.23± 2.10s
   32.829 S ±12.8km   71.600 W ±15.9km
   DEPTH =  23.2 ±  8.0 km
 NEAR COAST OF CENTRAL CHILE        (135)
      MD 4.0 (SAN).

IHA      0.20 190 iPc    51 30.80   0.1
                  iS     51 36.30
ROCH     0.52 106 iP     51 35.52  -0.3
                  iS     51 45.09
LCCH     0.65 178 iP     51 37.35  -0.4
                  iS     51 48.19
PEL      0.83 112 iP     51 40.65  -0.3
                  iS     51 54.28
JACH     0.86  80 iP     51 39.46  -2.0
                  iS     51 53.51
TACH     0.99 146 iP     51 43.31  -0.3
                  iS     51 58.55
SAN      1.00 129 iP     51 43.52  -0.3
                  iS     51 59.21
LNV      1.13 172 iP     51 44.63  -1.0
                  iS     52 02.03
PCH      1.21 131 iP     51 46.87   0.1
                  (S)    52 07.29
FCH      1.21 115 iP     51 46.47  -0.6
                  iS     52 04.65
RTCB     2.73  61 eP     52 10.10   1.5
MRA      4.99  87 e(P)   52 40.80   0.2
TCA      6.13  78 eP     52 54.00  -2.8
WRA    121.96 209 Pdiff  07 03.00  15.0X
         0.9s      0.30nm
     S.D. = 1.2  on  13 of  14 obs.
-----------------------------------
   OCT  01, 1993  09h 10m 45.39± 0.99s
   40.477 N ± 9.5km   21.850 E ± 6.1km
   DEPTH =  10.0km  (geophysicist)
 GREECE                             (364)
      ML 2.2 (THE).

FNA      0.47 311 ePg    10 55.66   0.6
                  eSg    11 03.66
LIT      0.62 127 iPg    10 57.70  -0.1
                  eSg    11 06.70
GRG      0.64  41 ePg    10 58.57   0.4
                  iSg    11 08.46
OHR      1.02 309 eP     11 04.50  -0.2
KNT      1.05  49 ePg    11 04.80  -0.4
SOH      1.20  73 ePb    11 08.16   0.5
SKO      1.53 348 eP     11 12.00  -0.7
     S.D. = 0.6  on   7 of   7 obs.
-----------------------------------
   OCT  01, 1993  09h 16m 18.31± 0.51s
    6.897 N ± 6.9km   73.096 W ± 6.2km
   DEPTH = 168.5 ±  7.8 km
   4.5mb (  3 obs.)
 NORTHERN COLOMBIA                  ( 99)

FUQ      1.55 204 iPd    16 50.00  -0.6
BOG      2.46 203 iPd    17 02.00   1.4
SDV      3.14  51 iPnd   17 10.10   1.2
                  iSn    17 47.60
TOV      4.35  48 iPnd   17 25.20   0.8
                  iPP    17 25.90
                  iSn    18 15.40
CEOS     5.17  65 iPc    17 34.30  -0.9
                  iS     18 31.70
MORO     6.16  50 iPd    17 48.10  -0.1
                  iS     18 56.60
UPA      6.70 288 iPd    17 53.61  -1.8
                  iS     19 05.27
OLLA     6.95  63 iPd    17 57.80  -1.1
                  iS     19 15.50
ECO      6.98 291 ePd    17 57.29  -1.8
                  eS     19 05.49
                  iS     19 07.43
PSO      7.06 217 eP     18 01.00   0.4
DVD      9.40 280 eP     18 32.07   1.0
BRU      9.57 282 ePc    18 34.39   0.6
LPAZ    23.55 168 P      21 15.30  -0.1
LPB     23.80 168 P      21 18.00   0.5
CNCB    24.09 168 iP     21 21.10   0.6
CCH     25.09 164 P      21 30.00   0.6
SIV     25.67 152 P      21 32.80  -1.7
LMN     39.47   9 eP     23 36.00   2.4
YKA     63.20 340 eP     26 31.00   0.6
         0.7s      4.70nm          4.5mb
LIC     67.57  86 P      26 57.36  -1.8
         0.7s      7.50nm          4.6mb
KIC     67.84  86 P      27 00.66  -0.2
         0.7s      6.50nm          4.5mb
ASPA   149.18 234 ePKP   35 49.20   4.6X
         0.5s      6.50nm
WR2    150.37 241 iPKPd 35 52.60   6.2X
         0.3s      8.10nm
WRA    150.39 241 PKP   35 50.70   4.3X
         0.4s      1.60nm
     S.D. = 1.3  on  21 of  24 obs.
-----------------------------------
?  OCT  01, 1993  10h 16m 30.98± 1.18s
   39.142 N ± 7.5km   27.536 E ±15.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)
      ML 2.9 (ISK).

IZM      0.77 196 ePg    16 46.10   0.0
                  eSg    16 58.00
EZN      1.16 306 ePn    16 52.70   0.1
EDC      1.23  12 ePn    16 54.00   0.2
MFT      1.65 353 ePn    17 00.00  -0.2
     S.D. = 0.3  on   4 of   4 obs.
-----------------------------------
   OCT  01, 1993  10h 42m 39.43± 0.40s
   43.459 S ± 4.9km  169.896 E ± 6.2km
   DEPTH =   5.0km  (geophysicist)
   3.5mb (  1 obs.)
 SOUTH ISLAND, NEW ZEALAND          (162)

LMZ      0.52 240 Pd     42 50.90   1.0
                  S      42 57.90
WVZ      0.72  58 Pd     42 55.80   1.9
                  S      43 06.00
BWZ      1.07 181 Pc     43 00.50   0.5
LRCZ     1.65 194 P      43 09.40   0.0
MHZ      1.66 195 P      43 09.50   0.1
MSCZ     1.67 192 P      43 09.70   0.2
ODZ      1.67 162 P      43 09.80   0.3
                  S      43 31.10
SBCZ     1.69 194 P      43 09.90   0.2
LSCZ     1.70 193 P      43 10.00   0.1
CMCZ     1.75 195 P      43 10.60  -0.1
                  eS     43 34.40
TLC      1.83 199 P      43 12.00   0.1
LTZ      1.86  70 Pc     43 14.20   1.9
                  eS     43 38.00
MSZ      1.87 229 P      43 12.30   0.0
MQZ      2.02  98 P      43 15.20   0.7
                  S      43 39.80
DSZ      2.22  40 P      43 17.50   0.1
TUZ      2.50 184 P      43 20.50  -0.9
THZ      2.79  54 P      43 26.30   0.6
QRZ      3.28  38 P      43 32.10  -0.4
SIZ      3.64 199 P      43 36.10  -1.4
TCW      3.95  57 P      43 42.70   0.8
DIW      4.00  50 P      43 43.20   0.5
MRW      4.20  60 P      43 45.20  -0.3
CAW      4.50  60 P      43 48.60  -1.2
KIW      4.54  57 P      43 49.20  -1.2
MTW      4.75  63 P      43 51.10  -2.3
MNG      5.04  58 P      43 55.00  -2.4
NRZ      5.12  38 eP     43 59.90   1.4
BSZ      5.25  48 eP     44 00.90   0.4
CNZ      6.02  47 eP     44 11.80   0.5
NGZ      6.06  47 P      44 12.80   0.8
MOZ      6.19  39 P      44 12.70  -0.9
                  S      45 19.40
KUZ      8.05  36 P      44 38.90  -0.9
WRA     37.84 297 P      49 58.80   0.0
         0.7s      0.70nm          3.5mb
     S.D. = 1.0  on  33 of  33 obs.
-----------------------------------
*  OCT  01, 1993  10h 45m 47.59± 1.66s
   14.246 N ±22.3km   92.943 W ±10.8km
   DEPTH =  73.4 ± 14.0 km
   4.7mb (  1 obs.)
 NEAR COAST OF CHIAPAS, MEXICO      ( 69)
      MD 4.6 (GCG).

TPX      0.93  45 iP     46 04.00  -1.6
                  iS     46 24.00
GCG      2.36  81 iP     46 25.88   0.8
                  iS     46 54.12
IXG      2.41  91 iPd    46 25.63  -0.2
                  eS     46 57.73
SCX      2.49   7 iP     46 28.00   1.3
                  iS     47 03.00
YUP      3.05  90 iPd    46 34.73   0.1
                  iS     47 11.82
OXX      4.61 308 iP     46 58.00   1.5
PPM      7.26 312 iP     47 34.00   0.4
MRX      9.58 306 (P)    48 03.00  -2.0
UYO     19.88 356 iPd    50 14.20  -1.4
TUL     21.72 354 iP     50 34.50   0.2
YKA     50.58 347 eP     54 41.40   0.9
         0.7s      5.00nm          4.7mb
     S.D. = 1.4  on  11 of  11 obs.
-----------------------------------
?  OCT  01, 1993  10h 57m 01.99± 1.61s
   39.077 N ± 8.7km   27.750 E ±19.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)
      ML 2.8 (ISK).

IZM      0.78 209 ePg    57 17.20   0.0
                  eSg    57 28.90
EDC      1.27   4 ePn    57 26.00   0.4
EZN      1.33 305 iPn    57 26.70   0.2
MFT      1.75 348 ePn    57 32.00  -0.6
     S.D. = 0.7  on   4 of   4 obs.
-----------------------------------
?  OCT  01, 1993  11h 48m 17.50± 5.07s
   42.370 N ±36.0km  122.010 W ±17.4km
   DEPTH =   5.0km  (geophysicist)
 OREGON                             ( 32)
      ML 2.6 (GS).

LGMM     0.78 170 P      48 33.58   0.3
LASM     0.84 157 P      48 34.45   0.2
LMPM     0.89 187 P      48 35.34   0.2
LBFM     1.03 175 eP     48 37.66   0.1
                  eS     48 50.47
LGBM     1.03 188 P      48 37.95   0.3
LBKM     1.38 201 P      48 43.29  -0.2
KOMM     1.53 225 P      48 46.36   0.7
LGPM     1.58 203 eP     48 46.06  -0.3
                  eS     49 05.65
WDC      1.83 193 eP     48 49.34  -0.5
     S.D. = 0.4  on   9 of   9 obs.
```

```
-------------------------------------
&  OCT  01, 1993  12h 01m 17.02s
   62.865 N          150.569 W
   DEPTH =  95.5km
 CENTRAL ALASKA                    (  1)
      <AEIC>.

HUR     0.44  75 iP    01 31.80  -0.4
                eS    01 42.86
CUT     0.48 163 iP    01 32.23  -0.2
TRF     0.60  12 iP    01 33.32  -0.3
                eS    01 45.90
KTH     0.71 347 iP    01 34.20  -0.2
                eS    01 47.27
RND     0.95  54 iP    01 36.56  -0.4
                eS    01 50.82
SKT     0.99 207 iP    01 36.96  -0.4
                eS    01 52.08
MCK     1.14  40 eP    01 38.82  -0.2
PWA     1.26 165 P     01 40.50   0.1
GHO     1.34 144 eP    01 41.94   0.4
SUA     1.41 183 eP    01 43.00   0.6
                eS    02 02.10
PLRM    1.44 152 eP    01 42.80   0.1
PMR     1.44 152 ePc   01 42.28  -0.4
                eS    02 00.71
DHY     1.48  80 iP    01 42.77  -0.5
                eS    02 01.89
SML     1.49 134 iP    01 43.08  -0.2
NCG     1.65 208 eP    01 45.16  -0.2
                eS    02 06.65
PMS     1.69 163 P     01 46.20   0.2
CGLM    1.70 204 eP    01 45.36  -0.8
KNK     1.76 145 iP    01 46.66  -0.2
CRP     1.77 206 eP    01 47.12   0.1
CP2     1.79 207 eP    01 46.74  -0.6
CKN     1.81 205 iP    01 48.19   0.7
BGL     1.82 209 iP    01 47.97   0.3
SPU     1.83 203 eP    01 47.32  -0.4
SCM     1.83 123 iP    01 47.26  -0.5
CKT     1.84 206 eP    01 48.56   0.6
NEA     1.84  20 eP    01 47.11  -0.7
BKG     1.97 205 iP    01 49.33  -0.3
PTE     2.14 159 eP    01 51.09  -0.6
NKA     2.15 189 eP    01 55.94   4.0
CCB     2.17  33 eP    01 51.21  -1.0
MLY     2.18 358 eP    01 51.71  -0.6
TOA     2.18 109 P     01 52.20  -0.2
HDA     2.24  45 iP    01 52.19  -0.9
THY     2.26  74 eP    01 54.39   1.0
PAX     2.34  85 iP    01 54.49   0.0
SDG     2.34  96 eP    01 54.39  -0.1
MDM     2.34  25 eP    01 53.80  -0.8
SLKM    2.37 176 eP    01 55.26   0.3
FBA     2.38  30 eP    01 53.90  -1.2
                eS    02 22.16
MPA     2.45 166 eP    01 56.33   0.3
DJE     2.49  60 eP    01 56.39  -0.1
TTA     2.49 274 P     01 54.20  -2.4
DFR     2.49 205 eP    01 56.20  -0.5
IL1     2.52  39 iP    01 55.74  -1.1
                eS    02 24.58
ILB     2.52  39 iP    01 55.75  -1.1
                eS    02 23.78
TZL     2.53 107 eP    01 57.01   0.0
GLM     2.55  32 eP    01 56.64  -0.8
NCT     2.57 207 eP    01 57.06  -0.6
KLU     2.58 120 eP    01 56.73  -1.1
REF     2.59 204 eP    01 58.57   0.5
RDW     2.62 205 eP    01 58.80   0.4
VLZ     2.65 129 eP    01 57.28  -1.3
SEW     2.82 169 eP    02 00.61  -0.4
ILIM    3.02 203 eP    02 04.54   0.7
DOT     3.05  72 eP    02 03.44  -0.7
CVA     3.27 133 eP    02 07.13   0.0
CNPM    3.37 186 eP    02 08.30  -0.2
IM3     3.42 338 eP    02 08.27  -1.0
PRP     3.46  37 eP    02 08.93  -1.0
TMW     3.47  79 eP    02 09.81  -0.1
GLB     3.48 111 iP    02 08.50  -1.6
BC3     4.02  83 iP    02 15.76  -1.7
BM3     5.22  26 eP    02 32.30  -1.8
      63 obs. associated
-------------------------------------
?  OCT  01, 1993  13h 27m 23.60± 2.46s
   40.116 N ±23.7km   29.259 E ± 8.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.6 (ISK).

IZI     0.27  37 iPg   27 29.10  -0.3
                iSg   27 33.30
EYL     0.82  57 ePg   27 39.80   0.2
                eSg   27 51.80
EDC     1.09 283 ePn   27 44.00  -0.1
CTT     1.21 329 ePn   27 46.30   0.2
     S.D. = 0.5  on   4 of   4 obs.
-------------------------------------
?  OCT  01, 1993  13h 28m 22.62± 3.19s
   42.491 N ±28.1km   24.075 E ±13.8km
   DEPTH =  33.0km  (normal)
 BULGARIA                          (359)

SRS     1.42 195 eP    28 45.04  -1.3
                eS    29 07.60
KNT     1.59 214 eP    28 47.40  -1.5
                eS    29 11.36
SOH     1.75 198 iP    28 51.04  -0.2
                iS    29 16.84
GRG     1.98 220 eP    28 56.00   1.5
SKO     2.02 256 ePn   28 55.00  -0.1
OUR     2.16 182 eP    28 58.32   1.4
ALN     2.17 137 eP    28 56.84  -0.3
     S.D. = 1.4  on   7 of   7 obs.
-------------------------------------
*  OCT  01, 1993  13h 40m 28.94± 1.32s
   41.317 N ±13.8km   24.339 E ± 6.6km
   DEPTH =   5.0km  (geophysicist)
 GREECE-BULGARIA BORDER REGION     (363)
      ML 2.3 (THE), 1.9 (SKO).

SRS     0.60 251 ePg   40 40.33  -0.6
                eSg   40 49.36
SOH     0.89 237 ePg   40 46.68   0.1
                eSg   41 00.80
OUR     1.02 196 iPg   40 49.14   0.5
                iSg   41 04.62
KNT     1.10 262 ePg   40 49.69  -0.3
                eSg   41 06.04
ALN     1.36 107 ePb   40 54.28  -0.1
                eSb   41 13.84
PAIG    1.48 200 ePb   40 55.64  -0.5
GRG     1.51 257 ePb   40 57.64   1.0
                eSb   41 19.28
OHR     2.68 267 iPg   41 33.00  19.4X
                iSg   41 37.70
     S.D. = 0.7  on   7 of   8 obs.
-------------------------------------
   OCT  01, 1993  13h 43m 22.65± 1.01s
   43.178 N ± 6.7km  139.110 E ± 4.7km
   DEPTH =  56.8 ±  9.4 km
   4.7mb ( 29 obs.)  4.2Msz (  1 obs.)
 EASTERN SEA OF JAPAN              (223)

YSS     4.61  32 ePn   44 28.80  -2.5
                e     45 20.50
VLA     5.28 272 iPnc  44 42.50   1.6
                i     45 46.00
MAT     6.66 186 eP    45 03.00   2.8
        0.8s    13.43nm          4.6mb
                eS    46 04.00
MDJ     7.03 285 eP    45 07.00   1.8
CN2     9.95 278 eP    45 44.80  -0.7
     Z  14s     0.95um
BJI    17.43 267 eP    47 21.50  -1.7
        1.5s    28.00nm          4.2mb
     N  10s     0.30um
TIA    18.27 255 eP    47 34.10   0.6
CIT    19.25 306 eP    47 46.00   0.9
NJ2    19.46 242 Pc    47 46.80  -0.6
     Z  14s     0.59um
YAK    19.67 347 iP    47 47.60  -1.8
        0.8s    84.00nm          5.1mb
HHC    20.57 273 P     47 59.40   0.4
        1.4s    25.00nm          4.4mb
     Z  18s     0.85um           4.2Msz
     E  10s     0.37um
TIY    20.98 264 eP    48 06.80   3.6X
     Z  15s     0.59um           4.1MszX
     N  10s     0.37um
BTO    21.76 273 eP    48 10.70  -0.4
XAN    25.18 259 P     48 43.60  -0.7
        1.2s    13.00nm          4.3mb
ZAK    25.38 299 eP    48 45.00  -0.8
        1.2s     6.00nm          4.0mb
     Z  11s     0.98um           4.6MszX
     E  11s     0.58um
LZH    27.92 267 Pd    49 07.40  -2.0
        1.5s    32.00nm          4.7mb
     Z  15s     0.49um           4.2MszX
     E  10s     0.23um
GTA    29.58 276 eP    49 22.50  -1.8
        1.5s     6.00nm          4.1mb
     Z  16s     0.57um           4.3MszX
     N  10s     0.23um
FBA    44.98  35 eP    51 31.89  -1.6
        0.8s    10.08nm          4.7mb
                i     51 38.61
GUN    45.17 268 P     51 35.00  -0.9
KKN    45.68 269 P     51 40.00   0.2
SVE    49.47 315 ePc   52 09.00   0.3
     Z  12s     0.50um           4.7MszX
     N  12s     0.20um
     E  12s     0.50um
INK    49.80  29 eP    52 10.50  -0.6
        0.6s     2.00nm          4.3mb
ARU    50.67 315 eP    52 18.00   0.1
YKA    59.43  31 eP    53 20.20  -1.1
        0.7s     6.20nm          4.8mb
OBN    62.17 321 eP    53 40.00   0.1
        1.0s    18.00nm          5.2mb
WRA    62.96 185 P     53 43.50  -1.9
        0.7s     2.60nm          4.4mb
WR2    62.96 185 eP    53 43.00  -2.4
        0.8s     5.60nm          4.7mb
                i     53 47.90
GMW    64.43  48 eP    53 55.51   0.6
                e     54 01.61
JCW    64.50  47 P     53 55.49   0.0
BMW    64.83  49 P     53 58.00   0.4
RMW    65.01  48 eP    53 58.90   0.1
                e     54 04.46
FMW    65.40  48 P     54 01.68   0.2
SHW    65.54  49 eP    54 03.13   0.8
WTV    65.86  47 P     54 03.69  -0.5
ASR    65.92  49 P     54 04.69   0.0
EBG    66.02  48 P     54 05.43   0.2
RNO    66.08  52 P     54 06.45   0.8
SSOR   66.23  50 P     54 07.13   0.4
DPW    66.67  46 eP    54 08.76  -0.6
                e     54 14.85
ASPA   66.68 185 eP    54 08.30  -1.2
        1.1s     5.60nm          4.5mb
CROR   66.98  49 P     54 11.59   0.2
NEW    66.99  45 eP    54 11.33   0.0
        0.8s    14.41nm          5.0mb
MNK    67.01 323 eP    54 08.00  -3.3X
VIPM   67.48  50 P     54 14.79   0.1
HFS    67.78 334 eP    54 14.60  -1.5
        0.4s     1.20nm          4.2mb
NB2    67.86 336 P     54 13.20  -3.4X
        1.1s     6.20nm          4.5mb
LGPM   68.47  54 eP    54 20.71  -0.1
                e     54 26.81
LBFM   68.74  53 eP    54 22.55  -0.1
LRM    71.00  45 ePd   54 36.70   0.3
                e     54 42.30
COE    71.49  56 eP    54 39.20   0.1
OJC    72.99 324 eP    54 48.20   0.4
        1.0s    50.00nm          5.4mb
                i     54 54.20
BONR   73.05  54 eP    54 48.99   0.3
                e     54 54.91
KSP    73.98 326 ePd   54 54.20   0.7
                i     55 00.00
BW06   74.61  45 eP    54 57.49  -0.1
        0.9s    13.95nm          4.9mb
                e     55 03.10
DUG    74.67  49 ePd   54 58.31   0.5
        0.8s     5.74nm          4.6mb
                e     55 03.87
BRG    74.90 328 iP    55 04.80   6.0X
        1.0s    16.00nm          4.9mb
CLL    74.92 328 iPd   54 59.10   0.2
        0.9s    21.00nm          5.1mb
                i     55 04.70
TPNV   74.93  53 eP    54 59.72   0.3
        0.6s     9.76nm          4.9mb
                e     55 05.45
PRU    75.35 327 iPd   55 02.20   0.8
        1.2s    30.40nm          5.1mb
```

```
                 i      55 07.90
DAU     75.37  48 eP     55 02.14    0.1
GSC     75.72  55 eP     55 04.34    0.5
MOX     75.98 329 eP     55 06.40    1.5
        1.2s     9.00nm          4.6mb
GEC2    76.59 326 P      55 09.10    0.6
        0.6s     1.19nm          4.0mb
                 e      55 14.90
                 e      55 19.10
GRF     76.90 328 iPd    55 11.50    1.4
        1.2s    14.00nm          4.8mb
                 e      55 17.10
PV10    78.02  48 eP     55 17.51    0.7
PV08    78.09  48 eP     55 17.60    0.3
KBA     78.14 325 iPc    55 18.80    1.6
        1.1s    13.70nm          4.9mb
SKO     78.41 318 eP     55 20.00    1.5
GLA     78.46  55 eP     55 20.02    1.0
OHR     79.37 317 eP     55 24.70    0.8
ALQ     81.94  49 eP     55 38.85    1.1
LTX     87.70  51 (P)    56 05.15   -1.3
     S.D. = 1.1  on  68 of  72 obs.
-------------------------------------
   OCT  01, 1993  13h 52m 04.63± 0.74s
   26.348 S ± 6.2km   27.689 E ± 9.9km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA          (584)
      ML 2.8 (PRE). mbLg 3.1 (BUL).

PRY      0.61 198 eP     52 17.10    0.3
                 S      52 23.50
SLR      0.81  41 iPc    52 20.10   -0.8
                 S      53 30.20
KSR      0.86 304 iPd    52 21.50   -0.3
                 S      52 31.50
BFS      0.98 236 eP     52 24.30    0.5
                 S      52 36.20
SEK      1.97 182 iPd    52 40.10    1.0
                 S      53 05.00
BFT      2.22  73 eP     52 38.50   -4.3X
                 S      53 13.00
BLF      3.06 205 iPc    52 54.50   -0.1
                 S      53 35.80
FRS      3.98 211 e(P)   53 06.00   -1.6
BUL      6.23   8 iPn    53 40.80    1.1
                 iSn    54 48.60
                 iSg    55 18.30
SUR      8.49 223 eP     54 07.00   -4.4X
                 S      55 37.00
     S.D. = 1.1  on   8 of  10 obs.
-------------------------------------
%  OCT  01, 1993  14h 02m 39.05± 2.05s
   40.125 N ±18.3km   28.790 E ± 6.8km
   DEPTH =   5.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.7 (ISK).

EDC      0.74 288 ePg    02 54.00    0.1
ISK      0.96  12 iPg    02 58.30    0.5
                 eSg    03 10.30
HRT      0.97  44 ePg    02 57.80   -0.1
CTT      1.06 345 ePg    02 59.00   -0.4
EYL      1.13  67 ePn    03 00.80    0.0
     S.D. = 0.5  on   5 of   5 obs.
-------------------------------------
%  OCT  01, 1993  14h 44m 01.44± 0.76s
   38.750 S ± 4.9km  175.678 E ± 5.0km
   DEPTH = 169.2 ±  8.9 km
 NORTH ISLAND, NEW ZEALAND         (159)

NGZ      0.43 188 P      44 24.00   -0.9
CNZ      0.46 193 P      44 24.20   -0.8
PATZ     0.58  51 P      44 24.80   -0.9
UTU      0.70  35 P      44 25.60   -0.7
MOZ      0.73 289 P      44 26.20   -0.2
                 eS     44 42.10
TAZ      0.83  52 P      44 26.50   -0.6
WLZ      0.88 356 P      44 27.60    0.2
                 S      44 44.20
PAHZ     1.08  96 P      44 28.70   -0.3
WAHZ     1.08 151 Pc     44 29.20    0.1
BSZ      1.20 209 P      44 30.70    0.8
URZ      1.23  67 Pd     44 29.30   -0.9
                 eS     44 47.00
NRZ      1.48 246 eP     44 33.90    1.3
TEHZ     1.52 145 P      44 33.50    0.5
MAHZ     1.77 105 P      44 36.30    0.7
NOZ      1.85  87 P      44 36.90    0.4
MNG      1.87 185 Pc     44 37.30    0.6
                 S      44 59.50
PGZ      1.92 166 P      44 37.80    0.6
KUZ      2.00   1 P      44 39.20    1.1
PUZ      2.14  72 P      44 39.80    0.1
                 eS     45 04.80
KIW      2.19 195 P      44 40.70    0.4
HBZ      2.37  62 P      44 42.80    0.5
CAW      2.40 191 Pc     44 43.00    0.2
MTW      2.41 183 Pc     44 42.90    0.0
DIW      2.46 213 P      44 43.90    0.5
MRW      2.59 196 Pc     44 45.20    0.2
                 eS     45 14.60
BLW      2.62 183 P      44 45.40    0.0
WEL      2.63 195 P      44 45.60    0.1
                 S      45 15.70
TCW      2.69 203 P      44 46.40    0.2
QRZ      3.19 228 P      44 53.00    0.5
                 eS     45 29.90
THZ      3.68 214 P      44 59.00    0.2
                 eS     45 41.40
DSZ      4.21 224 eP     45 05.50   -0.1
LTZ      4.79 212 P      45 12.20   -0.9
MQZ      5.45 204 P      45 20.10   -1.7
ODZ      7.32 209 P      45 45.90   -0.8
     S.D. = 0.7  on  34 of  34 obs.
-------------------------------------
   OCT  01, 1993  15h 10m 42.26± 0.40s
   11.734 N ± 7.0km   87.165 W ± 5.9km
   DEPTH =  31.4km  (  8 depth phases)
   4.9mb ( 13 obs.)  5.1Msz (  1 obs.)
 NEAR COAST OF NICARAGUA           ( 74)
      MD 5.0 (UPA).

BRU      5.38 122 ePd    12 02.30   -0.7
                 eS     12 55.84
DVD      5.68 125 iP     12 06.31   -0.4
ECO      7.71 107 iP     12 34.25   -1.1
UPA      7.99 109 eP     12 38.06   -1.1
OXX     10.67 301 iP     13 18.00    1.6
PPM     13.23 305 iP     13 52.50    1.4
                 iS     14 08.00
III     13.59 301 iP     13 57.00    1.5
                 iS     14 13.00
UNM     13.82 305 (P)    14 02.00    3.4X
                 (S)    14 12.00
CRX     14.26 304 (P)    14 18.00   13.5X
                 iS     14 30.00
SDV     16.51  98 eP     14 34.00    0.6
TOV     17.18  95 eP     14 42.50    0.8
CAR     19.90  92 iP     15 28.00   13.7X
PRM     22.67  10 eP     15 44.21    2.0
                 esP    16 00.02
OXF     22.77 355 eP     15 43.66    0.5
                 esP    15 58.66
JSC     23.08  13 eP     15 48.14    2.0
                 esP    16 03.72
UYO     23.30 345 iPd    15 49.40    1.0
LTX     23.30 321 eP     15 48.54    0.0
                 esP    16 04.26
LHS     23.37  13 eP     15 50.45    1.4
                 esP    16 06.08
MYNC    23.40   6 eP     15 50.71    1.4
        1.2s   138.04nm          5.3mb
                 esP    16 06.20
MIAR    23.45 347 eP     15 50.19    0.4
        1.4s   122.76nm          5.2mb
                 esP    16 05.19
GBTN    23.98   6 eP     15 56.00    1.1
                 esP    16 11.71
CEH     25.13  16 eP     16 07.03    1.0
        0.6s    31.51nm          5.1mb
                 esP    16 22.16
MEO     25.19 337 iPd    16 07.60    1.0
WMOK    25.22 337 eP     16 06.38   -0.5
        1.3s   207.22nm          5.6mb
                 esP    16 22.54
ELC     25.51 356 eP     16 08.50   -1.0
                 esP    16 23.91
NNA     25.70 156 eP     16 10.30   -1.3
CVL     27.27  15 eP     16 26.23    0.5
                 epP    16 41.51   64kmX
ALQ     29.00 326 eP     16 41.49   -0.2
        0.8s     4.60nm          4.2mb
                 epP    16 50.72   32km
                 esP    16 57.66
TUC     29.85 317 (P)    16 57.08    7.9X
GPD     31.24  19 (P)    17 01.63    0.4
PAL     31.40  19 (P)    17 02.22   -0.4
TBR     31.42  19 (P)    17 02.84    0.0
                 esP    17 18.34
GOL     32.19 333 eP     17 09.48   -0.4
        0.6s     6.20nm          4.7mb
                 esP    17 25.11
LSCT    32.23  20 eP     17 09.79   -0.1
        0.8s    20.07nm          5.1mb
                 esP    17 23.10
PV08    32.88 328 eP     17 15.77   -0.3
                 esP    17 31.02
PV10    32.94 327 eP     17 15.02   -1.4
                 esP    17 30.65
LPAZ    33.61 146 Pd     17 33.10   10.2X
                 S      23 17.00
                 LR     28 55.00
LPB     33.83 146 P      17 27.00    2.5
      Z  17s     1.02um          4.6MszX
                 LR     28 00.00
CNCB    34.12 146 P      17 28.90    1.7
SRU     34.26 327 eP     17 26.94   -0.9
                 epP    17 36.57   33km
                 esP    17 42.76
RSNY    34.45  16 eP     17 26.27   -2.9
                 epP    17 34.66   29km
                 esP    17 43.49
PLM     34.65 313 eP     17 32.37    1.1
                 esP    17 48.27
MSU     34.76 324 eP     17 32.29    0.1
                 epP    17 41.96   33km
                 esP    17 47.88
EMUT    34.93 327 eP     17 33.32   -0.3
                 epP    17 42.41   31km
                 esP    17 48.95
LBNH    34.95  19 (P)    17 33.50    0.1
        0.7s     7.78nm          4.7mb
ARUT    35.01 322 eP     17 33.37   -0.9
                 esP    17 50.08
PEC     35.14 314 eP     17 35.24   -0.1
        0.8s    11.37nm          4.9mb
                 esP    17 51.72
GAC     35.29  14 eP     17 50.50   14.2X
RSSD    35.39 339 eP     17 36.89   -0.6
        0.7s    10.26nm          4.9mb
                 esP    17 52.66
DAU     35.60 328 eP     17 38.88   -0.5
                 epP    17 47.80   30km
                 esP    17 54.56
DUG     36.28 326 eP     17 44.39   -0.5
        1.0s     6.14nm          4.5mb
                 epP    17 54.38   34km
                 esP    18 00.20
BW06    36.54 332 eP     17 45.55   -1.6
        0.8s     8.71nm          4.7mb
HVU     37.38 328 eP     17 53.23   -0.9
                 esP    18 08.55
SIV     37.76 136 P      17 54.30   -3.1X
BONR    38.15 319 eP     18 01.45    0.6
                 epP    18 10.45   30km
                 esP    18 17.08
LMN     38.96  25 eP     18 06.50   -0.7
                 pP     18 22.50   64kmX
ULM     39.07 351 eP     18 25.00   17.0X
ARN     39.98 316 (P)    18 16.73    0.9
                 esP    18 32.61
LRM     40.21 332 eP     18 17.30   -0.5
                 e      18 29.40   44kmX
ORV     41.11 318 eP     18 26.20    1.2
                 esP    18 41.80
LBFM    42.35 320 eP     18 34.25   -1.2
LGPM    42.70 319 (P)    18 36.96   -1.3
JAQ     42.94  10 eP     18 53.00   13.2X
KMPM    43.28 318 (P)    18 40.81   -2.0
FHC     43.39 319 (P)    18 43.00   -0.7
DPW     44.41 330 eP     18 51.05   -0.8
                 esP    19 06.56
GMW     46.53 327 eP     19 07.32   -1.4
                 esP    19 22.10
BAO     47.36 124 eP     19 12.30   -3.5X
                 i      19 27.60   59kmX
                 i      19 48.00
PPD     48.61 134 (P)    19 38.00   12.7X
YKA     54.37 345 eP     20 05.90   -2.2
        0.8s     2.90nm          4.4mb
INK     63.97 343 eP     21 29.00   14.6X
```

01d 15h

```
        0.9s     3.00nm
GRF     86.51  40 ePc   23 36.50  13.1X
     Z  18s     0.70um          5.1Msz
STK    130.96 238 ePKP  30 11.90  19.0X
        0.9s     1.90nm
LZH    131.32 348 ePKP  30 08.50  14.8X
        1.5s    32.00nm
HYB    147.78  26 ePKP  30 36.00  12.5X
CHTO   149.05 349 ePKP  30 27.40   1.9
LOE    149.74 343 iPKPd 30 46.00  19.4X
GBA    150.56  32 PKP   30 28.00   0.2
BDT    150.57 348 ePKP  30 33.00   5.2X
        0.8s    57.10nm
NST    151.83 345 ePKP  30 44.00  14.3X
KOD    153.36  36 ePKP  30 39.00   6.7X
     S.D. = 1.2  on  61 of  81 obs.
-----------------------------------
%  OCT  01, 1993  16h 40m 53.27± 1.68s
   41.269 N ±14.4km   22.709 E ± 5.3km
   DEPTH =  10.0km  (geophysicist)
 NORTHWESTERN BALKAN REGION       (383)

KNT     0.18 127 iPg   40 57.26   0.0
                 eSg   41 00.78
GRG     0.39 217 ePg   41 00.66  -0.6
                 eSg   41 06.46
SOH     0.66 132 ePg   41 06.02  -0.5
                 eSg   41 17.06
THE     0.67 163 ePg   41 06.14  -0.3
                 eSg   41 16.14
SRS     0.68 103 ePg   41 06.46  -0.4
                 iSg   41 16.10
FNA     1.12 245 ePg   41 14.50   0.2
                 eSg   41 28.82
LIT     1.18 188 iPb   41 15.46   0.2
OUR     1.34 134 ePb   41 18.22   0.2
                 iSb   41 37.86
PAIG    1.53 151 ePb   41 21.82   1.2
     S.D. = 0.6  on   9 of   9 obs.
-----------------------------------
   OCT  01, 1993  17h 27m 25.11± 0.30s
   22.949 S ± 4.8km   65.953 W ± 6.4km
   DEPTH = 271.0km  (  6 depth phases)
   4.7mb ( 17 obs.)
 JUJUY PROVINCE, ARGENTINA        (128)

FSA     3.12 181 iPd   28 21.10   0.6
ANT     4.17 259 iPc   28 29.70  -2.6
                 iS    29 18.60
CCH     5.54 358 Pc    28 46.70  -2.3
CNCB    6.40 342 iPd   28 59.10  -0.7
                 S     30 11.00
LPB     6.69 342 P     29 02.70  -0.6
        0.9s   235.29nm         5.2mb
                 S     30 14.00
LPAZ    6.94 342 iPd   29 04.60  -2.0
                 S     30 22.40
RTPR    7.34 184 iPd   29 09.50  -1.4
RTRS    7.85 203 ePc   29 23.50   6.3X
ARE     8.30 320 eP    29 19.00  -4.2X
                 iS    30 46.00
SIV     8.31  34 P     29 21.60  -1.6
TCA     8.44 172 iPd   29 24.20  -0.6
CFA     8.86 193 ePc   29 27.70  -2.3
RTCB    8.87 196 ePd   29 28.50  -1.8
                 S     29 36.00
ZON     8.90 195 iPd   29 29.00  -1.6
                 eS    31 05.00
PEL    10.98 201 iPd   29 56.10  -0.5
SAN    11.26 201 eP    30 00.00  -0.1
PPD    13.57  89 iPd   30 29.40   0.8
                 e     30 31.80
                 e     30 35.00
NNA    15.05 315 iPd   30 46.00  -0.6
        0.7s    17.12nm         4.5mb
                 eS    33 30.00
RSTA   15.58 100 eP    30 52.60  -0.3
                 e     30 56.80
VAO    17.48  94 eP    31 13.40   0.1
                 e     31 13.90
                 e     31 16.90
                 e     31 34.30
CACB   17.83  90 iPc   31 17.00   0.0
                 e     31 19.00
                 e     31 21.50
                 eS    34 29.30
VAO2   17.86  95 iPc   31 17.30   0.0
                 i     31 19.50
                 e     31 34.70
                 e     34 31.00
BAO    18.44  70 eP    31 22.50  -0.7
SDV    31.97 351 ePd   33 26.20  -2.1
TOV    32.75 353 eP    33 33.00  -1.9
OLLA   32.77 358 iP    33 33.70  -1.5
JSC    58.74 345 eP    36 56.02  -0.9
                 epP   37 55.44 266km
LHS    58.83 346 eP    36 56.24  -1.3
UYO    62.94 334 iPd   37 24.10  -1.0
LTX    63.40 323 eP    37 27.17  -1.1
                 epP   38 29.83 276km
LIC    66.20  72 P     37 45.73  -0.6
        0.6s    20.50nm         5.1mb
TIC    66.40  71 P     37 47.07  -0.6
        0.9s    38.50nm         5.1mb
KIC    66.51  72 P     37 47.73  -0.6
        0.6s  4553.50nm         7.4mb X
SPA    67.19 180 iPd   37 54.00   1.9
        0.6s    60.98nm         5.5mb
RSNY   67.62 353 eP    37 54.38  -0.3
        0.8s    13.69nm         4.7mb
ALQ    69.22 325 eP    38 05.32   0.4
        0.6s     5.08nm         4.4mb
TUC    69.67 320 eP    38 08.46   0.9
                 epP   39 09.30 263km
PV08   73.12 326 eP    38 28.89   0.7
PV10   73.18 326 eP    38 27.95  -0.4
SRU    74.50 325 eP    38 36.63   0.8
PEC    74.62 318 eP    38 37.48   1.0
        0.7s    12.46nm         4.8mb
MSU    74.94 324 eP    38 39.79   1.4
RSSD   75.31 333 eP    38 40.62   0.2
        0.8s     6.04nm         4.4mb
GSC    75.35 319 eP    38 41.03   0.4
TPNV   76.13 321 eP    38 46.55   1.5
        0.5s     5.38nm         4.5mb
                 epP   39 52.72 284kmX
DUG    76.49 325 eP    38 48.37   1.4
        0.9s     5.87nm         4.3mb
                 epP   39 48.75 257kmX
ABL    76.53 317 eP    38 48.94   1.6
ISA    76.60 318 eP    38 48.94   1.4
        0.8s    12.34nm         4.7mb
BW06   76.75 329 eP    38 48.88   0.5
        1.2s     8.05nm         4.3mb
                 epP   39 53.54 276km
HVU    77.62 326 (P)   38 54.20   1.1
BONR   78.01 320 eP    38 57.25   1.7
MEMM   78.20 320 eP    38 58.16   2.0
                 epP   40 01.93 271km
ARN    79.57 318 (P)   39 05.72   2.1
LRM    80.41 329 eP    39 08.10   0.0
ORV    80.95 320 eP    39 12.34   1.6
MAW    82.15 162 P     39 19.30   2.8
        1.0s    20.83nm         4.9mb
LBFM   82.32 321 eP    39 18.96   0.9
LGPM   82.60 320 eP    39 20.25   0.9
                 epP   40 25.43 274km
BUL    86.34 110 iPd   39 41.00   2.5
LSZ    87.86 106 iPc   39 49.00   3.2X
        0.2s     1.00nm         4.3mb
                 i     40 53.00
CSY    91.00 179 eP    40 04.00   4.7X
        0.8s    23.20nm         5.2mb
YKA    93.48 340 eP    40 11.10   0.6
        0.5s     3.00nm         4.6mb
WR2   132.98 207 ePKP  45 57.60 -12.8X
        0.8s     2.60nm
                 i     46 11.70
WRA   132.99 206 PKP   46 07.90  -2.5X
        0.6s     2.80nm
GBA    144.10  99 PKP  46 30.60  -0.1
HYB    146.29  93 ePKPd 46 39.10   4.7X
        0.8s    61.50nm
                 e     47 44.00
NDI    146.45  72 iPKPd 46 37.50   3.1X
WMQ    149.93  40 PKP  46 46.70   7.3X
DMN    153.45  74 PKP  46 59.40  14.1X
KKN    153.59  73 PKP  46 57.60  12.2X
GUN    154.12  73 PKP  46 58.80  12.5X
HHC    162.03   6 PKP  46 58.00   3.2X
     S.D. = 1.3  on  59 of  72 obs.
-----------------------------------
&  OCT  01, 1993  18h 16m 18.49s
   58.089 N          151.809 W
   DEPTH =  63.0km
 KODIAK ISLAND REGION             ( 13)
      <AEIC>. ML 3.0 (AEIC).

KDC     0.50 227 ePd   16 29.92  -0.9
                 eS    16 37.51
CDD     1.28 312 iP    16 39.57  -1.1
                 eS    16 57.18
XLV     1.37   2 eP    16 41.40  -0.5
                 eS    16 58.41
CNPM    1.47  11 iP    16 42.18  -1.1
AUI     1.51 327 eP    16 42.97  -0.8
                 eS    17 02.24
AUE     1.51 328 eP    16 43.14  -0.7
                 eS    17 02.46
AUP     1.53 327 eP    16 43.04  -1.1
AGU     1.53 327 eP    16 43.63  -0.6
AUH     1.54 327 eP    16 43.48  -0.8
AUL     1.55 328 eP    16 43.78  -0.6
AUW     1.55 327 eP    16 43.82  -0.5
HOM     1.58   3 eP    16 42.82  -1.9
OPT     1.73 335 eP    16 45.97  -1.0
BRLK    1.75  16 eP    16 45.85  -1.3
INE     2.08 342 eP    16 50.70  -1.2
ILIM    2.08 344 iP    16 50.55  -1.3
INW     2.10 342 eP    16 51.43  -0.7
PDB     2.10 325 eP    16 50.92  -1.1
SEW     2.36  30 eP    16 53.52  -2.1
RED     2.39 348 eP    16 54.74  -1.4
RSO     2.43 349 eP    16 55.45  -1.3
RS2     2.43 349 eP    16 55.49  -1.3
REF     2.45 350 eP    16 55.47  -1.6
RDW     2.46 348 eP    16 55.69  -1.5
NCT     2.55 347 eP    16 56.77  -1.6
DFR     2.55 350 eP    16 57.50  -0.9
SLKM    2.56  18 eP    16 56.53  -1.9
MPA     2.72  27 eP    16 58.88  -1.7
BKG     3.00 356 eP    17 02.56  -2.2
PTE     3.13  26 eP    17 04.76  -1.6
CKL     3.13 355 eP    17 05.31  -1.3
CKN     3.15 357 eP    17 05.88  -0.9
CP2     3.19 356 eP    17 06.68  -0.9
CRP     3.19 357 eP    17 05.09  -2.4
BGL     3.20 355 eP    17 06.21  -1.3
CGLM    3.23 358 eP    17 06.52  -1.5
PWL     3.30  31 eP    17 06.53  -2.3
NCG     3.33 357 eP    17 08.03  -1.4
PMS     3.37  19 P     17 10.80   1.0
SUA     3.43   9 eP    17 08.76  -2.0
HIN     3.58  47 eP    17 10.92  -1.8
SVW     3.60 329 eP    17 10.69  -2.3
CFI     3.72  32 eP    17 12.02  -2.7
KNK     3.74  26 eP    17 12.55  -2.5
PMR     3.77  20 eP    17 13.90  -1.4
SKT     3.91   2 eP    17 15.14  -2.2
CVA     3.96  49 eP    17 16.12  -2.0
VLZ     4.13  40 eP    17 18.44  -2.0
SGAM    4.16  52 eP    17 19.29  -1.7
KLU     4.53  39 eP    17 23.61  -2.6
        50 obs. associated
-----------------------------------
?  OCT  01, 1993  18h 36m 07.91± 7.51s
   36.344 N ±71.4km   29.227 E ±11.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 3.2 (ISK).

ELL     0.68  53 iPg   36 20.50  -1.0
                 eSg   36 31.00
CIN     1.55 324 eP    36 36.00   0.4
BCK     1.56  44 ePn   36 37.00   1.2
KHL     1.99   7 ePn   36 42.00   0.0
IZM     2.58 323 ePn   36 49.80  -0.6
     S.D. = 1.2  on   5 of   5 obs.
-----------------------------------
*  OCT  01, 1993  18h 44m 00.23± 0.94s
   31.840 S ± 9.5km   70.656 W ±12.5km
   DEPTH = 100.0km  (geophysicist)
 CHILE-ARGENTINA BORDER REGION    (127)
      MD 3.6 (SAN).

JACH    0.84 176 iP    44 19.62   0.3
                 iS    44 35.01
ROCH    1.17 195 iP    44 22.88  -0.2
                 iS    44 40.21
PEL     1.30 181 iP    44 25.03   0.6
                 iS    44 43.12
```

```
FCH     1.52 168 iP    44 28.22   0.8
                iS    44 49.50
RTCB    1.62  78 ePd   44 28.00  -0.5
                S     44 49.20
PCH     1.78 176 iP    44 30.77   0.2
                iS    44 55.02
LCCH    1.80 205 iP    44 30.30  -0.4
                iS    44 53.24
RTCV    1.80  91 e(P)d 44 30.40  -0.4
                S     44 54.30
TACH    1.82 187 iP    44 30.79  -0.2
                iS    44 54.86
RTRS    1.96  32 ePc   44 33.20   0.5
LNV     2.20 197 iP    44 35.35  -0.6
                iS    45 02.36
     S.D. = 0.6  on  11 of  11 obs.
---------------------------------------
?  OCT  01, 1993  19h 28m 35.38± 2.62s
   43.362 N ±11.4km    0.010 W ±30.5km
   DEPTH =  10.0km  (geophysicist)
 PYRENEES                          (378)
     ML 2.6 (LDG).

EPF     0.42 142 Pg    28 43.90   0.0
                Sg    28 56.30
LPO     1.58  33 Pg    29 02.00  -1.4
                Sg    29 26.50
LFF     1.67  19 Pg    29 00.80  -3.9X
                Sg    29 25.30
CAF     2.16  43 Pg    29 13.10   1.1
                Sn    29 35.30
                Sg    29 44.30
RJF     2.23  29 Pg    29 13.00   0.1
                Sg    29 42.40
MFF     3.24 358 Pg    29 27.50   0.2
TCF     3.32  28 Pg    29 33.20   4.7X
                Sg    30 17.00
MAF     3.40  32 Pg    29 34.80   5.3X
                Sg    30 20.60
     S.D. = 1.3  on   5 of   8 obs.
---------------------------------------
%  OCT  01, 1993  21h 17m 23.58± 4.01s
   43.907 N ±21.5km    8.514 E ±19.6km
   DEPTH =  10.0km  (geophysicist)
 CORSICA                           (380)
     ML 2.3 (GEN).

FIN     0.37 324 P     17 31.46   0.2
                S     17 36.95
IMI     0.45 271 P     17 32.83   0.0
                S     17 39.28
ROB     0.60 310 P     17 35.39  -0.4
                S     17 43.77
PCP     0.64   2 P     17 36.40   0.0
                S     17 44.91
ENR     0.85 292 P     17 40.15   0.1
                S     17 51.41
PZZ     1.18 301 P     17 45.73   0.0
                S     18 01.02
BHB     1.30 317 P     17 47.61   0.0
     S.D. = 0.2  on   7 of   7 obs.
---------------------------------------
   OCT  01, 1993  21h 57m 18.85± 0.56s
   37.980 S ± 6.5km  175.931 E ± 9.2km
   DEPTH = 225.1 ±  6.5 km
   4.7mb (  8 obs.)
 NORTH ISLAND, NEW ZEALAND         (159)

UTU     0.29 134 P     57 49.00   0.6
WLZ     0.29 292 Pc    57 49.10   0.7
                S     58 12.40
PATZ    0.48 147 P     57 49.50   0.5
TAZ     0.52 119 P     57 49.50   0.5
URZ     0.97 107 Pc    57 50.10  -1.2
                S     58 13.00
MOZ     1.03 239 P     57 53.60   1.9
WIZ     1.09  66 eP    57 49.90  -2.2
NGZ     1.22 192 P     57 54.80   1.6
KUZ     1.24 352 Pd    57 51.70  -1.4
                eS    58 16.90
PAHZ    1.24 135 P     57 53.40   0.2
CNZ     1.25 194 P     57 55.10   1.8
TAHZ    1.32 151 eP    57 55.50   1.7
WAHZ    1.75 169 P     57 58.50   1.2
NOZ     1.78 112 Pc    57 57.00  -0.5
PUZ     1.84  94 Pc    57 56.00  -2.1
                eS    58 23.30
HBZ     1.92  79 Pd    57 56.50  -2.3
MAHZ    1.95 129 eP    57 59.20   0.1
BSZ     1.98 203 P     58 01.30   2.0
NRZ     2.07 228 eP    58 04.20   3.9X
TEHZ    2.12 161 P     58 01.80   1.0
PGZ     2.65 174 Pd    58 07.20   0.9
MNG     2.66 187 Pc    58 07.30   0.9
                eS    58 42.90
KIW     2.99 195 Pc    58 10.60   0.5
CAW     3.20 192 P     58 13.00   0.5
DIW     3.22 208 P     58 13.40   0.6
OUZ     3.33 325 P     58 13.40  -0.7
MRW     3.38 196 P     58 15.00   0.3
                S     58 58.30
WEL     3.42 195 P     58 15.60   0.5
SNZO    3.46 195 P     58 16.50   1.0
                S     59 00.00
TCW     3.47 201 P     58 16.30   0.6
QRZ     3.88 222 P     58 20.90   0.3
                eS    59 10.10
CCW     3.99 199 P     58 23.20   1.3
THZ     4.44 211 P     58 27.60   0.1
                eS    59 23.20
DSZ     4.92 219 P     58 32.80  -0.7
LTZ     5.55 209 P     58 40.80  -0.6
MQZ     6.24 202 P     58 48.90  -1.2
                eS    59 58.80
WVZ     6.45 216 eP    58 51.50  -1.3
LMZ     7.64 219 eP    59 06.00  -2.1
BWZ     7.97 213 eP    59 10.80  -1.6
ODZ     8.09 208 P     59 13.00  -1.1
MHZ     8.65 213 eP    59 18.90  -2.6
LSCZ    8.66 213 eP    59 19.20  -2.3
SBCZ    8.66 213 eP    59 19.30  -2.3
MMCZ    8.67 214 P     59 19.70  -2.1
CMCZ    8.73 213 P     59 20.70  -1.7
TUZ     9.24 208 eP    59 28.50  -0.3
ARMA   21.43 283 eP    01 54.70   4.8X
        0.5s    12.00nm          4.7mb
CAN    21.75 269 iPd   01 57.30   4.4X
BRS    22.11 292 eP    01 52.00  -4.4X
BWA    22.45 271 eP    02 01.10   1.4
STK    28.69 272 iPc   02 58.80   1.8
        0.8s     6.80nm          4.4mb
ASPA   38.48 279 iPc   04 21.20   0.4
        0.7s    38.40nm          5.1mb
FORT   39.80 266 iPd   04 32.70   1.2
        0.5s    12.00nm          4.6mb
WR2    40.18 285 eP    04 34.50  -0.2
        0.5s    28.70nm          5.0mb
WRA    40.20 285 P     04 35.20   0.3
        0.8s     8.70nm          4.3mb
CSY    46.09 211 eP    05 23.10   1.5
        0.7s     3.30nm          3.8mb
SPA    52.21 180 iPd   06 10.90   2.4
        0.6s    32.52nm          5.0mb
     S.D. = 1.4  on  53 of  57 obs.
---------------------------------------
&  OCT  01, 1993  21h 59m 02.65s
   61.866 N          149.206 W
   DEPTH =  37.1km
 SOUTHERN ALASKA                   (  2)
     <AEIC>. ML 2.5 (AEIC).

GHO     0.16 125 iP    59 09.28  -0.2
                eS    59 15.38
PLRM    0.28 173 iP    59 09.68  -0.7
                eS    59 16.23
PMR     0.28 173 iPc   59 09.37  -1.0
PWA     0.39 236 P     59 11.50  -0.2
                S     59 18.80
SML     0.42  98 iP    59 11.42  -0.8
KNK     0.58 141 iP    59 13.65  -0.8
                eS    59 22.89
PMS     0.65 195 P     59 14.60  -0.8
CUT     0.74 318 iP    59 15.66  -0.9
SUA     0.84 242 eP    59 17.46  -0.7
SCM     0.89  91 iP    59 17.83  -1.1
                eS    59 30.50
CFI     0.97 134 eP    59 19.11  -0.8
PTE     1.01 175 eP    59 19.61  -0.8
                eS    59 33.74
PWL     1.09 157 eP    59 20.96  -0.8
SKT     1.11 277 eP    59 20.98  -0.9
                eS    59 35.92
HUR     1.13 350 eP    59 21.67  -0.6
                eS    59 36.72
MPA     1.38 183 eP    59 24.83  -1.0
SLKM    1.45 200 eP    59 25.94  -0.8
CGLM    1.45 249 eP    59 26.94   0.1
TOA     1.45  79 P     59 26.70  -0.2
DHY     1.48  34 eP    59 26.21  -1.2
                eS    59 45.64
NKA     1.49 222 eP    59 28.99   1.6
SPU     1.53 245 eP    59 27.91   0.0
                eS    59 47.90
CRP     1.53 248 eP    59 27.64  -0.5
RND     1.55   6 eP    59 27.67  -0.7
VLZ     1.56 117 eP    59 27.27  -1.1
                eS    59 48.02
CP2     1.57 249 eP    59 28.62  -0.2
KLU     1.61 102 eP    59 28.19  -1.0
BGL     1.64 250 eP    59 29.78   0.1
CKL     1.64 247 eP    59 29.32  -0.4
TRF     1.67 343 eP    59 29.52  -0.6
BKG     1.67 243 eP    59 29.72  -0.4
SEW     1.77 184 eP    59 31.05  -0.4
TZL     1.80  83 P     59 32.00   0.2
SDG     1.84  67 eP    59 32.55   0.1
KTH     1.87 336 eP    59 32.34  -0.5
MCK     1.88   4 eP    59 33.07   0.1
HIN     1.97 137 eP    59 33.57  -0.7
RDT     2.02 231 eP    59 33.84  -1.2
PAX     2.06  56 eP    59 35.98   0.3
DFR     2.11 234 P     59 36.00  -0.4
CVA     2.13 127 P     59 37.50   1.0
REF     2.19 232 eP    59 37.08  -0.4
RS2     2.22 232 eP    59 37.90  -0.2
NCT     2.23 236 eP    59 37.76  -0.2
RDW     2.23 233 eP    59 38.03  -0.1
RED     2.26 232 eP    59 38.44   0.0
SGAM    2.37 123 eP    59 40.97   1.0
CNPM    2.55 204 eP    59 42.92   0.4
GLB     2.61  97 eP    59 43.51   0.1
RAGM    2.65 122 P     59 44.90   0.9
HDA     2.75  21 P     59 43.50  -1.8
HMT     2.85 120 P     59 44.90  -1.9
CCB     2.86  12 P     59 45.50  -1.4
IL1     3.10  19 eP    59 49.57  -0.7
FBA     3.11  11 eP    59 47.94  -2.5
MDM     3.14   8 eP    59 49.70  -1.2
        56 obs. associated
---------------------------------------
*  OCT  01, 1993  22h 27m 05.53± 1.19s
   33.693 S ± 9.9km  179.198 W ±21.6km
   DEPTH =  33.0km  (normal)
   4.2mb (  3 obs.)
 SOUTH OF KERMADEC ISLANDS         (179)

HBZ     4.40 207 eP    28 11.30  -0.4
PUZ     4.83 205 eP    28 18.10   0.2
                eS    29 16.00
URZ     5.45 212 eP    28 26.70   0.2
                eS    29 31.00
ASPA   42.04 271 eP    34 55.60  -0.1
        0.9s     6.80nm          4.4mb
WR2    43.30 276 eP    35 05.70  -0.3
        1.0s     5.40nm          4.3mb
WRA    43.32 276 P     35 06.70   0.5
        0.8s     2.60nm          4.0mb
KAF   147.26 338 iPKP  46 42.90  -0.9
        0.4s     1.40nm
NUR   149.00 337 iPKP  46 47.60   0.9
        0.6s     2.90nm
     S.D. = 0.7  on   8 of   8 obs.
---------------------------------------
*  OCT  01, 1993  22h 40m 09.77± 0.74s
   47.788 N ±10.7km  130.709 E ±10.9km
   DEPTH =  33.0km  (normal)
   4.6mb ( 11 obs.)
 E. RUSSIA-N.E. CHINA BORDER REG.(657)
     ML 4.8 (BJI).

MDJ     3.27 194 Pn    40 58.50  -1.3
                Pg    41 06.40
                Sg    41 48.50
CN2     5.42 225 Pnc   41 27.80  -2.6
                Pgc   41 45.20
                eSn   42 28.80
                eSg   42 55.60
SNY     7.82 223 ePn   42 01.60  -2.4
                Sg    44 11.00
MAT    12.53 151 eP    43 12.00   3.5X
        1.0s     8.00nm          4.8mb
```

01d 22h

```
BJI     13.02 239 eP    43 18.00   3.1X
        1.4s    24.00nm          5.1mb
      N 10s     0.81um
HHC     15.34 250 P     43 45.40   0.0
      E 10s     0.74um
BTO     16.46 252 eP    44 01.00   1.2
                  eS    46 54.00
TIY     16.74 240 eP    44 05.00   1.7
      Z 10s     1.27um
NJ2     18.12 214 Pc    44 21.00   0.6
XAN     21.35 238 P     44 56.30   0.1
        1.0s      7.00nm         4.0mb
      Z 12s     0.63um          4.2MszX
                  pP    45 02.00  21kmX
                  eS    48 50.00
LZH     23.03 249 eP    45 13.00   0.0
        1.5s    37.00nm          4.7mb
                  sP    45 23.00
GTA     23.76 261 eP    45 21.50   1.5
        1.5s    13.00nm          4.2mb
      Z 12s     0.60um          4.3MszX
                  pP    45 29.00  27kmX
                  sP    45 32.20
WMQ     29.96 279 eP    46 17.50   0.4
GUN     39.91 257 P     47 42.40  -0.3
KKN     40.38 257 P     47 46.40   0.0
        0.6s    18.00nm          5.0mb
DMN     40.62 257 P     47 48.80   0.4
INK     48.68  30 ePd   48 51.50  -0.6
        0.5s     3.00nm          4.6mb
NB2     61.09 331 P     50 20.30  -2.2
        0.7s     2.60nm          4.5mb
WRA     67.50 176 P     51 05.30   0.8
        0.7s     2.00nm          4.3mb
WR2     67.50 176 eP    51 05.00   0.5
        0.7s     3.10nm          4.5mb
ASPA    71.18 177 eP    51 27.60   0.5
        2.2s    11.70nm          4.5mb
LRM     71.64  41 eP    51 29.20  -0.9
STK     79.91 171 eP    52 18.80   2.4
        4.9s     2.80nm          3.5mb X
     S.D. = 1.4  on  21 of  23 obs.
-----------------------------------
&  OCT  01, 1993  23h 46m 35.83s
   61.729 N          150.859 W
   DEPTH =  50.9km
 SOUTHERN ALASKA                  (  2)
     <AEIC>. ML 2.5 (AEIC).

SUA     0.27 168 iP     46 45.27   0.2
SKT     0.41 309 iP     46 45.57  -0.6
                  eS    46 53.83
PWA     0.47  99 P      46 46.70  -0.2
                  S     46 56.30
CGLM    0.69 233 eP     46 49.17  -0.6
NCG     0.70 243 iP     46 49.15  -0.7
                  eS    47 00.22
CUT     0.73  22 iP     46 49.41  -0.7
                  eS    47 00.34
CRP     0.78 234 ePd    46 49.80  -1.1
                  eS    47 01.15
PMS     0.79 127 P      46 50.20  -0.8
SPU     0.79 227 iP     46 50.27  -0.8
                  eS    47 01.92
CP2     0.81 235 eP     46 50.49  -0.9
                  eS    47 01.67
CKN     0.81 232 eP     46 51.21  -0.1
CKT     0.84 231 eP     46 50.76  -0.9
                  eS    47 02.71
PLRM    0.84  99 eP     46 50.59  -0.9
                  eS    47 03.49
PMR     0.84  99 eP     46 50.24  -1.3
BGL     0.87 238 eP     46 51.75  -0.4
CKL     0.89 234 iP     46 51.53  -0.8
                  eS    47 04.12
GHO     0.92  86 iP     46 52.08  -0.7
BKG     0.95 226 iP     46 52.27  -0.8
NKA     1.01 191 eP     46 55.33   1.5
KNK     1.19 104 iP     46 55.73  -0.7
SML     1.20  85 iP     46 55.56  -1.1
PTE     1.24 134 iP     46 56.02  -1.0
SLKM    1.26 166 eP     46 56.30  -1.2
HUR     1.38  24 eP     46 58.46  -0.6
                  eS    47 16.63
RDT     1.38 214 eP     46 58.25  -0.9
                  eS    47 17.29
MPA     1.44 149 eP     46 58.93  -1.0
DFR     1.44 219 eP     46 59.15  -0.9
                  eS    47 18.52
PWL     1.50 124 eP     46 59.14  -1.6
REF     1.53 217 eP     47 00.71  -0.7
                  eS    47 20.40
NCT     1.54 222 eP     47 00.37  -1.1
                  eS    47 20.83
RDW     1.57 218 eP     47 01.22  -0.7
RS2     1.57 217 eP     47 01.75  -0.2
CFI     1.58 109 eP     47 00.28  -1.6
RED     1.61 216 eP     47 00.15  -2.2
SCM     1.68  85 iP     47 02.14  -1.2
TRF     1.75   8 iP     47 03.19  -1.2
SEW     1.77 156 eP     47 05.26   0.7
KTH     1.83 359 iP     47 04.63  -0.9
ILIM    1.95 213 eP     47 06.89  -0.2
CNPM    2.22 185 eP     47 10.76  -0.1
TOA     2.25  78 P      47 10.50  -0.9
VLZ     2.26 103 eP     47 08.80  -2.6
KLU     2.37  94 iP     47 10.74  -2.4
IL1     3.54  29 eP     47 28.24  -1.4
ILB     3.54  29 eP     47 28.51  -1.2
BC3     4.43  68 eP     47 40.45  -1.7
IM3     4.46 345 eP     47 39.66  -2.9
      47 obs. associated
-----------------------------------
   OCT  02, 1993  00h 06m 01.49± 0.20s
   24.038 S ± 3.6km   64.462 W ± 4.2km
   DEPTH =  21.4km  (  6 depth phases)
   5.2mb ( 35 obs.)  5.7Msz (  2 obs.)
 SALTA PROVINCE, ARGENTINA        (129)
      Mw 5.4 (HRV). Felt (IV) in Salta
      and Tucuman Provinces. Also felt
      in Santiago del Estero Province.
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 25S, 36C
      Centroid Location:
      Origin Time        00:06:10.4 0.4
      Lat 24.06S 0.05 Lon  64.57W 0.05
      Dep  22.0 FIX Half-duration  1.4
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 0.28 0.04  Mtt= 0.87 0.05
        Mff=-1.15 0.05  Mrt=-0.10 0.10
        Mrf= 0.78 0.09  Mtf=-0.31 0.05
       Principal Axes:
        T  Val=  1.01  Plg=24  Azm=197
        N        0.51      56      328
        P       -1.51      23       96
      Best Double Couple:Mo=1.3*10**17
       NP1:Strike=237 Dip=56 Slip= 179
       NP2:        327     89       34

HJA     1.19 313 iPd    06 23.70   0.8
FSA     2.48 214 iPc    06 42.00   0.7
ANT     5.46 272 eP     07 23.50  -0.2
RTPR    6.50 196 ePc    07 36.00  -2.3
CCH     6.80 346 P      07 43.50   0.6
TCA     7.27 181 iPc    07 47.30  -2.0
RTRS    7.56 215 ePd    07 53.00  -0.1
CNCB    7.91 335 P      07 58.10  -0.5
RTLL    8.08 205 eP     08 00.20  -0.4
LPB     8.21 335 P      07 59.00  -3.7X
      Z 15s    19.33um
                  i     08 05.00
                  (S)   08 47.00
                  LR    09 51.00
CFA     8.25 203 ePc    08 01.30  -1.5
RTCB    8.35 206 iPc    08 03.50  -0.9
ZON     8.36 206 eP     08 03.00  -1.4
LPAZ    8.44 335 P      08 05.70  -0.5
RTCV    8.58 204 e(P)   07 58.00  -9.5X
SIV     8.61  22 P      08 07.20  -0.8
MDZ     9.62 203 eP     08 22.20   0.4
                  i     08 43.80
                  iS    09 14.50
ARE    10.01 318 eP     08 24.00  -3.5X
PEL    10.59 210 iPd    08 31.70  -3.4X
        0.9s   277.31nm         6.6mb X
SAN    10.84 209 eP     08 35.00  -3.5X
IHA    10.95 214 e(P)   08 40.00   0.0
LPA    12.23 154 iPc+   09 41.50  44.2X
        1.0s   640.00nm
                  iS    12 20.80
                  ScS   21 44.00
PPD    12.27  83 eP     08 57.00  -1.0
RSTA   14.08  96 eP     09 21.40  -0.5
VAO    16.08  90 eP     09 47.20  -0.8
VAO2   16.44  91 eP     09 52.00  -0.7
CACB   16.51  85 eP     09 50.10  -3.5X
                  e     09 54.10
                  e     10 04.90
                  e     10 21.90
                  e     11 26.90
                  eS    14 59.30
NNA    16.78 313 eP     09 53.20  -3.8X
        1.2s    70.31nm          4.7mb
                  i     09 58.70
BAO    17.59  65 Pc     10 08.00   0.8
                  e     13 45.30
                  e     14 10.00
                  i     19 42.70
                  i     20 37.70
SOB1   26.90  61 eP     11 43.70   0.6
SDV    33.27 349 eP     12 44.70   4.8X
TOV    34.02 351 eP     12 43.80  -2.4
LHS    60.23 344 eP     16 09.20  -1.2
PRM    60.25 343 eP     16 09.20  -1.4
                  e     16 16.05  22km
MYNC   61.67 342 ePc    16 18.82  -1.4
        0.8s    12.30nm          5.1mb
                  e     16 24.32  18km
OXF    62.86 337 eP     16 25.87  -2.2
                  e     16 31.60  19km
MIAR   64.49 334 eP     16 36.32  -2.5
        1.3s    19.76nm          5.1mb
LIC    65.25  70 P      16 44.16   0.0
        0.6s     8.50nm          5.1mb
      Z 21s     4.50um          5.6Msz
GPD    65.38 352 eP     16 43.67  -0.8
TIC    65.47  70 P      16 45.80   0.2
        0.8s     8.50nm          4.9mb
KIC    65.57  71 P      16 46.34   0.2
        0.8s    19.50nm          5.3mb
FVM    66.34 338 eP     16 47.59  -3.1X
        0.7s    10.73nm          5.1mb
MEO    66.86 330 iPd    16 53.20  -0.9
WMOK   66.91 330 eP     16 51.70  -2.7
        0.9s     7.56nm          4.8mb
RSNY   68.87 352 eP     17 05.26  -1.2
        1.3s    49.50nm          5.5mb
LMN    69.55 360 eP     17 10.00  -0.6
ALQ    70.90 324 eP     17 18.34  -0.9
        0.9s    12.07nm          5.0mb
TUC    71.38 320 eP     17 21.15  -1.0
        1.1s     9.75nm          4.8mb
CER    72.25 119 eP     17 23.00  -4.4X
        1.0s   108.00nm          5.8mb
SUR    73.76 119 eP     17 43.00   6.5X
        1.0s    80.00nm          5.7mb
WIN    73.83 108 eP     17 37.00   0.1
PV08   74.79 326 eP     17 41.41  -0.9
PV10   74.84 325 eP     17 41.94  -0.6
SRU    76.17 325 eP     17 49.32  -0.6
MSU    76.62 323 eP     17 52.80   0.2
EMUT   76.84 325 (P)    17 54.65   0.9
RSSD   76.91 332 eP     17 53.83  -0.2
        0.8s    11.42nm          5.0mb
GSC    77.06 318 eP     17 55.59   0.7
TIO    77.38  48 iP     17 55.50  -1.3
                  i     18 06.00  34kmX
RUV    77.63 259 iPd    18 00.20   1.9
        1.2s   144.60nm          5.9mb
VAH    77.83 259 iPd    18 01.30   1.9
        1.1s   164.10nm          6.0mb
TPNV   77.84 320 eP     18 00.16   0.9
        0.9s    14.28nm          5.0mb
TPT    77.92 259 iPd    18 01.90   2.0
        1.3s   239.70nm          6.1mb
GRM    78.02 121 e(P)   17 53.50  -6.8X
        0.8s    46.00nm          5.6mb
PMO    78.16 259 iPd    18 03.10   1.9
        1.2s   192.20nm          6.0mb
DUG    78.17 324 eP     18 01.53   0.6
        1.1s    19.15nm          5.1mb
ABL    78.26 317 eP     18 02.35   0.7
                  e     18 17.71  54kmX
FRS    78.29 117 eP     18 05.00   3.2X
        1.1s    31.65nm          5.3mb
ISA    78.32 318 eP     18 01.75  -0.1
        0.9s    11.54nm          4.9mb
BW06   78.40 328 eP     18 02.04  -0.2
        0.8s     6.63nm          4.7mb
AFR    78.90 256 iPc    18 15.60  10.3X
```

```
        0.7s    65.30nm
BLF     79.22 117 iPc    18 08.90   1.8
        0.7s    33.00nm          5.5mb
HVU     79.28 325 eP     18 07.56   0.5
BONR    79.72 320 eP     18 10.20   0.5
PTI     79.86 326 eP     18 11.10   0.9
MEMM    79.92 319 eP     18 10.87   0.6
MMPM    79.93 319 eP     18 10.35  -0.5
HHAI    80.18 327 eP     18 13.02   1.2
SEK     80.69 117 iPc    18 15.70   0.7
        0.6s    19.00nm          5.3mb
MAW     80.70 162 eP     18 15.00   1.0
        0.7s    16.67nm          5.2mb
KSR     81.01 114 eP     18 06.00 -10.8X
        0.8s    13.00nm
ARN     81.29 317 eP     18 18.82   1.1
LRM     82.05 328 eP     18 23.00   1.3
SLR     82.22 115 iPd    18 23.70   0.7
        0.7s    10.27nm          5.0mb
      Z 18s     3.09um           5.7Msz
ORV     82.66 319 (P)    18 24.64  -0.1
BFT     83.70 115 eP     18 31.00   0.3
        0.2s     6.00nm          5.5mb
LBFM    84.03 320 eP     18 30.57  -1.4
LGPM    84.31 320 eP     18 32.86  -0.4
BUL     84.69 110 eP     18 36.40   0.8
                  i      18 45.00  27km
FHC     84.93 319 eP     18 36.71   0.5
        0.8s    17.36nm          5.3mb
CROR    85.84 324 P      18 42.73   2.0
WAH2    86.24 326 P      18 43.28   0.7
LSZ     86.26 105 iP     18 46.00   2.5
                  i      18 53.10  22km
DPW     86.30 327 eP     18 42.50  -0.4
RNO     86.70 322 P      18 46.04   1.1
SAW     86.78 326 P      18 46.08   0.8
KRI     86.89 107 iPd    19 04.50  17.9X
                  i      19 11.00  20km
ASR     86.92 324 P      18 47.46   1.4
WTV     87.06 326 P      18 46.44  -0.2
LON     87.41 325 eP     18 47.37  -1.0
                  e      19 01.79  49kmX
FMW     87.46 325 P      18 48.87   0.2
RMW     87.86 325 eP     18 49.74  -0.8
BMW     88.00 324 eP     18 51.99   0.8
JCW     88.40 326 P      18 52.02  -0.9
GMW     88.44 325 eP     18 53.25   0.1
MCW     89.17 326 eP     18 57.16   0.5
STW     89.28 325 P      18 58.90   1.8
CSY     89.88 178 eP     19 01.40   1.6
        0.9s    16.60nm          5.3mb
LPL     94.63  42 eP     19 22.70   0.5
        1.5s    30.80nm          5.5mb
LPG     94.64  42 eP     19 23.30   1.0
        1.5s    28.75nm          5.5mb
YKA     94.97 339 eP     19 23.10   0.0
        0.8s     3.00nm          4.8mb
GEC2   100.38  41 ePdiff19 53.90   5.8X
        1.2s     2.36nm          4.6mb
                  e      20 03.40
OBN    115.61  39 ePKP   25 04.00  20.7X
                  e      25 50.00
                  e      35 32.00
                  e      46 28.00
ASPA   129.34 202 ePKP   25 10.40  -0.2
        1.1s    12.50nm
WR2    132.59 204 ePKP   25 15.50  -1.4
        0.6s     6.80nm
GBA    142.58  99 PKP    25 38.00   2.6X
HYB    144.86  94 ePKP   25 48.00   8.7X
        1.0s   110.00nm
NDI    145.45  74 iPKPc  25 42.50   2.5X
LEM    148.37 165 iPKPd  25 50.50   5.2X
WMQ    149.84  42 PKP    25 52.50   5.9X
IRK    150.53  14 ePKP   25 33.00 -14.3X
                  e      26 00.00
                  e      26 21.80
                  e      27 06.80
GTA    159.71  37 ePKP   26 01.00   1.0
XAN    168.48  29 PKP    26 10.00   2.2X
                  pPKP   26 16.00
     S.D. = 1.1  on  97 of 123 obs.
-----------------------------------
*  OCT  02, 1993  00h 20m 32.56± 1.29s
   14.948 N ±18.4km   95.010 W ±10.6km
   DEPTH =  33.0km  (normal)
   4.4mb (  4 obs.)
```

```
 OFF COAST OF OAXACA, MEXICO      ( 67)
TPX      2.66  91 iP     21 13.71  -0.3
                  iS     21 44.89
OXX      2.69 322 iP     21 12.48  -2.1
                  (S)    21 38.08
SCX      2.90  52 iP     21 17.99   0.6
                  iS     21 54.95
IISM     4.61 331 (P)    21 53.37  11.6X
IIT      5.13 323 (P)    21 49.08  -0.4
PPM      5.36 320 iP     21 54.50   1.7
IIA      5.44 321 (P)    21 55.06   1.6
III      5.47 309 iP     21 53.30  -0.7
LTX     16.40 332 eP     24 20.28  -1.7
MEO     20.01 351 iPd    25 04.30  -1.1
TUC     22.48 323 eP     25 32.28   1.7
        1.0s     7.44nm          4.1mb
LRM     34.10 338 eP     27 18.00   1.5
YKA     49.47 348 eP     29 27.30   5.9X
        0.8s     2.90nm          4.4mb
INK     58.72 344 eP     30 36.00   6.8X
        1.0s     3.00nm          4.4mb
NB2     84.69  28 P      33 12.20   7.9X
        0.7s     2.90nm          4.6mb
WR2    132.77 257 iPdiff36 42.30  -0.1
        0.3s     8.40nm
WRA    132.79 257 PKP    39 56.80  10.1X
        0.8s     0.80nm
HYB    147.22  11 ePKP   40 12.00  -0.7
GBA    150.66  15 PKP    40 24.00   6.0X
     S.D. = 1.4  on  13 of  19 obs.
-----------------------------------
   OCT  02, 1993  01h 17m 30.49± 0.25s
   39.066 N ± 5.4km   69.966 E ± 3.3km
   DEPTH =  14.2km  (  8 depth phases)
   5.0mb ( 38 obs.)  4.4Msz (  2 obs.)
 TAJIKISTAN                        (715)
     ML 4.8 (BJI).

KSH      4.68  83 Pn     18 44.50   2.0
      Z  12s    17.30um
                  Pg     18 55.30
                  Sn     19 40.50
                  Sg     20 01.00
FRU      5.15  42 iPnc   18 52.00   3.0X
                  i      19 08.00
                  eS     19 53.00
TLG      6.99  51 ePn    19 15.00   0.0
                  e      21 01.00
ASH      9.17 267 eP     19 44.00  -1.3
        1.5s   120.00nm          6.0mb X
                  iS     21 34.50
NDI     11.97 148 eP     20 21.00  -2.6
                  eS     22 29.00
WMQ     14.12  65 P      20 53.00   0.9
        1.0s    38.00nm          5.1mb
                  pP     20 59.00
                  sP     21 02.50
BAK     15.50 281 iPd    21 27.00  17.0X
TAB     18.51 274 iP-    21 49.00   0.9
GRO     18.74 291 iPc+   21 52.00   1.2
        1.5s   240.00nm          5.2mb
      Z  14s     6.00um
      N  18s     5.50um
      E  16s     4.50um
                  iS     25 26.00
SVE     18.79 344 ePd    21 51.00  -0.3
        1.1s   120.00nm          5.0mb
                  eS     25 24.00
ARU     18.91 340 eP     21 52.00  -0.7
                  eS     25 17.00
ERE     19.63 281 iP+    22 03.00   1.4
LSA     19.79 112 P      22 05.90   2.3
        0.6s    11.00nm          4.3mb
      Z  22s     1.05um
                  PP     22 26.30
                  S      25 45.00
                  sS     25 56.00
PYA     20.70 293 eP     22 11.00  -1.6
      Z  13s     1.50um          4.5MszX
                  i      22 19.00  30kmX
                  i      22 40.00
                  eS     25 59.00
                  i      26 23.00
POO     20.74 170 eP     22 21.00   7.8X
                  iS     26 14.00
SHL     22.82 120 iP     22 34.20   0.0
```

```
                  eS     26 46.00
HYB     22.83 158 eP     22 34.90   0.7
        1.0s    45.00nm          4.9mb
GTA     23.08  80 eP     22 36.70   0.1
        1.5s    22.00nm          4.5mb
      Z  22s     1.23um          4.3Msz
      N  13s     0.51um
SOC     23.09 291 eP     22 39.00   2.5
      Z  16s     0.80um          4.3MszX
      N  16s     0.50um
      E  16s     0.70um
                  e      23 09.00 150kmX
MJMA    24.55 245 eP     22 50.67  -0.2
QASM    25.65 248 eP     23 02.00   0.6
ZAK     26.02  53 eP     23 05.30   0.8
        1.0s    57.00nm          5.2mb
GBA     26.21 163 P      23 06.00  -0.5
UQSK    26.68 248 eP     23 12.33   1.4
LZH     26.93  86 eP     23 13.00  -0.2
        2.0s    40.00nm          4.7mb
      Z  20s     1.04um          4.4Msz
      N  10s     0.51um
AFIF    27.13 245 eP     23 15.33   0.3
MOS     27.17 319 iPd    23 16.00   1.0
        1.8s   140.00nm          5.4mb
                  e      23 26.00  36kmX
                  e      23 58.00
                  e      24 18.00
OBN     27.46 317 eP     23 18.00   0.4
        1.5s    70.00nm          5.2mb
      Z  15s     0.90um          4.5MszX
      N  14s     0.60um
      E  14s     1.00um
                  i      23 26.00  28kmX
                  i      24 18.00
KAS     27.61 286 iPc    23 20.20   0.9
CD2     28.73  96 eP     23 29.80   0.4
XAN     31.52  87 P      23 52.80  -1.4
      Z  14s     0.94um          4.6MszX
      N  11s     0.69um
      E  10s     0.43um
NRI     31.91  12 eP     23 57.00  -0.2
        0.8s    38.00nm          5.4mb
MNK     32.20 312 eP     24 03.00   3.1X
VRI     32.30 296 ePd    24 03.00   2.2
CIT     32.68  52 eP     24 03.00  -1.2
MLR     32.87 296 eP     24 04.00  -2.0
TIY     33.10  79 eP     24 07.60  -0.3
GYA     33.10 101 P      24 10.00   1.9
KAF     35.04 326 iP     24 25.40   1.1
        0.5s     8.90nm          4.9mb
NUR     35.28 322 iP     24 26.30  -0.1
        0.5s    27.10nm          5.4mb
BJI     35.33  73 eP     24 26.50  -0.6
        1.0s     6.00nm          4.4mb
SKO     36.62 290 eP     24 38.00   0.1
OJC     36.74 304 eP     24 39.80   0.9
                  i      24 43.50  12km
SDF     37.18 334 eP     24 46.00   3.7X
UPP     38.56 320 eP     24 54.00   0.0
                  i      24 58.90  17km
KSP     38.94 306 eP     24 57.50   0.1
                  i      25 02.60  17km
                  e      26 29.00
NJ2     39.99  85 eP     25 06.80   0.6
PRU     40.13 304 eP     25 08.50   1.3
                  e      25 12.40  13km
                  e      26 43.00
BRG     40.42 306 iP     25 10.20   0.6
        1.0s    28.00nm          4.9mb
                  i      25 14.00  13km
HFS     40.56 320 eP     25 10.70   0.1
        0.5s    66.00nm          5.6mb
      Z  17s     0.24um          4.1MszX
                  LR     41 35.00
GEC2    40.82 303 P      25 13.70   0.7
        0.6s     3.79nm          4.3mb
                  e      25 18.50  16km
                  e      25 23.50
                  e      25 27.00
                  e      26 48.40
KHC     40.86 303 eP     25 14.50   1.3
        1.0s    10.50nm          4.5mb
                  e      25 18.00  12km
                  e      25 31.00
                  e      26 53.50
                  e      27 50.00
```

02d 01h

```
CLL     40.97 307 eP    25 15.00   0.9
        1.4s    16.00nm         4.6mb
                e       26 49.00 514kmX
NB2     41.85 321 P     25 20.40  -0.8
        0.8s    13.30nm         4.7mb
GRF     42.30 304 ePc   25 26.80   1.8
        1.7s    21.00nm         4.6mb
      Z  17s     0.30um         4.2MszX
                e       25 30.80  13km
YAK     42.40  37 eP    25 25.20  -0.4
        0.8s    68.00nm         5.4mb
CDF     45.09 303 eP    25 46.90  -0.8
BSF     45.53 303 eP    25 50.20  -1.1
LPG     46.14 299 eP    25 56.00  -0.3
        0.6s     8.30nm         4.9mb
LPL     46.15 299 eP    25 56.20  -0.1
        0.6s     8.30nm         4.9mb
LOR     47.60 303 eP    26 06.10  -1.4
        0.8s     5.10nm         4.6mb
SMF     47.78 302 eP    26 08.00  -0.9
AVF     48.06 302 eP    26 10.20  -0.9
        1.4s    57.05nm         5.5mb
BGF     48.46 302 eP    26 13.10  -1.1
MAF     48.74 302 eP    26 16.00  -0.4
        1.4s    57.95nm         5.4mb
TCF     48.96 302 eP    26 17.50  -0.6
LDF     49.80 305 eP    26 23.40  -1.1
EKA     49.89 314 Pc    26 25.40   0.3
        1.5s    50.00nm         5.3mb
FLN     49.98 305 eP    26 24.50  -1.4
        1.4s    67.10nm         5.4mb
GRR     50.33 305 eP    26 27.30  -1.2
LFF     50.36 300 eP    26 28.40  -0.4
        1.7s   152.95nm         5.7mb
DAG     52.07 343 eP    26 40.50  -0.8
        0.7s     9.59nm         4.8mb
DLF     52.33 312 eP    26 43.70   0.1
DCN     52.74 313 eP    26 46.20  -0.5
INK     71.51   9 eP    28 52.00  -0.1
        0.6s     5.00nm         4.8mb
FBA     72.23  16 eP    28 55.84  -0.7
        0.6s     6.04nm         4.8mb
KIC     74.15 265 P     29 07.39  -1.1
        0.7s     9.00nm         4.9mb
LIC     74.45 265 P     29 10.19   0.0
SLKM    75.46  19 eP    29 13.86  -1.5
YKA     78.72   2 eP    29 33.10  -0.2
        0.6s     8.30nm         5.0mb
WRA     84.04 121 P     30 02.20   0.3
        0.8s     1.20nm         4.2mb
WR2     84.05 121 eP    30 00.20  -1.8
        0.7s     4.90nm         4.8mb
NEW     92.82   5 eP    30 44.22   0.5
        0.7s    12.86nm         5.5mb
     S.D. = 1.1  on  78 of  83 obs.
-----------------------------------
*  OCT  02, 1993  02h 15m 42.82± 3.55s
   45.038 N ±10.3km    9.045 E ±27.9km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                  (545)
      ML 2.6 (GEN), 2.5 (LDG).

PCP      0.61 216 P     15 54.54  -0.6
                S      16 01.95
FIN      1.02 216 P     16 01.90  -0.3
                S      16 14.26
ROB      1.12 229 P     16 04.28   0.4
                S      16 17.42
RSP      1.27 276 P     16 06.62   0.1
                S      16 20.79
BHB      1.28 262 P     16 05.89  -0.7
                S      16 19.75
IMI      1.40 217 P     16 07.85  -0.6
                S      16 22.79
LSD      1.40 288 P     16 09.00   0.4
ENR      1.42 236 P     16 08.31  -0.4
STV      1.46 238 P     16 09.36   0.0
PZZ      1.48 250 P     16 08.91  -0.8
                S      16 25.35
RRL      1.61 267 P     16 12.75   1.2
SBF      1.65 225 Pg    16 12.10   0.2
                Sg     16 32.80
LPG      1.68 287 Pn    16 12.40  -0.3
LPL      1.70 287 Pn    16 12.20  -0.7
FRF      2.27 230 Pg    16 22.80   1.9
                Sg     16 48.30
LRG      2.50 232 Pg    16 29.80   5.7X
                Sg     16 55.20
LMR      2.50 228 Pg    16 28.20   4.1X
                Sn     16 51.70
                Sg     16 58.70
     S.D. = 0.8  on  15 of  17 obs.
-----------------------------------
*  OCT  02, 1993  02h 26m 46.27± 1.50s
   17.887 N ±13.7km  101.578 W ±10.8km
   DEPTH =  61.9 ± 16.1 km
   4.2mb (  2 obs.)
 NEAR COAST OF GUERRERO, MEXICO  ( 58)

MRX      1.84  11 iP    27 15.13  -0.9
                (S)     27 26.65
ACX      1.93 121 iP    27 17.03  -0.3
                iS      27 44.72
III      2.06  76 iP    27 18.79  -0.6
                iS      27 42.50
CRX      2.35  50 iP    27 23.34  -0.1
                (S)     27 55.50
CGX      2.54 316 iP    27 26.89   0.9
                iS      27 53.00
UNM      2.69  57 (P)   27 30.00   1.8
PPM      3.04  67 iP    27 32.61  -0.8
                (S)     28 07.00
IIA      3.04  65 iP    27 32.38  -0.6
                (S)     28 21.02
IIT      3.30  70 iP    27 36.00  -0.9
                (S)     28 23.56
AGX      4.03 350 (P)   27 59.25  12.4X
IISM     4.14  74 iP    27 49.22   0.9
                (S)     28 47.61
OXX      4.70  99 iP    27 56.98   0.5
LVVM     5.20  68 (P)   28 11.00   7.7X
OXF     19.80  31 (P)   31 16.59   2.2
MYNC    23.11  39 (P)   31 52.91   5.3X
        1.8s    27.47nm         4.4mb
RSSD    26.24 356 eP    32 16.27  -1.2
        0.6s     2.69nm         4.0mb
                epP     32 33.07  72kmX
LRM     29.29 344 iPd   32 44.30  -0.8
                e       33 01.40
     S.D. = 1.2  on  14 of  17 obs.
-----------------------------------
   OCT  02, 1993  02h 51m 28.62± 0.34s
   50.147 S ± 6.7km  138.892 E ±11.3km
   DEPTH =  10.0km  (geophysicist)
   5.3mb ( 17 obs.)  4.9Msz (  6 obs.)
 SOUTH OF AUSTRALIA              (437)

TOO     13.43  23 eP    54 42.00   0.3
ADE     15.17 359 e(P)  55 05.80   1.3
CAN     16.55  30 eP    55 23.50   1.3
DRV     16.58 178 eP    55 24.00   1.7
CNB     16.67  31 eP    55 22.50  -1.3
        1.0s    40.00nm         4.5mb
BWA     17.20  28 eP    55 30.70   0.3
STK     18.36   7 eP    55 43.80  -1.0
        2.1s     6.80nm         3.4mb X
                eS      59 13.10
CSY     21.70 211 eP    56 19.20  -2.0
        0.9s    15.50nm         4.4mb
ARMA    21.91  31 iPc   56 23.60  -0.2
        0.9s    23.00nm         4.6mb
MUN     24.78 309 eP    56 52.90   1.2
BRS     25.09  30 iPc   56 54.50  -0.2
        1.8s     6.00nm         4.0mb X
      Z  18s    56.00um         6.1MszX
                eS      01 21.00
ASPA    26.72 350 iPd   57 09.30  -0.6
        0.8s    22.70nm         4.9mb
      Z  22s     1.40um         4.5Msz
                eS      01 45.30
WR2     30.35 352 eP    57 40.30  -2.3
        0.7s    41.30nm         5.4mb
WRA     30.35 352 P     57 41.50  -1.1
        0.8s    16.00nm         4.9mb
DZM     35.40  48 iPc   58 27.00   0.4
MAW     39.94 215 P     59 02.20  -1.9
        1.0s    20.83nm         4.8mb
LEM     50.47 318 iPc   00 31.50   2.7
CHTO    77.19 321 iPd   03 24.20   0.1
        1.2s    42.71nm         5.4mb
KMI     81.51 327 Pc    03 49.50   1.9
        1.5s   130.00nm         5.8mb
SSE     82.40 345 Pc    03 51.00  -0.7
        1.0s    21.00nm         5.2mb
GBA     83.11 301 P     03 55.00  -0.8
NJ2     83.74 343 eP    03 58.40  -0.3
CD2     86.51 330 iPc   04 13.20   0.6
        1.2s    48.00nm         5.6mb
BUL     86    242 iPd   04 16.90   1.4
                i       04 23.00
XAN     87    335 P     04 18.50  -0.8
        1.0s    21.00nm         5.4mb
                pP      04 25.00  20kmX
                sP      04 27.20
TIA     88.11 343 eP    04 19.50  -0.6
KRI     89.03 245 iPd   04 40.20  14.8X
POO     89.10 301 eP    04 30.00   4.7X
LSA     90.05 320 P     04 29.80  -0.3
        1.1s    23.00nm         5.3mb
TIY     90.55 339 eP    04 31.30  -0.4
LSZ     91.09 245 iPd   04 35.10   0.2
WIN     91.22 232 iPd   04 34.50  -1.0
        0.9s    27.00nm         5.6mb
LZH     91.28 332 P     04 35.50   0.3
        1.8s   120.00nm         5.9mb
                pP      04 42.00  20kmX
BJI     92.00 343 eP    04 37.00  -1.2
        1.2s    16.00nm         5.3mb
      Z  20s     0.36um         4.8Msz
GTA     95.58 331 Pc    04 55.40   0.6
        2.0s    36.00nm         5.5mb
MOCB   105.67 156 PKP   10 11.90  17.7X
SIV    111.84 159 PKP   10 02.90  -2.5X
KSP    144.27 294 iPKPc 11 02.20  -3.3X
        1.0s    31.00nm
                e       20 20.00
KBA    144.54 287 iPKPc 11 03.00  -3.3X
        1.3s    55.00nm
PRU    144.99 292 PKP   11 04.00  -2.7X
        1.7s    95.10nm
                e       11 16.20
GEC2   145.05 290 PKP   11 03.80  -3.2X
        1.4s    58.93nm
                e       11 11.50
                e       11 15.30
                e       20 18.90
                e       20 24.60
                e       20 29.30
                e       20 33.50
BHG    145.10 287 ePKP  11 04.10  -2.9X
        1.1s    86.00nm
PGF    145.16 277 iPKPc 11 05.10  -2.3X
        1.2s   154.70nm
KHC    145.24 290 PKP   11 05.00  -2.2X
        1.2s    40.00nm
                e       11 12.00
                e       11 21.00
ULM    145.61  68 ePKP  11 08.00   0.2
WET    145.67 290 ePKP  11 06.60  -1.3
BRG    145.67 293 iPKP  11 07.20  -0.6
WTTA   145.67 286 iPKPd 11 06.70  -1.5
        1.4s   154.00nm
WATA   145.74 286 iPKPd 11 06.70  -1.6
OGA    145.88 285 iPKPd 11 06.90  -1.7
SQTA   145.92 286 iPKPd 11 06.60  -2.0
        0.7s    24.30nm
MOTA   146.03 286 iPKPd 11 06.80  -2.0
        0.9s    40.70nm
FUR    146.26 287 ePKP  11 08.40  -0.6
OSS    146.35 284 ePKPd 11 08.70  -0.7
SBF    146.80 278 ePKP  11 09.80  -0.2
        1.2s    99.95nm
GRF    146.88 290 ePKP  11 10.10   0.2
      Z  18s     0.20um         4.9Msz
MOX    146.98 292 ePKP  11 10.10   0.1
        1.9s    59.00nm
RES    147.04  23 ePKP  11 09.00  -0.4
LMR    147.13 277 ePKP  11 10.90   0.5
        1.1s    36.65nm
LLS    147.15 284 ePKPd 11 10.30  -0.3
FRF    147.15 277 iPKPc 11 11.10   0.6
        1.2s    66.05nm
LRG    147.29 277 iPKPc 11 11.70   1.0
        1.0s    40.20nm
      Z  19s     0.25um         5.0Msz
MMK    147.45 282 iPKPd 11 12.20   1.0
DIX    147.81 282 ePKPd 11 12.60   0.8
SLE    147.82 285 ePKPd 11 13.20   1.7
LPG    147.97 280 iPKPc 11 13.10   1.0
        0.9s    19.15nm
LPL    147.99 280 ePKP  11 13.10   1.0
```

```
        1.0s    26.20nm
HFS   148.03 309 ePKP  11 12.20   0.9
        1.3s    56.00nm
CDF   148.82 286 ePKP  11 14.60   1.5
BSF   148.91 285 iPKPc 11 14.60   1.3
        0.9s    16.70nm
HAU   149.25 285 ePKP  11 15.60   1.9
        1.1s    27.10nm
      Z  23s     0.17um          4.8MszX
NB2   149.33 311 PKP   11 14.80   1.3
        0.9s    11.80nm
WTS   150.26 292 ePKP  11 19.00   4.0X
        0.9s    29.20nm
SMF   150.29 281 ePKP  11 18.30   3.0X
        0.9s    17.70nm
LBF   150.34 282 iPKPc 11 18.80   3.4X
        1.1s    50.30nm
ENN   150.44 290 ePKP  11 19.00   3.7X
        1.0s    38.00nm
LOR   150.53 282 iPKPc 11 19.00   3.4X
        1.1s    13.45nm
      Z  22s     0.30um          5.0Msz
AVF   150.66 281 ePKP  11 19.00   3.2X
        1.0s    15.00nm
SSF   150.67 281 iPKPc 11 19.50   3.7X
        1.0s    34.40nm
CAF   150.71 277 ePKP  11 20.00   4.0X
        1.3s    37.55nm
BGF   150.89 280 iPKPc 11 20.40   4.2X
        1.1s    43.00nm
ELUQ  150.91 259 ePKP  11 19.50   2.9X
MAF   150.93 279 ePKP  11 20.20   3.9X
EPF   150.94 272 ePKP  11 20.40   3.9X
        0.9s    14.90nm
DOU   151.05 288 PKP   11 21.00   4.7X
EPRU  151.15 257 ePKP  11 21.50   4.6X
LPO   151.16 276 ePKP  11 21.10   4.5X
        0.9s    25.05nm
TCF   151.18 279 ePKP  11 20.90   4.2X
RJF   151.22 277 ePKP  11 21.00   4.3X
        1.0s    25.80nm
      Z  20s     0.22um          5.0Msz
LFF   151.56 276 ePKP  11 22.80   5.6X
LSF   151.60 279 ePKP  11 22.50   5.2X
        1.3s    38.25nm
DAG   151.89 349 iPKPd 11 20.80   4.0X
        0.8s    11.19nm
EVAL  152.48 256 ePKP  11 25.00   6.2X
     S.D. = 1.2  on  61 of  93 obs.
-----------------------------------
?  OCT  02, 1993  03h 00m 43.33± 1.02s
   50.034 S ±13.7km  138.604 E ±33.8km
   DEPTH =  10.0km  (geophysicist)
   4.2mb (  7 obs.)
 SOUTH OF AUSTRALIA                (437)

TOO    13.41  24 eP    03 59.00   3.0X
        1.0s    20.00nm         5.1mb
ADE    15.06   0 eP    04 18.60   0.8
DRV    16.70 178 eP    04 54.00  15.5X
STK    18.27   8 eP    04 57.20  -1.2
        1.6s     5.70nm         3.5mb
CSY    21.70 211 eP    05 34.20  -1.7
        1.0s     8.70nm         4.1mb
ARMA   21.91  31 eP    05 38.10  -0.4
        0.6s     7.00nm         4.3mb
ASPA   26.57 350 eP    06 22.50  -0.8
        1.3s     4.80nm         4.0mb
WR2    30.21 352 iPc   06 55.60  -0.5
        0.8s     7.60nm         4.6mb
                  i    07 01.90
WRA    30.21 352 P     06 56.00  -0.1
        0.7s     3.20nm         4.3mb
KMI    81.31 328 eP    13 02.00   0.7
LZH    91.09 332 eP    13 55.00   6.0X
        1.5s    32.00nm         5.4mb X
BHG   144.88 288 iPKPc 20 25.50   4.2X
KHC   145.02 290 ePKP  20 26.00   4.4X
        1.0s     5.40nm
                  e    20 35.00
BRG   145.45 293 ePKP  20 24.20   2.0
        1.6s    66.00nm
WET   145.45 290 iPKPc 20 27.60   5.3X
NSD   145.90 319 ePKP  20 20.10  -2.4X
        0.9s     9.70nm
CLL   146.16 294 e(PKP)20 29.00   5.7X
LPG   147.77 281 ePKP  20 27.10   0.6
        1.2s    14.30nm
LPL   147.79 281 ePKP  20 27.00   0.5
NB2   149.12 311 PKP   20 30.80   3.0X
        1.0s     2.30nm
LBF   150.14 282 ePKP  20 32.80   3.0X
        1.0s    11.80nm
SSF   150.46 282 ePKP  20 34.40   4.2X
        1.2s    21.70nm
BGF   150.69 280 ePKP  20 34.40   3.8X
        1.2s    24.70nm
     S.D. = 1.2  on  11 of  23 obs.
-----------------------------------
   OCT  02, 1993  03h 02m 03.36± 0.36s
   15.387 N ± 6.5km   92.810 W ± 5.2km
   DEPTH = 106.5km  (  5 depth phases)
   4.5mb ( 17 obs.)
 MEXICO-GUATEMALA BORDER REGION  ( 62)
      MD 4.6 (GCG).

TPX     0.71 132 iPd   02 21.58  -0.2
                 iS    02 35.26
SCX     1.35   7 iPd   02 30.31   1.8
                 iS    02 49.96
BVA     2.22 109 iP    02 43.38   3.6X
GCG     2.34 110 iPd   02 43.60   2.3
                 iS    03 14.66
PCG     2.35 115 iPd   02 43.95   2.4
IXG     2.58 118 iPd   02 46.50   2.0
                 iS    03 20.61
YUP     3.14 112 iP    02 52.97   0.9
                 iS    03 36.30
OXX     4.12 295 iP    03 06.62   1.1
                 (S)   03 57.00
LVVM    5.55 322 (P)   03 21.81  -3.1X
IISM    5.65 310 (P)   03 24.90  -1.4
IIT     6.38 305 iP    03 38.05   1.4
                 (S)   04 51.00
PPM     6.65 304 iP    03 41.30   0.6
IIA     6.72 305 iP    03 43.14   2.0
ACX     6.93 283 (P)   03 41.50  -2.5
III     7.03 296 iP    03 45.80   0.2
MRX     9.07 299 (P)   04 14.50   1.4
LTX    17.11 326 eP    05 57.18  -0.3
MIAR   19.09 358 ePc   06 18.48  -1.8
        0.6s    17.48nm         4.6mb
                 eS    09 38.71
OXF    19.29   9 eP    06 21.09  -1.3
                 eS    09 44.51
MEO    20.00 346 iPc   06 28.10  -1.7
HBF    20.79  31 eP    06 38.09   0.3
PRM    20.87  25 eP    06 38.78   0.2
                 eS    10 29.99
SGS    20.94  30 eP    06 39.93   0.6
MYNC   21.10  20 eP    06 40.43  -0.5
        0.8s    15.88nm         4.4mb
                 eS    10 30.96
JSC    21.50  27 eP    06 44.25  -0.7
LHS    21.87  27 eP    06 48.17  -0.4
                 eS    10 39.85
ELC    22.04   8 (P)   06 52.49   2.3
                 eS    10 41.25
FVM    22.61   5 eP    06 54.98  -0.8
        0.5s    12.61nm         4.5mb
                 e     07 15.95  98km
ALQ    23.01 330 ePc   07 01.26   1.3
        0.6s    15.05nm         4.5mb
TUC    23.48 319 eP    07 06.37   2.0
        0.9s    12.25nm         4.3mb
CEH    23.82  28 eP    07 07.73   0.2
        0.6s    14.26nm         4.6mb
                 e     07 31.46 112km
NAV    24.31  24 eP    07 27.26  15.0X
BLA    24.36  25 eP    07 13.32   0.5
        0.8s     9.73nm         4.3mb
GLA    26.60 315 eP    07 33.69   0.1
                 e     07 58.08 113km
PV08   26.99 332 eP    07 38.02   0.6
PV10   27.00 331 ePc   07 37.38  -0.1
PV09   27.15 331 ePc   07 39.26   0.5
SRU    28.29 330 ePc   07 48.94   0.0
MSU    28.66 327 eP    07 53.03   0.6
                 e     10 36.67
ARUT   28.82 325 eP    07 54.84   1.1
EMUT   28.98 331 eP    07 55.64   0.4
DAU    29.66 331 ePc   08 01.81   0.4
RSSD   30.19 344 eP    08 04.42  -1.5
        0.7s     3.49nm         4.2mb
BW06   30.85 336 eP    08 10.71  -1.0
        0.6s     2.00nm         4.0mb
HVU    31.45 331 eP    08 17.17   0.3
                 e     08 40.32 103km
                 e     08 48.01
BONR   31.81 320 eP    08 21.20   0.9
PTI    32.12 332 eP    08 22.79   0.1
HHAI   32.46 333 eP    08 25.86   0.2
ARN    33.55 316 (P)   08 35.41   0.4
LRM    34.53 336 eP    08 43.70   0.0
                 e     09 08.00 108km
LBFM   36.07 322 eP    08 56.94   0.3
                 e     09 19.12  94kmX
FHC    37.05 319 (P)   09 04.43  -0.2
        0.8s    17.36nm         5.0mb
DPW    38.59 332 eP    09 17.29  -0.2
ASR    38.99 328 P     09 22.36   1.4
EBG    39.00 330 P     09 21.93   1.0
WTV    39.26 331 P     09 23.90   0.8
LON    39.50 328 eP    09 25.42   0.3
                 e     09 59.17 153kmX
FMW    39.56 329 P     09 26.52   0.8
LPAZ   39.80 141 P     09 27.90  -0.6
                 LR    46 15.00
LPB    40.01 141 eP    09 30.00   0.0
BMW    40.05 327 eP    09 30.16   0.6
GMW    40.54 329 eP    09 33.03  -0.4
JCW    40.55 330 P     09 33.16  -0.5
MCW    41.32 330 ePc   09 40.09   0.1
STW    41.38 329 P     09 41.56   1.2
YKA    49.50 347 eP    10 42.70  -1.9
        0.4s     2.50nm         4.5mb
BAO    53.94 123 eP    11 16.30  -2.3
PPD    55.11 131 (P)   11 24.00  -2.9
SOB1   56.94 112 (P)   11 36.00  -4.2X
VAO    58.89 129 eP    11 52.40  -1.3
INK    58.89 344 eP    11 52.00  -1.0
        0.5s     3.00nm         4.6mb
KLU    59.39 334 eP    11 56.16  -0.5
PMR    60.83 333 eP    12 04.83  -1.5
        0.5s    12.69nm         5.2mb
FBA    61.67 337 ePc   12 10.46  -1.5
        0.8s    11.01nm         4.9mb
                 e     12 33.68  92kmX
                 e     12 50.23
CRP    62.06 332 eP    12 13.59  -1.3
CP2    62.10 332 ePc   12 14.40  -0.8
SVW    63.61 331 eP    12 23.53  -1.3
        0.5s    19.36nm         5.3mb
TTA    64.31 333 eP    12 27.81  -1.7
SDN    64.81 324 (P)   12 31.77  -0.9
NB2    83.31  28 P     14 18.50  -0.8
        0.7s     1.50nm         4.0mb
HFS    84.77  29 ePKP  14 24.40  -2.2
        0.5s     1.70nm         4.2mb
LSZ   123.26  98 iPKPc 20 50.90   0.7
WR2   134.93 257 ePKP  21 12.90   0.6
        0.6s     2.80nm
WRA   134.96 257 PKP   21 15.20   2.8X
        0.7s     1.00nm
NNT   149.56 335 ePKP  21 43.00   5.2X
GBA   149.62  19 PKP   21 39.00   1.1
KOD   152.78  21 ePKP  21 50.00   7.0X
     S.D. = 1.2  on  80 of  87 obs.
-----------------------------------
%  OCT  02, 1993  03h 16m 13.12± 1.04s
   40.290 N ± 7.9km   23.169 E ± 8.6km
   DEPTH =  10.0km  (geophysicist)
 GREECE                            (364)
      ML 2.1 (THE).

THE     0.38 336 ePg   16 20.84   0.0
                 eSg   16 25.80
PAIG    0.53 133 ePg   16 23.70  -0.2
                 iSg   16 30.82
SOH     0.55  15 iPg   16 23.66  -0.6
                 iSg   16 29.50
OUR     0.62  86 ePg   16 26.00   0.4
GRG     0.89 319 ePg   16 30.04  -0.1
                 eSg   16 42.76
SRS     0.89  21 ePg   16 30.24   0.1
                 eSg   16 41.12
KNT     0.90 347 iPg   16 30.70   0.4
                 eSg   16 42.36
     S.D. = 0.4  on   7 of   7 obs.
-----------------------------------
%  OCT  02, 1993  03h 23m 21.21± 0.65s
```

02d 03h

```
    9.915 N ± 8.1km   68.680 W ± 5.7km
   DEPTH =  10.0km  (geophysicist)
 VENEZUELA                          (101)

CEOS    0.94 159 iPc   23 38.30  -0.9
                 iS    23 50.70
MORO    1.02  21 iPd   23 39.50  -1.0
                 iS    23 55.30
TOV     1.10 264 ePn   23 41.50  -0.5
                 iPP   23 42.30
                 iSn   23 59.20
PLAV    1.16  92 iPc   23 42.70  -0.4
                 iS    24 00.20
GUAC    1.41  79 eP    23 46.90  -0.2
                 i     23 47.50
                 iS    24 06.80
CAR     1.82  71 iP    23 53.60   0.6
                 iS    24 18.70
OLLA    1.85  87 eP    23 53.50   0.1
                 iS    24 18.70
LLAV    1.93  73 iPc   23 55.60   1.2
                 iS    24 21.60
SDV     2.18 242 ePn   23 59.30   1.1
                 eSn   24 27.70
     S.D. = 0.9  on   9 of   9 obs.
-----------------------------------
   OCT  02, 1993  04h 00m 37.78± 0.59s
   38.443 N ± 4.9km   22.176 E ± 6.2km
   DEPTH =  10.0km  (geophysicist)
 GREECE                             (364)
     ML 3.2 (ATH), 3.0 (THE).

AGG     0.59  12 iPg   00 48.94  -0.8
                 eSg   00 58.86
VLS     1.28 258 ePb   01 01.00  -0.5
ATH     1.30 111 ePb   01 02.00   0.1
                 eSb   01 20.20
LIT     1.67   8 iPb   01 07.66   0.4
                 eSb   01 29.10
IGT     1.80 308 ePb   01 13.30   4.2X
                 iSb   01 40.10
VLI     1.82 160 ePb   01 09.50   0.1
KZN     1.89 351 ePb   01 11.50   1.1
PAIG    1.89  38 iPb   01 10.05  -0.3
                 eSb   01 33.62
KEK     2.24 305 ePg   01 21.80   6.3X
THE     2.27  15 ePn   01 14.74  -1.1
OUR     2.35  36 ePn   01 16.86  -0.1
                 iSn   01 46.94
FNA     2.42 345 ePn   01 19.06   1.0
                 eSn   01 49.86
GRG     2.52   4 ePn   01 19.78   0.4
SOH     2.54  21 iPn   01 20.29   0.5
                 iSn   01 51.58
KNT     2.77  11 ePn   01 23.50   0.5
                 eSn   01 58.58
OHR     2.87 339 ePn   01 29.50   5.1X
SRS     2.88  22 iPn   01 24.30  -0.3
VAM     3.44 151 ePb   01 36.00   3.6X
SKO     3.57 351 ePn   01 33.00  -1.3
     S.D. = 0.8  on  15 of  19 obs.
-----------------------------------
%  OCT  02, 1993  04h 03m 14.72± 1.20s
   26.887 S ± 8.0km   26.736 E ±16.5km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA           (584)
     ML 2.6 (PRE).

KSR     1.03   8 eP    03 35.00   0.3
SEK     1.63 151 iPc   03 45.20   0.8
                 S     04 05.00
SLR     1.80  51 iPd   03 47.10   0.3
                 S     04 09.80
BLF     2.27 192 eP    03 53.00  -0.5
                 S     04 22.00
BFT     3.20  69 eP    04 06.00  -0.9
     S.D. = 1.0  on   5 of   5 obs.
-----------------------------------
   OCT  02, 1993  04h 11m 09.48± 0.40s
    8.703 N ± 7.4km   71.496 W ± 4.2km
   DEPTH =  33.0km  (normal)
   4.5mb (  5 obs.)
 VENEZUELA                          (101)

SDV     0.87  78 iPgd  11 23.30  -2.2
                 iSg   11 35.30
TOV     2.00  57 ePnc  11 43.10   1.5
                 iPP   11 43.30
                 iSn   12 11.10
CEOS    3.14  84 iPd   11 58.70   0.8
                 iS    12 37.10
MORO    3.80  55 iPc   12 07.80   0.5
                 iS    12 53.00
GUAC    4.42  70 eP    12 17.10   0.9
                 iS    13 06.90
OLLA    4.81  74 iPc   12 21.60   0.0
                 iS    13 17.30
CAR     4.85  68 iP    12 22.50   0.3
                 iS    13 20.00
LLAV    4.95  69 eP    12 23.90   0.3
                 iS    13 19.20
GUAN    5.90  77 eP    12 36.40  -0.7
                 iS    13 41.00
LPAZ   25.05 172 Pd    16 35.10   1.9
CCH    26.46 168 eP    16 45.00  -0.9
SIV    26.62 157 P     16 47.00   0.0
PV08   44.68 318 eP    19 22.29   0.7
PV10   44.84 317 eP    19 22.74   0.0
RSSD   45.21 327 eP    19 25.50   0.0
        0.8s     3.61nm          4.3mb
ULM    46.10 338 eP    19 35.50   3.3X
GLA    46.72 308 eP    19 37.65   0.2
MSU    47.05 316 eP    19 40.66   0.5
DAU    47.36 318 eP    19 43.66   0.9
BW06   47.56 322 eP    19 43.55  -0.6
        0.6s     4.57nm          4.7mb
GSC    49.07 310 eP    19 55.92   0.2
HHAI   49.57 321 (P)   20 00.25   0.6
LRM    50.98 324 eP    20 10.80   0.4
BONR   51.17 312 eP    20 12.21   0.1
NEW    54.98 324 eP    20 39.29  -0.6
        0.9s    10.09nm          4.8mb
LBFM   55.01 315 eP    20 39.43  -1.0
YKA    62.08 339 eP    21 27.30  -1.8
        0.7s     2.50nm          4.5mb
KIC    66.15  87 P     21 55.00  -1.5
SLKM   76.92 330 (P)   23 00.27   0.2
GEC2   80.36  42 P     23 18.70  -0.5
        1.0s     1.30nm          3.9mb
MSZ   117.65 224 Pdiff 26 20.10   8.7X
BRS   134.28 240 iPdiff27 23.00  -3.0X
                 ipP   27 43.00
WR2   152.61 243 iPKPc 31 04.40   6.6X
        0.5s    10.30nm
WRA   152.63 243 PKP   31 05.10   7.3X
        0.8s     7.30nm
     S.D. = 1.0  on  29 of  34 obs.
-----------------------------------
   OCT  02, 1993  04h 18m 48.39± 0.62s
   39.494 N ± 6.0km   26.439 E ± 6.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)
     ML 3.6 (ISK). MD 3.3 (ATH).

PRK     0.28 208 ePb   18 52.80  -1.5
                 eSb   18 57.40
EZN     0.34 345 iPg   18 54.10  -1.4
                 eSg   19 02.00
IZM     1.27 149 ePn   19 11.70  -0.3
EDC     1.39  52 ePn   19 15.00   1.2
ALN     1.43 348 eP    19 13.16  -1.2
                 iS    19 31.36
RDO     1.79 338 ePn   19 18.20  -1.3
OUR     2.07 295 eP    19 23.96   0.4
PAIG    2.17 282 eP    19 26.64   1.6
                 eS    19 54.72
CTT     2.25  42 ePn   19 26.00  -0.2
DMK     2.53  23 iPn   19 28.30  -1.9
ISK     2.55  51 ePn   19 31.00   0.6
KHL     2.68 115 ePn   19 34.00   1.6
SOH     2.71 300 eP    19 33.84   1.0
                 eS    20 08.76
SRS     2.71 308 eP    19 33.24   0.4
                 eS    20 08.08
KNT     3.18 303 eP    19 39.76   0.4
                 eS    20 21.08
AGG     3.22 263 eP    19 42.68   2.6
VLI     3.91 226 ePn   19 47.10  -2.7
MLR     6.01 357 eP    20 20.00   0.5
     S.D. = 1.5  on  18 of  18 obs.
-----------------------------------
   OCT  02, 1993  04h 23m 40.61± 0.23s
   19.000 S ± 5.3km  167.667 E ± 6.6km
   DEPTH =  10.0km  (geophysicist)
    5.0mb ( 12 obs.)  4.1Msz (  1 obs.)
 VANUATU ISLANDS REGION             (185)

PVC     1.39  26 iPd   24 05.00  -1.1
                 iS    24 23.00
BKM     1.43  23 iP    24 05.00  -1.7
                 iS    24 23.00
DZM     3.26 200 iPc   24 30.00  -2.9
                 iS    25 07.10
ARMA   18.46 229 eP    28 02.00   3.6X
CTA    20.21 263 iPc   28 19.00   0.4
        1.3s    38.46nm          4.6mb
                 ipP   28 29.00  40kmX
                 isP   28 38.00
                 i     28 49.00
URZ    20.88 159 eP    28 25.50   0.2
PUZ    21.13 156 P     28 27.80  -0.1
MNG    22.57 164 P     28 42.20  -0.1
CAW    22.93 166 eP    28 46.50   0.6
CNB    22.94 221 eP    28 48.00   1.8
        0.5s     8.00nm          4.5mb
BWA    23.00 224 eP    28 46.80   0.1
MTW    23.08 165 P     28 46.90  -0.5
CAN    23.18 222 e(P)  28 50.90   2.5
BLW    23.27 165 P     28 49.40   0.2
STK    26.73 236 eP    29 21.90  -0.3
        1.1s     4.50nm          4.1mb
                 e     29 31.90
WR2    31.39 263 eP    30 01.90  -2.2
        0.8s     2.90nm          4.2mb
WRA    31.41 263 P     30 02.00  -2.3
        0.7s     1.00nm          3.8mb X
ASPA   31.75 256 iPd   30 05.50  -1.8
        1.3s    23.40nm          4.9mb
     Z  22s     0.40um          4.1Msz
                 i     30 15.60
BJI    75.82 322 eP    35 31.50   2.8
KMI    76.89 303 eP    35 37.00   1.6
        1.5s    50.00nm          5.4mb
                 pP    35 46.20  29kmX
LZH    81.47 313 eP    36 10.00  10.2X
        1.5s    34.00nm
MHC    86.91  49 ePd   36 27.14  -0.1
        1.2s    10.00nm          4.9mb
ARN    86.99  49 eP    36 27.54   0.0
LGPM   87.71  45 iPc   36 31.82   0.8
WDC    87.75  46 iPc   36 31.24   0.2
        1.1s    15.09nm          5.2mb
                 e     36 41.91
ORV    88.00  47 ePd   36 31.91  -0.4
        1.1s    20.00nm          5.3mb
YBH    88.17  45 ePd   36 33.31   0.2
        1.2s    20.00nm          5.3mb
MIN    88.28  46 ePd   36 32.95  -0.8
        0.2s    30.00nm          6.2mb X
LBFM   88.54  45 iPc   36 35.45   0.4
PLM    88.76  54 eP    36 35.83  -0.5
BONR   89.57  49 eP    36 39.98  -0.2
GSC    89.59  52 (P)   36 39.87  -0.4
SSOR   89.76  42 P     36 40.68   0.0
BMW    90.04  40 ePc   36 41.90   0.1
GLA    90.22  55 (P)   36 42.94   0.0
VBEM   90.41  42 P     36 43.59  -0.1
SHW    90.52  41 eP    36 44.72   0.6
STW    90.56  39 P     36 44.90   0.8
TPNV   90.65  51 (P)   36 44.01  -1.0
        0.8s     8.67nm          5.1mb
CROR   90.76  42 P     36 45.32   0.1
VIPM   90.78  43 P     36 45.61   0.1
GMW    90.80  39 eP    36 45.57   0.3
ASR    90.90  41 P     36 46.11   0.2
LON    91.03  40 eP    36 46.02  -0.4
FMW    91.20  40 P     36 47.35   0.0
MCW    91.30  38 iPc   36 48.02   0.4
RMW    91.36  40 eP    36 47.59  -0.3
JCW    91.61  39 P     36 49.06   0.1
JBO    91.70  42 P     36 49.48   0.0
EBG    91.87  41 P     36 50.52   0.3
WTV    92.59  40 P     36 53.28  -0.3
ARUT   93.04  51 (P)   36 55.93  -0.1
TUC    93.12  57 eP    36 57.07   0.7
        1.0s     6.51nm          5.0mb
MSU    94.23  51 (P)   37 01.29  -0.3
HVU    94.96  48 eP    37 03.88  -0.9
PV08   96.86  52 (P)   37 13.90   0.2
GEC2  143.57 331 PKP   43 14.50  -2.9X
        1.4s     2.09nm
```

```
                  e      43 25.60
BHG   144.76 330 ePKP   43 18.30  -1.0
LJU   145.10 327 ePKP   43 19.40  -0.6
FUR   145.17 332 ePKP   43 20.10   0.1
DCN   145.50 355 ePKP   43 20.00  -0.3
WLF   146.01 338 PKP    43 29.00   7.7X
CDF   146.63 336 ePKP   43 23.60   1.1
       0.8s    13.70nm
BSF   147.30 336 ePKP   43 25.30   1.7
       0.9s     5.90nm
HAU   147.32 337 ePKP   43 25.40   1.8
       1.0s    14.60nm
LOR   148.85 338 ePKP   43 29.60   3.6X
       0.9s    10.15nm
LBF   149.05 338 ePKP   43 30.20   3.8X
SSF   149.15 339 ePKP   43 30.50   4.0X
       0.8s     7.80nm
LPG   149.20 333 ePKP   43 31.10   4.1X
       0.8s     5.10nm
BGF   149.81 339 ePKP   43 32.10   4.6X
       0.9s    10.50nm
TCF   150.26 339 ePKP   43 33.20   5.0X
       1.0s    12.80nm
     S.D. = 1.0  on  61 of  71 obs.
-------------------------------------
% OCT  02, 1993  04h 25m 56.56± 3.45s
  45.477 S ±11.0km  166.903 E ±26.1km
  DEPTH = 136.7 ± 39.9 km
 OFF W. COAST OF S. ISLAND, N.Z. (161)

TLC     1.56  80 P      26 25.80  -0.5
SIZ     1.64 149 P      26 27.00   0.0
MMCZ    1.64  74 Pd     26 27.20   0.0
CMCZ    1.71  80 P      26 28.00   0.1
                S       26 47.70
MHZ     1.73  77 Pd     26 28.40   0.2
SBCZ    1.74  78 Pd     26 28.40   0.1
LRCZ    1.77  77 Pd     26 28.90   0.1
LSCZ    1.78  79 Pd     26 28.70   0.0
MSCZ    1.81  79 Pd     26 29.20   0.1
TUZ     1.97 105 Pd     26 30.90   0.0
                eS      26 52.60
BWZ     2.32  67 Pc     26 35.20   0.0
LMZ     2.44  45 eP     26 36.70   0.0
ODZ     2.68  82 Pd     26 39.70  -0.1
                eS      27 07.90
     S.D. = 0.2  on  13 of  13 obs.
-------------------------------------
   OCT  02, 1993  04h 37m 27.37± 0.20s
   18.896 S ± 5.9km  167.639 E ± 5.4km
   DEPTH =  35.3km  (  4 depth phases)
   4.9mb ( 18 obs.)  4.7Msz (  1 obs.)
 VANUATU ISLANDS                  (186)

PVC     1.32  29 iPd    37 48.20  -1.5
                iS      38 05.00
BKM     1.35  25 iPd    37 48.00  -2.2
DZM     3.35 199 iPc    38 13.80  -4.9X
                iS      38 50.60
BRS    16.06 236 iPc    41 16.50   4.1X
     Z  18s     9.00um
                ipP     41 26.50
                eS      44 21.00
ARMA   18.51 229 eP     41 42.50  -0.4
       1.0s    20.00nm          4.3mb
CTA    20.20 263 iPd    42 02.20   0.2
       1.0s    12.50nm          4.2mb
                ipP     42 11.50  36km
                isP     42 20.00
                i(PcP)  45 37.40
                iS      46 27.00
                i       46 38.00
                i       47 50.00
                i       49 53.00
CTAO   20.20 263 eP     42 01.74  -0.3
       0.9s   102.68nm          5.2mb
                e       42 11.42  39km
URZ    20.99 159 P      42 08.30  -1.7
MNG    22.67 164 P      42 25.20  -1.7
PGZ    22.89 163 P      42 29.00   0.1
CNB    23.00 221 eP     42 31.60   1.4
       0.8s    22.00nm          4.7mb
STK    26.77 236 iPc    43 05.70  -0.2
       0.9s     9.60nm          4.4mb
TOO    26.85 222 eP     43 07.00   0.4
       0.7s     6.00nm          4.3mb
WR2    31.37 263 eP     43 46.20  -1.1
       0.5s     2.60nm          4.3mb
WRA    31.39 263 P      43 47.00  -0.5
ASPA   31.75 255 eP     43 49.40  -1.2
       1.2s    12.60nm          4.7mb
     Z  22s     1.70um          4.7Msz
                i       43 58.40  31km
LEM    59.48 273 iPc    47 29.30  -0.7
BJI    75.73 322 eP     49 11.00  -0.2
       1.2s     8.00nm          4.6mb
KMI    76.81 303 eP     49 18.60   0.7
LZH    81.38 313 eP     49 42.00  -0.3
       2.0s    50.00nm          5.2mb
                pP      49 53.00  35km
SVW    85.00  17 eP     50 00.69   0.5
       0.9s    26.84nm          5.4mb
SLKM   86.12  19 eP     50 04.49  -1.2
ARN    86.94  49 eP     50 10.36   0.1
LGPM   87.65  45 ePd    50 13.82   0.1
WDC    87.70  46 eP     50 13.85   0.1
       1.4s    51.71nm          5.6mb
ORV    87.95  47 eP     50 14.50  -0.5
LBFM   88.48  45 ePc    50 18.27   0.5
PEC    88.71  54 ePc    50 18.70  -0.1
       0.8s    10.27nm          5.2mb
PLM    88.72  54 (P)    50 19.55   0.5
BONR   89.52  49 ePd    50 22.64  -0.2
GSC    89.54  52 ePc    50 22.85   0.1
BMW    89.98  40 iPc    50 25.13   0.6
BPO    90.10  42 P      50 25.76   0.4
GLA    90.18  55 eP     50 26.21   0.5
COL    90.20  17 eP     50 23.05  -2.0
       0.9s    18.98nm          5.4mb
FBA    90.20  17 iPc    50 23.39  -1.7
       0.9s     8.12nm          5.0mb
VBEM   90.35  42 P      50 26.62   0.2
MTMW   90.39  41 P      50 26.88   0.4
ERK    90.44  41 P      50 27.49   0.8
SHW    90.46  41 ePc    50 27.62   0.8
TDL    90.54  41 P      50 27.98   0.8
TPNV   90.61  51 (P)    50 27.72  -0.1
       0.9s    11.09nm          5.2mb
VIPM   90.72  43 P      50 28.29   0.1
GMW    90.74  39 ePc    50 28.43   0.5
ASR    90.84  41 P      50 28.60   0.1
RVC    90.96  40 P      50 29.56   0.5
LON    90.97  40 eP     50 28.70  -0.4
WPW    91.11  41 P      50 29.93   0.2
FMW    91.14  40 P      50 30.42   0.4
GSM    91.18  40 P      50 30.59   0.5
MCW    91.24  38 iPc    50 30.99   0.8
RMW    91.29  40 P      50 31.07   0.5
CMW    91.54  39 P      50 32.47   0.8
NAC    91.57  41 P      50 32.23   0.4
ETW    92.25  40 P      50 35.09   0.0
ARUT   93.00  51 eP     50 38.95   0.2
TUC    93.08  57 eP     50 40.08   0.9
       0.8s     4.41nm          4.9mb
MSU    94.19  51 eP     50 44.40   0.1
GBA    94.50 283 P      50 47.00   1.2
HVU    94.91  48 iPc    50 47.31  -0.2
LRM    96.55  44 eP     50 54.60  -0.4
PV08   96.81  52 eP     50 55.77  -0.7
LTX    97.93  62 eP     50 59.91  -1.4
YKA   101.06  28 ePdiff51 14.80   0.2
       0.7s     2.40nm          4.9mb
KHC   143.32 331 ePKP   56 59.90   0.2
                e       57 08.00
                e       59 09.00
GEC2  143.47 331 PKP    56 57.40  -2.6X
       0.7s     0.94nm
                e       57 00.30
GRF   143.93 334 ePKP   56 59.00  -1.7
KBA   144.89 329 iPKPc  57 01.40  -1.2
       1.0s    24.40nm
                i       57 10.70
ENN   145.04 340 ePKP   57 03.50   1.0
       0.9s    14.20nm
                e       57 12.00
FUR   145.06 332 ePKP   56 53.20  -9.5X
                i       57 02.90
                i       57 12.70
DCN   145.39 355 ePKP   57 02.90  -0.1
WTTA  145.57 331 iPKPc  57 03.90   0.1
       0.9s    17.80nm
WLF   145.90 338 PKP    57 06.00   2.1X
DOU   146.05 340 PKP    57 06.40   2.2X
OGA   146.14 331 iPKPc  57 06.30   1.5
CDF   146.53 336 ePKP   57 06.20   1.0
       0.8s    26.60nm
BSF   147.19 336 ePKP   57 07.80   1.5
       1.0s    14.00nm
HAU   147.22 337 ePKP   57 08.10   1.9
       1.0s    19.60nm
FLN   148.69 345 ePKP   57 11.70   3.2X
       0.7s     7.95nm
LOR   148.74 338 ePKP   57 12.10   3.4X
       1.2s    34.80nm
LDF   148.76 344 ePKP   57 11.80   3.2X
LBF   148.94 338 ePKP   57 12.70   3.7X
SSF   149.04 339 ePKP   57 13.00   3.9X
       0.9s    20.00nm
LPL   149.09 333 ePKP   57 13.60   4.0X
       0.8s     5.50nm
LPG   149.09 333 ePKP   57 13.70   4.0X
       1.2s    25.60nm
GRR   149.13 345 ePKP   57 13.00   3.8X
HYF   149.15 340 ePKP   57 12.90   3.6X
LPF   149.51 345 ePKP   57 14.10   4.3X
       1.0s    42.40nm
BGF   149.70 339 ePKP   57 14.60   4.5X
       1.2s    41.35nm
SBF   150.07 331 ePKP   57 15.10   4.2X
       1.0s    43.40nm
MAF   150.09 339 ePKP   57 15.60   4.9X
       1.2s    27.05nm
TCF   150.15 339 ePKP   57 15.70   4.8X
       1.1s    30.50nm
PGF   150.28 327 ePKP   57 15.90   4.6X
       0.9s    39.00nm
LSF   150.41 340 ePKP   57 16.00   4.8X
       1.0s    20.00nm
MFF   150.59 343 ePKP   57 16.50   5.1X
       0.9s    14.90nm
FRF   150.67 331 ePKP   57 16.70   5.0X
       1.0s    20.60nm
LRG   150.88 331 ePKP   57 17.30   5.3X
       1.0s    32.80nm
LMR   150.91 331 ePKP   57 17.20   5.2X
       1.0s    20.80nm
     S.D. = 0.9  on  72 of  98 obs.
-------------------------------------
   OCT  02, 1993  04h 45m 17.37± 0.29s
   18.987 S ± 6.6km  167.628 E ± 8.9km
   DEPTH =  30.7km  (  2 depth phases)
   4.9mb (  8 obs.)
 VANUATU ISLANDS                  (186)

PVC     1.40  28 iP     45 38.80  -2.2
                iS      45 57.00
BKM     1.44  24 iP     45 39.00  -2.5
                iS      45 57.50
DZM     3.26 200 iP     46 04.90  -2.8
                iS      46 42.00
PUZ    21.15 156 eP     50 02.70   0.4
MNG    22.59 164 eP     50 17.20   0.6
BWA    22.98 224 eP     50 19.40  -1.1
CAN    23.16 222 e(P)   50 21.80  -0.4
STK    26.71 236 iP     50 55.80  -0.1
       2.9s     5.20nm          3.6mb X
WR2    31.35 263 eP     51 52.40  14.8X
       0.8s     5.10nm
ASPA   31.71 256 eP     51 36.50  -4.4X
       1.1s    12.20nm          4.7mb
WHN    71.06 313 eP     56 34.50  -0.2
BJI    75.79 322 eP     57 02.00  -0.1
       1.2s     8.00nm          4.6mb
TIY    76.62 318 eP     57 07.20   0.2
XAN    76.82 313 P      57 07.80  -0.4
                sP      57 16.70
KMI    76.85 303 eP     57 09.50   0.7
       1.0s    30.00nm          5.3mb
HHC    79.05 320 P      57 21.30   1.0
       1.0s    14.00nm          4.9mb
BTO    79.84 319 eP     57 25.40   0.7
LZH    81.43 313 eP     57 33.50   0.3
       1.5s    32.00nm          5.1mb
                pP      57 43.00  30km
GTA    85.85 314 eP     57 55.50  -0.1
       1.5s     8.00nm          4.7mb
                pP      58 05.50  31km
                sP      58 11.00
BKS    86.75  48 e(P)   58 00.84   1.0
       1.0s    30.00nm          5.5mb
WDC    87.77  46 iPc    58 05.10   0.4
```

02d 04h

```
ERK     90.52  41 P      58 18.05    0.4
TDL     90.62  41 P      58 18.65    0.5
VIPM    90.80  43 P      58 19.14    0.0
GMW     90.82  39 P      58 19.18    0.3
ASR     90.91  41 P      58 19.56    0.1
WPW     91.19  41 P      58 20.65   -0.1
FMW     91.21  40 P      58 20.96    0.0
RMW     91.37  40 iPd    58 21.17   -0.4
EBG     91.88  41 P      58 24.11    0.2
TUC     93.14  57 iPd    58 30.94    0.9
         0.9s     5.04nm          4.9mb
MSU     94.25  51 (P)    58 34.90   -0.3
HJA    113.38 127 ePKPc  03 47.20   -7.3X
YJA    113.89 126 e(PKP) 04 01.50    5.3X
BRG    141.96 333 i(PKP) 05 05.80   17.9X
GRF    144.01 334 ePKP   04 49.40   -2.1X
BHG    144.73 330 iPKPc  04 51.80   -0.9
KBA    144.96 329 iPKPc  04 52.10   -1.3
         1.0s    23.60nm
LJU    145.07 327 ePKP   04 52.50   -0.9
FUR    145.14 332 ePKP   04 53.20   -0.2
DLF    145.46 354 ePKP   04 54.50    0.8
         1.1s   116.00nm
DCN    145.48 355 ePKP   04 53.40   -0.4
         1.0s    93.00nm
WTTA   145.64 331 iPKPd  04 54.40   -0.2
         1.1s    25.30nm
WLF    145.98 338 iPKPc  04 56.23    1.5
         1.3s    27.50nm
OGA    146.22 331 iPKPc  04 57.20    1.6
CDF    146.61 336 ePKP   04 57.30    1.3
         1.0s    23.80nm
BSF    147.27 336 ePKP   04 58.90    1.8
         0.7s     4.20nm
HAU    147.30 336 ePKP   04 59.10    2.1X
         0.8s     8.35nm
LOR    148.82 338 ePKP   05 03.20    3.8X
         0.9s    12.80nm
LDF    148.84 344 ePKP   05 03.10    3.7X
LBF    149.02 338 ePKP   05 03.80    4.0X
SSF    149.12 339 ePKP   05 04.20    4.3X
         1.2s    30.35nm
LPL    149.17 333 ePKP   05 04.70    4.4X
LPG    149.17 333 ePKP   05 04.80    4.4X
GRR    149.22 345 ePKP   05 04.10    4.1X
SMF    149.36 338 ePKP   05 04.50    4.2X
LPF    149.60 345 ePKP   05 05.10    4.6X
         0.8s    23.50nm
BGF    149.79 339 ePKP   05 05.60    4.7X
         0.9s    16.05nm
MAF    150.17 339 ePKP   05 06.70    5.2X
TCF    150.24 339 ePKP   05 06.80    5.2X
         1.1s    19.80nm
PGF    150.35 327 ePKP   05 07.10    5.1X
         1.0s    37.60nm
LSF    150.49 340 ePKP   05 07.10    5.1X
MFF    150.68 343 ePKP   05 07.80    5.6X
FRF    150.74 331 ePKP   05 07.60    5.2X
         1.0s    24.00nm
LMR    150.98 331 ePKP   05 08.20    5.4X
         1.1s    26.35nm
      S.D. = 1.0  on  41 of  65 obs.
-----------------------------------
   OCT  02, 1993  04h 54m 36.35± 0.63s
   39.480 N ± 5.3km   26.321 E ± 8.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 3.4 (ISK). MD 3.1 (ATH).

PRK      0.24 189 iPbc   54 42.20    0.8
                  eSb    54 46.80
EZN      0.35   1 iPg    54 43.60    0.1
                  iSg    54 49.60
IZM      1.31 146 ePn    55 01.20    0.7
ALN      1.43 352 eP     55 02.48    0.2
                  eS     55 21.00
EDC      1.47  53 ePn    55 03.00    0.1
RDO      1.77 340 ePn    55 07.30    0.1
OUR      1.99 296 eP     55 11.88    1.5
PAIG     2.09 283 eP     55 14.88    3.1X
                  eS     55 40.28
CTT      2.32  43 ePn    55 15.00   -0.2
CIN      2.33 143 eP     55 23.00    7.7X
DMK      2.58  25 iPn    55 17.80   -1.1
SOH      2.64 301 eP     55 22.72    2.9X
                  eS     55 53.56
SRS      2.65 309 eP     55 23.77    3.9X
KNT      3.11 304 eP     55 29.64    3.3X
                  eS     56 06.40
VLI      3.84 225 ePn    55 34.50   -2.2
      S.D. = 1.2  on  10 of  15 obs.
-----------------------------------
   OCT  02, 1993  05h 14m 51.33± 0.57s
   39.677 N ± 6.5km   25.759 E ± 4.9km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                      (365)
      ML 3.6 (ISK), 3.6 (ATH), 3.3
      (THE).

EZN      0.46  71 iPg    15 01.60    0.9
                  eSg    15 09.60
PRK      0.59 137 ePn    15 04.70    1.5
ALN      1.24  10 iPg    15 13.52   -0.8
                  eSg    15 30.36
RDO      1.48 353 ePb    15 15.90   -2.0
OUR      1.51 296 ePb    15 17.88   -0.6
                  eSb    15 38.44
PAIG     1.62 280 iPb    15 19.84   -0.2
                  eSb    15 40.68
IZM      1.73 137 ePn    15 19.70   -2.0
EDC      1.75  67 iPn    15 23.00    1.1
SOH      2.17 303 ePn    15 29.90    1.9
                  eSn    15 56.68
SRS      2.19 312 ePn    15 28.76    0.4
                  eSn    15 57.12
ATH      2.33 224 ePb    15 34.10    3.8X
THE      2.34 295 ePn    15 32.12    1.6
                  eSn    16 02.92
CTT      2.51  53 ePn    15 33.00    0.1
LIT      2.55 281 ePn    15 34.84    1.4
                  eSn    16 07.68
DMK      2.63  35 iPn    15 35.00    0.5
KNT      2.64 305 ePn    15 35.64    0.9
                  eSn    16 08.68
CIN      2.76 138 eP     15 36.00   -0.4
GRG      2.87 298 ePn    15 38.32    0.3
ISK      2.88  60 ePn    15 39.00    0.9
KZN      3.13 283 ePn    15 38.20   -3.5X
HRT      3.20  68 ePn    15 43.60    0.9
VLI      3.70 218 ePn    15 47.30   -2.4
MLR      5.81   1 eP     16 17.00   -2.7
VRI      6.23   6 ePd    16 24.00   -1.5
      S.D. = 1.5  on  22 of  24 obs.
-----------------------------------
*  OCT  02, 1993  05h 29m 43.08± 1.40s
   40.641 N ±11.2km   21.358 E ± 9.1km
   DEPTH =   5.0km  (geophysicist)
 GREECE                          (364)
      ML 2.3 (THE).

FNA      0.14   6 ePg    29 46.10    0.0
                  eSg    29 47.78
OHR      0.63 318 ePg    29 55.70    0.0
                  eSg    30 09.70
GRG      0.85  68 ePg    29 59.22   -0.8
                  eSg    30 09.14
LIT      1.02 122 ePg    30 02.82    0.0
KNT      1.28  65 ePb    30 07.74    0.5
                  eSb    30 17.94
SRS      1.76  74 ePb    30 14.78    0.4
                  eSb    30 37.98
      S.D. = 0.6  on   6 of   6 obs.
-----------------------------------
*  OCT  02, 1993  06h 02m 39.90± 2.81s
   34.725 S ±27.0km   70.782 W ± 9.5km
   DEPTH =  90.0km  (geophysicist)
 CHILE-ARGENTINA BORDER REGION   (127)
      MD 4.0 (SAN).

CACH     0.62  14 iP     02 57.02    0.9
LNV      0.93 326 iP     02 58.61   -0.4
                  iS     03 11.41
TACH     1.08 353 iP     03 00.71   -0.1
                  iS     03 15.06
PCH      1.12  11 iP     03 02.00    0.6
                  iS     03 17.22
SAN      1.27   5 iP     03 03.36    0.2
                  iS     03 19.50
LCCH     1.41 332 iP     03 04.32   -0.5
                  iS     03 21.21
FCH      1.45  16 iP     03 06.47    0.7
                  iS     03 26.07
PEL      1.58   3 iP     03 07.54    0.4
                  iS     03 26.65
ROCH     1.76 354 iP     03 09.28   -0.4
                  iS     03 30.79
IHA      1.84 337 iPd    03 10.60    0.1
                  e(S)   03 28.00
JACH     2.04   4 iP     03 13.32    0.0
                  iS     03 38.09
CFA      3.77  35 e(P)   03 35.50   -1.4
TCA      6.20  59 eP     04 10.60   -0.1
      S.D. = 0.7  on  13 of  13 obs.
-----------------------------------
&  OCT  02, 1993  06h 31m 04.82s
   63.146 N          151.262 W
   DEPTH =  11.8km
 CENTRAL ALASKA                    (  1)
      <AEIC>. ML 3.7 (AEIC), 3.9
      (PMR).

KTH      0.44  20 iP     31 13.38   -0.4
TRF      0.54  55 iP     31 15.13   -0.6
HUR      0.76 102 iP     31 19.15   -0.4
                  eS     31 30.02
CUT      0.87 148 iP     31 21.48    0.1
RND      1.12  75 iP     31 25.46   -0.2
                  eS     31 41.25
SKT      1.18 186 iP     31 26.25   -0.4
                  eS     31 41.83
MCK      1.20  60 iP     31 26.98   -0.1
                  eS     31 43.72
PWA      1.63 156 P      31 34.00    0.6
SUA      1.71 172 eP     31 35.17    0.5
NEA      1.73  33 iP     31 33.50   -1.4
GHO      1.76 141 iP     31 35.18   -0.1
                  eS     31 58.15
DHY      1.77  91 iP     31 35.62    0.0
NCG      1.80 194 eP     31 35.74   -0.2
                  eS     31 59.76
PLRM     1.85 147 iP     31 36.51   -0.1
                  eS     32 02.79
PMR      1.85 147 eP     31 36.11   -0.5
CGLM     1.88 191 eP     31 37.92    0.8
MLY      1.91   7 eP     31 36.58   -0.9
SML      1.91 133 eP     31 37.05   -0.5
CRP      1.93 193 eP     31 37.11   -0.9
CP2      1.94 194 eP     31 38.05   -0.1
                  eS     32 03.98
BGL      1.96 196 eP     31 39.05    0.7
CKN      1.98 193 eP     31 39.28    0.8
CKT      2.00 193 eP     31 39.10    0.2
SPU      2.01 191 eP     31 39.43    0.5
CKL      2.02 195 eP     31 39.63    0.4
PMS      2.07 157 P      31 40.00    0.2
                  S      32 08.30
BKG      2.14 193 eP     31 41.18    0.3
CCB      2.15  44 eP     31 39.42   -1.5
TTA      2.18 266 eP     31 38.54   -2.9
KNK      2.18 142 iP     31 41.72    0.3
SCM      2.25 124 eP     31 43.00    0.5
MDM      2.26  35 eP     31 40.99   -1.6
HDA      2.29  55 eP     31 41.83   -1.2
FBA      2.33  39 ePnc   31 41.75   -1.8
                  ePg    31 45.74
                  eS     32 10.57
NKA      2.41 180 eP     31 47.91    3.2
THY      2.50  81 eP     31 50.22    4.2
GLM      2.51  41 eP     31 44.73   -1.4
                  eS     32 21.14
PTE      2.52 154 eP     31 46.96    0.8
IL1      2.53  48 eP     31 44.81   -1.5
ILB      2.53  48 eP     31 44.78   -1.6
CFI      2.56 139 iP     31 48.10    1.3
TOA      2.57 112 P      31 47.40    0.3
RDT      2.64 192 eP     31 48.95    0.9
PAX      2.64  91 iP     31 48.71    0.6
DJE      2.65  68 eP     31 48.56    0.5
DFR      2.65 195 eP     31 51.57    3.4
PWL      2.68 148 eP     31 49.17    0.6
SLKM     2.69 169 eP     31 49.76    1.0
SDG      2.70 101 eP     31 48.94    0.1
NCT      2.71 198 eP     31 47.42   -1.7
REF      2.75 195 eP     31 48.55   -1.2
RDW      2.77 196 eP     31 51.27    1.2
RS2      2.78 195 eP     31 51.78    1.6
RSO      2.79 195 eP     31 53.66    3.4
MPA      2.82 160 eP     31 51.69    1.3
SVW      2.89 227 ePn    31 49.40   -2.2
                  ePg    31 55.44
TZL      2.92 110 eP     31 52.65    0.8
```

```
KLU     2.99 121 iP    31 53.75   0.7
IM3     3.04 340 iP    31 52.66  -1.0
VLZ     3.07 129 iP    31 54.39   0.4
IMA     3.11 342 eP    31 52.21  -2.5
SEW     3.17 163 eP    31 57.58   2.1
ILIM    3.18 196 eP    31 57.78   2.1
DOT     3.28  78 eP    31 58.04   1.0
PRP     3.45  44 eP    31 58.26  -1.3
HOM     3.51 183 eP    32 02.40   2.2
HIN     3.57 139 eP    32 01.89   0.8
CNPM    3.63 180 eP    32 02.64   0.6
CVA     3.69 132 eP    32 03.10   0.2
TMW     3.74  84 eP    32 04.49   0.8
GLB     3.88 113 iP    32 05.96   0.4
SGAM    3.91 130 eP    32 07.37   1.4
BC3     4.31  87 eP    32 11.14  -0.5
HMT     4.36 127 eP    32 11.46  -0.9
CDD     4.39 196 eP    32 13.22   0.5
BALM    4.69 113 eP    32 16.54  -0.7
BM3     5.12  30 eP    32 20.09  -3.0
CTGM    5.16 111 eP    32 23.84   0.1
YAH     5.31 117 eP    32 26.79   0.7
WRG     5.40 121 eP    32 27.97   0.9
INK     8.93  47 eP    33 16.50   0.1
       0.9s     2.00nm          4.4mb X
       81 obs. associated
-----------------------------------
? OCT  02, 1993  06h 39m 48.65± 1.26s
   31.615 S ±32.7km   68.003 W ± 9.5km
   DEPTH =  33.0km  (normal)
 SAN JUAN PROVINCE, ARGENTINA     (137)

CFA     0.20 272 iPc   39 54.80  -0.5
                S      39 58.80
RTLL    0.49 305 iPc   39 59.00  -0.2
                S      40 07.20
RTCB    0.69 280 iPd   40 02.70   0.6
                S      40 10.70
TCA     2.93  85 iP    40 34.10   0.1
                i      40 39.00
                (S)    41 15.50
     S.D. = 0.9  on   4 of   4 obs.
-----------------------------------
   OCT  02, 1993  06h 52m 52.22± 0.93s
    1.592 N ± 4.3km  126.770 E ± 9.7km
   DEPTH = 100.8 ±  9.7 km
   5.2mb ( 18 obs.)
 NORTHERN MOLUCCA SEA             (266)

CTB     6.13 335 ePd   54 23.00   1.1
                eS     55 32.00
CGP     7.12 343 eP    54 35.50   0.0
                eS     54 53.50
MAP     9.11 342 eP    55 03.00   0.4
PLP     9.68 349 ePd   55 09.50  -0.8
PPR    11.40 316 ePc   55 45.00  11.7X
GQP    12.96 341 ePc   56 05.00  11.2X
PGP    13.16 334 eP    56 02.00   5.6X
TRT    16.85 237 ePc   56 48.90   5.5X
KNA    17.34 174 iPc   56 49.60   0.2
       0.8s   182.00nm          5.4mb
WR2    22.67 161 iPd   57 45.20  -0.7
       0.3s    80.10nm          5.5mb
                eS     01 40.90
QIS    25.35 151 iPc   58 11.80   0.2
ASPA   26.05 165 iPd   58 17.10  -0.9
       0.3s    29.60nm          5.3mb
                i      58 23.20
                i      02 48.90
                ePcP   03 07.90
NANU   26.39 204 iPc   58 21.60   0.5
       0.4s    10.00nm          4.7mb
NNT    28.93 293 eP    58 42.80  -1.3
MEEK   29.15 195 iPc   58 45.20  -0.8
       1.0s   100.00nm          5.4mb
NJ2    31.20 347 P     59 04.50   0.5
GYA    31.38 324 P     59 05.40  -0.4
CHTO   32.20 304 iPd   59 12.30  -0.6
       0.9s    20.25nm          4.9mb
MRWA   32.32 198 iPc   59 13.90   0.0
       0.3s    11.00nm          5.1mb
KMI    32.94 317 Pc    59 20.00   0.5
       1.5s    50.00nm          5.1mb
BAL    33.42 196 eP    59 23.00  -0.4
KLB    34.09 194 eP    59 29.10   0.0
NWAO   35.49 194 eP    59 41.00  -0.1
TIA    35.59 347 eP    59 42.00   0.2
STK    36.14 158 iPc   59 45.40  -1.1
       0.4s    10.40nm          5.1mb
                i      01 10.90
CD2    36.40 326 P     59 48.20  -0.6
ADE    38.05 164 iPd   00 03.20   0.6
BRS    38.17 141 e(P)  59 47.00 -16.7X
TIY    38.29 342 Pc    00 05.00   0.4
BJI    39.46 347 eP    00 14.00  -0.2
       1.2s    37.00nm          5.1mb
ARMA   39.68 145 iPd   00 16.20  -0.1
       0.9s    21.00nm          5.0mb
SNY    40.16 356 Pd    00 19.50  -0.3
LZH    40.37 331 eP    00 22.00   0.1
       1.5s    66.00nm          5.2mb
                pP     00 31.00  30kmX
HHC    41.43 343 Pd    00 30.80   0.3
       1.0s    60.00nm          5.4mb
                sP     00 44.00
BTO    41.69 341 eP    00 30.40  -2.2
TOO    42.65 158 iPd   00 41.30   0.9
MDJ    42.91   3 eP    00 41.50  -0.9
LSA    43.90 313 iPc   00 51.80   0.6
       0.8s    13.00nm          4.8mb
GTA    44.95 330 eP    00 59.00   0.0
       1.5s    19.00nm          4.7mb
                PcP    02 39.00
HYB    49.90 291 eP    01 37.00  -0.9
       1.0s    35.00nm          5.3mb
GBA    50.22 286 Pd    01 39.00  -1.2
WMQ    54.50 326 P     02 12.30   0.5
KSH    59.55 316 P     02 49.50   1.8
       1.0s    45.00nm          5.6mb
CSY    68.72 187 eP    03 48.30   1.6
       0.7s    22.60nm          5.1mb
MJMA   81.64 296 iPc   05 02.00   1.0
UQSK   84.28 296 eP    05 16.00   1.4
OBN    88.80 325 eP    05 30.00  -5.9X
RTCB  146.83 155 iPKPc 12 25.50   2.5X
TCA   148.52 161 ePKP  12 29.90   4.2X
     S.D. = 0.9  on  41 of  49 obs.
-----------------------------------
&  OCT  02, 1993  08h 30m 43.87s
   35.400 N          117.823 W
   DEPTH =   4.8km
 CENTRAL CALIFORNIA                ( 39)
     <PAS-P>. ML 2.8 (PAS).

GSC     0.84  96 ePc   30 59.58  -1.1
SSK     1.19 175 iPc   31 05.77  -0.9
                eS     31 23.07
ABL     1.27 245 eP    31 07.12  -1.0
                eS     31 23.00
PEC     1.60 160 eP    31 11.83  -1.1
                eS     31 34.05
BCH     1.86 264 eP    31 16.67  -0.2
TPNV    2.00  39 eP    31 17.40  -1.5
                ePg    31 21.26
                eS     31 45.76
PLM     2.19 158 eP    31 21.11  -0.6
                eS     31 51.74
MEMM    2.43 339 ePd   31 28.30   3.4
                eS     32 00.30
BONR    2.58 352 eP    31 31.01   3.7
TNP     2.72  10 eP    31 33.41   4.2
       10 obs. associated
-----------------------------------
   OCT  02, 1993  08h 30m 53.05± 1.00s
   60.406 N ± 4.5km    4.951 E ± 9.1km
   DEPTH =   5.0km  (geophysicist)
 SOUTHERN NORWAY                   (535)
     MD 1.8 (BER).

ASK     0.14  57 eP    30 56.18   0.2
                eS     30 58.51
BER     0.19  97 eP    30 56.85  -0.1
EGD     0.19 135 iPc   30 56.70  -0.3
                eS     30 59.63
HYA     0.97  38 eP    31 12.17   0.2
                eS     31 26.42
ODD1    0.97 120 eP    31 12.20   0.1
                eS     31 26.35
FOO     1.20   2 eP    31 15.65  -0.1
                eS     31 34.67
KMY     1.21 173 eP    31 16.15   0.2
                eS     31 32.33
BLS5    1.24 142 eP    31 29.84  13.2X
                eS     31 46.53
MOL     2.50  29 eP    31 34.86  -0.2
                eS     32 05.44
NRA0    3.27  81 ePn   31 49.85   3.9X
                ePg    31 52.48
                eLg    32 33.70
     S.D. = 0.2  on   8 of  10 obs.
-----------------------------------
   OCT  02, 1993  08h 42m 32.71± 0.10s
   38.190 N ± 2.6km   88.663 E ± 1.7km
   DEPTH =  14.1km  (geophysicist)
   6.2mb (181 obs.)  6.3Msz ( 54 obs.)
 SOUTHERN XINJIANG, CHINA          (321)
      Mw 6.0 (GS), 6.1 (HRV). Ms 5.8
      (BRK). Two events about 1.5
      seconds apart. Depth from
      broabband displacement
      seismograms, based on second
      event.
      FAULT PLANE SOLUTION: P-Waves
       NP1:Strike=315 Dip=45 Slip= 115
       NP2:        102     50        67
       Principal Axes:
        T                Plg=72  Azm=306
        P                   3      208
      Comment: The focal mechanism is
        poorly controlled and
        corresponds to reverse
        faulting with a moderate
        right-lateral strike-slip
        component. The preferred
        fault plane is NP2.
      RADIATED ENERGY
       No. of sta:   8  Focal mech.  F
       Energy        2.5±0.6*10**13 Nm
      MOMENT TENSOR SOLUTION
      Dep  12            No. of sta: 11
      Moment Tensor;   Scale 10**18 Nm
        Mrr= 1.14        Mtt=-1.11
        Mff=-0.04        Mrt= 0.43
        Mrf= 0.27        Mtf= 0.53
       Principal axes:
        T  Val=  1.32  Plg=69  Azm=310
        N        0.04     19      108
        P       -1.36      7      201
      Best Double Couple:Mo=1.3*10**18
       NP1:Strike=311 Dip=42 Slip= 120
       NP2:        94     55        66
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 42S, 90C  M.W.: 27S, 41C
      Centroid Location:
      Origin Time        08:42:38.8 0.2
      Lat 38.16N 0.01 Lon  88.82E 0.02
      Dep  15.0 BDY Half-duration  2.6
      Moment Tensor;   Scale 10**18 Nm
        Mrr= 0.92 0.01  Mtt=-1.03 0.01
        Mff= 0.11 0.01  Mrt= 0.92 0.06
        Mrf= 0.64 0.06  Mtf= 0.73 0.01
       Principal Axes:
        T  Val=  1.75  Plg=52  Azm=309
        N       -0.22     34       98
        P       -1.53     15      198
      Best Double Couple:Mo=1.6*10**18
       NP1:Strike=326 Dip=42 Slip= 146
       NP2:        82     68        53

WMQ     5.67 353 iPnc  43 59.00   0.4
    N  12s   506.00um
                Sn     45 02.00
LSA     8.72 166 Pd    44 45.00   3.4X
       1.8s  3400.00nm          7.3mb X
    Z  13s    94.90um
    N  11s    53.40um
    E  11s    52.10um
GTA     8.79  79 iPd   44 41.00  -1.4
       2.0s   270.00nm          6.2mb
    Z  14s   116.00um
    E  10s   132.00um
TLG     9.95 304 iP    44 58.00  -0.2
KSH     9.98 281 Pd    44 58.50  -0.3
       0.9s   860.00nm          7.2mb
    N  10s   191.00um
    E  10s   247.00um
                S      46 56.00
GUN    10.51 194 P     45 06.20  -0.1
KKN    10.75 196 P     45 08.80  -0.6
DMN    10.97 197 P     45 11.60  -0.8
```

02d 08h

```
FRU    11.65 298 iP    45 19.80  -1.7
        2.0s   150.00nm          5.9mb
     Z  16s   250.00um
     N  16s   220.00um
     E  16s   250.00um
AAK    11.68 297 ePc   45 20.58  -1.4
LZH    12.30  95 eP    45 27.93  -2.4
        1.6s  1400.00nm          7.0mb
     Z  15s   121.18um          6.1MszX
     E  10s   206.10um
                PP     45 37.00
                S      47 40.00
                sS     47 50.00
                SS     47 55.00
NDI    13.45 229 iPd   45 45.00  -0.5
        0.7s   171.23nm          6.2mb
CD2    14.39 116 Pc    45 59.80   1.8
                PP     46 10.00
                S      48 43.00
                SS     48 58.00
ZAK    16.03  36 iPd-  46 17.30  -1.7
        1.9s  1209.00nm          5.7mb
     N  13s    64.65um
BTO    16.68  75 iPd   46 25.00  -2.6
        1.2s    87.00nm          4.8mb X
     N  10s    25.50um
     E  10s    16.90um
                sP     46 31.00
XAN    16.88  98 eP    46 26.59  -3.5X
        1.4s    73.00nm          4.6mb X
     Z  14s    85.00um          4.7Msz
     N  12s    51.30um
     E  12s    54.10um
                PP     46 41.00
KMI    17.67 133 ePd   46 39.73  -0.4
        2.0s  1590.00nm          5.8mb
     Z  20s    93.30um          4.3MszX
     N  10s    37.80um
     E  10s    46.10um
IRK    17.82  33 ePd   46 41.00  -0.7
HHC    17.86  74 Pc    46 40.60  -1.7
        1.4s    99.00nm          4.7mb X
                pP     46 47.00
TIY    18.75  84 Pc    46 49.80  -3.4X
        1.0s   490.00nm          5.7mb
     Z  11s    64.50um
     N  12s    46.80um
                S      50 14.00
GYA    19.15 122 iPc   46 56.40  -1.8
        1.0s   140.00nm          5.2mb X
     Z  12s    33.20um
     N  12s    46.30um
     E  12s    55.70um
                S      50 26.00
                SS     50 54.00
CHTO   21.29 152 eP    47 19.85  -1.2
        2.0s   697.67nm          5.7mb
     Z  20s    93.30um          6.2Msz
     N  10s    37.80um
     E  10s    46.10um
                eS     51 15.00
BJI    21.40  76 ePc   47 21.85  -0.1
        1.4s    40.00nm          4.6mb X
     E  18s    24.10um
CIT    22.23  44 eP    47 31.00   0.7
     Z  12s    66.27um          6.3MszX
     N  12s    47.28um
     E  12s    52.89um
                eS     51 34.00
WHN    22.49 102 ePc   47 33.00   0.1
        1.0s   560.00nm          6.0mb
     Z  16s   123.00um          6.4MszX
     N  14s    81.30um
     E  15s    36.70um
                pP     47 40.50  27kmX
HYB    22.51 206 ePd   47 32.00  -1.3
        1.8s  1437.50nm          6.2mb
                e      48 02.40 154kmX
                eS     51 26.00
TIA    22.72  86 P     47 35.80   0.6
     Z  21s   114.00um          6.3Msz
     N  12s   105.00um
     E  12s    56.60um
                pP     47 45.50  36kmX
BDT    22.75 154 eP    47 36.80   1.2
        1.1s   299.60nm          5.7mb
MAIO   23.26 274 iPc+  47 42.50   1.9
                eSn    52 00.00
POO    23.47 218 iPd   47 49.70   7.1X
        1.0s   244.00nm          5.7mb
LOE    23.66 147 iPc   47 45.90   1.4
ASH    23.82 279 Pc    47 48.00   2.1
        2.4s  8220.00nm          6.9mb
     Z  11s    66.40um          6.4MszX
     E  11s    59.56um
                i      48 20.00 160kmX
                e      48 28.00
                e      51 34.00
                S      52 00.00
                iSS    52 52.00
                i      53 08.00
ABKT   24.00 279 ePc   47 49.73   2.0
NST    24.61 153 eP    47 54.50   0.9
HIA    24.87  54 ePc   47 56.66   0.7
KHT    24.91 157 iPd   47 57.70   1.1
NJ2    25.38  95 Pd    48 01.20   0.3
        1.0s   190.00nm          5.7mb
     N  13s    74.60um
     E  14s    29.00um
                pP     48 07.00  21kmX
DL2    25.72  78 iPc   48 05.00   1.0
        1.0s   440.00nm          6.1mb
     Z  14s    26.80um          5.9MszX
     N  12s     8.32um
     E  12s    43.30um
                S      52 32.00
GZH    25.92 118 P     48 05.60  -0.4
     Z  17s    31.70um          5.9MszX
     N  10s    33.10um
                iS     52 34.00
SVE    26.26 324 iPc+  48 09.00   0.1
        2.0s  1900.00nm          6.4mb
                e      48 52.00 219kmX
                iS     52 42.00
GBA    26.44 205 Pd    48 09.30  -1.6
        0.7s    50.00nm          5.3mb
QIZ    26.54 130 Pc    48 13.20   1.4
     N  13s    31.40um
     E  13s    26.00um
                S      52 44.00
SNY    26.88  71 iPc   48 14.00  -0.7
        1.0s   120.00nm          5.5mb
     Z  13s    31.50um          6.1MszX
     N  12s    17.90um
     E  12s    41.70um
                pP     48 23.60  34kmX
                sP     48 27.20
                S      52 44.00
                sS     52 56.00
ARU    27.01 322 iPc+  48 17.00   1.2
        2.5s  3500.00nm          6.6mb
     Z  16s    77.00um          6.4MszX
     N  14s    60.00um
     E  16s    50.00um
                e      49 06.00 253kmX
                e      49 19.00
                e      51 34.00
                eS     53 00.00
                e      53 04.00
                e      54 01.00
HKC    27.01 119 eP    48 16.00  -0.1
                S      52 58.00
NNT    27.34 156 eP    48 19.00  -0.1
SSE    27.58  95 ePc   48 21.15   0.0
        1.0s    63.00nm          5.3mb
     Z  19s    39.30um          6.0Msz
     N  15s    64.60um
     E  14s    21.10um
CN2    28.16  67 eP    48 25.00  -1.4
        1.0s    20.00nm          4.8mb X
     Z  16s    34.10um          6.0MszX
     N  12s    38.20um
     E  12s    39.90um
                epP    48 34.00  32kmX
                PP     49 08.00
                eS     53 03.00
QZH    28.58 109 Pc    48 27.00  -3.3X
     Z  16s    40.30um          6.1MszX
     N  16s    64.40um
     E  16s    53.20um
                sP     48 41.00
                S      53 18.00
KOD    29.60 203 eP    48 38.00  -1.8
                eS     53 36.00
TEH    29.76 277 e(P)  48 47.00   6.0X
BAK    29.92 287 iP    48 46.00   3.8X
SHI    31.02 265 eP    48 52.00  -0.2
MDJ    31.11  65 ePc   48 52.43  -0.2
        1.5s   300.00nm          6.0mb
     Z  11s    49.30um          6.4MszX
     N  14s    73.50um
                ec     48 53.83   5kmX
                ed     48 57.39
                e      48 59.46
NRI    31.27 360 iPc+  48 52.00  -1.8
        1.2s   459.00nm          6.2mb
                e      50 00.00 360kmX
                e      51 46.00
                iS     53 59.00
GRO    32.68 293 iPc+  49 07.00   0.6
        2.0s  3360.00nm          6.9mb
     N  18s    75.00um
     E  14s    55.00um
                i      50 11.00 331kmX
SNG    32.72 158 eP    49 07.00   0.1
        1.8s   936.36nm          6.4mb
                eS     54 28.00
VLA    32.89  67 iPc-  49 07.50  -0.7
        1.0s   225.00nm          6.1mb
                i      50 19.00 378kmX
                i      51 51.00
                iS     54 24.00
                iSS    56 29.00
                i      59 30.00
TAB    33.09 283 iP+   49 12.00   1.8
KER    33.52 276 eP    49 17.00   3.0X
MTA    33.54 290 eP    49 15.00   1.1
        0.8s   130.00nm          5.9mb
     Z  15s    15.00um          5.8MszX
     N  15s    15.00um
     E  15s    25.00um
                e      50 27.00 379kmX
                ePPP   50 43.00
                e      51 56.00
                iS     54 45.00
ERE    34.03 287 iP    49 19.00   0.7
                iS     54 51.00
SHNJ   34.29  84 eP    49 19.80  -0.7
DHR    34.44 261 eP    49 21.50  -0.3
PYA    34.50 295 iPc   49 22.00  -0.2
        2.0s  1650.00nm          6.6mb
                i      50 32.00 367kmX
                iS     54 52.00
                iSSS   57 07.00
YAK    34.60  33 iPc+  49 21.50  -1.3
        2.0s  2099.00nm          6.7mb
     Z  16s    39.90um          6.3MszX
     N  13s    23.60um
     E  13s    27.20um
                e      50 36.00 396kmX
                iPPP   50 53.00
                iS     54 42.00
                eSS    57 09.00
KUMJ   34.62  86 P     49 22.30  -1.1
KIV    34.78 294 ePc   49 24.90   0.2
                ic     49 27.39   9kmX
                ec     49 30.70
                e      49 33.26
KAGJ   35.18  88 P     49 27.40  -0.8
SHK    35.39  82 eP    49 31.00   1.1
CVP    35.42 116 ePc   49 33.20   2.9
YONJ   35.79  81 P     49 33.30   0.0
TKSJ   36.64  82 eP    49 41.70   1.3
SOC    36.96 294 iPd+  49 45.00   2.0
        2.0s   200.00nm          5.6mb
     Z  14s    38.00um          6.3MszX
     E  14s    40.00um
                eSSS   57 50.00
TGY    37.30 121 ePd   49 50.00   3.8X
TSRJ   37.63  79 eP    49 50.60   1.8
PGP    37.74 122 ePc   49 50.00   0.1
WKYJ   37.76  81 P     49 50.90   0.9
RYD    37.99 262 eP    49 51.00  -0.9
MOS    38.00 314 iPc   49 53.00   1.4
        2.0s   224.00nm          5.6mb
     Z  22s   116.00um          6.6Msz
     N  20s    34.00um
     E  20s    93.00um
                e      51 23.00 494kmX
                eS     55 46.00
MJMA   38.45 264 iPc   49 55.07  -0.7
```

```
GQP    38.46 120 eP    50 01.00   5.1X
ANN    38.48 297 iPc+  49 56.00   0.2
       2.0s   765.00nm          6.1mb
     Z 15s     44.00um          6.4MszX
     N 16s     70.00um
     E 16s     60.00um
                ipP    51 24.00 476kmX
                iS     55 55.00
OBN    38.53 313 iPc   49 56.80   0.8
       2.4s  4738.70nm          6.8mb
     Z 17s   *******um          9.6MszX
                ePP    51 28.40
                e      51 56.40
                (S)    55 40.80
                e      55 54.30
                (SS)   58 12.20
                e      58 36.70
MTMJ   38.71  77 eP    49 58.50   0.5
MAJO   39.04  77 eP    49 58.78  -1.8
       0.9s    43.82nm          5.1mb X
                ec     50 00.02   4kmX
                ed     50 03.25
                ed     50 06.23
MAT    39.04  77 (P)   49 59.00  -1.6
       1.2s    31.25nm          4.9mb X
                eS     55 58.00
PPR    39.10 128 ePd   50 02.00   0.8
IIDJ   39.14  78 eP    50 02.10   0.6
TIK    39.22  19 iPc+  50 02.00   0.4
       1.5s   390.00nm          5.9mb
                i      51 30.00 474kmX
                eS     55 59.00
                iSS    58 46.00
                e      00 05.00
NIIJ   39.43  75 eP    50 03.20  -0.6
MRRJ   39.67  67 eP    50 07.80   2.1
QASM   39.72 266 iPc   50 06.00  -0.4
SAP    39.73  66 eP    50 08.00   1.8
CHJJ   39.79  77 eP    50 09.00   2.2
YAMJ   39.95  74 P     50 06.70  -1.4
YSS    40.05  59 ePc   50 08.53  -0.2
       1.0s    70.00nm          5.3mb
     Z 14s     32.40um          6.3MszX
     N 14s     18.00um
     E 14s     36.50um
                ec     50 09.52   3kmX
                ed     50 13.83
                ed     50 16.64
                i      51 46.00
                e      52 15.00
                iS     56 17.00
                eSS    59 04.00
                e      00 18.00
KVT    40.12 291 iP    50 09.00  -0.5
GAZ    40.30 285 eP    50 12.60   1.6
ASAJ   40.46  64 eP    50 12.90   0.7
KAKJ   40.65  76 eP    50 15.40   1.6
SIM    40.71 298 eP+   50 15.00   0.8
     Z 18s     49.00um          6.4Msz
     N 18s     24.00um
     E 18s     30.00um
                e      51 50.00 523kmX
                ePPP   52 16.00
                eS     56 26.00
                eSS    59 26.00
UQSK   40.78 266 iPc   50 16.33   1.1
OFUJ   40.92  72 P     50 16.60   0.6
AFIF   40.98 263 iPc   50 19.67   2.8
ERM    41.27  67 ePc   50 18.65  -0.2
                ec     50 19.81   4kmX
                ed     50 23.70
HOOJ   41.28  66 eP    50 17.20  -1.7
BZK    41.40 293 eP    50 22.10   2.2
KAS    41.72 292 eP    50 25.50   2.9X
LVZ    41.83 333 ePc   50 23.49   0.3
                ic     50 24.98   5kmX
                ed     50 29.45
                e      50 31.52
KMSA   41.98 258 iPc   50 24.00  -1.0
MAP    42.07 122 ePc   50 27.00   1.3
KUSJ   42.14  65 eP    50 26.60   0.6
BHL    42.59 281 Pc    50 28.00  -2.0
                PP     52 02.00
                S      56 30.00
SALJ   43.29 278 Pd    50 37.20   1.6
MASJ   43.38 278 Pc    50 38.00   1.7
FAM    43.47 283 eP    50 39.50   2.6
```

```
LISJ   43.76 278 Pd    50 36.80  -2.5
MNK    43.81 312 eP    50 38.00  -1.4
       1.5s   882.00nm          6.3mb
     Z 20s     78.90um          6.6Msz
     N 16s     17.20um
     E 20s     61.90um
                e      52 16.00 535kmX
                e      52 25.00
                eS     57 06.00
                eSS    00 18.00
JRDJ   43.83 277 Pd    50 42.00   1.9
KUR    43.88  61 (P)   50 34.00  -6.1X
     Z 14s     20.00um          6.2MszX
     N 14s     27.00um
     E 14s     20.00um
                eS     57 04.00
                eSS    00 38.00
KIS    43.93 302 iP+   50 40.00  -0.4
     Z 17s     41.40um          6.4MszX
     N 18s     31.70um
                i      52 24.00 585kmX
                iS     57 14.00
                i      00 24.00
CSS    44.00 283 eP    50 43.00   1.7
SHWJ   44.10 276 Pd    50 44.80   2.4
MDRJ   44.25 275 Pd    50 45.80   2.3
DHJN   44.33 255 iPc   50 44.67   0.2
KAF    44.33 323 iP    50 43.90   0.3
       0.7s   229.80nm          6.1mb
CTB    44.53 125 ePc   50 50.00   4.3X
GPA    44.53 292 iP    50 47.00   1.4
ABHA   44.55 257 iPc   50 48.53   2.4
EYL    44.57 292 iP    50 45.60  -0.3
PPCY   44.78 284 eP    50 48.00   0.5
CFR    44.80 299 eP    50 48.00   0.5
SDF    44.80 331 iP    50 57.10   9.8X
HRT    44.85 293 iP    50 48.50   0.4
KEV    44.98 334 ePc   50 49.14   0.5
       0.8s   304.89nm          6.3mb
                ic     50 50.71   5kmX
                ed     50 55.35
                ed     50 57.25
ALT    45.05 290 eP    50 49.10  -0.7
NUR    45.10 321 iP    50 49.90   0.1
       1.0s   438.90nm          6.3mb
     Z 16s     54.00um          6.6MszX
                ePP    52 36.00
                eS     57 40.00
                LR     11 40.00
BCK    45.21 288 eP    50 50.00  -1.1
ISK    45.22 293 iP    50 51.60   0.6
DAV    45.51 123 eP-   50 52.00  -1.5
PTT    45.60 302 eP    50 48.00  -6.0X
VRI    45.61 300 ePc   50 55.50   1.4
CTT    45.65 294 eP    50 54.00  -0.4
KHL    45.72 289 iP    50 54.50  -0.6
DMK    45.94 295 iP    50 56.30  -0.4
ELL    45.97 287 iP    50 57.00  -0.1
KTK1   46.18 333 eP    50 50.39  -7.8X
MLR    46.24 300 iPc   51 00.10   1.0
EDC    46.30 293 iP    51 00.50   1.0
BUC    46.40 299 ePc   51 03.00   2.7
BUC1   46.47 298 ePd   51 00.00  -0.8
LVV    46.55 306 iP+   51 02.00   0.6
                i      52 47.00 580kmX
                ePPP   53 35.00
                iS     57 56.00
                iPS    58 04.00
                e      00 53.00
MFT    46.59 293 eP    51 01.00  -0.9
CMP    46.91 300 iPc   51 07.00   2.7
CIN    47.04 289 iPc   51 06.00   0.6
ALN    47.45 294 eP    51 08.72   0.2
HLW    47.58 278 eP+   51 12.00   2.2
                e      53 03.40 629kmX
                e      55 06.00
                eS     58 08.00
                eSS    01 05.70
EZN    47.59 292 iP    51 09.70   0.0
RDO    47.73 294 eP    51 11.90   1.1
TRO    47.76 334 eP    51 10.71   0.1
PRK    47.82 292 eP    51 11.80   0.3
UZH    47.91 305 iPc+  51 13.00   0.9
     Z 16s     71.00um          6.7MszX
     E 16s     75.00um
                i      53 04.00 623kmX
                iPPP   53 58.00
```

```
                iS     58 14.00
CEI    48.03 304 eP    51 18.00   4.9X
LEM    48.14 154 ePc   51 17.00   2.6
                eS     58 26.00
                eLR    02 22.00
DEV    48.20 301 ePd   51 16.00   1.6
GZR    48.42 301 ePd   51 16.50   0.3
UPP    48.64 321 iPc   51 17.50  -0.1
       1.0s  1200.00nm          6.9mb
                iPP    53 10.60
                iS     58 24.00
SPC    49.09 306 iP    51 22.30   0.8
                ipP    51 49.80 117kmX
                iPP    53 16.50
OUR    49.11 294 eP    51 21.68   0.2
OJC    49.13 308 iPd   51 21.60   0.1
       1.4s   800.00nm          6.6mb
                i      51 57.10 156kmX
                i      53 16.60
                iS     58 26.60
SRS    49.13 295 eP    51 21.28  -0.4
BZS    49.14 301 iPc   51 14.00  -7.6X
PET    49.19  49 eP    51 20.00  -1.9
       1.0s    90.00nm          5.7mb
     Z 16s     65.50um          6.7MszX
     N 15s     19.70um
     E 15s     47.00um
                e      52 43.00 415kmX
                e      53 20.00
                eS     58 28.00
SOH    49.40 295 iP    51 22.80  -1.0
PAIG   49.47 294 eP    51 24.04  -0.2
KNT    49.62 295 eP    51 25.16  -0.2
LOF    49.71 332 eP    51 24.67  -1.0
THE    49.74 295 eP    51 26.60   0.3
NPS    49.75 287 eP    51 26.00  -0.5
GRG    50.04 295 eP    51 28.08  -0.6
ATH    50.14 291 eP    51 31.20   1.8
                eS     58 44.80
RAC    50.16 308 eP    51 30.00   0.6
                e      51 33.00  10kmX
                e      53 28.00
                e      58 40.00
LIT    50.27 294 iP    51 29.61  -0.8
KBS    50.28 346 eP    51 30.00   0.0
BUD    50.33 304 eP    51 30.80   0.1
SKO    50.38 297 iPc   51 31.20   0.0
       1.3s   500.00nm          6.3mb
     Z 19s    22.48um          6.2Msz
                i      51 39.80  29kmX
                i      53 29.70
                iPP    53 38.00
                i      53 48.80
                eS     59 02.00
                LR     16 14.00
SLL    50.68 322 eP    51 32.80  -0.5
       0.7s   152.60nm          6.0mb
NSS    50.69 327 eP    51 32.32  -0.9
SRO    50.70 305 iP    51 25.00  -8.5X
                i(pP)  51 51.70 113kmX
KZN    50.71 295 eP    51 34.10   0.2
VAM    50.76 288 eP    51 33.80  -0.4
AGG    50.77 293 eP    51 33.24  -1.0
FNA    50.83 295 eP    51 33.88  -0.8
BSD    50.91 315 iP    51 34.50  -0.5
       1.0s   172.00nm          5.9mb
OHR    51.12 296 iP    51 32.80  -4.2X
       1.2s   150.00nm          5.8mb
                i      52 04.00 134kmX
                e      53 39.70
KSP    51.14 309 iPc   51 37.20   0.3
       1.6s   610.00nm          6.3mb
                iPP    53 33.00
                eS     59 01.50
IVA    51.16 298 iPc   51 37.88   0.7
PHP    51.18 297 iPc   51 35.00  -2.3
VLI    51.18 290 eP    51 34.50  -2.9
PVY    51.20 298 iPc   51 37.78   0.2
BCI    51.21 298 iP    51 39.40   1.9
KBN    51.30 295 eP    51 35.50  -2.8
PLE    51.35 299 iPc   51 39.59   0.8
ZST    51.37 306 iP    51 28.50 -10.1X
                ipP    51 46.20  70kmX
                i      52 02.10
                iPP    53 39.00
                e(S)   58 51.30
NRA0   51.50 322 iPd   51 39.20  -0.3
```

02d 08h

```
                 S     59 02.90
                 PS    59 10.70
NRE0   51.50 322 iPc   51 43.40   4.0X
                 PP    53 43.10
                 S     59 05.70
                 SS    02 44.50
NB2    51.60 323 P     51 39.50  -0.8
       1.2s   958.70nm          6.6mb
TIR    51.70 297 eP    51 41.70   0.5
LACI   51.71 297 eP    51 41.50   0.2
SDA    51.71 298 iPd   51 43.00   1.7
TTG    51.75 298 iPc   51 41.50  -0.1
NAO    51.82 322 P     51 40.09  -1.8
VKA    51.85 306 iPc   51 42.00  -0.3
       3.0s  2776.00nm          6.7mb
     Z  16s    25.70um          6.4MszX
                 i     51 52.20  34kmX
                 iPP   53 45.40
                 LR    19 00.00
ULC    51.92 298 iPc   51 42.28  -0.6
IGT    52.02 294 eP    51 41.60  -2.1
BRY    52.08 299 iPc   51 44.15  -0.2
BDV    52.10 298 iPc   51 43.86  -0.4
SRN    52.13 295 eP    51 41.40  -3.1X
HCY    52.27 298 iPc   51 45.33  -0.2
VLO    52.28 296 eP    51 49.00   3.4X
KEK    52.34 295 eP    51 46.80   0.7
VLS    52.35 293 eP    51 44.10  -2.1
PRU    52.45 308 Pc    51 46.90   0.1
       1.7s  1900.00nm          6.7mb
                 i     51 53.60  22kmX
                 PP    53 46.60
                 S     59 13.10
                 sS    59 23.20
BRNL   52.47 312 ePc   51 57.40  10.5X
BRG    52.56 310 iPc   51 47.80   0.2
       2.0s   440.00nm          6.0mb
     Z  19s    62.00um          6.7Msz
     N  19s    42.00um
     E  19s    54.00um
                 iS    59 26.00
BRN    52.56 312 eP    51 48.00   0.4
KONO   52.68 321 ePc   51 40.15  -8.2X
                 ic    51 41.80   5kmX
                 ed    51 45.53
                 ed    51 46.94
                 e     51 48.34
PTJ    52.82 303 iPc   51 49.30  -0.5
ZAG    52.83 303 iPc   51 49.50  -0.2
MOL    52.98 325 eP    51 49.85  -0.7
CLL    53.00 310 iPc   51 50.50  -0.4
       1.7s   810.00nm          6.4mb
     Z  18s    33.00um          6.4Msz
                 i     51 55.60  17kmX
                 eS    59 24.00
KMR    53.30 306 iP+   51 53.40   0.2
                 iPP   53 54.20
KHC    53.31 308 iPc   51 53.60   0.3
       1.0s   150.00nm          5.9mb
     N  16s    10.00um
     E  16s    23.00um
                 pP    51 59.50  19kmX
                 e     52 12.00
                 PP    53 58.50
                 e     59 32.00
AAE    53.32 250 P     51 54.60   0.6
GEC2   53.32 307 P     51 53.30  -0.1
       1.5s   304.39nm          6.1mb
                 e     51 56.70  11kmX
VBY    53.42 303 iPc   51 53.80  -0.2
LCI    53.42 296 P     51 53.84  -0.2
HVAR   53.43 300 iP    51 53.60  -0.5
MUD    53.71 317 iPd   51 55.50  -0.4
       1.0s   280.00nm          6.2mb
LJU    53.71 304 ePc   51 55.50  -0.7
                 i     51 55.80
                 epP   52 02.50  23kmX
                 e     52 05.80
                 e     52 11.00
                 e     52 15.50
                 ePP   54 00.00
                 e     55 48.30
                 e     56 00.00
                 eS    59 30.00
                 eScS  01 56.00
                 eSS   04 00.00
WET    53.74 308 iPc   51 56.80   0.4
       2.0s  1430.00nm          6.6mb
     Z  16s    28.00um          6.4MszX
BRT    53.74 297 P     51 56.72   0.2
       1.0s  1259.20nm          6.9mb
HYA    53.95 324 eP    51 57.67   0.1
HOF    53.99 309 eP    51 58.00  -0.1
MOX    54.04 310 eP+   51 58.70   0.2
       2.0s   872.00nm          6.4mb
     Z  19s    38.00um          6.5Msz
                 eS    59 39.00
ODD1   54.07 322 eP    51 58.71   0.1
KBA    54.13 305 iPc   51 58.90  -0.5
       1.0s   283.00nm          6.3mb
                 i     52 01.70   9kmX
                 i     52 08.60
                 iPP   54 01.00
VOY    54.13 304 eP    52 00.70   1.3
                 e     52 38.20 163kmX
BHG    54.21 306 iPd   52 00.60   0.8
       2.0s  1373.00nm          6.6mb
BLS5   54.28 321 eP    52 15.47  15.3X
TRI    54.33 304 P     52 00.35  -0.3
       1.2s   604.30nm          6.5mb
BER    54.56 323 eP    52 01.85  -0.3
GRF    54.59 309 iPc   52 03.30   0.7
       1.8s  1849.00nm          6.8mb
                 epP   52 10.50  24kmX
                 ePP   54 06.20
                 e     55 03.00
                 eS    59 53.30
                 eSP   00 05.10
                 eScS  01 42.50
                 eSS   03 38.30
ORI    54.59 296 P     52 03.16   0.4
       1.8s  2365.50nm          6.9mb
ASK    54.60 323 eP    52 01.89  -0.6
EGD    54.64 323 eP    52 01.81  -1.0
FVI    54.66 305 P     52 02.70  -0.4
       1.3s   262.20nm          6.1mb
KMY    54.94 321 eP    52 05.49   0.5
FUR    55.07 307 iPc   52 06.70   0.5
                 ePP   54 10.10
                 eS    59 51.00
GRI    55.10 295 P     52 06.13  -0.4
       0.8s   180.00nm          6.2mb
WTTA   55.16 306 iPc   52 06.30  -0.7
       1.0s   372.00nm          6.4mb
                 i     52 09.00   9kmX
                 i     52 15.40
                 iPP   54 13.10
WATA   55.17 306 iPc   52 06.00  -1.1
                 i     52 09.00  10kmX
                 i     52 12.70
MGR    55.19 297 P     52 06.61  -0.5
       0.7s   253.70nm          6.4mb
GUMO   55.26 100 ePc   52 06.19  -1.6
     Z  22s     3.53um          5.4Msz
                 ed    52 11.40  17kmX
DUI    55.36 299 P     52 06.34  -2.1
       1.9s  1479.10nm          6.7mb
SQTA   55.45 306 iPc   52 08.20  -0.8
       1.3s   653.00nm          6.5mb
                 i     52 10.90   9kmX
                 i     52 15.30
                 iPP   54 14.80
MOTA   55.47 306 iPc   52 08.20  -1.0
       1.3s   856.00nm          6.6mb
                 i     52 11.10  10kmX
                 i     52 15.50
SOI    55.67 294 P     52 09.81  -0.7
       1.4s   347.00nm          6.2mb
ARV    55.69 301 P     52 10.31  -0.4
       1.9s  1635.30nm          6.7mb
OGA    55.69 306 iPc   52 10.00  -0.9
SDI    55.78 299 P     52 11.22  -0.2
       1.9s  1194.10nm          6.6mb
RSM    55.85 302 P     52 13.56   1.8
       1.7s  1674.20nm          6.8mb
ATN    56.06 295 P     52 12.18  -1.2
       1.3s   324.10nm          6.2mb
TNS    56.09 310 ePc   52 13.60   0.1
ILT    56.21  27 iPc   52 12.20  -1.8
       2.1s   312.00nm          6.0mb
     Z  16s    41.00um          6.6MszX
     N  16s    14.00um
     E  16s    28.00um
                 iS    00 02.00
                 iPS   00 20.00
                 i     02 00.00
WIT    56.23 314 eP    52 16.00   1.7
SFI    56.25 302 P     52 15.47   0.8
       1.5s  1350.60nm          6.8mb
MNS    56.29 300 P     52 14.23  -0.9
       1.1s   656.20nm          6.6mb
CRE    56.30 302 P     52 15.92   0.7
       2.2s  1000.40nm          6.5mb
PGD    56.36 302 P     52 17.07   1.4
       1.4s    23.30nm          5.0mb X
WTS    56.43 313 eP    52 15.50  -0.3
       0.7s   186.30nm          6.2mb
SAL    56.48 305 P     52 18.18   1.9
       1.4s  2011.20nm          7.0mb
RMP    56.51 300 P     52 16.13  -0.5
       1.6s  1609.10nm          6.8mb
RDP    56.52 300 P     52 17.21   0.5
       1.7s  2305.40nm          6.9mb
BNS    56.58 311 ePc   52 16.20  -0.8
     Z  17s    77.00um          6.9MszX
MNO    56.70 295 P     52 18.56   0.3
       1.0s   358.70nm          6.4mb
FIR    56.71 302 iPc   52 20.00   2.1
                 iPP   54 25.00
                 S     00 12.00
VDL    56.83 306 iPd   52 18.90  -0.2
HOFF   56.85 309 P     52 18.57  -0.3
MEU    56.89 294 P     52 20.38   0.9
       1.7s   341.10nm          6.1mb
PZI    56.93 294 P     52 19.68   0.0
       0.9s   251.30nm          6.2mb
LANF   56.93 309 P     52 18.79  -0.7
SLE    56.96 308 iPc   52 19.40  -0.4
LLS    56.98 306 iPd   52 19.40  -0.8
DAG    56.99 345 iPd+  52 19.00  -0.6
       0.5s   107.75nm          6.1mb
     Z  18s    30.38um          6.4Msz
ZLA    57.13 307 iPc   52 20.20  -0.8
GIB    57.16 295 P     52 20.38  -1.0
       1.1s   267.10nm          6.2mb
FEL    57.22 308 P     52 20.76  -1.0
PII    57.22 302 P     52 21.04  -0.5
       1.2s   350.40nm          6.3mb
DBN    57.33 313 eP    52 23.00   0.7
     Z  20s    47.40um          6.6Msz
TMA    57.36 306 iPd   52 21.80  -1.0
LIBD   57.37 308 P     52 21.86  -0.7
ENN    57.39 312 eP    52 22.50  -0.2
       0.9s   210.40nm          6.2mb
                 e     53 06.00 190kmX
                 e     54 32.00
MEM    57.40 311 iPc   52 22.35  -0.4
       1.5s    89.50nm          5.6mb
WLS    57.42 309 P     52 22.19  -0.9
CDF    57.47 309 eP    52 22.60  -0.8
       1.2s   361.80nm          6.3mb
BOB    57.51 304 P     52 22.44  -1.3
       2.2s  3641.70nm          7.0mb
MCT    57.59 295 P     52 25.20   0.7
       1.8s   657.70nm          6.4mb
ECH    57.62 308 P     52 23.29  -1.1
WLF    57.67 310 iPd   52 25.26   0.6
       2.0s   515.00nm          6.2mb
                 i     14 16.00
BBS    57.69 308 P     52 23.72  -1.2
FAI    57.72 294 P     52 25.68   0.5
       1.2s   458.00nm          6.4mb
MOF    57.77 308 P     52 24.92  -0.6
MMK    57.96 306 iPd   52 26.60  -0.5
BSF    57.99 308 eP    52 26.30  -0.8
       1.0s   305.60nm          6.3mb
ORO    58.12 305 P     52 27.12  -0.9
       0.2s    23.80nm          5.9mb
LOMF   58.16 308 P     52 27.34  -0.9
CVT    58.17 295 P     52 27.86  -0.5
       0.6s   278.60nm          6.5mb
PCP    58.19 304 P     52 28.27  -0.2
HAU    58.20 308 eP    52 27.60  -0.8
       1.2s   352.25nm          6.3mb
     Z  20s    29.00um          6.4Msz
SMY    58.21  45 eP    52 26.25  -2.1
       1.0s   210.19nm          6.1mb
     Z  20s     9.38um          5.9Msz
                 SS    04 37.53
DIX    58.30 306 iPc   52 29.20  -0.3
UCC    58.30 312 P     52 29.00   0.0
```

```
VITF   58.34 309 P     52 28.88  -0.5
DOU    58.44 311 P     52 30.70   0.7
SNF    58.46 312 iPd   52 30.27   0.1
FIN    58.55 304 P     52 30.97   0.0
EMS    58.61 306 iPd   52 31.50  -0.1
PGF    58.71 302 eP    52 31.50  -0.7
       1.7s   994.00nm          6.6mb
LSD    58.72 305 P     52 32.34  -0.1
ROB    58.73 304 P     52 32.98   0.7
RSP    58.78 305 P     52 32.29  -0.4
IMI    58.88 304 P     52 32.52  -0.8
BHB    58.90 305 P     52 33.07  -0.3
LPG    58.96 306 eP    52 34.00  -0.1
       0.8s   535.15nm          6.7mb
RSL    58.96 306 P     52 31.47  -2.5
LPL    58.96 306 eP    52 33.90  -0.2
       1.0s   806.40nm          6.8mb
DOI    59.05 304 P     52 34.22  -0.3
       1.2s   253.20nm          6.2mb
ENR    59.06 304 P     52 33.53  -1.0
STV    59.11 304 P     52 34.26  -0.7
PZZ    59.15 304 P     52 33.26  -2.0
RRL    59.18 305 P     52 35.36  -0.2
BNI    59.19 305 P     52 35.54   0.0
       1.5s   795.70nm          6.6mb
SBF    59.20 304 eP    52 34.80  -0.7
       1.1s   683.75nm          6.7mb
FRF    59.84 304 eP    52 39.10  -0.8
       1.3s   376.90nm          6.4mb
EDU    60.01 320 eP    52 39.50  -1.3
LMR    60.03 303 eP    52 40.10  -1.1
       1.5s   426.20nm          6.4mb
LOR    60.04 308 eP    52 39.80  -1.4
       1.4s   395.55nm          6.4mb
     Z  19s    23.00um          6.3Msz
ESY    60.07 319 eP    52 40.20  -1.1
LRG    60.08 304 eP    52 40.70  -0.8
       1.2s   228.50nm          6.2mb
     Z  22s    15.13um          6.1Msz
LBF    60.08 308 eP    52 40.10  -1.5
       1.0s   230.40nm          6.3mb
SMF    60.31 308 eP    52 42.00  -1.1
       0.9s   352.50nm          6.5mb
SSF    60.34 308 eP    52 42.20  -1.1
       1.4s   582.05nm          6.5mb
EDI    60.36 320 eP    52 41.70  -1.5
ELO    60.39 320 eP    52 42.60  -0.9
SSB    60.46 306 P     52 42.79  -1.4
EAU    60.52 320 eP    52 43.60  -0.8
AVF    60.55 308 eP    52 43.70  -1.0
       1.6s  1363.20nm          6.8mb
EKA    60.60 319 Pc    52 45.00   0.2
       1.4s   583.30nm          6.5mb
ESK    60.63 319 eP    52 44.50  -0.6
       1.0s   248.00nm          6.3mb
HYF    60.79 309 eP    52 45.70  -0.6
EAB    60.83 320 eP    52 45.40  -1.0
BGF    60.97 308 eP    52 46.50  -1.0
       0.9s   142.85nm          6.1mb
MAF    61.29 308 eP    52 49.20  -0.6
       1.6s  1029.85nm          6.7mb
TCF    61.48 308 eP    52 50.40  -0.7
       1.4s   996.75nm          6.8mb
BRW    61.51  19 (P)   52 50.18  -0.7
HAE    61.71 315 ePc   52 51.50  -1.0
NAI    61.77 243 iPc   52 53.10  -0.5
       1.0s  9132.00nm          7.9mb X
     Z  20s     2.38um          5.3Msz
                ePP    55 06.00
                iS     01 26.00
                eSS    05 14.00
WIM    61.91 318 eP    52 52.80  -1.0
LSF    61.92 308 eP    52 52.80  -1.2
       1.3s   277.25nm          6.3mb
HGH    62.04 315 ePc   52 53.60  -1.1
HTR    62.09 316 eP    52 54.70  -0.4
HCG    62.19 316 eP    52 55.10  -0.7
YRC    62.26 317 eP    52 55.40  -0.7
RJF    62.36 307 eP    52 56.60  -0.4
       1.6s  1069.65nm          6.8mb
     Z  20s    19.15um          6.3Msz
YRH    62.49 317 eP    52 56.80  -0.8
MTHF   62.81 305 P     52 59.73  -0.2
LPO    62.86 307 eP    52 59.70  -0.5
       1.0s   198.40nm          6.2mb
ETER   62.90 304 eP    53 01.00   0.5
DLF    63.28 318 eP    53 03.20   0.4
       1.0s   336.00nm          6.5mb
GRBF   63.50 305 P     53 03.61  -1.0
LESF   63.57 305 P     53 04.67  -0.3
DCN    63.65 318 eP    53 05.90   0.6
       1.1s   522.00nm          6.6mb
ESEL   64.08 301 eP    53 09.97   1.6
EPF    64.18 305 eP    53 07.90  -1.1
       1.8s   569.70nm          6.4mb
REY    64.41 333 iP    53 20.50  10.4X
MBC    64.45   7 iPc   53 10.50   0.3
       0.6s   370.00nm          6.7mb
                PcP    53 32.60
                PP     55 31.80
                S      01 48.30
                SS     06 15.50
                SSS    08 52.10
                PKKP   13 09.90
                SKKP   17 11.90
MTN    64.48 133 eP    53 09.00  -2.1
OGE    64.63 306 P     53 11.29  -0.6
ATE    64.82 306 P     53 14.28   1.1
LHE    64.85 306 P     53 13.72   0.3
MADF   64.87 306 P     53 14.28   0.8
ISSF   64.91 306 P     53 14.61   0.8
ELYF   64.96 306 P     53 13.46  -0.6
EGRA   65.01 305 eP    53 11.59  -2.7
EBR    65.16 303 eP    53 15.00  -0.3
EROQ   65.22 303 eP    53 16.25   0.5
ELIZ   65.31 306 eP    53 18.61   2.3
NANU   65.49 153 eP    53 17.10  -0.3
KNA    65.53 137 eP    53 17.60  -0.2
       0.8s   108.00nm          6.1mb
IMA    65.61  23 ePc   53 17.28  -0.8
       0.8s   138.30nm          6.2mb
WWKK   65.61 116 eP    53 20.10   1.5
MBL    65.90 148 iPc   53 19.00  -1.1
       0.8s    88.00nm          6.0mb
ECRI   66.21 306 eP    53 23.03   0.9
ETOR   66.83 304 eP    53 26.54   0.4
TTA    66.84  27 eP    53 25.38  -0.5
       1.6s   213.31nm          6.1mb
RES    67.38   1 eP    53 31.00   2.0
EALH   67.95 301 eP    53 33.56   0.4
SVW    68.15  28 ePc   53 34.38   0.3
       0.8s   171.66nm          6.3mb
COL    68.21  23 ePc   53 34.07  -0.3
       0.7s   366.08nm          6.7mb
FBA    68.21  23 ePc   53 33.68  -0.7
       0.7s    23.31nm          5.5mb
EVIA   68.27 303 eP    53 34.70  -0.5
EHUE   68.76 302 eP    53 39.22   0.9
ENIJ   68.95 301 eP    53 40.61   1.2
PAB    69.00 304 ePc   53 38.66  -1.1
                ec     53 40.65   6kmX
INK    69.24  15 ePc   53 40.20  -0.4
       1.0s   133.00nm          6.1mb
CP2    69.28  27 eP    53 40.65  -0.6
CRP    69.31  27 eP    53 40.47  -0.9
GDH    69.31 346 ePc   53 40.00  -1.0
       1.2s   225.00nm          6.2mb
                e      56 17.00
EBAN   69.37 303 eP    53 41.77  -0.2
ECOG   69.70 302 eP    53 43.77  -0.4
SDN    69.81  35 ePc   53 41.83  -2.4
       0.8s    55.42nm          5.7mb
STS    69.83 309 P     53 46.59   1.9
STS    69.83 309 eP    53 42.61  -2.0
EPLA   69.84 305 eP    53 45.00   0.2
EGUA   69.94 301 eP    53 46.52   1.1
ELUQ   70.02 302 eP    53 45.50  -0.5
AUP    70.13  29 eP    53 45.15  -1.1
PMR    70.13  25 ePc   53 45.00  -1.1
       0.7s   145.99nm          6.2mb
     Z  19s    10.17um          6.1Msz
                e      58 10.42
                S      03 00.63
                e      08 27.57
TAF    70.26 299 iP    53 50.00   2.5
MEEK   70.33 152 iPd   53 46.30  -1.5
       0.6s    30.00nm          5.6mb
SLKM   70.52  27 eP    53 46.94  -1.6
EHOR   70.52 303 eP    53 48.91   0.0
MAL    70.57 302 iPd   53 48.00  -1.2
TOA    70.74  24 eP    53 50.10   0.2
EPRU   70.99 302 eP    53 50.84  -1.0
LIJA   71.14 302 iP    53 54.00   1.1
KLU    71.27  24 ePc   53 52.43  -0.8
ALJ    71.40 302 iP    53 56.50   2.1
EJIF   71.43 302 eP    53 53.54  -0.9
GIBL   71.54 303 eP    53 55.00  -0.2
KDC    71.59  30 ePc   53 53.81  -1.2
       0.9s   156.02nm          6.1mb
EVAL   71.64 304 eP    53 55.65  -0.1
MOMI   71.67 302 iP    53 58.00   2.1
BCAO   71.68 261 iPc   53 54.80  -1.4
       1.0s   170.00nm          6.1mb
                i      54 00.50  18kmX
                i      56 04.20
MRWA   71.76 155 eP    53 55.50  -0.9
PLAT   71.81 302 iP    53 58.00   1.2
WB5    71.95 135 iPc   53 56.00  -1.7
                i      54 00.00  13kmX
                iPP    56 42.30
WRA    71.99 135 P     53 56.70  -1.2
       0.7s    69.90nm          5.8mb
WR2    72.01 135 iPd   53 56.10  -1.9
       0.8s    88.70nm          5.9mb
                epP    54 27.60 126kmX
PMG    72.16 118 ePc   53 57.86  -1.2
                ec     53 59.10   4kmX
                ed     54 03.07
RAB    72.18 110 eP    54 00.00   0.8
MID    72.65  26 eP    54 01.80   0.5
BALM   72.75  23 ePc   54 01.79  -0.3
IFR    72.85 299 iPc   54 00.00  -3.2X
MIF    72.90 299 eP    53 50.00 -13.2X
CZD    73.06 299 iP    54 06.00   1.9
BAL    73.28 155 iPd   54 04.00  -1.2
KIB    74.02 299 iP    54 10.00   0.3
AVE    74.54 300 iPc   54 13.40   0.6
                i      54 37.50  92kmX
ASPA   74.75 138 iPc   54 12.50  -1.5
       1.6s    65.90nm          5.4mb
     Z  22s     2.40um          5.4Msz
COOL   75.11 151 eP    54 14.90  -1.0
QIS    75.50 131 eP    54 17.00  -1.3
NWAO   75.59 155 ePc   54 18.83   0.3
                ec     54 19.74   3kmX
                ed     54 22.14
                eS     03 00.00
TIO    75.82 298 iP    54 19.50  -0.8
MTD    76.49 236 eP    54 09.70 -14.4X
                i      54 14.60  16kmX
FRB    76.80 350 eP    54 30.00   5.0X
       1.0s    35.00nm          5.4mb
LSZ    77.67 239 iPd   54 30.00  -0.7
                i      54 36.80  22kmX
YKA    77.93  11 eP    54 30.70  -0.5
       0.8s   211.50nm          6.3mb
SIT    78.12  23 ePc   54 33.43   1.1
       0.9s   106.72nm          5.9mb
     Z  19s     8.42um          6.1Msz
                PKKP   13 35.55
CTA    79.24 126 P     54 39.90   0.8
       0.9s   117.10nm          5.9mb
CTAO   79.24 126 ePc   54 38.00  -1.1
       0.8s    49.07nm          5.6mb
                ec     54 39.49   5kmX
                id     54 43.55
BUL    80.86 236 iPd   54 47.30  -0.6
                i      54 54.90  24kmX
                iS     05 00.00
FCC    83.38   1 ePc   55 00.30   0.1
BFT    83.98 231 iPc   55 02.40  -1.6
       1.5s   110.00nm          5.9mb
SLR    85.10 232 iPd   55 09.10  -0.4
       1.5s   291.67nm          6.3mb
     Z  22s     8.15um          6.1Msz
STK    85.38 137 iPc   55 08.80  -1.8
       1.0s    19.60nm          5.3mb
                e      58 36.00
                iS     05 35.30
KSR    86.06 233 iPd   55 02.00 -12.3X
       1.5s   260.00nm
ADE    86.31 141 iPc   55 14.90  -0.3
SEK    87.37 231 iPd   55 20.60  -0.1
       1.0s   340.00nm          6.6mb
JAQ    87.39 351 eP    55 19.50  -0.8
BRS    88.62 127 iPc   55 26.00  -0.5
     Z  18s    20.00um          6.6Msz
                i      55 56.50 117kmX
                iS     06 00.00
                e      12 15.00
PAF    88.68 192 eP    55 32.00   5.8X
```

02d 08h

```
                ePP   59 13.00
                eS    06 09.00
KIC     88.78 277 eP    55 26.82  -0.8
        0.8s    37.00nm         5.7mb
BLF     88.81 231 iPc   55 27.20  -0.4
        1.3s    60.00nm         5.7mb
TIC     88.83 277 P     55 26.24  -1.6
        1.1s    33.00nm         5.6mb
LIC     89.09 277 P     55 28.10  -1.0
        1.0s    38.50nm         5.7mb
      Z 21s     1.25um          5.3Msz
MCW     89.10  20 eP    55 29.74   1.0
STW     89.35  21 P     55 31.53   1.7
JCW     89.79  20 P     55 32.62   0.7
FRS     89.80 231 iPc   55 32.20   0.3
        1.4s    93.02nm         5.8mb
ARMA    90.05 130 iPc   55 35.00   1.7
        0.6s     9.00nm         5.2mb X
GMW     90.14  21 ePc   55 34.82   1.2
WIN     90.26 241 iPc   55 35.50   1.0
        1.5s   110.00nm         5.9mb
ONR     90.47  22 P     55 36.97   1.9
RMW     90.49  20 eP    55 36.00   0.7
WTV     90.76  19 P     55 36.81   0.3
SAW     90.90  19 P     55 37.48   0.4
NEW     90.92  17 ePc   55 37.42   0.2
        0.9s   131.27nm         6.3mb
      Z 19s    22.91um         6.6Msz
BMW     91.00  21 eP    55 38.46   0.9
FMW     91.02  20 P     55 38.61   0.8
DPW     91.03  18 eP    55 38.36   0.6
BWA     91.05 134 eP    55 37.90   0.2
                ipP   55 45.30  23kmX
LON     91.14  20 ePc   55 38.37   0.1
                PP    59 16.94
                S     06 49.66
EBG     91.33  20 P     55 39.92   0.8
SHW     91.54  21 eP    55 41.26   1.1
GRM     91.59 228 eP    55 47.00   6.8X
        1.5s   120.00nm         6.0mb
KMOR    91.68  22 P     55 42.08   1.3
WAH2    91.74  19 P     55 41.80   0.9
ASR     91.75  21 P     55 42.13   1.0
TOO     91.79 138 iPc   55 43.10   2.1
        1.0s    39.00nm         5.7mb
ULM     91.85   3 eP    55 43.00   1.7
CAN     92.03 135 eP    55 41.90  -0.3
                ipP   55 49.20  23kmX
CNB     92.23 134 eP    55 44.80   1.6
VGB     92.56  20 eP    55 45.52   0.7
COR     92.69  22 ePc   55 47.18   1.9
                ec    55 48.34   4kmX
                e     55 52.97
                e     55 55.13
SSOR    92.69  22 P     55 47.41   1.9
CBM     92.75 344 ePc   55 46.30   0.8
        0.8s    67.50nm         6.1mb
      Z 19s    13.83um         6.4Msz
                ec    55 47.37   3kmX
                ed    55 52.34
VBEM    92.76  21 P     55 47.09   1.3
JBO     92.86  20 P     55 49.07   2.9
LNOR    92.88  18 P     55 46.98   0.7
POF     92.91 235 iPd   55 49.00   2.7
        0.5s    29.00nm         6.0mb
CROR    92.99  21 P     55 47.91   1.1
LMN     93.00 342 eP    55 46.50  -0.3
MBO     93.07 291 eP    55 50.80   3.4X
RNO     93.17  23 P     55 49.31   1.7
VIPM    93.53  21 P     55 50.49   1.0
HON     93.93  59 P     55 52.01   0.7
      Z 20s     2.79um         5.7Msz
                S     07 19.18
DBO     94.04  23 P     55 53.54   1.9
LRM     94.24  15 eP    55 52.10  -0.7
SUR     94.40 232 eP    55 57.50   4.1X
        1.5s   180.00nm         6.3mb
GAC     95.28 349 eP    55 57.00  -0.2
FHC     95.91  24 eP    56 01.34   1.1
        0.9s    45.42nm         5.9mb
CER     96.01 232 iPd   55 58.50  -2.0
        1.5s   200.00nm         6.4mb
LBNH    96.09 346 ePd   56 01.13   0.1
        0.8s    29.75nm         5.8mb
      Z 19s    14.76um         6.5Msz
                PP    59 52.70
LGPM    96.18  23 ePc   56 01.77   0.2
KMPM    96.21  25 eP    56 02.70   1.0
RSNY    96.25 348 eP    56 01.45  -0.3
        1.1s    68.49nm         6.1mb
WDC     96.57  23 ePd   56 03.68   0.5
        0.8s    13.14nm         5.5mb
      Z 20s     3.70um         5.9Msz
                PP    00 00.19
                PPP   03 55.82
HHAI    96.68  15 eP    56 04.44   0.6
RSSD    97.27   9 ePc   56 05.78  -0.8
        0.7s    61.98nm         6.3mb
WLVO    97.43 351 P     56 08.62   1.6
HRV     97.69 345 P+    56 07.12  -1.1
      Z 19s    13.22um         6.4Msz
                PP    00 09.87
                PPP   04 01.92
BW06    97.73  13 eP    56 07.75  -1.0
        0.7s     6.71nm         5.4mb
ORV     97.83  23 eP    56 10.31   1.4
        2.9s   220.00nm         6.3mb
      Z 19s     2.70um         5.8Msz
                ePP   00 09.67
                e     04 12.67
                eSKS  06 55.67
                eS    07 34.67
                eSP   09 04.67
                eSS   14 30.67
                eLR   30 21.67
ACTO    97.94 352 P     56 11.00   1.7
HVU     98.04  16 eP    56 10.20   0.2
STCO    98.23 351 P     56 12.30   1.7
TYNO    98.43 352 P     56 13.06   1.6
BINY    98.78 349 eP    56 12.32  -0.8
        0.9s    14.56nm         5.6mb
      Z 20s     9.78um         6.3Msz
                PP    00 18.03
                PPP   04 02.65
LSCT    98.81 346 P+    56 12.39  -0.9
      Z 19s    13.68um         6.5Msz
                PP    00 13.47
YSNY    98.87 350 eP    56 11.65  -1.9
        0.8s    40.03nm         6.1mb
      Z 19s    10.80um         6.4Msz
                PP    00 13.00
BKS     99.13  24 eP    56 17.14   2.4
        2.8s   470.00nm         6.6mb
      Z 21s     2.90um         5.8Msz
                ePP   00 23.09
                eSKS  07 07.09
                eSP   09 15.09
                eSS   14 13.09
                eLQ   24 14.09
                eLR   31 17.09
DUG     99.55  17 eP    56 17.00   0.1
        0.8s     9.30nm         5.4mb
      Z 20s     5.76um         6.1Msz
                PP    00 21.33
                PPP   04 19.14
                SP    09 20.10
DAU     99.68  15 eP    56 18.66   1.0
PNJ     99.73 347 PDIF  56 19.35   1.9
ARN     99.84  24 eP    56 17.13  -1.0
BONR   100.26  21 ePdiff56 20.91   0.8
MEMM   100.34  22 ePdiff56 21.73   1.7
EMUT   100.34  15 ePdiff56 21.71   1.3
SAO    100.40  24 Pdiff+56 25.08   4.7X
      Z 21s     7.13um         6.1Msz
                PP    00 33.98
                SP    09 23.11
MTUM   100.74  22 ePdiff56 23.03   0.9
SRU    101.08  15 ePdiff56 24.43   0.8
MSU    101.30  17 ePdiff56 25.28   0.6
GLD    101.40  11 Pdiff 56 30.50   5.5X
      Z 20s     6.42um         6.1Msz
                PP    00 45.91
                e     10 45.91
                SP    23 11.64
GOL    101.42  11 ePdiff56 25.39   0.2
        0.9s     9.74nm         5.4mb
      Z 19s     8.16um         6.3Msz
ARUT   101.70  18 ePdiff56 27.32   1.0
TPNV   101.77  20 Pdiff 56 40.00  13.3X
      Z 20s     7.37um         6.2Msz
PV09   101.95  14 ePdiff56 28.29   0.6
PV08   101.97  14 ePdiff56 28.32   0.6
PV10   102.09  14 ePdiff56 28.42   0.2
GSC    103.16  21 ePdiff56 30.09  -2.7X
CVL    103.28 350 ePdiff56 32.40  -0.7
SLM    103.54 359 Pdiff 56 40.00   5.7X
      Z 20s    10.24um         6.3Msz
FVM    104.20 359 ePdiff56 36.90  -0.3
        1.0s    13.51nm         5.8mb
      Z 19s    22.37um         6.7Msz
                PP    00 53.53
CEH    105.42 350 PKP   01 10.00  13.5X
      Z 19s     8.62um         6.3Msz
GLA    105.83  20 (PKP) 00 59.05   1.6
ALQ    105.90  13 ePdiff56 45.86   0.7
        0.9s     6.74nm         5.7mb
      Z 18s     8.93um         6.4Msz
                PP    01 04.61
                e     03 10.28
                SP    10 20.31
MYNC   106.80 354 PKP   01 10.00  10.8X
      Z 19s     7.87um         6.3Msz
MYNC   106.80 354 Pdiff 56 51.27   2.3X
      Z 19s     7.87um         6.3Msz
                PP    01 14.84
WMOK   107.11   6 ePdiff56 51.13   0.8
        0.9s    11.10nm         5.9mb
      Z 20s    11.40um         6.4Msz
                PP    01 18.25
                e     11 35.51
MAW    107.27 190 ePKP  01 00.80   1.8
        2.3s    31.70nm
      Z 18s     2.10um         5.7Msz
                ePS   10 53.80
                eSS   16 32.10
                eP'P' 20 05.30
TUC    107.56  17 (PKP) 00 58.73  -2.0
      Z 18s     4.45um         6.0Msz
MIAR   107.60   2 PKP   01 10.00   9.3X
      Z 19s    10.07um         6.4Msz
MIAR   107.60   2 Pdiff 56 54.93   2.5X
      Z 19s    10.07um         6.4Msz
                PP    01 21.20
                e     03 41.92
LTX    111.85  12 (Pdiff57 14.75   3.1X
                SP    11 13.25
PPM    122.64   8 iPKP  01 29.50  -0.9
SNA    125.72 205 e(PKP)01 33.20  -1.0
        1.0s    50.00nm
SOB1   126.39 289 ePKP  01 35.70  -1.5
CAR    126.45 330 iPKP  01 36.00  -1.4
TOV    128.20 333 ePKP  01 42.70   2.0
SDV    129.34 333 iPKPd 01 41.80  -1.2
BOG    134.49 335 ePKP  01 57.00   4.0X
                ePP   04 29.00
BDF    135.76 288 ePKP  01 52.10  -3.0X
        0.9s     0.70nm
                i     04 28.50
                i     04 34.50
                i     04 41.60
BAO    135.81 288 ePKP  01 51.20  -4.0X
                i     04 31.50
CACB   138.41 280 ePKP  02 01.50   1.5
                e     05 31.90
PSO    138.73 338 ePKP  01 55.50  -5.6X
VAO2   139.10 278 (PKP) 02 01.00  -0.1
RSTA   141.78 278 ePKP  02 02.20  -3.6X
PPD    142.14 284 ePKP  02 03.70  -2.8X
SIV    145.40 301 PKP   02 11.60  -0.6
CCH    149.73 306 PKP   02 20.80   1.4
LPAZ   150.13 311 PKPc  02 19.50  -0.9
                i     02 21.30
                i     02 26.70
                PP    05 53.80
                PPP   09 31.30
                SS    25 30.60
                LQ    51 30.90
LPB    150.30 310 PKP   02 19.00  -1.4
        1.1s   177.22nm
      Z 20s     7.80um         6.5Msz
                i     02 27.30
                LR    56 30.00
CNCB   150.44 310 ePKP  02 15.00  -5.8X
NNA    150.87 330 iPKPd 02 26.50   5.6X
        0.9s    84.03nm
ARE    152.20 316 ePKP  02 26.00   2.9X
YJA    152.67 298 ePKPd 02 24.80   0.9
LPA    153.05 267 ePKP+ 02 25.00   1.6
      Z 20s     1.42um         5.8Msz
                ePP   06 14.00
TCA    157.04 279 ePKP  02 29.00   0.0
```

```
RTPR  158.06 284 e(PKP)02 30.50   0.4
RTLL  160.03 283 ePKP  02 33.50   1.1
PEL   162.49 280 ePKP  02 37.00   2.2X
SAN   162.59 279 ePKP  02 37.50   2.7X
     S.D. = 1.1  on 556 of 615 obs.
-------------------------------------
   OCT  02, 1993  09h 00m 13.60± 0.51s
   53.049 N ± 4.6km  158.611 E ± 3.5km
   DEPTH = 121.6 ±  5.0 km
   5.0mb ( 58 obs.)
 NEAR EAST COAST OF KAMCHATKA     (218)

PET     0.04 144 iPnc+ 00 30.00   0.8
                 eS    00 41.00
SKR     2.85 214 ePn   00 57.00  -1.6
                 iS    01 30.00
MGD     8.27 332 iPnc  02 13.00   0.9
                 e     03 47.00
ADK    15.08  85 eP    03 42.04   0.8
       0.8s   16.38nm          4.4mb
ILT    18.43  27 iPc   04 22.20   0.4
       2.0s  100.00nm          4.8mb
NIIJ   20.90 229 eP    04 46.80  -0.7
MAT    21.83 229 iPd   04 55.90  -0.9
       1.0s   38.00nm          4.7mb
CHJJ   21.89 227 eP    04 56.90  -0.5
MTMJ   21.98 230 eP    04 58.90   0.5
IIDJ   22.84 228 eP    05 08.40   1.7
TSRJ   23.69 231 eP    05 15.00   0.2
SDN    23.79  68 (P)   05 15.35  -0.3
       0.6s   16.13nm          4.7mb
WKYJ   24.95 230 eP    05 28.40   1.5
YONJ   25.18 235 P     05 28.90  -0.1
TKSJ   25.87 232 eP    05 35.70   0.4
SLKM   28.35  54 eP    05 55.69  -1.9
PMR    28.74  52 eP    05 59.30  -1.7
       0.5s    6.34nm          4.5mb
FBA    29.09  45 ePc   06 03.25  -0.9
       0.7s    5.37nm          4.3mb
KLU    30.27  52 eP    06 13.70  -1.0
BALM   32.06  52 eP    06 29.61  -0.7
INK    34.45  38 eP    06 51.50   0.7
       0.5s    9.00nm          4.8mb
YKA    43.80  42 eP    08 08.30   0.1
       0.4s    3.70nm          4.5mb
BMW    48.56  64 eP    08 46.25   0.2
LBFM   52.59  69 eP    09 17.52   0.7
ORV    54.01  70 eP    09 26.76  -0.2
LRM    54.71  59 eP    09 32.00  -0.3
LOF    56.38 345 eP    09 41.24  -2.4
PTI    56.77  61 eP    09 47.92   0.9
BONR   56.93  69 ePc   09 48.83   0.5
BW06   58.32  60 ePc   09 57.94   0.0
       0.5s    7.70nm          5.0mb
                 e     10 24.88
DUG    58.40  64 eP    09 58.29  -0.1
       0.7s    4.90nm          4.6mb
TPNV   58.79  69 eP    10 01.16   0.0
       0.7s    5.35nm          4.7mb
DAU    59.09  63 eP    10 03.79   0.4
KAF    59.17 336 iP    10 01.10  -2.1
       0.3s    4.40nm          5.0mb
ULM    59.50  46 eP    10 08.00   2.3
GSC    59.65  71 eP    10 06.97  -0.1
ARUT   59.77  66 eP    10 07.86   0.0
MSU    59.94  65 eP    10 09.47   0.3
RSSD   60.17  55 ePc   10 10.42  -0.2
       0.6s   22.33nm          5.4mb
                 epP   10 38.20 114kmX
SRU    60.41  63 ePc   10 12.50   0.2
                 epP   10 40.50 115kmX
NUR    60.96 336 iP    10 13.70  -1.7
       0.6s    7.40nm          4.9mb
AKU    61.57 358 iP    10 19.40   0.0
       0.8s   26.87nm          5.3mb
PV09   61.60  63 eP    10 20.20  -0.3
PV10   61.74  63 ePc   10 21.48   0.1
                 epP   10 49.26 113kmX
PV08   61.81  63 ePc   10 21.89   0.0
                 epP   10 49.79 114kmX
GLA    62.41  71 ePc   10 25.85   0.3
MOL    62.49 345 eP    10 24.02  -1.6
NB2    63.33 343 P     10 30.10  -1.1
       0.7s   18.10nm          5.1mb
SLL    63.47 342 eP    10 30.20  -1.9
       0.3s   19.60nm          5.4mb
NAO    63.60 343 P     10 29.65  -3.3X
ALQ    65.68  64 eP    10 46.91   0.0
       0.5s    3.61nm          4.6mb
                 epP   11 15.24 114kmX
WMOK   69.90  59 ePc   11 12.42  -0.6
       0.6s    8.60nm          4.8mb
                 epP   11 38.26 101kmX
EKA    70.94 349 Pc    11 14.60  -4.3X
       0.5s   12.20nm          5.0mb
FVM    71.46  51 eP    11 21.64  -0.7
       0.5s   14.19nm          5.0mb
LTX    71.48  66 eP    11 22.54  -0.1
                 epP   11 50.29 109kmX
                 esP   12 05.06
WTS    72.69 342 eP    11 29.00  -0.3
       0.9s   37.70nm          5.2mb
YSNY   72.90  41 eP    11 30.39  -0.3
       0.7s    9.49nm          4.7mb
DLF    73.30 351 iPd   11 32.40  -0.4
DCN    73.33 351 eP    11 32.90   0.0
GBA    73.96 271 P     11 35.00  -2.1
GRF    73.98 339 ePKP  11 37.50   0.6
ENN    74.03 342 eP    11 37.00   0.0
       0.8s   28.60nm          5.1mb
                 e     11 44.00
MEM    74.16 342 iPd   11 37.78   0.0
       0.9s   20.80nm          4.9mb
GEC2   74.21 337 P     11 37.40  -0.9
       0.5s    2.29nm          4.2mb
                 e     11 38.60
                 e     11 42.80
SNF    74.56 343 Pd    11 39.80  -0.4
DOU    74.91 343 Pc    11 42.10  -0.1
WR2    75.67 203 eP    11 46.10  -0.7
       0.8s    2.50nm          4.1mb
WRA    75.67 204 P     11 40.70  -6.1X
       0.5s    1.70nm          4.1mb
KBA    75.94 336 iPd   11 48.60   0.3
       0.8s   22.90nm          5.0mb
CDF    76.02 341 iPd   11 48.30  -0.3
       0.9s   15.55nm          4.8mb
WTTA   76.17 338 iPd   11 49.60   0.0
GBTN   76.22  48 (P)   11 50.56   0.7
HAU    76.59 341 eP    11 51.40  -0.3
       0.8s   17.35nm          4.9mb
BSF    76.67 341 eP    11 51.90  -0.4
       0.9s   13.60nm          4.7mb
MYNC   76.75  49 eP    11 52.25  -0.6
       0.4s    2.61nm          4.4mb
FLN    77.02 346 iPd   11 53.70  -0.3
       0.5s   13.70nm          5.0mb
LDF    77.14 346 iPd   11 54.20  -0.5
       0.8s   19.35nm          4.9mb
GRR    77.44 346 iPd   11 56.40   0.1
       0.6s   29.60nm          5.2mb
LOR    77.77 343 iPd   11 58.10  -0.1
       0.6s   37.15nm          5.3mb
LPF    77.82 346 iPd   11 58.60   0.2
       0.5s   16.60nm          5.1mb
HYF    77.98 344 eP    11 59.80   0.5
LBF    78.02 343 iPd   11 59.30  -0.3
       0.6s   17.05nm          5.0mb
SSF    78.03 343 iPd   11 59.60   0.0
       0.6s   26.25nm          5.2mb
AVF    78.32 343 iPd   12 01.30   0.1
       0.8s   45.95nm          5.3mb
SMF    78.37 343 iPd   12 01.60   0.1
       0.6s   13.10nm          4.9mb
BGF    78.63 343 iPc   12 03.10   0.2
       0.5s   15.75nm          5.1mb
LPL    78.90 340 iPc   12 05.50   0.8
       0.7s   17.00nm          4.9mb
LPG    78.91 340 iPc   12 05.70   0.9
       0.7s   15.55nm          4.9mb
TCF    79.00 344 iPd   12 05.30   0.3
       0.7s   29.65nm          5.2mb
MAF    79.01 343 iPc   12 05.60   0.6
       0.5s   47.95nm          5.5mb
PLDF   79.06 343 P     12 05.58   0.2
AGO    79.07 343 P     12 06.05   0.7
MFF    79.08 345 iPd   12 05.80   0.5
       0.6s   29.75nm          5.3mb
LSF    79.16 344 iPd   12 06.20   0.4
       0.5s   28.70nm          5.3mb
ASPA   79.36 203 eP    12 18.30  11.3X
       0.5s    6.70nm
PYM    79.39 343 P     12 07.35   0.2
LBL    79.84 343 P     12 10.02   0.5
RJF    80.08 344 eP    12 11.10   0.4
       0.7s   19.30nm          5.0mb
SBF    80.33 339 eP    12 13.30   1.1
       0.5s   16.60nm          5.1mb
CAF    80.35 343 iPd   12 13.30   1.1
       0.6s   49.80nm          5.5mb
LPF    80.56 344 eP    12 14.20   1.0
       0.6s   30.30nm          5.3mb
LPO    80.74 344 iPd   12 15.20   1.0
       0.6s   81.15nm          5.7mb
FRF    80.79 340 iPd   12 15.40   0.9
LRG    80.95 340 eP    12 16.20   0.9
       1.0s   48.40nm          5.2mb
LMR    81.04 340 eP    12 16.40   0.7
       0.5s   10.15nm          4.9mb
PGF    81.24 338 iPd   12 17.80   0.8
       0.7s   18.75nm          5.0mb
GRBF   82.46 343 P     12 24.30   1.0
EPF    82.48 344 iPd   12 23.80   0.4
       0.6s   28.30nm          5.3mb
EGRA   83.41 344 eP    12 28.50   0.5
     S.D. = 0.8  on 105 of 109 obs.
-------------------------------------
* OCT  02, 1993  09h 20m 12.29± 0.55s
   38.206 N ±14.6km   89.284 E ± 8.0km
   DEPTH =  10.0km  (geophysicist)
   4.9mb ( 13 obs.)
 SOUTHERN XINJIANG, CHINA         (321)

WMQ     5.74 348 Pn    21 38.00  -1.6
                 Sg    23 08.00
GTA     8.31  78 eP    22 20.00   4.2X
KSH    10.46 281 P     22 41.00  -4.4X
LZH    11.81  96 eP    23 03.00  -0.9
       1.5s   40.00nm          5.5mb
     E 10s     0.46um
XAN    16.40  99 P     24 04.80   0.7
                 pP    24 13.00
                 sP    24 17.00
TIY    18.26  84 eP    24 30.00   2.6
GYA    18.75 124 P     24 36.60   3.1X
BJI    20.92  77 eP    24 56.50  -0.8
       1.0s    6.00nm          3.9mb
HFS    50.85 321 eP    29 11.10  -3.7X
       0.4s    2.60nm          4.5mb
GEC2   53.70 307 P     29 37.20   0.7
       0.8s    1.71nm          4.1mb
CDF    57.84 309 iPc   30 06.30   0.0
       0.7s    3.30nm          4.5mb
BSF    58.37 308 eP    30 09.90  -0.1
       0.8s    8.60nm          4.9mb
LPG    59.35 306 iPc   30 17.70   0.6
       0.8s   14.50nm          5.2mb
LPL    59.35 306 iPc   30 17.60   0.6
       0.8s   18.95nm          5.3mb
LBF    60.46 308 eP    30 24.00  -0.4
SMF    60.69 308 iPc   30 25.80  -0.1
       0.9s   15.55nm          5.1mb
AVF    60.93 308 iPc   30 27.50   0.0
BGF    61.34 308 iPc   30 30.90   0.5
MAF    61.67 308 iPc   30 33.00   0.4
       0.9s   12.80nm          5.1mb
TCF    61.86 308 iPc   30 34.20   0.3
       1.0s   18.40nm          5.2mb
WRA    71.66 135 P     31 35.20  -1.0
       0.7s    2.70nm          4.5mb
WR2    71.67 135 iPc   31 34.80  -1.5
       0.5s    6.00nm          5.0mb
     S.D. = 1.0  on  18 of  22 obs.
-------------------------------------
   OCT  02, 1993  09h 43m 19.59± 0.11s
   38.169 N ± 2.8km   88.605 E ± 1.9km
   DEPTH =  13.6km  ( 19 depth phases)
   5.8mb (141 obs.)  5.3Msz ( 10 obs.)
 SOUTHERN XINJIANG, CHINA         (321)

WMQ     5.69 353 Pn    44 47.00   1.2
                 Sn    45 50.00
LSA     8.71 165 Pd    45 32.90   4.4X
       1.2s  380.00nm          6.6mb
     Z 13s    14.60um
     N 10s     8.29um
     E 10s     8.16um
                 S     47 13.00
GTA     8.84  78 Pc    45 27.80  -2.2
       1.0s   38.00nm          5.7mb
TLG     9.92 304 iP    45 45.00   0.2
```

02d 09h

```
        1.7s   142.00nm          6.1mb
                   e     47 35.00
KSH     9.94 281 P       45 45.00  -0.1
        0.8s   450.00nm          6.9mb X
FRU    11.62 298 iPc     46 07.00  -1.0
        1.8s   390.00nm          6.4mb
     Z  15s    16.00um
     E  15s    15.50um
LZH    12.34  95 P       46 15.00  -2.9X
        1.5s   240.00nm          6.2mb
     Z  18s     9.54um
                  pP     46 22.00
NDI    13.40 228 iPd     46 33.00   1.1
ZAK    16.07  36 ePd     47 05.50  -1.1
        1.8s   286.00nm          5.1mb
     Z  11s    15.19um
     E  11s    12.96um
BTO    16.73  75 eP      47 13.00  -2.1
     N  11s     1.92um
XAN    16.92  98 P       47 15.50  -2.0
        1.0s    23.00nm          4.3mb X
     Z  16s     8.53um          6.1MszX
     N  10s     4.38um
     E  14s     5.17um
                  pP     47 21.60
                  sP     47 25.00
                  PP     47 31.00
KMI    17.69 133 Pc      47 26.00  -1.4
        1.8s   250.00nm          5.0mb
     Z  20s     4.60um          4.5Msz
     N  10s     3.70um
     E  10s     2.70um
IRK    17.87  33 eP      47 29.00  -0.1
        1.3s   152.00nm          5.0mb
     N  11s     3.76um
     E  11s     4.61um
                  eS     50 51.00
HHC    17.91  74 P       47 28.80  -1.1
        1.0s    34.00nm          4.4mb X
     Z  14s     6.85um
TIY    18.79  84 Pc      47 38.00  -2.8
     Z  10s     6.35um
     N  12s     5.35um
GYA    19.18 122 iPc     47 47.60   2.1
        1.0s    96.00nm          5.0mb
     Z  14s     1.80um          4.7Msz
     N  12s     3.50um
     E  12s     3.10um
                   S     51 13.00
                  SS     51 41.00
CHTO   21.29 152 ePc     48 09.60   1.6
        1.0s    51.25nm          4.9mb
BJI    21.45  76 eP      48 09.00  -0.4
        1.5s    70.00nm          4.8mb
     Z  16s     4.67um          5.0MszX
CIT    22.28  44 eP      48 17.00  -0.7
HYB    22.47 206 eP      48 18.60  -1.3
        1.0s    65.00nm          5.1mb
WHN    22.53 102 eP      48 20.00  -0.3
        1.2s   130.00nm          5.3mb
     Z  16s     8.89um          5.3MszX
     N  16s     4.70um
     E  16s     5.90um
                  pP     48 27.50  27kmX
BDT    22.75 154 eP      48 24.00   1.4
        1.2s   105.30nm          5.2mb
TIA    22.77  86 eP      48 23.10   0.4
     Z  15s     5.50um          5.1MszX
     N  12s     6.75um
     E  12s     3.78um
MAIO   23.21 274 iPc     48 39.60  12.5X
        1.0s   142.50nm
POO    23.42 217 iPd     48 35.70   6.5X
        0.9s    48.74nm          5.1mb
LOE    23.67 147 eP      48 34.00   2.5
ASH    23.78 279 iPc     48 35.00   2.6
        1.3s   790.00nm          6.1mb
NST    24.61 152 eP      48 42.00   1.4
KHT    24.91 157 eP      48 44.60   1.0
NJ2    25.42  95 Pd      48 48.40   0.2
        1.1s    40.00nm          5.0mb
DL2    25.77  78 eP      48 51.50   0.0
        1.5s   370.00nm          5.8mb
PCT    26.00 151 eP      48 55.50   1.8
SVE    26.25 324 ePc     48 57.50   1.7
GBA    26.40 205 P       48 56.00  -1.5
QIZ    26.56 130 Pc      49 01.70   2.8
     N  13s     1.61um
     E  13s     1.62um
                   S     53 31.50
SNY    26.93  71 eP      49 01.20  -0.9
     Z  14s     5.42um          5.3MszX
                  pP     49 05.80  16km
                  sP     49 10.20
ARU    27.00 322 iPc+    49 03.60   1.0
        1.2s   300.00nm          5.8mb
     Z  13s     4.00um          5.2MszX
     N  14s     2.50um
     E  12s     3.00um
                   i     49 06.60  11km
                  (S)    53 50.00
NNT    27.34 156 eP      49 07.50   1.4
SSE    27.62  95 Pd      49 08.00  -0.5
        1.2s    60.00nm          5.2mb
     Z  16s     3.50um          5.0MszX
     N  15s     3.40um
     E  15s     1.80um
                  pP     49 12.50  16km
CN2    28.21  67 eP      49 13.20  -0.6
        1.2s   170.00nm          5.7mb
     Z  16s     2.48um          4.9MszX
     N  12s     2.41um
     E  12s     1.43um
                  epP    49 22.00  31kmX
                  eS     53 52.00
KOD    29.56 203 eP      49 25.00  -1.5
TATO   30.78 106 P       49 36.90   0.0
        0.3s    41.08nm          5.8mb
SHI    30.97 265 eP      49 39.00   0.2
MDJ    31.16  65 eP      49 39.50  -0.6
        1.2s    38.00nm          5.2mb
NRI    31.29 360 iPc     49 39.60  -1.3
        1.2s   176.00nm          5.8mb
     Z  18s    13.00um          5.6Msz
                   e     50 53.00 395kmX
                   e     52 31.00
                   e     54 47.00
GRO    32.65 293 iPc     49 56.00   2.9X
        2.0s   960.00nm          6.4mb
VLA    32.94  67 iPd     49 55.00  -0.6
                   i     50 00.00  17km
                   e     51 22.00
TAB    33.05 283 eP      49 57.00   0.1
ERE    33.99 287 iP+     50 06.00   1.1
YAK    34.64  33 iPc+    50 08.90  -1.2
        1.2s   296.00nm          6.1mb
                   e     55 42.00
                   e     00 37.00
KUMJ   34.67  86 P       50 13.90   3.2X
KAGJ   35.23  88 eP      50 18.00   2.5
TKSJ   36.69  82 eP      50 31.20   3.4X
PGP    37.77 122 eP      50 36.40  -0.7
MOS    37.98 314 iPc     50 40.00   1.6
        1.9s   910.00nm          6.2mb
     Z  22s    11.40um          5.6Msz
     N  17s     2.80um
     E  17s     4.80um
                   e     52 10.00 494kmX
                  eS     56 37.00
MJMA   38.40 264 iPc     50 42.33  -0.1
ANN    38.45 297 iPc     50 43.00   0.5
        1.3s   130.00nm          5.5mb
     Z  16s     2.50um          5.1MszX
     N  16s     5.00um
     E  16s     6.00um
                   e     52 09.00 462kmX
OBN    38.51 313 iPc+    50 43.50   0.6
        1.5s   420.00nm          6.0mb
     Z  18s     5.40um          5.4Msz
     N  18s     1.80um
     E  16s     3.20um
                   e     52 12.00 480kmX
                  (S)    56 46.00
MTMJ   38.76  77 eP      50 47.00   1.7
MAJO   39.09  77 P       50 48.50   0.6
        0.8s    10.93nm          4.6mb X
MAT    39.09  77 (P)     50 45.00  -2.9X
        1.3s    13.46nm          4.5mb X
PPR    39.12 128 ePc     50 48.50   0.1
TIK    39.25  19 iPc     50 49.00   0.1
        0.8s   210.00nm          5.9mb
                   e     52 20.00 497kmX
                  ePPP   52 56.00
                   e     56 47.00
YSS    40.10  59 ePd     50 56.00  -0.1
        1.0s    30.00nm          4.9mb
     Z  12s     2.00um          5.2MszX
     N  12s     2.40um
ASAJ   40.51  64 eP      50 59.20  -0.4
UQSK   40.74 266 iPc     51 03.33   1.6
AFIF   40.94 263 iPc     51 06.67   3.2X
HOOJ   41.33  66 eP      51 09.90   3.6X
KAS    41.68 292 iPd     51 10.30   1.0
KMSA   41.93 258 iPc     51 11.07  -0.5
MNK    43.79 312 eP      51 25.00  -1.2
     Z  20s     7.90um          5.6Msz
KIS    43.90 302 iP+     51 28.00   0.8
     Z  16s     2.10um          5.1MszX
                   i     53 12.00 585kmX
                  eS     58 06.00
DHJN   44.28 255 iPc     51 32.00   1.0
KAF    44.32 323 iP      51 31.00   0.5
        0.8s    88.80nm          5.7mb
ABHA   44.50 257 iPc     51 35.33   2.6
EYL    44.53 292 iP      51 32.60   0.0
CFR    44.77 299 eP      51 35.00   0.7
SDF    44.80 331 iP      51 34.80   0.5
HRT    44.81 293 iP      51 35.50   0.7
ALT    45.02 290 eP      51 36.10  -0.4
CLI    45.06 301 ePc     51 37.50   0.8
NUR    45.09 321 iP      51 37.00   0.4
        0.8s    80.80nm          5.7mb
WAJH   45.12 270 iPc     51 39.20   1.9
ISK    45.19 293 eP      51 37.60  -0.1
PTT    45.58 302 eP      51 35.00  -5.7X
VRI    45.59 300 ePc     51 41.50   0.7
KHL    45.69 289 iP      51 42.20   0.4
DMK    45.91 295 eP      51 43.00  -0.4
ELL    45.93 287 iP      51 43.00  -0.8
MLR    46.21 300 iPc     51 47.00   1.1
CMP    46.88 300 iPd     51 52.00   0.9
CIN    47.00 289 iPc     51 53.00   1.0
ALN    47.41 294 eP      51 56.10   0.8
EZN    47.55 292 iP      51 56.70   0.3
RDO    47.70 294 eP      51 58.50   1.0
TRO    47.76 334 iPc     51 58.40   0.8
PRK    47.78 292 eP      51 58.90   0.7
UZH    47.88 305 ePc     52 00.00   1.1
        1.2s    80.00nm          5.7mb
     Z  16s     4.50um          5.5MszX
     E  16s     4.80um
                   e     53 58.00 689kmX
DEV    48.17 301 ePc     52 02.50   1.3
GZR    48.39 301 ePd     52 04.00   1.1
UPP    48.63 321 iPc     52 04.50   0.0
        0.9s   500.00nm          6.6mb
SPC    49.07 306 iPc     52 10.20   1.9
                  ePP    54 02.60
OUR    49.08 294 iP      52 08.89   0.7
SRS    49.10 295 iP      52 08.69   0.3
OJC    49.10 308 iPd     52 08.80   0.5
        0.7s   149.00nm          6.1mb
                   i     52 24.80  62kmX
                   i     52 45.70
PET    49.24  49 eP      52 08.00  -1.2
        1.0s    80.00nm          5.7mb
     Z  16s     3.00um          5.4MszX
SOH    49.37 295 eP      52 10.44  -0.1
PAIG   49.44 294 iP      52 11.37   0.4
KNT    49.58 295 eP      52 12.24   0.1
LOF    49.71 332 eP      52 11.82  -0.8
THE    49.71 295 eP      52 12.36  -0.7
NPS    49.71 287 eP      52 13.00  -0.2
GRG    50.01 295 eP      52 15.12  -0.3
ATH    50.10 291 eP      52 17.00   0.9
LIT    50.24 294 eP      52 16.80  -0.3
BUD    50.30 304 eP      52 18.00   0.5
SKO    50.35 297 iPc     52 18.50   0.5
        1.3s   140.00nm          5.8mb
                   i     54 17.00 674kmX
HFS    50.54 321 eP      52 19.00  -0.2
        0.9s   164.20nm          6.0mb
     Z  17s     1.21um          5.0MszX
                  LR     12 33.00
SRO    50.67 305 iP      52 25.00   4.7X
                  ePP    54 19.40
NSS    50.68 327 eP      52 20.07   0.0
KZN    50.68 295 eP      52 20.00  -0.6
VAM    50.72 288 eP      52 20.00  -0.8
AGG    50.73 293 eP      52 20.08  -0.9
FNA    50.80 295 eP      52 20.36  -1.1
```

```
OHR    51.09 296 iP    52 21.00  -2.7
       0.8s    50.00nm          5.5mb
                  i    54 12.70 609kmX
KSP    51.12 309 iPc   52 24.20   0.5
       0.9s    65.00nm          5.6mb
                  i    54 21.10 654kmX
IVA    51.13 298 iPc   52 25.25   1.3
VLI    51.15 290 eP    52 22.20  -1.9
PVY    51.17 298 iPc   52 25.23   0.9
PLE    51.32 299 iPc   52 26.81   1.3
ZST    51.34 306 iPc   52 26.40   1.0
       1.0s    33.60nm          5.2mb
                 iPP   54 24.30
TTG    51.72 298 iPc   52 28.65   0.3
VKA    51.82 306 eP    52 29.00  -0.1
                  i    52 30.80   6km
ULC    51.89 297 eP    52 29.31  -0.4
BRY    52.05 299 iPc   52 31.17   0.1
BDV    52.07 298 iPc   52 30.55  -0.5
COP    52.13 316 iP    52 33.00   1.8
       1.0s   268.00nm          6.1mb
HCY    52.24 298 iPc   52 32.06  -0.2
KEK    52.31 295 eP    52 31.70  -1.1
VLS    52.31 293 eP    52 31.00  -1.9
PRU    52.43 308 iPc   52 34.00   0.4
       1.3s   145.00nm          5.7mb
     Z  10s     1.20um          5.2MszX
                  i    52 36.60   9km
                  e    53 44.10
                  e    54 32.30
                  eS   59 51.00
                  i    00 06.40
BRG    52.54 310 iPc   52 34.50   0.1
       1.4s   170.00nm          5.8mb
                  i    52 39.20  16km
                  i    54 19.20
KONO   52.67 321 iPc   52 27.70  -7.5X
PTJ    52.80 303 iPc   52 36.90   0.4
ZAG    52.81 303 iPc   52 37.00   0.5
MOL    52.97 325 eP    52 37.60   0.1
CLL    52.98 310 iPc   52 37.60  -0.1
       1.6s   170.00nm          5.7mb
KHC    53.29 308 iPc   52 40.80   0.7
       1.3s    63.00nm          5.4mb
     Z  18s     2.50um          5.3Msz
     N  18s     0.50um
     E  18s     1.30um
                  e    52 45.00  14km
                  e    53 02.50
GEC2   53.30 307 P     52 40.50   0.3
       0.8s    28.57nm          5.3mb
                  e    52 44.00  12km
                  e    52 52.10
VBY    53.39 303 iPc   52 41.30   0.5
HVAR   53.40 300 iP    52 40.00  -0.9
LJU    53.68 304 ePc   52 43.00   0.1
                  e    53 25.10 186kmX
                  e    54 43.50
MUD    53.69 317 iPd   52 43.00   0.2
       1.0s    70.00nm          5.6mb
BRT    53.71 297 P     52 43.40   0.2
       1.0s   595.00nm          6.5mb
WET    53.72 308 iPc   52 43.90   0.7
       1.3s   156.00nm          5.9mb
HOF    53.96 309 iPc   52 45.10   0.2
MOX    54.02 310 eP    52 45.50   0.2
       1.6s   138.00nm          5.7mb
KBA    54.11 305 iPc   52 46.00  -0.2
       0.9s    44.20nm          5.5mb
                  i    52 53.80  26kmX
                  i    53 03.50
VOY    54.11 304 ePc   52 45.40  -0.7
                  e    52 52.30  23km
                  e    53 36.10
BHG    54.19 306 iPc   52 47.60   1.0
       1.5s   195.00nm          5.9mb
ORI    54.56 296 P     52 49.40   0.0
       0.9s   202.70nm          6.2mb
GRF    54.57 309 iPc   52 50.50   1.1
       1.5s   274.00nm          6.1mb
     Z  20s     2.00um          5.2Msz
                e(pP)d52 53.40  10km
KMY    54.93 321 eP    52 54.91   3.0X
FUR    55.05 307 iPc   52 53.80   0.8
GRI    55.07 295 P     52 53.00  -0.3
       0.8s    93.00nm          5.9mb
WTTA   55.13 306 iPc   52 53.50  -0.3
       1.0s   197.00nm          6.1mb
                  i    52 56.70  11km
WATA   55.15 306 iPc   52 53.50  -0.4
MGR    55.16 297 P     52 53.60  -0.3
       1.1s   257.30nm          6.2mb
SGO    55.17 297 P     52 54.00   0.1
       1.0s    87.90nm          5.7mb
GUMO   55.30 100 P     52 55.50   0.4
SQTA   55.42 306 iPc   52 55.50  -0.3
       1.3s   137.00nm          5.8mb
MOTA   55.45 306 iPc   52 55.50  -0.5
       0.9s   152.00nm          6.0mb
                  i    52 58.70  10km
CTI    55.56 305 P     52 56.00  -0.8
       0.9s    53.20nm          5.6mb
ARV    55.66 301 P     52 57.30  -0.1
       1.0s   119.30nm          5.9mb
OGA    55.67 306 iPc   52 57.50  -0.2
       1.0s    63.00nm          5.6mb
SDI    55.75 299 P     52 58.00  -0.2
       0.8s    66.60nm          5.7mb
AQU    55.78 300 P     52 58.80   0.4
       1.0s   228.60nm          6.2mb
ASS    56.01 301 P     53 00.60   0.6
       0.9s    74.90nm          5.7mb
TNS    56.07 310 ePd   53 01.00   0.7
                  e    53 06.90  19km
WIT    56.21 314 eP    53 03.00   1.8
SFI    56.23 302 P     53 02.40   1.0
       1.0s   167.00nm          6.0mb
ILT    56.25  27 iPc   53 02.00   0.7
       2.2s   252.00nm          5.9mb
MNS    56.27 300 P     53 01.20  -0.6
       0.8s   100.10nm          5.9mb
CRE    56.27 302 P     53 02.00   0.0
       1.1s    55.50nm          5.5mb
OSS    56.30 306 iPc   53 01.90  -0.3
WTS    56.41 313 eP    53 03.00   0.3
       0.9s    84.90nm          5.8mb
                  e    53 40.00 159kmX
RDP    56.49 300 P     53 03.20  -0.3
       1.2s   271.00nm          6.2mb
VDL    56.80 306 eP    53 05.50  -0.4
HOFF   56.82 309 P     53 05.93   0.2
LANF   56.91 309 P     53 06.04  -0.3
SLE    56.94 308 iPc   53 06.30  -0.3
LLS    56.96 306 iPc   53 06.30  -0.7
DAG    57.00 345 iPd   53 06.40  -0.2
       0.6s    24.00nm          5.4mb
PII    57.19 302 P     53 07.60  -0.7
       0.9s    64.40nm          5.7mb
FEL    57.19 308 P     53 07.90  -0.6
TMA    57.33 306 ePc   53 08.50  -1.1
LIBD   57.34 308 P     53 09.32  -0.1
ENN    57.37 312 iPc   53 09.60   0.1
       1.0s    96.00nm          5.8mb
                  e    53 29.00  76kmX
                  e    55 16.00
WLS    57.40 309 P     53 09.21  -0.6
CDF    57.45 309 iPc   53 09.90  -0.3
       0.9s    61.90nm          5.6mb
BOB    57.48 304 P     53 11.10   0.6
       1.0s   139.10nm          5.9mb
ECH    57.59 308 P     53 10.54  -0.7
WLF    57.65 310 iPd   53 12.37   0.9
       2.0s   102.00nm          5.5mb
MOF    57.75 308 P     53 12.06  -0.3
MMK    57.93 306 ePc   53 13.30  -0.6
BSF    57.97 308 iPc   53 13.50  -0.4
       1.0s   115.20nm          5.9mb
LOMF   58.14 308 P     53 14.48  -0.6
HAU    58.18 308 iPc   53 14.90  -0.4
       1.0s    59.40nm          5.6mb
     Z  20s     1.50um          5.1Msz
SMY    58.25  45 P     53 17.30   1.6
       0.9s   108.81nm          5.9mb
DIX    58.28 306 iPc   53 16.40   0.1
VITF   58.32 309 P     53 15.79  -0.4
DOU    58.42 311 P     53 17.30   0.4
                  e    55 27.00 710kmX
SNF    58.44 312 P     53 16.40  -0.6
FIN    58.52 304 P     53 16.11  -1.6
EMS    58.59 306 ePc   53 18.20  -0.2
PGF    58.69 302 eP    53 18.60  -0.4
       1.1s    98.15nm          5.8mb
LSD    58.69 305 P     53 19.04  -0.2
ROB    58.71 304 P     53 19.81   0.7
RSP    58.75 305 P     53 17.11  -2.3
IMI    58.85 304 P     53 19.91  -0.2
BHB    58.88 305 P     53 19.45  -0.7
LPG    58.93 306 iPc   53 21.20   0.3
       0.9s   228.00nm          6.3mb
RSL    58.94 306 P     53 19.64  -1.1
LPL    58.94 306 iPc   53 21.10   0.2
       0.9s   207.05nm          6.3mb
DOI    59.03 304 P     53 20.20  -1.1
       0.9s    46.20nm          5.6mb
ENR    59.03 304 P     53 19.72  -1.6
PZZ    59.12 304 P     53 20.36  -1.7
RRL    59.15 305 P     53 21.37  -1.0
BNI    59.17 305 P     53 22.00  -0.4
       1.1s   118.00nm          5.9mb
SBF    59.17 304 iPc   53 22.00  -0.3
       0.9s   165.10nm          6.2mb
FRF    59.82 304 iPc   53 26.20  -0.5
LMR    60.01 303 iPc   53 27.40  -0.6
       1.2s    56.85nm          5.6mb
LOR    60.01 308 iPc   53 27.00  -1.0
       1.5s   122.20nm          5.8mb
     Z  19s     1.15um          5.0Msz
LRG    60.05 304 iPc   53 28.00  -0.3
       1.5s   134.75nm          5.9mb
LBF    60.06 308 iPc   53 27.40  -1.0
       1.0s    78.40nm          5.8mb
SMF    60.29 308 iPc   53 29.30  -0.6
       1.0s   148.00nm          6.1mb
SSF    60.32 308 iPc   53 29.50  -0.6
       1.5s   152.50nm          5.9mb
AVF    60.53 308 iPc   53 31.00  -0.5
       1.1s   125.50nm          6.0mb
EKA    60.58 319 Pc    53 31.00  -0.7
       1.4s   129.40nm          5.9mb
ESK    60.61 319 eP    53 31.70  -0.2
       1.0s   100.00nm          5.9mb
HYF    60.76 309 eP    53 32.90  -0.2
BGF    60.95 308 iPc   53 33.80  -0.5
       1.0s    49.60nm          5.6mb
AGO    60.99 307 P     53 34.15  -0.5
PYM    61.20 307 P     53 35.91  -0.3
MAF    61.27 308 iPc   53 36.50  -0.1
       1.1s   119.15nm          5.9mb
LBL    61.28 307 P     53 36.33  -0.4
TCF    61.46 308 iPc   53 37.70  -0.2
       1.1s   165.10nm          6.1mb
HAE    61.70 315 eP    53 37.00  -2.3
NAI    61.72 243 iPc   53 40.70   0.4
     Z  16s     0.40um          4.7MszX
LDF    61.85 311 iPc   53 39.60  -0.8
       1.0s    67.60nm          5.8mb
LSF    61.90 308 iPc   53 40.00  -0.8
       1.0s    45.20nm          5.6mb
FLN    61.98 311 iPc   53 40.50  -0.8
       1.1s    56.15nm          5.7mb
     Z  19s     1.25um          5.1Msz
HGH    62.02 315 ePc   53 40.80  -0.7
HTR    62.08 316 ePc   53 41.30  -0.6
CAF    62.17 307 iPc   53 42.70   0.0
       0.9s    29.15nm          5.5mb
RJF    62.34 307 iPc   53 43.90   0.1
       1.2s    91.65nm          5.8mb
     Z  21s     0.95um          4.9Msz
GRR    62.38 311 eP    53 43.20  -0.7
       0.8s    61.25nm          5.8mb
LPF    62.65 311 iPc   53 44.90  -0.8
       1.0s    51.00nm          5.7mb
MFF    62.77 309 iPc   53 46.00  -0.6
       1.2s   100.55nm          5.9mb
LPO    62.83 307 eP    53 46.90  -0.1
       1.0s    43.80nm          5.6mb
LFF    62.99 307 iPc   53 48.10   0.0
       1.0s    88.40nm          5.9mb
DLF    63.27 318 iPd   53 49.60  -0.1
       1.2s   204.00nm          6.2mb
GRBF   63.48 305 P     53 50.56  -0.8
LESF   63.55 305 P     53 51.42  -0.4
DCN    63.64 318 iPd   53 52.20   0.0
       1.2s   221.00nm          6.2mb
SALF   63.74 305 P     53 51.67  -1.5
ESEL   64.05 301 iPd   53 55.94   0.8
EPF    64.16 305 iPc   53 54.90  -0.9
       0.8s    11.80nm          5.1mb
EGRA   64.99 305 iPd   53 58.49  -2.6
ELIZ   65.28 306 eP    54 04.06   1.0
NANU   65.49 153 eP    54 04.20  -0.2
```

02d 09h

```
IMA     65.65  23 iPc    54 04.90  -0.3
        1.8s   418.20nm          6.3mb
ECRI    [illegible] 19 306 eP    54 09.16   0.2
ETOF       81 304 eP     54 12.63  -0.4
TTA        88  27 eP     54 13.20   0.1
EAL[illegible]  .93 301 iPd    54 20.18   0.2
SVW        .19  28 ePc    54 22.00   0.7
EVIA    [illegible]8.24 303 iPd    54 22.26   0.2
COL     68.25  22 P      54 20.80  -0.8
        0.9s   153.31nm          6.2mb
FBA     68.25  22 iPc    54 21.20  -0.4
GUD     68.26 305 iPd    54 22.37   0.2
INK     69.27  15 eP     54 27.50  -0.3
        1.0s    42.00nm          5.6mb
CP2     69.32  27 P      54 28.60   0.2
EBAN    69.34 303 iPd    54 28.80   0.0
CRP     69.35  27 P      54 28.20  -0.4
EPLA    69.81 305 iPd    54 32.17   0.6
SDN     69.85  35 P      54 33.30   1.9
        0.7s    17.30nm          5.3mb
ELUQ    69.99 302 iPc    54 32.26  -0.5
PMR     70.17  25 ePc    54 32.80  -0.5
        0.9s    78.90nm          5.8mb
EHOR    70.50 303 iPd    54 35.90   0.1
SLKM    70.56  27 P      54 34.40  -1.4
TOA     70.77  24 eP     54 37.10   0.0
EPRU    70.96 302 iPd    54 38.02  -0.6
KLU     71.31  24 P      54 39.80  -0.6
EJIF    71.40 302 iPd    54 40.40  -0.9
EVAL    71.62 304 iPc    54 42.34  -0.2
KDC     71.63  30 eP     54 42.00  -0.2
BCAO    71.63 261 iPc    54 41.70  -1.2
        0.5s    68.00nm          6.0mb
                i        54 46.00  14km
                i        54 56.90
                i        55 10.90
MRWA    71.76 155 eP     54 43.00  -0.3
WRA     72.01 135 P      54 43.80  -1.2
        0.9s    55.30nm          5.6mb
WR2     72.02 135 iPd    54 43.70  -1.4
        1.0s    62.00nm          5.6mb
                i        54 48.70  16km
BALM    72.79  23 P      54 49.10  -0.2
BAL     73.28 155 iPd    54 51.20  -1.0
MUN     74.38 156 eP     54 57.40  -1.2
ASPA    74.77 138 iPc    55 00.00  -1.0
        1.0s    46.40nm          5.5mb
NWAO    75.59 155 eP     55 04.70  -0.8
TIO     75.79 298 iP     55 07.00  -0.1
MTD     76.44 236 iPd    54 54.60 -16.2X
LSZ     77.62 239 iPd    55 17.00  -0.4
        1.0s     2.50nm          4.2mb X
YKA     77.95  11 eP     55 18.00  -0.4
        0.8s    76.40nm          5.8mb
SIT     78.16  23 eP     55 21.10   1.6
CTA     79.26 126 iPc    55 25.50  -0.7
        1.0s    15.00nm          5.0mb
                i        55 29.50  13km
BUL     80.81 236 iPd    55 34.50  -0.1
                i        55 39.40  16km
FCC     83.40   1 eP     55 47.00  -0.3
BFT     83.93 231 iPd    55 48.50  -2.3
        1.0s    32.00nm          5.5mb
SLR     85.05 232 iPc    55 54.50  -1.8
        1.2s    39.06nm          5.5mb
STK     85.40 137 Pc     55 56.40  -1.3
        0.9s    12.90nm          5.1mb
KSR     86.01 233 eP     55 49.00 -12.1X
        1.0s    80.00nm
ADE     86.32 141 eP     56 02.10  -0.2
SEK     87.33 231 iPd    56 07.70   0.3
        1.0s   140.00nm          6.2mb
JAQ     87.40 351 eP     56 07.00  -0.4
BRS     88.64 127 iPc    56 13.50  -0.1
                i        56 17.50  13km
KIC     88.74 277 P      56 13.95  -0.4
        0.9s    24.50nm          5.5mb
BLF     88.77 231 eP     56 12.00  -2.3
        0.7s    33.00nm          5.7mb
TIC     88.78 277 P      56 13.89  -0.7
        1.1s    22.00nm          5.4mb
LIC     89.05 277 P      56 15.11  -0.7
        0.9s    17.00nm          5.3mb
MCW     89.13  20 P      56 16.50   0.7
STW     89.38  21 P      56 18.66   1.7
FRS     89.75 231 eP     56 13.50  -5.2X
JCW     89.82  20 P      56 19.91   0.8
```

```
GMW     90.18  21 P      56 21.90   1.2
WIN     90.21 241 iPd    56 21.60   0.3
        1.0s    30.00nm          5.5mb
ONR     90.51  22 P      56 24.24   2.0
RMW     90.53  20 P      56 23.40   1.0
WTV     90.80  19 P      56 24.04   0.4
SAW     90.93  18 P      56 24.82   0.6
NEW     90.95  17 P      56 24.10  -0.2
        1.0s    49.20nm          5.8mb
BMW     91.03  21 P      56 26.03   1.3
FMW     91.05  20 P      56 25.72   0.7
DPW     91.07  18 P      56 25.87   1.0
BWA     91.07 134 eP     56 10.80 -14.0X
                i        56 25.30  49kmX
                i        56 29.70
LON     91.18  20 P      56 26.31   0.9
EBG     91.37  20 P      56 27.12   0.9
GRM     91.54 228 eP     56 27.00   0.0
KMOR    91.72  22 P      56 29.40   1.5
WAH2    91.77  19 P      56 28.95   0.9
ASR     91.79  20 P      56 29.67   1.4
TOO     91.81 138 eP     56 27.90  -0.2
ULM     91.87   3 eP     56 30.00   1.6
CAN     92.05 135 iPc    56 12.30 -17.0X
                e        56 29.00  58kmX
                i        56 33.60
VGB     92.60  20 P      56 32.60   0.7
SSOR    92.73  22 P      56 34.75   2.1
VBEM    92.79  21 P      56 33.62   0.7
LMN     93.01 342 eP     56 34.00   0.2
CROR    93.03  21 P      56 35.26   1.3
VIPM    93.57  20 P      56 37.50   0.9
LRM     94.27  15 ePc    56 39.90   0.0
SUR     94.35 232 eP     56 43.00   2.9X
        1.5s   104.00nm          6.0mb
GAC     95.29 349 eP     56 44.00  -0.2
CER     95.96 232 eP     56 42.00  -5.3X
        1.0s   100.00nm          6.2mb
LBFM    96.11  23 P      56 48.70   0.3
LGPM    96.21  23 P      56 49.30   0.6
RSNY    96.26 348 P      56 48.10  -0.6
        1.0s    25.18nm          5.7mb
HHAI    96.71  15 P      56 51.20   0.3
RSSD    97.30   9 P      56 53.40  -0.3
        1.0s    26.88nm          5.8mb
BW06    97.76  13 P      56 55.30  -0.5
        1.0s     3.06nm          4.9mb
BINY    98.79 348 P      57 02.10   1.9
        0.4s     2.91nm          5.3mb
BONR   100.29  21 Pdiff  57 08.40   1.1
MSU    101.33  16 Pdiff  57 12.40   0.6
GLD    101.43  11 Pdiff  57 16.40   4.3X
PV10   102.12  14 Pdiff  57 15.70   0.4
SDV    129.34 333 iPKPd  02 29.10  -0.9
SIV    145.37 301 PKP    02 58.60  -0.5
CCH    149.70 306 PKP    03 11.00   4.6X
LPAZ   150.11 310 PKPc   03 06.80  -0.6
                i        03 11.50
LPB    150.28 310 PKP    03 03.00  -4.4X
        1.0s    26.00nm
                i        03 08.10
CNCB   150.42 310 PKP    02 59.00  -8.8X
                i        03 08.80
NNA    150.87 330 iPKPd  03 13.50   5.7X
        0.8s    32.09nm
ARE    152.18 316 ePKP   03 11.00   0.9
YJA    152.65 298 ePKPd  03 11.80   1.0
TCA    156.99 279 ePKPd  03 16.30   0.3
     S.D. = 0.9  on 355 of 381 obs.
-----------------------------------
%  OCT  02, 1993  10h 18m 10.35± 1.03s
   44.230 N ± 7.2km    8.264 E ± 7.7km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                  (545)
      ML 1.9 (GEN).

FIN      0.05 243 P      18 12.67   0.2
                S        18 13.95
ROB      0.29 283 P      18 16.56   0.1
                S        18 20.31
PCP      0.37  33 P      18 17.98   0.0
                S        18 22.78
IMI      0.42 220 P      18 18.89   0.0
                S        18 25.03
ENR      0.61 270 P      18 22.60  -0.1
                S        18 30.33
PZZ      0.88 289 P      18 27.13  -0.2
```

```
                S        18 38.62
BHB      0.94 311 P      18 28.41   0.1
                S        18 40.22
     S.D. = 0.1  on   7 of   7 obs.
-----------------------------------
   OCT  02, 1993  10h 30m 17.34± 0.19s
   4.763 N ± 4.0km   94.960 E ± 3.2km
   DEPTH =  69.8km  (  5 depth phases)
   5.3mb ( 82 obs.)
 OFF W COAST OF NORTHERN SUMATERA(705)

SNG      6.12  67 iPc    31 47.20   0.0
        0.8s   407.46nm          5.9mb
KLM      6.87 104 eP     31 56.00  -1.6
NNT      9.10  31 eP     31 48.00 -40.3X
KHT     10.58  19 eP     32 50.10   1.6
PCT     11.72  32 eP     33 06.20   2.3
        0.8s     7.80nm          4.7mb
NST     11.97  25 eP     33 09.50   2.3
BDT     13.02  17 eP     33 25.20   4.2X
        1.0s    62.10nm          5.3mb
LOE     14.21  27 eP     33 40.80   4.2X
CHTO    14.50  15 ePc    33 45.20   4.9X
        1.0s    48.50nm          4.8mb
KOD     18.17 288 eP     34 27.80   0.9
                eS       37 28.00
QIZ     20.30  44 Pc     34 51.40   1.3
HYB     20.40 309 iPd    34 50.80  -0.4
        1.0s    80.00nm          5.0mb
TRT     21.55 125 ePc    35 05.50   2.8X
KMI     21.58  19 Pc     35 04.50   1.2
        1.5s   140.00nm          5.1mb
      Z  16s     1.50um          4.5MszX
                pP       35 19.50  66km
GYA     24.30  26 iPd    35 30.40   0.6
        0.8s    96.00nm          5.3mb
LSA     25.06 352 P      35 36.40  -0.9
        0.6s    51.00nm          5.2mb
                iS       39 57.50
CD2     27.30  17 iPd    35 56.50  -0.9
        0.9s    40.00nm          5.0mb
WHN     31.49  33 Pd     36 34.50  -0.2
        1.0s    30.00nm          5.0mb
XAN     31.89  22 iPc    36 36.50  -1.7
        0.5s    67.00nm          5.7mb
      Z  18s     1.20um          4.6Msz
                S        41 43.00
                SS       43 35.00
                ScS      47 03.00
LZH     32.23  14 eP     36 39.00  -2.3
        1.5s    26.00nm          4.8mb
      Z  17s     0.73um          4.4MszX
GTA     34.77   7 eP     37 02.00  -1.2
        1.0s    28.00nm          5.1mb
                pP       37 14.00  45kmX
NJ2     35.18  37 Pd     37 07.00   0.4
        1.0s    39.00nm          5.3mb
TIY     36.47  24 Pc     37 17.90   0.3
BTO     38.16  19 eP     37 31.20  -0.6
KSH     38.57 336 P      37 35.80   0.6
        0.7s    50.00nm          5.5mb
HHC     38.90  20 P      37 38.80   0.8
        0.8s    21.00nm          5.1mb
MTN     39.97 116 eP     37 46.50  -0.4
BJI     39.99  26 eP     37 48.00   1.2
        0.8s    30.00nm          5.3mb
DL2     41.72  32 eP     38 02.00   1.0
        1.0s   130.00nm          5.7mb
FRU     41.99 338 iP     38 04.20   0.9
        2.0s   110.00nm          5.3mb
KUMJ    43.42  46 eP     38 14.60  -0.4
SNY     44.88  30 Pc     38 26.20  -0.4
        0.6s    30.00nm          5.3mb
WRA     45.84 124 P      38 31.00  -3.5X
        0.7s    23.70nm          5.2mb
WR2     45.86 124 eP     38 33.70  -1.0
        0.9s    23.30nm          5.1mb
                ipP      38 46.60  48kmX
                ePP      39 36.10
ZAK     46.00   7 eP     38 34.00  -1.3
        1.0s    10.00nm          4.7mb
TKSJ    46.48  46 P      38 40.00   0.6
YONJ    46.68  45 P      38 40.80  -0.1
ASH     46.93 320 eP     38 43.00   0.1
CN2     47.26  30 eP     38 44.80  -0.6
        0.8s    94.00nm          5.8mb
                epP      38 58.60  52kmX
```

```
ASPA    47.33 128 eP    38 46.20  -0.1
        0.8s    14.80nm         5.0mb
WKYJ    47.71  47 P     38 50.40   1.2
CIT     49.56  15 eP    39 02.50  -0.7
MDJ     49.96  32 eP    39 06.00  -0.2
        1.3s    33.00nm         5.2mb
QIS     50.53 121 eP    39 11.00   0.0
MAT     50.69  45 (P)   39 12.00   0.0
        0.7s     4.79nm         4.6mb
KMSA    51.41 292 iPd   39 16.67  -1.1
MJMA    51.91 299 iPd   39 21.87   0.4
DHJN    51.92 289 iPd   39 22.67   0.8
AFIF    53.35 297 iPd   39 33.87   1.7
UQSK    54.45 298 iPd   39 41.33   1.1
CTA     56.11 118 ePc   39 51.00  -1.2
STK     57.39 133 eP    40 01.00  -0.1
        3.9s     4.60nm         4.0mb X
SVE     58.56 339 ePd   40 07.90  -1.0
        1.2s    60.00nm         5.6mb
                e       41 03.00 245kmX
YSS     58.76  36 (P)   40 11.00   0.6
ARU     59.02 337 eP    40 11.00  -1.1
        1.8s    60.00nm         5.4mb
TOO     63.05 137 eP    40 47.20   7.6X
        0.9s    18.00nm         5.1mb
BWA     63.63 132 e(P)  40 42.40  -1.2
BRS     64.26 123 iP    40 48.50   0.7
                i       40 56.50  26kmX
                i       45 40.00
ARMA    64.44 127 eP    41 04.70  15.7X
        1.0s    16.00nm
CAN     64.46 133 eP    40 50.30   1.3
                i       41 05.30  54kmX
NRI     64.70 357 iPd   40 47.20  -2.6
        1.0s    45.00nm         5.4mb
                e       41 13.00 103kmX
KAS     65.43 314 eP    40 54.50  -0.7
ELL     67.25 308 iP    41 05.00  -1.9
ALT     67.57 310 eP    41 07.10  -1.8
MOS     68.15 329 eP    41 11.00  -0.9
                e       41 39.00 112kmX
OBN     68.41 328 iPd   41 12.50  -1.1
        1.8s   200.00nm         5.8mb
                e       41 39.00 105kmX
LSZ     69.04 252 iPc   41 19.00   0.7
BUL     69.67 247 iPc   41 23.50   1.4
BFT     69.78 241 iPd   41 22.00  -0.8
        0.4s     7.00nm         4.9mb
TIK     70.10  11 eP    41 24.00   0.4
        1.0s    19.00nm         5.0mb
                i       41 52.00 111kmX
CFR     70.37 316 eP    41 25.00  -0.8
CLI     71.28 318 ePc   41 31.50   0.2
SLR     71.32 241 iPc   41 32.60   0.5
        0.7s    23.97nm         5.2mb
      Z  20s     2.48um         5.5Msz
VRI     71.51 317 iPd   41 32.50  -0.2
CSY     71.77 173 eP    41 53.20  19.4X
        0.9s     8.00nm
MLR     71.96 316 iPd   41 35.50  -0.1
PTT     71.97 318 eP    41 28.00  -7.4X
KSR     72.56 241 iPc   41 22.00 -17.5X
        0.4s    10.00nm
SEK     72.56 239 iPc   41 40.20   0.7
        0.9s    33.00nm         5.3mb
BLF     73.99 238 e(P)  41 50.00   2.3
OHR     74.96 311 iP    41 51.00  -2.0
        0.8s    40.00nm         5.4mb
UZH     75.00 319 eP    41 53.00   0.0
        1.0s    42.00nm         5.3mb
      Z  23s     2.80um         5.5MszX
      N  23s     3.30um
      E  23s     3.50um
                e       42 11.50  68km
KAF     75.91 333 iP    41 57.20  -0.7
        0.5s    18.10nm         5.3mb
BCAO    76.14 273 iPc   42 00.60   0.4
        0.2s    56.00nm         6.2mb
                i       42 18.00  63km
NUR     76.24 331 iP    41 59.10  -0.7
        0.4s     7.90nm         5.0mb
SPC     76.43 319 eP    42 01.20  -0.2
OJC     76.87 320 iPc   42 03.60   0.1
        0.9s   111.00nm         5.8mb
                i       42 11.40  25kmX
SDF     77.48 338 iP    42 06.70   0.1
SRO     77.52 318 iPd   42 11.10   4.0X
ZST     78.37 318 iPd   42 11.70  -0.1
        0.9s    63.00nm         5.6mb
VKA     78.90 318 iPd   42 15.00   0.3
PTJ     78.94 316 eP    42 14.70  -0.4
KSP     79.17 321 iPd   42 16.60   0.5
        1.1s    43.00nm         5.3mb
SUR     79.26 236 iPc   42 22.50   5.3X
        1.0s   140.00nm         5.8mb
VBY     79.40 315 iPd   42 17.50   0.0
                i       42 37.90  76km
UPP     79.54 330 iP    42 16.80  -1.1
LJU     79.94 316 eP    42 21.00   0.6
                e       42 26.00  16kmX
                e       42 47.00
PRU     80.21 320 iPd   42 21.90   0.2
        1.0s    28.80nm         5.2mb
                e       42 28.60  21kmX
VOY     80.39 316 eP    42 21.50  -1.4
BRG     80.65 321 iPd   42 23.70  -0.3
        1.0s    32.00nm         5.2mb
WIN     80.66 246 iPd   42 26.50   1.6
        0.7s    25.00nm         5.3mb
GEC2    80.68 319 e(P)  42 24.70   0.3
        0.8s    28.90nm         5.3mb
KHC     80.78 319 P     42 25.50   0.7
        1.0s    12.50nm         4.8mb
                e       42 46.00  76km
KBA     80.82 317 iPd   42 24.90  -0.3
        0.9s    20.80nm         5.1mb
WET     81.24 319 iPd   42 27.80   0.6
        1.3s    48.00nm         5.3mb
CLL     81.27 321 iPd   42 27.60   0.3
        1.4s    35.00nm         5.1mb
HFS     81.54 330 eP    42 27.80  -0.6
        0.5s    11.30nm         5.0mb
HOF     81.94 320 iPc   42 31.50   0.7
WTTA    81.99 317 iPc   42 30.40  -1.0
        0.6s    20.90nm         5.3mb
WATA    82.04 317 i(P)  42 30.80  -0.7
MOX     82.12 320 eP    42 32.40   0.7
        1.6s    33.00nm         5.0mb
SQTA    82.28 317 iPc   42 32.10  -0.7
        0.5s    22.80nm         5.4mb
GRF     82.34 319 iPd   42 33.90   1.0
        0.8s    29.00nm         5.3mb
MOTA    82.36 317 iPc   42 32.30  -0.9
        1.1s    54.40nm         5.4mb
OGA     82.40 317 eP    42 33.40  -0.1
        0.7s    25.00nm         5.3mb
OSS     83.00 316 iPd   42 37.30   0.7
LLS     83.79 316 ePd   42 40.80   0.2
PGF     83.83 312 eP    42 40.60  -0.2
        1.3s    76.20nm         5.6mb
TMA     83.88 316 ePd   42 40.70  -0.4
MOL     84.61 332 iPd   42 44.39   0.3
DIX     84.90 316 ePd   42 47.30   1.0
CDF     84.93 318 eP    42 45.70  -0.5
        0.7s     8.60nm         4.9mb
SBF     84.95 313 eP    42 46.20  -0.1
        1.1s    71.80nm         5.6mb
EMS     85.23 316 ePd   42 48.40   0.5
BSF     85.27 317 eP    42 47.20  -0.7
LPG     85.38 315 eP    42 48.70   0.0
        0.8s    23.65nm         5.3mb
LPL     85.39 315 eP    42 48.70   0.0
        0.9s    37.65nm         5.5mb
FRF     85.53 313 eP    42 49.20   0.1
        0.6s    13.10nm         5.2mb
HAU     85.57 318 eP    42 48.80  -0.5
        0.9s    35.40nm         5.4mb
LMR     85.64 313 eP    42 49.70   0.0
        1.2s    41.95nm         5.4mb
LRG     85.74 313 eP    42 50.40   0.2
        0.9s    28.15nm         5.3mb
LBF     87.23 317 eP    42 57.20  -0.2
        0.7s     8.95nm         5.0mb
LOR     87.29 317 eP    42 57.50  -0.2
        1.0s    30.00nm         5.4mb
SMF     87.34 316 eP    42 57.70  -0.3
        0.8s    24.30nm         5.4mb
SSF     87.54 317 eP    42 58.80  -0.1
        0.7s     8.25nm         5.0mb
AVF     87.67 317 eP    42 59.30  -0.2
        0.8s     9.65nm         5.0mb
BGF     88.03 316 eP    43 01.60   0.3
        0.8s    19.35nm         5.3mb
HYF     88.11 317 eP    43 02.20   0.6
MAF     88.25 316 eP    43 02.50   0.2
        0.7s    11.70nm         5.2mb
TCF     88.49 316 eP    43 03.60   0.1
LSF     88.97 316 eP    43 05.80   0.1
LPO     89.37 315 eP    43 08.30   0.6
        0.7s    11.45nm         5.2mb
LDF     89.82 319 eP    43 09.80   0.1
        0.8s    23.90nm         5.5mb
FLN     90.04 319 eP    43 10.80   0.1
        0.8s    27.65nm         5.6mb
MFF     90.08 317 eP    43 11.20   0.3
GRR     90.34 318 eP    43 12.50   0.5
        0.8s    21.75nm         5.5mb
LPF     90.50 318 eP    43 13.30   0.5
        1.0s    36.20nm         5.6mb
DAG     90.69 348 eP    43 13.00  -0.2
        0.6s     6.00nm         5.1mb
LRM    124.04  23 ePKP  49 14.20   4.4X
BW06   127.72  23 ePKP  49 16.53  -0.5
RSSD   128.42  17 ePKP  49 18.16  -0.1
DUG    128.49  27 ePKP  49 18.33  -0.1
MSU    130.14  28 ePKP  49 22.80   1.1
                eSKP    52 40.20
SRU    130.40  26 ePKP  49 22.56   0.4
PV10   131.65  25 ePKP  49 25.20   0.6
LTX    141.67  27 ePKP  49 40.89  -2.4X
PPD    143.11 239 (PKP) 49 45.00  -0.9
SIV    153.95 243 PKP   50 02.80  -0.2
CNCB   159.43 233 PKP   50 12.80   2.3X
                i       50 50.70
LPB    159.68 234 (PKP) 50 16.00   5.5X
LPAZ   159.84 234 PKP   50 12.00   1.0
                i       50 51.80
     S.D. = 0.9  on 144 of 161 obs.
-----------------------------------
&  OCT  02, 1993  11h 58m 04.12s
   58.473 N          152.956 W
   DEPTH =  75.8km
 KODIAK ISLAND REGION            ( 13)
     <AEIC>.

CDD     0.58 322 eP     58 17.57  -0.9
                eS      58 28.70
KDC     0.77 161 eP     58 19.00  -1.4
                eS      58 30.86
AUI     0.90 344 eP     58 21.02  -0.9
                eS      58 33.93
AUE     0.91 347 iP     58 21.47  -0.6
AGU     0.92 345 eP     58 21.64  -0.7
AUP     0.92 345 eP     58 21.49  -0.9
AUH     0.93 344 iP     58 21.49  -0.9
AUW     0.94 344 iP     58 21.53  -0.9
AUL     0.95 345 eP     58 21.91  -0.6
XLV     1.17  32 eP     58 24.89  -0.5
OPT     1.19 353 iP     58 24.67  -1.0
                eS      58 40.55
HOM     1.37  29 eP     58 26.98  -0.9
CNPM    1.38  39 eP     58 26.92  -1.2
                eS      58 44.14
PDB     1.46 335 iP     58 27.61  -1.6
                eS      58 45.10
INE     1.59 358 eP     58 29.66  -1.4
ILIM    1.61 360 eP     58 29.58  -1.7
BRLK    1.68  39 eP     58 30.48  -1.6
                eS      58 49.89
RS2     2.00   3 eP     58 34.84  -1.8
RDW     2.02   2 iP     58 35.32  -1.6
REF     2.03   4 iP     58 35.21  -1.8
NCT     2.10   0 eP     58 36.25  -1.6
RDT     2.13   7 eP     58 36.30  -2.0
DFR     2.13   4 eP     58 36.76  -1.6
NKA     2.44  20 eP     58 42.40  -0.1
SLKM    2.47  33 eP     58 40.74  -2.3
BKG     2.63   7 eP     58 43.44  -1.8
MPA     2.73  41 eP     58 44.68  -1.8
CKL     2.75   6 eP     58 45.29  -1.7
BGL     2.81   6 eP     58 46.21  -1.6
CP2     2.82   7 eP     58 45.79  -2.3
CRP     2.83   8 eP     58 45.33  -2.8
CGLM    2.88   9 eP     58 47.04  -1.7
SVW     2.97 334 P      58 48.00  -1.9
NCG     2.97   7 eP     58 47.62  -2.3
PWL     3.35  42 eP     58 52.61  -2.6
KNK     3.72  36 eP     58 57.37  -3.0
HIN     3.82  57 eP     58 59.61  -2.1
     37 obs. associated
-----------------------------------
```

02d 13h

```
*  OCT  02, 1993  13h 53m 56.25± 1.40s
   45.246 N ±26.3km  151.783 E ±16.4km
   DEPTH =  43.8km  (  2 depth phases)
   4.5mb ( 11 obs.)
 KURIL ISLANDS                        (221)

KUSJ     5.52 250 eP     55 15.80   -2.3
                  eS     56 15.10
ASAJ     6.61 263 eP     55 33.90    0.5
HOOJ     6.78 248 eP     55 35.70    0.0
                  eS     56 49.70
CN2     18.81 275 eP     58 14.00   -0.6
         1.0s    14.00nm          4.1mb
SNY     20.69 271 eP     58 35.40    0.6
BJI     26.56 271 eP     59 35.00    3.3X
         1.2s     8.00nm          4.2mb
HHC     29.50 276 P      00 00.30    1.8
         1.0s    14.00nm          4.6mb
LZH     37.02 273 eP     01 05.00    1.4
         1.4s    23.00nm          4.9mb
FBA     37.92  37 eP     01 10.87    0.3
         0.8s     3.01nm          4.3mb
GTA     38.31 280 eP     01 15.10    0.8
         1.4s    17.00nm          4.7mb
LRM     62.85  51 eP     04 20.40    0.4
                  e      04 32.60   42km
KAF     64.42 335 iP     04 29.20   -0.5
         0.5s     2.90nm          4.6mb
NUR     66.17 334 iP     04 40.00   -0.9
         0.4s     3.60nm          4.8mb
NB2     69.35 341 P      05 00.50   -0.4
         0.7s     4.50nm          4.6mb
HFS     69.54 339 eP     05 01.00   -1.0
         0.4s     3.60nm          4.7mb
GEC2    79.39 333 P      05 58.90   -0.1
         0.5s     0.69nm          3.9mb
                  e      06 12.30   46km
     S.D. = 1.1  on  15 of  16 obs.
-----------------------------------------
&  OCT  02, 1993  13h 59m 53.63s
   40.301 N          124.375 W
   DEPTH =   8.6km
 NEAR COAST OF NORTHERN CALIF.        ( 35)
      <GM-P>. MD 2.8 (GM).

KJJM     0.07 136 P      59 56.25    0.3
KCTM     0.18  10 P      59 58.13    0.6
KMPM     0.23  59 iPd    59 58.82    0.4
KBBM     0.42 104 P      00 02.97    0.9
KCRM     0.44  73 P      00 03.42    0.8
KBRM     0.53  37 P      00 05.05    0.6
FHC      0.58  31 ePc    00 05.89    0.5
                  eS     00 14.75
KGMM     0.70  49 P      00 08.13    0.4
KHMM     0.75  40 P      00 08.63    0.0
KPPM     0.78  86 P      00 09.52    0.5
KKPM     0.81 101 P      00 08.64   -0.9
KIPM     0.84 125 P      00 09.89   -0.3
KRPM     0.90  17 P      00 12.93    1.9
KFPM     0.99 132 P      00 11.50   -1.0
KOMM     1.20  35 P      00 14.81   -1.4
GNAM     1.24 152 P      00 14.78   -2.1
LGPM     1.33  62 ePc    00 16.76   -1.6
                  eS     00 35.76
WDC      1.43  78 eP     00 18.00   -1.8
LBKM     1.52  58 P      00 19.78   -1.4
LGBM     1.96  57 P      00 26.98   -0.6
LMPM     2.05  54 P      00 28.78   -0.2
LMEM     2.15  83 (P)    00 29.80   -0.6
LBFM     2.16  60 eP     00 29.30   -1.2
LSLM     2.17  86 P      00 29.04   -1.6
LCMM     2.19  93 P      00 36.29    5.3
ORV      2.33 108 eP     00 31.46   -1.4
       26 obs. associated
-----------------------------------------
%  OCT  02, 1993  14h 07m 00.37± 4.56s
   45.887 N ±30.1km    3.790 E ±18.7km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                               (538)
      ML 1.8 (LDG).

SMF      0.76   3 Pg     07 15.00   -0.2
                  Sg     07 26.00
MAF      0.92 292 Pg     07 18.00    0.1
                  Sg     07 30.10
BGF      0.94 316 Pg     07 18.20   -0.1
                  Sg     07 32.20
AVF      0.95 342 Pg     07 18.60    0.1
                  Sg     07 31.60
LBF      1.11   7 Pg     07 20.90   -0.3
                  Sg     07 36.80
TCF      1.17 291 Pg     07 22.10   -0.2
                  Sg     07 37.80
SSF      1.19 351 Pg     07 22.80    0.2
                  Sg     07 38.50
LOR      1.38   2 Pg     07 26.00    0.3
                  Sg     07 44.70
     S.D. = 0.2  on   8 of   8 obs.
-----------------------------------------
*  OCT  02, 1993  14h 53m 04.73± 0.85s
    9.325 N ± 9.0km  127.098 E ±12.1km
   DEPTH =  10.0km  (geophysicist)
   4.4mb (  4 obs.)
 PHILIPPINE ISLANDS REGION            (248)

BIP      1.38 218 iPc    53 28.50   -1.5
                  iS     53 40.00
PLP      2.77 311 ePd    53 50.50    0.5
MAP      3.23 288 ePc    53 57.00    0.5
                  eS     54 41.00
CTB      3.56 234 eP     54 02.00    0.8
SSE     22.35 347 Pc     58 02.80   -1.5
         1.2s    15.00nm          4.3mb
                  pP     58 11.00   29kmX
WR2     29.96 166 eP     59 14.70   -0.9
         0.6s     2.80nm          4.3mb
BJI     32.10 344 eP     59 34.50    0.3
         1.4s    12.00nm          4.6mb
ASPA    33.46 169 eP     59 46.20   -0.1
         1.2s     8.60nm          4.6mb
BRS     44.17 146 iP     01 17.50    1.8
     S.D. = 1.3  on   9 of   9 obs.
-----------------------------------------
   OCT  02, 1993  15h 54m 05.52± 0.33s
   37.552 N ± 3.1km  140.459 E ± 3.3km
   DEPTH = 101.9 ±  3.1 km
   5.0mb ( 59 obs.)
 EASTERN HONSHU, JAPAN                (227)
      Mw 5.0 (HRV).
      CENTROID, MOMENT TENSOR         (HRV)
      Data Used: GDSN
      L.P.B.: 11S, 13C
      Centroid Location:
      Origin Time        15:54: 9.7 1.2
      Lat 37.56N 0.13 Lon 140.52E 0.10
      Dep 105.811.0 Half-duration  1.1
      Moment Tensor;   Scale 10**16 Nm
        Mrr= 2.89 0.37  Mtt=-0.56 0.73
        Mff=-2.33 0.61  Mrt=-2.02 0.89
        Mrf=-0.96 0.71  Mtf= 1.69 0.51
       Principal Axes:
        T  Val=  4.22  Plg=59  Azm=152
        N       -0.85      31      326
        P       -3.37       2       57
      Best Double Couple:Mo=3.8*10**16
       NP1:Strike=175 Dip=50 Slip= 131
       NP2:        301     55       51

YAMJ     0.70 332 iP+    54 23.60    0.2
                  S      54 36.40
NIIJ     1.20 255 iP+    54 29.10    0.5
                  S      54 46.40
KAKJ     1.36 190 iPd    54 29.10   -1.4
                  S      54 46.10
OFUJ     1.80  32 P      54 35.70   -0.3
                  eS     54 58.00
CHJJ     1.91 218 iPd    54 37.40    0.0
                  eS     55 00.20
MAT      2.06 241 iPd    54 40.50    1.0
                  eS     55 02.00
MTMJ     2.33 246 iPd    54 44.10    0.9
IIDJ     2.91 226 iPd    54 51.80    0.9
AOMJ     3.00 359 P      54 52.90    0.8
TSRJ     4.13 242 iPd    55 09.00    1.5
MRRJ     4.89   5 eP     55 16.20   -1.7
                  eS     56 14.70
WKYJ     5.16 231 iPd    55 20.90   -0.9
HOOJ     5.29  23 eP     55 20.70   -2.8
                  eS     56 19.00
YONJ     6.12 249 eP     55 35.90    0.9
TKSJ     6.31 238 iPd    55 37.20   -0.4
KUSJ     6.42  29 eP     55 34.30   -4.8X
                  eS     56 42.50
ASAJ     6.77  13 eP     55 39.80   -4.0X
SHK      6.99 247 eP     55 47.20    0.3
SHNJ     8.33 249 P      56 07.40    2.3
VLA      8.58 313 iPc    56 10.00    1.4
         1.4s   128.00nm          5.5mb
KUMJ     9.35 240 P      56 19.10    0.1
KUR      9.48  34 eP     56 16.50   -4.2X
         0.6s   230.00nm          6.2mb X
                  eS     57 57.50
YSS      9.60   9 ePc    56 18.80   -3.6X
         0.7s    20.00nm          5.1mb
                  (S)    58 00.00
KAGJ    10.14 234 P      56 28.20   -1.5
SSE     17.16 254 Pc     58 00.50    0.3
SSE     17.16 254 P      58 02.30    2.1
         1.0s    74.00nm          4.9mb
      Z  16s     0.40um
                  sP     58 17.50
                  PP     58 26.00
                  S      01 46.00
BJI     19.08 285 eP     58 19.50   -3.0X
         1.3s    20.00nm          4.3mb
CIT     23.74 316 eP     59 07.00   -2.1
YAK     25.38 348 iPd    59 22.90   -1.6
         1.0s    40.00nm          4.8mb
                  i      59 43.00
                  eS     03 43.00
LZH     29.23 278 P      59 59.40   -0.5
         1.2s    75.00nm          5.2mb
ZAK     29.35 308 eP     00 00.50    0.0
         1.1s    10.00nm          4.4mb
ADK     33.14  50 eP     00 32.04   -1.6
         0.7s     7.99nm          4.7mb
TIK     34.67 354 ePc    00 46.00   -0.6
         0.6s    16.00nm          5.1mb
                  e      01 07.00
ILT     37.88  24 eP     01 12.00   -1.7
NRI     42.32 335 ePd    01 48.00   -2.2
SDN     42.97  46 eP     01 54.40   -1.3
NNT     43.99 247 eP     02 04.70    0.3
                  e      11 00.00
SVW     45.56  38 iPc    02 17.53    1.1
         0.7s    75.76nm          5.6mb
                  epP    02 39.06   90kmX
                  esP    02 48.46
IMA     46.63  31 ePc    02 25.10    0.1
         0.7s     8.14nm          4.7mb
CRP     47.23  37 (P)    02 30.00    0.2
                  esP    03 01.25
KDC     47.28  42 ePc    02 29.34   -0.6
         0.5s    15.93nm          5.1mb
SLKM    48.22  38 ePc    02 35.94   -1.4
PMR     48.67  37 ePc    02 39.94   -0.7
         0.6s    22.69nm          5.2mb
                  epP    03 01.66   89kmX
                  esP    03 10.53
FBA     49.07  32 (P)    02 43.40   -0.4
         0.6s     7.49nm          4.8mb
                  esP    03 15.13
TOA     50.02  36 iPc    02 51.90    0.8
                  e      03 23.30
KLU     50.21  37 ePc    02 52.64    0.1
                  epP    03 14.06   87kmX
                  esP    03 24.05
MTN     50.89 192 eP     02 58.00    0.0
BALM    51.98  37 ePc    03 05.79   -0.3
                  esP    03 36.34
LEM     53.74 222 iPc    03 18.00   -1.5
SVE     54.26 318 ePd    03 22.90    0.1
INK     54.28  27 ePc    03 22.80    0.1
         1.0s    27.00nm          5.2mb
ARU     55.46 318 iPc    03 30.40   -1.0
HYB     57.46 268 eP     03 45.00   -1.2
                  e      04 08.00
WRA     57.48 187 P      03 44.70   -1.4
         0.8s    11.60nm          5.0mb
WR2     57.48 187 iPd    03 44.00   -2.1
         0.8s    21.10nm          5.2mb
                  e      04 06.10
CTA     57.59 174 iPc    03 45.50   -1.3
QIS     57.80 181 iPd    03 46.70   -1.6
GBA     60.50 265 Pd     04 06.60   -0.5
         0.5s     3.00nm          4.6mb
ASPA    61.20 187 iPc    04 10.20   -1.5
         0.9s    19.40nm          5.1mb
YKA     63.74  30 eP     04 27.30   -0.8
         0.6s     6.80nm          4.8mb
DZM     64.15 153 iPc    04 31.20   -0.1
```

```
NANU   64.23 206 iPc   04 31.20  -0.5
DAG    65.20 355 iPd   04 37.20  -0.2
       0.5s    15.49nm         5.2mb
BRS    65.63 168 iPd   04 41.00   0.4
                 i     05 02.50
OBN    67.22 323 eP    04 49.00  -1.5
       0.6s    29.00nm         5.4mb
                 e     05 12.00
GMW    67.48  47 eP    04 52.54   0.3
                 epP   05 15.43  89kmX
                 esP   05 25.46
KAF    67.50 332 iP    04 51.20  -0.9
       0.4s    26.30nm         5.5mb
JCW    67.63  46 P     04 53.63   0.4
BMW    67.78  48 eP    04 54.45   0.2
                 esP   05 26.02
KMOR   68.06  49 P     04 56.62   0.6
RMW    68.09  46 eP    04 56.37   0.2
                 epP   05 19.53  90kmX
ARMA   68.42 170 iPd   04 58.00  -0.3
       0.6s    19.00nm         5.2mb
FMW    68.45  47 P     04 58.82   0.3
RNO    68.82  50 P     05 01.94   1.2
ASR    68.91  48 P     05 01.70   0.4
FORT   68.96 191 iPd   05 01.10  -0.3
       0.5s    35.00nm         5.4mb
WTV    69.02  46 P     05 01.67  -0.2
STK    69.08 179 eP    05 01.60  -0.5
       0.8s     9.40nm         4.7mb
                 e     05 23.50
SSOR   69.09  49 P     05 03.15   0.7
EBG    69.10  46 P     05 02.83   0.5
NUR    69.13 332 iP    05 01.40  -0.8
       0.3s    16.00nm         5.3mb
SAW    69.33  45 P     05 03.65  -0.1
WAH2   69.76  46 P     05 06.59   0.3
CROR   69.90  48 P     05 07.75   0.4
DPW    69.91  45 eP    05 07.07  -0.2
                 epP   05 30.15  89kmX
                 esP   05 39.42
MRWA   70.26 203 eP    05 08.70  -0.8
NEW    70.29  44 ePc   05 09.53  -0.1
       0.7s    34.57nm         5.3mb
                 epP   05 32.44  88kmX
                 esP   05 41.53
VIPM   70.38  49 P     05 10.72   0.3
LGPM   71.00  53 ePc   05 14.65   0.5
                 epP   05 38.08  90kmX
                 esP   05 46.84
LBFM   71.35  52 ePc   05 16.47   0.1
                 epP   05 39.90  90kmX
                 esP   05 49.31
WDC    71.37  53 P     05 16.60   0.4
       1.1s    16.83nm         4.8mb
ORV    72.60  53 ePc   05 22.97  -0.5
JEGM   73.14  56 (P)   05 21.14  -5.5X
HFS    73.30 335 eP    05 26.10  -1.1
       0.3s     3.80nm         4.7mb
NB2    73.41 337 P     05 27.40  -0.5
       0.8s    11.20nm         4.7mb
LRM    74.31  44 eP    05 34.10   0.5
                 e     05 57.70
                 e     06 06.90
BONR   75.57  53 eP    05 41.48   0.5
                 epP   06 04.87  89kmX
                 esP   06 14.36
PTI    76.18  46 eP    05 45.45   1.3
TNP    76.18  53 ePc   05 44.35   0.0
       0.8s    24.89nm         5.1mb
HVU    76.62  47 ePc   05 47.33   0.7
                 epP   06 09.64  84kmX
                 esP   06 20.13
ABL    76.81  56 eP    05 47.77  -0.2
TPNV   77.48  53 ePc   05 52.00   0.5
       0.7s    21.08nm         5.1mb
                 epP   06 14.18  84kmX
DUG    77.59  49 ePd   05 52.73   0.7
       0.7s    13.62nm         4.9mb
                 epP   06 16.39  90kmX
BW06   77.84  45 ePc   05 53.60   0.2
       0.8s    12.03nm         4.8mb
                 epP   06 16.16  85kmX
                 esP   06 25.51
GSC    78.12  55 ePc   05 55.02   0.1
DAU    78.38  48 eP    05 56.69   0.1
ARUT   78.72  51 eP    05 58.78   0.5
                 e     06 16.73
EMUT   79.02  48 eP    06 00.57   0.6
MSU    79.03  50 ePc   06 01.17   1.1
                 epP   06 23.32  83kmX
                 esP   06 33.35
KSP    79.26 328 iPc   06 01.20   0.5
PLM    79.28  56 eP    06 01.71   0.3
ULM    79.49  33 eP    06 04.00   2.1
SRU    79.64  48 ePc   06 03.93   0.7
                 epP   06 25.63  81kmX
RSSD   79.95  41 eP    06 04.78  -0.1
       0.6s     8.40nm         4.7mb
                 epP   06 26.79  82kmX
                 esP   06 37.45
BRG    80.22 329 iP    06 05.00  -0.8
       0.8s    14.00nm         4.8mb
CLL    80.27 330 iPc   06 05.90  -0.2
       1.2s    26.00nm         4.9mb
     Z  22s     4.50um         5.8Msz
                 e     06 40.00
SRO    80.60 325 iP    06 12.00   4.1X
PRU    80.64 328 iPc   06 08.30   0.2
       1.0s    17.40nm         4.8mb
GLA    80.80  55 ePc   06 10.05   0.8
                 epP   06 32.83  86kmX
PV09   80.86  48 (P)   06 11.10   1.2
ZST    80.87 326 eP    06 09.40   0.1
                 e(PP) 22 11.00
                 e     32 16.60
PV10   81.00  48 ePc   06 11.59   1.0
                 epP   06 34.08  84kmX
                 esP   06 43.93
PV08   81.10  48 ePc   06 11.81   0.6
MOX    81.34 330 eP    06 11.60  -0.1
       1.5s    19.00nm         4.7mb
KHC    81.70 328 ePKP  06 13.50  -0.2
       1.0s    12.90nm         4.7mb
                 e     06 38.50
GEC2   81.87 328 P     06 14.70   0.1
       0.6s     3.62nm         4.4mb
                 e     06 17.90
                 e     06 38.60
GOL    82.24  45 eP    06 17.35   0.4
       1.0s     7.95nm         4.5mb
                 epP   06 39.16  81kmX
GRF    82.24 329 iPc   06 17.20   0.8
       1.3s    58.00nm         5.3mb
GLD    82.29  45 eP    06 17.74   0.6
       1.5s    35.98nm         5.0mb
BHG    83.09 327 iPc   06 21.50   0.6
FUR    83.42 329 eP    06 23.30   0.8
TUC    83.89  54 ePc   06 27.17   1.9
       0.8s    10.44nm         4.8mb
                 epP   06 50.06  85kmX
                 esP   06 59.12
CDF    84.83 331 eP    06 29.80   0.1
       0.8s    18.95nm         5.1mb
ALQ    84.84  49 ePc   06 31.12   1.0
       1.0s    13.62nm         4.8mb
                 epP   06 53.46  83kmX
                 esP   07 04.13
DLF    85.11 341 eP    06 31.50   0.6
BSF    85.49 331 eP    06 32.60  -0.4
HAU    85.52 331 eP    06 32.80  -0.3
       0.7s    15.00nm         5.1mb
LOR    87.07 332 eP    06 40.60  -0.1
       1.0s    18.80nm         5.1mb
LBF    87.26 332 eP    06 41.40  -0.3
       0.7s     4.95nm         4.6mb
FLN    87.32 335 eP    06 41.50  -0.3
       0.6s     4.70nm         4.7mb
LDF    87.35 335 eP    06 41.80  -0.2
       0.8s    14.65nm         5.1mb
SSF    87.37 332 eP    06 42.10   0.0
       1.1s    18.80nm         5.0mb
LPL    87.40 329 eP    06 42.40  -0.2
LPG    87.41 329 eP    06 42.60  -0.1
       0.7s     7.70nm         4.8mb
SMF    87.60 332 eP    06 43.60   0.4
AVF    87.66 332 eP    06 43.60   0.1
       0.7s     9.50nm         4.9mb
MAF    88.43 332 eP    06 47.90   0.7
MFF    89.08 334 eP    06 50.60   0.3
       0.7s     7.95nm         5.0mb
CAF    89.72 332 eP    06 54.00   0.6
LFF    90.19 333 eP    06 56.10   0.6
LPO    90.25 332 eP    06 56.20   0.4
LTX    90.40  52 ePc   06 57.02   0.1
                 epP   07 20.33  86kmX
GAC    91.03  24 eP    06 59.00  -0.3
RSNY   92.37  24 eP    07 05.66   0.1
       0.5s     4.59nm         5.1mb
MIAR   92.45  42 eP    07 06.32   0.3
       0.9s    11.49nm         5.2mb
                 epP   07 29.31  84kmX
KIC   125.58 316 PKP   12 56.20  -0.7
LPAZ  147.07  58 PKPd  13 37.60   0.7
LPB   147.27  58 PKPc  13 40.20   3.3X
       0.9s    45.38nm
CNCB  147.55  58 iPKPc 13 38.80   1.3
                 i     14 05.20
CCH   149.19  57 PKP   13 44.10   4.3X
ANT   150.21  71 iPKPc 13 47.20   6.4X
SIV   151.31  47 PKP   13 43.10   0.5
     S.D. = 0.9  on 152 of 162 obs.
-----------------------------------
   OCT  02, 1993  16h 02m 00.71± 0.23s
    3.444 S ± 4.0km  148.805 E ± 5.7km
   DEPTH =  36.8km  (  8 depth phases)
   5.2mb ( 40 obs.)  5.9Msz ( 49 obs.)
 BISMARCK SEA                      (203)
      Mw 6.0 (HRV). Mo=1.6*10**18 Nm
      (PPT).
      CENTROID, MOMENT TENSOR    (HRV)
      Data Used: GDSN
      L.P.B.: 47S, **C
      Centroid Location:
      Origin Time       16:02: 2.5 0.2
      Lat  3.24S 0.02 Lon 149.09E 0.02
      Dep  15.0 FIX Half-duration  2.5
      Moment Tensor;   Scale 10**17 Nm
        Mrr=-0.54 0.14  Mtt= 6.71 0.16
        Mff=-6.18 0.19  Mrt= 1.43 0.56
        Mrf=-1.50 0.44  Mtf= 9.47 0.13
       Principal Axes:
        T  Val= 11.75  Plg= 3  Azm=332
        N       -0.20      79       77
        P      -11.55      10      242
      Best Double Couple:Mo=1.2*10**18
       NP1:Strike= 18 Dip=81 Slip=-175
       NP2:        287     85       -9

KVG     2.18  67 eP    02 01.00 -34.2X
RAB     3.43 103 eP    02 24.00 -29.1X
                 e     03 32.00
MDG     3.51 239 eP    02 55.80   1.6
MNDI    5.79 242 eP    03 06.00 -20.8X
PMG     6.14 195 eP    03 40.00   8.5X
CTA    16.73 188 iPc   05 53.00  -1.1
       2.0s   441.18nm         5.2mb
                 e     06 12.00
                 e(PP) 06 36.00
                 eS    08 42.00
                 e     09 07.00
CTAO   16.73 188 eP    05 53.58  -0.5
       1.7s   371.39nm         5.2mb
GUA    17.31 347 e(P)  05 55.50  -5.8X
       1.8s  1636.36nm         5.9mb
GUMO   17.37 347 e(P)  05 58.00  -4.1X
QIS    19.23 207 iPd   06 25.70   0.9
MTN    19.82 241 iPd   06 34.90   3.6X
WR2    21.62 220 eP    06 47.20  -2.7
       0.6s    41.70nm         5.0mb
                 eS    10 52.30
WRA    21.63 220 P     06 45.00  -5.0X
       1.4s     9.60nm         4.0mb X
BKM    23.73 128 iPc   07 21.00  10.5X
BRS    24.11 171 iPc   07 14.50   0.2
                 epP   07 24.00  34km
                 ePP   07 37.00
                 i     08 00.00
                 eS    11 26.00
ASPA   24.73 214 eP    07 17.20  -3.1X
       0.8s    50.00nm         5.1mb
     Z  22s    30.70um         5.8Msz
                 eS    11 33.50
DZM    25.22 139 iPc   07 23.50  -1.5
DAV    25.44 294 eP+   07 28.00   1.0
                 e     12 24.00
CTB    26.74 293 ePc   07 40.00   1.0
ARMA   26.96 175 eP    07 43.00   2.0
       0.9s    57.00nm         5.2mb
STK    29.09 193 eP    07 59.40  -0.7
       1.5s     6.60nm         4.1mb X
                 eS    12 46.50
```

02d 16h

```
BWA    30.83 181 eP    08 14.60  -1.0
GQP    31.32 304 eP    08 21.00   1.0
CNB    31.72 179 eP    08 23.00  -0.4
       0.7s   21.00nm          5.1mb
CAN    31.72 180 eP    08 22.30  -1.1
                e      08 24.30   7kmX
ADE    32.74 195 e(P)  08 31.30  -1.0
TOO    34.10 185 eP    08 44.10   0.0
       1.0s   47.00nm          5.4mb
BAG    34.17 306 eP    08 41.00  -4.1X
                eS     14 11.60
MEEK   36.98 228 eP    09 08.00  -0.7
KAGJ   38.44 335 eP    09 24.30   3.5X
TATO   38.75 318 eP    09 10.02 -13.5X
       1.3s  276.37nm
                e      09 26.06  64kmX
WKYJ   39.48 343 eP    09 28.40  -1.1
KUMJ   39.64 336 eP    09 30.30  -0.5
TKSJ   39.74 341 eP    09 34.00   2.3
QZH    40.71 316 Pc    09 38.00  -1.7
     Z  32s   16.40um          5.7MszX
                S      15 50.00
SHK    40.71 339 eP    09 38.60  -1.0
SHNJ   40.92 337 P     09 44.30   3.0X
MAJO   40.99 347 eP    09 32.15  -9.7X
       1.4s   49.90nm          5.1mb
                e      09 44.07  43km
MAT    40.99 347 (P)   09 35.00  -6.9X
                eS     15 25.00
YONJ   41.04 341 eP    09 42.10  -0.2
LEM    41.15 264 ePc   09 43.30  -0.4
                eS     16 05.50
SSE    43.27 325 Pc    10 00.00  -0.6
       1.5s  110.00nm          5.4mb
     Z  20s   14.60um          5.9Msz
     N  14s    4.30um
     E  12s    3.10um
                S      16 24.00
                ScS    19 48.00
GZH    43.49 309 P     10 07.80   5.3X
     Z  20s   10.60um          5.7Msz
     N  15s    4.74um
     E  17s    9.77um
SNZO   44.30 152 (P)   10 14.02   5.3X
QIZ    44.36 302 eP    10 09.60   0.0
     N  17s    5.32um
                S      16 42.00
NJ2    45.34 323 eP    10 18.60   1.4
     Z  20s    9.17um          5.7Msz
     N  20s   13.90um
     E  18s    8.18um
                S      16 58.00
WHN    47.16 318 eP    10 34.20   2.5
     Z  20s   16.90um          6.0Msz
     E  20s   11.90um
KUR    48.47 359 (P)   10 40.00  -1.6
     Z  18s    8.80um          5.8Msz
     N  18s    7.40um
     E  18s    7.40um
VLA    48.80 344 iPc   10 45.00   0.8
       1.2s  106.00nm          5.7mb
     Z  11s    1.60um          5.3MszX
     N  14s    3.50um
     E  15s    2.00um
                iPPP   13 35.00
                iS     17 49.00
                iPS    18 10.00
DL2    49.04 332 Pc    10 46.00  -0.1
     Z  20s    7.08um          5.7Msz
     N  12s    2.00um
     E  12s    5.37um
SNG    49.24 282 eP    10 47.90  -0.1
TIA    49.31 326 eP    10 49.90   1.6
     Z  27s   15.80um          5.9MszX
     N  15s    2.96um
     E  15s    5.80um
                S      17 54.00
GYA    50.42 309 P     11 01.40   4.3X
       1.2s   43.00nm          5.3mb
     Z  24s    7.95um          5.6MszX
     N  14s    3.57um
     E  14s    1.46um
YSS    50.53 355 (P)   11 03.00   5.6X
     Z  17s    6.40um          5.7MszX
     N  17s    4.50um
     E  17s    1.60um
                eS     18 04.00
SNY    50.56 336 iPc   10 56.00  -1.7
     Z  36s   14.90um          5.7MszX
     N  15s    2.42um
     E  16s    3.21um
                PcP    12 16.00
                S      18 06.00
MDJ    50.84 342 eP    11 00.20   0.3
     Z  36s   20.70um          5.9MszX
     N  16s    4.09um
     E  16s    3.03um
LOE    50.85 296 eP    11 03.10   2.7X
CN2    51.51 338 eP    11 05.00   0.1
       1.2s   20.00nm          5.0mb
     Z  20s    5.89um          5.6Msz
     N  15s    3.72um
     E  15s    3.02um
NST    51.76 293 eP    11 07.20   0.0
BJI    52.61 329 eP    11 12.00  -1.3
       2.0s   38.00nm          5.0mb
     Z  18s    9.11um          5.9Msz
     N  16s    6.00um
                eS     18 38.00
XAN    52.93 318 P     11 14.60  -1.2
       1.2s   16.00nm          4.9mb
     Z  20s   12.20um          5.9Msz
     N  16s    4.33um
     E  16s    3.46um
                pP     11 25.00  35km
                PcP    12 22.00
                PP     13 15.00
                S      18 40.00
                ScS    20 58.00
                SS     22 18.00
KHT    52.93 291 eP    11 16.70   0.7
KMI    52.94 305 Pc    11 16.50   0.2
       1.5s  140.00nm          5.7mb
     Z  20s   32.30um          6.4Msz
     N  19s    5.80um
     E  19s    6.50um
                S      18 46.00
RAR    52.97 114 (P)   11 21.75   5.5X
TIY    53.05 324 eP    11 15.80  -0.9
     Z  22s   18.60um          6.1Msz
     N  20s    9.20um
BDT    53.27 294 eP    11 19.50   1.1
CHTO   53.81 296 iPc   11 22.70   0.2
       1.5s   98.54nm          5.6mb
CD2    54.85 312 Pd    11 30.20   0.2
       1.6s  190.00nm          5.9mb
     Z  20s   15.00um          6.1Msz
     E  13s    4.36um
                PcP    12 32.00
                sS     19 28.50
HHC    55.67 326 P     11 35.40  -0.4
       1.3s   20.00nm          5.0mb
     Z  22s   15.50um          6.0Msz
     N  19s    5.92um
     E  17s    3.47um
                S      19 10.00
BTO    56.37 325 P     11 40.00  -0.9
       1.4s   32.00nm          5.2mb
     N  17s    3.20um
     E  17s    1.14um
LZH    57.51 317 Pc    11 48.00  -1.1
       2.0s  270.00nm          6.0mb
     Z  22s    7.36um          5.7Msz
     E  15s    2.99um
                PP     13 58.00
                S      19 45.00
                SS     23 37.00
HON    57.59  62 P     12 00.00  10.3X
     Z  19s    4.76um          5.6Msz
SMY    59.90  17 P     12 10.00   4.8X
     Z  20s    5.73um          5.7Msz
PPT    61.93 108 iPd   12 23.50   3.9X
     Z  31s 5875.00um          8.6MszX
GTA    61.98 319 P     12 19.50  -0.3
       1.5s   32.00nm          5.2mb
     Z  22s   10.50um          6.0Msz
     E  15s    2.46um
                S      20 38.00
                SS     24 40.00
PPN    62.06 108 iPd   12 25.10   4.6X
TVO    62.26 108 iPd   12 26.80   4.9X
CIT    62.78 336 eP    12 25.00   0.2
                e      21 00.00
PMO    63.33 105 iPd   12 30.00   1.1
DRV    63.40 184 eP    12 36.00   7.5X
                S      21 11.00
                SS     25 30.00
TPT    63.60 105 iPd   12 31.80   1.2
RUV    63.84 105 iPd   12 34.70   2.5
LSA    64.20 305 P     12 40.00   5.0X
     Z  28s    5.85um          5.6MszX
     N  16s    2.52um
     E  15s    1.01um
                SS     25 17.00
YAK    66.90 350 eP    12 48.90  -2.2
       1.8s  251.00nm          6.0mb
                eS     21 42.00
                ePS    22 06.00
                eSSS   28 49.00
IRK    67.02 332 eP    12 48.00  -4.1X
       2.0s   35.00nm          5.1mb
                e      12 58.00  32km
                eS     21 42.00
                e      22 07.00
                eSS    26 00.00
CSY    68.19 196 eP    13 01.10   1.9
       1.2s    7.90nm          4.7mb
SDN    71.81  28 P     13 30.00   8.6X
     Z  19s    2.33um          5.5Msz
WMQ    72.07 318 P     13 23.50   0.2
     Z  20s    5.61um          5.8Msz
     E  12s    1.78um
                PP     16 05.00
                SS     27 18.00
HYB    72.29 289 eP    13 24.00  -1.0
                eS     22 50.00
KOD    72.31 282 eP    13 26.00   0.4
                eS     22 52.00
GBA    72.77 285 P     13 28.00   0.1
       1.0s    7.00nm          4.6mb
ILT    74.73  12 iPd   13 45.40   7.1X
       2.0s  105.00nm          5.5mb
                iS     23 14.00
                iPS    23 48.00
                iSS    28 04.00
SBA    74.96 176 iPc   13 44.70   5.2X
TIK    76.06 354 eP    13 47.00   1.2
       1.5s   24.00nm          5.0mb
     Z  18s    3.50um          5.7Msz
                e      13 57.00  32km
                e      14 07.00
                iPS    24 05.00
SVW    77.18  24 eP    13 52.59   0.3
       1.0s   26.35nm          5.2mb
CP2    78.66  25 eP    14 01.94   1.2
CRP    78.70  25 (P)   14 00.86   0.0
TLG    78.96 315 iP    14 04.00   1.5
     Z  16s    0.90um          5.2MszX
     E  22s    1.30um
                i      14 12.00  25kmX
                e      17 11.00
                eS     24 05.00
                iPS    24 58.00
                eSS    29 07.00
KSH    79.02 311 P     14 04.00   1.0
       1.5s  130.00nm          5.7mb
     Z  24s    4.30um          5.7MszX
     N  16s    2.87um
     E  16s    4.03um
                PcP    14 10.00
                pP     14 14.00  32km
                ePP    17 08.00
                SKS    24 10.00
                sS     24 23.00
                eSS    29 11.00
SLKM   79.18  26 eP    14 01.60  -1.7
PMR    80.14  25 P     14 20.00  11.7X
     Z  21s    5.69um          5.9Msz
IMA    80.55  20 (P)   14 08.82  -1.9
       1.3s   17.28nm          4.9mb
FRU    80.81 314 eP    14 13.00   0.6
       2.0s  120.00nm          5.5mb
     Z  20s    2.00um          5.5Msz
     E  20s    4.00um
                iS     24 26.00
KLU    81.49  26 eP    14 16.72   1.1
COL    82.14  23 P     14 17.92  -0.9
       1.2s   24.06nm          5.1mb
FBA    82.14  23 ePd   14 17.02  -1.8
       1.1s   14.71nm          4.9mb
BALM   82.92  27 eP    14 21.91  -1.2
```

```
NRI     83.28 342 ePd    14 24.00  -0.6
         1.6s     26.00nm          5.1mb
      Z  20s     16.00um          6.4Msz
      E  20s     14.00um
                    e     14 37.00  44km
                    e     17 32.00
                    e     25 43.00
                   (SS)   30 04.00
SIT     85.23  32 P      14 40.00   5.4X
      Z  21s      2.56um          5.6Msz
MAW     85.28 203 eP     14 35.00   0.3
         1.2s     29.41nm          5.4mb
LGPM    90.99  49 eP     15 02.77   0.0
WDC     91.19  50 eP     15 05.00   1.5
         1.2s     16.53nm          5.3mb
      Z  21s      5.87um          6.0Msz
GMW     91.44  43 eP     15 04.46  -0.1
LBFM    91.73  49 eP     15 05.69  -0.6
SAO     91.84  53 P      15 20.00  13.4X
      Z  18s      4.23um          5.9Msz
SVE     91.85 327 iPd    15 06.00  -0.1
         2.1s     60.00nm          5.6mb
      Z  19s     14.50um          6.4Msz
      N  19s      1.50um
      E  19s      8.50um
                    eS    25 40.00
                    e     27 15.00
ORV     91.93  51 eP     15 08.47   1.5
ASH     92.45 308 eP     15 09.00  -0.4
ARU     92.96 326 eP     15 11.00  -0.2
      Z  22s     12.00um          6.3Msz
      N  20s      1.50um
      E  22s      8.00um
                    e     15 24.00  43km
                    eS    25 47.00
                    e     28 11.00
                    eSS   32 33.00
BONR    94.38  52 eP     15 19.61   1.0
NEW     95.27  42 eP     15 22.17   0.0
         1.1s     24.14nm          5.6mb
      Z  20s      7.05um          6.1Msz
TPNV    96.01  53 P      15 40.00  14.0X
      Z  19s      4.52um          6.0Msz
YKA     96.09  28 eP     15 25.40  -0.1
         0.7s      3.80nm          5.0mb
DUG     98.62  50 P      15 50.00  12.4X
      Z  21s      3.43um          5.8Msz
TUC    100.63  58 Pdiff 16 00.00  13.1X
      Z  20s      4.88um          6.0Msz
GRO    101.90 313 ePdiff15 36.00 -16.1X
      Z  18s      3.50um          5.9Msz
      N  18s      7.00um
      E  20s      8.00um
                    i     20 04.00
                    ePS   29 10.00
MTA    102.74 312 ePdiff15 58.00   2.1X
ALQ    104.04  55 Pdiff 16 10.00   7.8X
      Z  20s      2.77um          5.8Msz
GOL    104.36  50 Pdiff 16 10.00   6.5X
      Z  21s      4.85um          6.0Msz
GLD    104.47  50 Pdiff 16 10.00   6.1X
      Z  18s      3.97um          6.0Msz
OBN    105.41 326 (Pdiff16 24.00  16.6X
WMOK   110.32  54 PKP   20 40.00   8.8X
      Z  20s      2.96um          5.8Msz
HFS    113.93 337 ePdiff16 38.70  -6.6X
         0.4s      1.50nm
MIAR   114.56  54 PKP   20 50.00  10.7X
      Z  19s      2.76um          5.9Msz
SLM    116.06  48 PKP   20 50.00   8.0X
      Z  20s      2.23um          5.8Msz
FVM    116.11  49 PKP   20 50.00   7.9X
      Z  18s      5.39um          6.2Msz
GEC2   120.79 327 PKP   20 55.90   5.1X
         0.7s      0.90nm
                    e     20 58.60
                    e     21 01.90
YSNY   122.72  40 PKP   21 00.00   5.4X
      Z  19s      4.92um          6.2Msz
BINY   124.49  39 PKP   21 10.00  11.9X
      Z  20s      4.61um          6.1Msz
CEH    125.33  48 PKP   21 10.00  10.2X
      Z  21s      2.82um          5.9Msz
LBNH   125.82  35 PKP   21 10.00   9.4X
      Z  20s      2.92um          6.0Msz
CBM    126.18  31 PKP   21 10.00   8.8X
      Z  21s      5.20um          6.2Msz
LSCT   126.51  39 PKP   21 10.00   8.0X
      Z  21s      4.69um          6.1Msz
HRV    127.06  37 PKP   21 10.00   7.1X
      Z  21s      2.10um          5.8Msz
BCAO   130.38 273 iPKPd 21 11.00   0.8
         0.8s     11.00nm
                    i     21 18.00
                    i     23 13.90
SDV    140.44  80 ePKP  21 26.50  -2.7X
CAR    143.87  77 ePKP  21 32.00  -3.1X
TIO    144.55 323 iPKP  21 35.50  -0.3X
RSTA   147.13 149 (PKP) 21 27.00 -13.1X
                    e     21 45.30
PPD    147.93 143 ePKP  21 44.80   3.3X
TRN    149.20  75 ePKP  21 46.56   3.0X
VAO    149.54 150 ePKP  21 50.70   6.7X
TBH    149.56  75 ePKP  21 50.63   6.5X
VAO2   149.56 151 ePKP  21 47.20   3.1X
KIC    153.49 277 PKP   21 55.17   5.2X
         0.8s      4.50nm
LIC    153.78 277 PKP   21 57.07   6.7X
         1.1s     10.00nm
      Z  22s      4.50um          6.2Msz
      S.D. = 1.1  on  87 of 156 obs.
-----------------------------------
   OCT  02, 1993  16h 11m 18.33± 0.73s
   35.729 N ± 7.7km   24.205 E ±11.3km
   DEPTH =  10.0km  (geophysicist)
   3.4mb (  1 obs.)
 CRETE                              (370)
      MD 3.5 (ATH).

VAM      0.32 181 ePg    11 24.70  -0.3
NPS      1.24 112 ePb    11 41.70   0.3
VLI      1.42 314 ePb    11 45.00   0.8
AGG      3.61 336 iP     12 15.30  -0.2
                    eS    13 04.02
LIT      4.57 343 eP     12 28.11  -1.0
GRG      5.41 345 iP     12 32.40  -8.6X
GEC2    15.22 333 P      14 55.20   0.4
         0.6s      0.95nm          3.4mb
      S.D. = 0.8  on   6 of   7 obs.
-----------------------------------
   OCT  02, 1993  16h 24m 04.29± 0.81s
   41.210 N ± 7.8km   21.965 E ± 6.8km
   DEPTH =  10.0km  (geophysicist)
 NORTHWESTERN BALKAN REGION         (383)
      ML 2.4 (THE).

GRG      0.42 127 ePg    24 11.73  -1.1
                    eSg   24 21.12
FNA      0.62 227 ePg    24 16.08  -0.7
                    eSg   24 25.88
SKO      0.86 333 iPg    24 21.00   0.2
SOH      1.12 110 ePb    24 25.32   0.0
                    eSb   24 43.12
LIT      1.18 160 iPb    24 27.42   1.1
SRS      1.23  94 iPb    24 27.08  -0.1
                    eSb   24 47.04
PAIG     1.83 134 ePb    24 36.56   0.6
                    eSb   25 04.28
      S.D. = 0.9  on   7 of   7 obs.
-----------------------------------
   OCT  02, 1993  16h 46m 32.99± 0.67s
    5.617 S ± 6.3km  154.283 E ± 7.7km
   DEPTH = 417.0 ±  7.3 km
   4.7mb ( 10 obs.)
 SOLOMON ISLANDS                    (193)

RAB      2.54 304 iPd    47 33.00  -1.5
KVG      4.59 311 iPd    47 51.70  -0.6
PMG      8.00 242 eP     48 30.00   0.8
YYYY     8.29 265 eP     48 34.10   1.4
MNDI    10.58 267 eP     48 59.50   0.5
WWKK    10.81 280 eP     49 03.40   2.0
CTA     16.37 208 iPc    50 01.90   0.9
         0.9s     33.61nm          4.8mb
                    i     50 18.00
BKM     18.16 132 iPc    50 19.90   1.0
DZM     20.15 145 iPc    50 38.00  -0.4
QIS     20.58 222 iPc    50 43.20   0.7
BRS     21.70 184 iP     50 53.00  -0.1
MTN     23.94 251 iPd    51 13.60  -0.1
ARMA    24.80 185 iPd    51 21.60   0.1
         0.4s      5.00nm          4.3mb
ASPA    26.59 226 iPc    51 36.50  -1.1
         0.3s     40.90nm          5.3mb
                    eS    55 39.10
STK     28.70 203 eP     51 54.80  -1.2
         0.8s      5.60nm          4.0mb
FORT    35.12 221 eP     52 50.50  -0.3
         0.5s     33.00nm          5.0mb
MBL     36.78 242 iPc    53 04.10  -0.7
COOL    39.99 227 iPc    53 30.20  -0.8
         0.4s     18.00nm          4.8mb
NANU    41.01 242 eP     53 39.20  -0.2
KLB     42.84 228 eP     53 52.70  -1.2
MRWA    43.10 232 iPc    53 55.10  -0.9
         0.2s      4.00nm          4.4mb
MAT     44.56 341 iPc    54 06.80  -0.6
         0.6s      4.67nm          4.0mb
SVW     76.99  22 iPd    57 43.07   0.7
         0.6s     18.75nm          5.0mb
                    epP   57 56.95  48kmX
HYB     78.15 289 eP     57 49.70   0.2
CP2     78.40  23 eP     57 49.10  -1.1
SLKM    78.79  25 iPd    57 51.70  -0.3
KLU     81.09  25 iPd    58 04.61   0.5
FBA     82.10  21 iPd    58 08.12  -1.0
         0.7s     17.88nm          4.9mb
BONR    91.38  52 iPc    58 55.63   1.1
VAO    144.78 145 (PKP) 05 24.00   0.6
VAO2   144.85 145 ePKP  05 23.80   0.2
BAO    149.46 134 ePKP  05 32.50   1.4
                    i     05 36.50
                    i     05 42.60
      S.D. = 1.0  on  32 of  32 obs.
-----------------------------------
   OCT  02, 1993  16h 46m 47.63± 0.28s
   46.330 N ± 2.8km   13.055 E ± 2.6km
   DEPTH =  10.0km  (geophysicist)
 AUSTRIA                            (546)
      ML 4.3 (GRF), 3.9 (FUR), 3.7
      (LDG), 3.7 (VIE). MD 3.6 (LJU).
      Felt (IV) at Hermagor.

VOY      0.65 117 iPgd   46 59.90  -0.9
                    eSg   47 10.30
KBA      0.77  15 iPgd   47 01.80  -1.1
                    iSg   47 10.80
TRI      0.79 141 ePg    47 03.10   0.1
                    iSg   47 15.70
LJU      1.07 105 ePg    47 07.70   0.0
                    iSn   47 24.60
CEY      1.12 121 ePg    47 08.50  -0.2
                    i     47 11.20
                    eSn   47 26.70
SCE      1.17 308 iPgd   47 09.70   0.2
WTTA     1.35 314 iPnd   47 13.00   0.4
                  , iPg   47 13.60
                    iSg   47 31.20
RIY      1.36 136 iPn    47 13.70   1.2
                    iSn   47 33.40
BHG      1.40 355 iPgc   47 13.10  -0.1
WATA     1.43 315 iPnd   47 14.30   0.6
                    iPg   47 15.40
                    iSg   47 33.30
OGA      1.50 292 iPd    47 16.30   1.5
SQTA     1.55 306 iPnd   47 16.70   1.3
                    iPg   47 18.40
                    iSg   47 37.00
MOTA     1.68 308 iPnd   47 18.80   1.5
                    iPg   47 20.80
                    iSg   47 42.50
VBY      1.74 117 iPnd   47 19.20   1.1
                    i(Pg) 47 19.90
                    iSg   47 43.40
OSS      2.04 281 iPc    47 25.70   3.1X
PTJ      2.06 101 iPnd   47 26.00   3.2X
                    iSn   47 56.80
FUR      2.20 327 iPnc   47 26.10   1.3
                    iPgc  47 29.70
VDL      2.49 275 Pd     47 31.80   2.8X
GEC2     2.55  10 Pn     47 29.80  -0.1
                    Sn    47 54.50
                    Sg    48 07.10
SOP      2.75  59 ePn    47 36.40   3.8X
WET      2.82 358 ePn    47 33.20  -0.4
KHC      2.83   7 Pn     47 33.60  -0.1
                    ePg   47 39.50
                    e     47 44.50
                    e     48 07.50
                    eSg   48 15.00
LLS      2.85 282 iPc    47 36.70   2.5
```

02d 16h

```
FIR     2.85 207 eP    48 15.00   41.0X
TMA     2.91 267 ePd   47 37.60    2.6
VKA     2.95  48 iPnc  47 37.20    1.9
                 iPg   47 45.60
                 iSn   48 06.40
                 iSg   48 20.00
ZST     3.33  54 iPn   47 48.30    7.5X
                 i(Pg) 47 54.00
                 i(Sb) 48 29.20
                 Lg    48 50.00
ZLA     3.40 292 ePc   47 43.00    1.2
SLE     3.43 296 iPc   47 43.10    0.8
GRF     3.58 341 iPnd  47 43.70   -0.7
                 ePg   47 54.80
                 e(Sn) 48 24.70
                 eSg   48 40.00
PCP     3.64 242 P     47 46.99    1.7
FEL     3.77 296 eP    47 47.70    0.5
PRU     3.79  15 ePn   47 46.20   -1.2
      0.3s    31.50nm
                 ePg   47 56.90
                 eSn   48 30.20
                 Sg    48 44.90
SRO     3.89  66 e(Pn) 47 52.90    4.2X
BBS     3.97 289 Pn    47 50.55    0.7
HVAR    3.97 141 iPnc  47 50.00    0.1
                 iSn   48 37.80
FIN     4.02 240 P     47 51.06    0.4
ROB     4.18 243 P     47 53.53    0.6
LSD     4.21 260 P     47 51.33   -2.2
RSP     4.23 256 P     47 50.10   -3.5X
HOFF    4.32 309 Pn    47 55.26    0.4
MOF     4.32 293 Pn    47 55.03    0.1
BHB     4.33 252 P     47 54.35   -0.7
TOD     4.35 320 eP    47 54.70   -0.5
IMI     4.38 238 P     47 55.64   -0.2
LOMF    4.39 286 Pn    47 56.42    0.5
WLS     4.40 300 Pn    47 55.60   -0.4
MOX     4.42 348 iPn   47 54.90   -1.4
                 iPg   48 10.90
                 iSn   48 44.00
                 iSg   49 06.20
LANF    4.43 309 Pn    47 57.05    0.7
ECH     4.43 297 Pn    47 56.39   -0.1
CDF     4.44 300 Pn    47 56.60   -0.1
                 Sn    48 47.20
LPG     4.48 262 Pn    47 59.20    1.9
LPL     4.49 262 Pn    47 58.70    1.3
ENR     4.50 244 P     47 56.96   -0.5
BSF     4.53 292 Pn    47 57.90   -0.1
                 Sn    48 49.00
PZZ     4.57 249 P     47 57.56   -1.0
BRG     4.59   7 ePn   47 57.10   -1.5
                 iPg   48 12.30
                 iSn   48 48.00
                 iSg   49 10.10
RRL     4.62 254 P     47 58.24   -1.1
SBF     4.68 240 Pn    48 00.90    0.9
                 Sn    48 51.00
PGF     4.77 219 Pn    48 00.50   -0.8
HAU     4.87 293 Pn    48 02.30   -0.4
                 Sn    48 57.40
TNS     4.96 323 ePnd  48 04.90    0.9
                 iSn   49 01.00
                 iSb   49 25.70
CLL     4.98 360 iPn   48 03.20   -1.0
                 iPg   48 23.80
                 iSg   49 26.00
KSP     5.00  24 iPg   48 20.70   16.2X
      0.7s    45.00nm
                 iSn   49 15.00
                 iSg   49 24.70
ABH     5.12 316 eP    48 06.20    0.0
VITF    5.17 294 Pn    48 07.00    0.1
FRF     5.32 241 Pn    48 08.50   -0.6
LMR     5.53 240 Pn    48 11.10   -0.9
LRG     5.56 241 Pn    48 12.30    0.0
WLF     5.71 308 iPc   48 15.55    1.1
LBF     6.28 279 Pn    48 21.70   -0.9
                 Sn    49 30.50
SMF     6.37 276 Pn    48 23.00   -0.8
LOR     6.38 282 ePKP  48 14.70   -9.3X
      1.2s    11.60nm          4.6mb
    Z 20s      0.32um          5.5Msz
LOR     6.38 282 Pn    48 22.90   -1.1
                 Sn    49 34.70
ENN     6.49 316 eP    48 26.50    1.0
      0.5s     5.00nm          4.7mb
                 e     48 38.00
SSF     6.61 280 Pn    48 26.20   -1.0
AVF     6.71 277 Pn    48 27.90   -0.6
DOU     6.79 307 P     48 30.70    1.0
                 iS    49 43.50
BGF     7.06 276 Pn    48 32.40   -1.1
                 Sn    49 53.30
HYF     7.21 281 Pn    48 34.70   -0.9
MAF     7.27 273 Pn    48 35.60   -0.9
TCF     7.51 274 Pn    48 38.20   -1.6
CAF     7.83 264 Pn    48 45.20    0.9
LSF     7.99 274 Pn    48 44.70   -1.8
RJF     8.13 267 ePKP  48 19.80  -28.6X
      0.8s     5.10nm
LPO     8.50 263 ePKP  48 21.20  -32.4X
      1.1s    19.05nm
MFF     9.12 276 Pn    49 01.20   -0.9
LDF     9.21 289 Pn    49 03.30   -0.1
FLN     9.47 290 Pn    49 06.30   -0.7
GRR     9.67 287 Pn    49 08.60   -1.1
LPF     9.75 285 Pn    49 09.60   -1.3
    S.D. = 1.0  on  79 of  91 obs.
-----------------------------------
   OCT  02, 1993  17h 23m 33.37± 0.17s
   38.171 N ± 4.0km   88.690 E ± 2.4km
   DEPTH =  14.3km  (  9 depth phases)
   5.6mb (101 obs.)  5.0Msz ( 10 obs.)
 SOUTHERN XINJIANG, CHINA        (321)

WMQ     5.69 353 Pn    25 00.80    1.2
                 Sn    26 04.00
LSA     8.69 166 iPd   25 46.30    4.4X
      1.4s   430.00nm          6.5mb X
    Z 12s     10.60um
    N 11s      6.13um
    E 11s      9.70um
                 pP    25 49.50
GTA     8.78  78 Pc    25 41.00   -1.8
      1.2s   140.00nm          6.1mb
    Z 10s     10.80um
                 S     27 17.00
                 sS    27 26.00
TLG     9.98 304 iP    25 58.00   -1.3
    Z 16s      7.20um
                 e     27 45.00
KSH    10.00 281 P     25 59.00   -0.7
    Z 10s     12.70um
FRU    11.68 298 iPc   26 21.00   -1.5
      1.8s   280.00nm          6.2mb
LZH    12.28  95 Pc    26 27.00   -3.7X
      2.0s   280.00nm          6.2mb
    Z 19s      6.93um
                 pP    26 33.00
                 S     28 41.50
                 sS    28 53.00
ZAK    16.03  36 eP    27 18.00   -1.7
      1.5s   102.00nm          4.7mb
BTO    16.66  75 eP    27 26.00   -2.0
      1.2s    74.00nm          4.7mb
XAN    16.86  98 P     27 26.00   -4.4X
      0.8s     8.00nm          3.9mb X
    Z 16s      4.41um          4.2MszX
    N 12s      6.41um
    E 11s      3.52um
                 pP    27 34.00
                 sP    27 38.00
                 PP    27 42.00
KMI    17.64 133 Pd    27 39.50   -0.9
      1.6s   160.00nm          4.9mb
    Z 16s      3.60um          6.1MszX
                 eS    30 54.00
IRK    17.83  33 ePd   27 41.20   -1.1
      1.7s    63.00nm          4.5mb X
    Z 14s      4.66um          4.5Msz
HHC    17.84  74 Pd    27 40.00   -2.8
      1.4s    31.00nm          4.2mb X
    Z 15s      4.72um
                 pP    27 44.00
TIY    18.73  84 eP    27 52.00   -1.6
      1.2s    74.00nm          4.8mb
    Z 10s      8.39um          4.5MszX
    N 12s      5.10um
                 S     31 20.00
GYA    19.12 122 P     27 57.40   -1.1
      1.0s    56.00nm          4.8mb
    Z 16s      1.18um          4.6MszX
    N 11s      2.62um
    E 11s      2.96um
CHTO   21.26 152 ePd   28 21.60    0.2
      1.4s    69.71nm          4.9mb
BJI    21.38  76 eP    28 22.50    0.1
      1.3s    53.00nm          4.8mb
CIT    22.23  43 eP    28 31.00    0.1
WHN    22.46 102 eP    28 33.50    0.2
      1.2s   140.00nm          5.3mb
    Z 16s      4.74um          5.0MszX
    N 10s      4.27um
                 pP    28 41.50   29kmX
HYB    22.51 206 eP    28 31.50   -2.4
      1.0s    40.00nm          4.9mb
TIA    22.70  86 eP    28 36.50    0.8
    Z 14s      3.81um          5.0MszX
    N 12s      6.80um
    E 12s      3.13um
BDT    22.73 154 eP    28 37.20    1.2
      1.2s   105.30nm          5.2mb
MAIO   23.28 274 iPc   28 43.20    1.8
      0.9s    36.23nm          4.9mb
                 eS    32 36.00
POO    23.46 218 eP    28 51.50    8.3X
LOE    23.63 147 eP    28 47.70    2.8
ASH    23.84 279 P     28 49.00    2.3
      1.4s   490.00nm          5.9mb
KHT    24.89 157 eP    28 58.70    1.7
NJ2    25.35  95 Pd    29 01.60    0.3
      1.0s    34.00nm          5.0mb
    Z 14s      1.72um          4.7MszX
    N 14s      6.09um
    E 14s      2.24um
DL2    25.70  78 P     29 05.00    0.5
      1.0s    89.00nm          5.4mb
    Z 16s      1.77um          4.7MszX
    E 11s      2.18um
SVE    26.29 324 iPc   29 11.00    1.2
      1.7s   400.00nm          5.8mb
    Z 16s      3.00um          4.9MszX
    N 17s      2.00um
    E 17s      2.50um
                 e     30 02.00  268kmX
GBA    26.43 205 P     29 09.40   -2.0
      0.8s     8.00nm          4.4mb X
SNY    26.86  71 eP    29 14.60   -0.6
    Z 14s      4.12um          5.1MszX
    N 10s      2.86um
                 S     33 42.00
ARU    27.04 322 iPc+  29 17.50    0.9
      1.3s   200.00nm          5.6mb
    Z 16s      2.50um          4.9MszX
    N 14s      2.50um
    E 16s      2.00um
                 i     29 20.50   11km
                 e     29 55.00
                 e     30 12.00
                 e     34 56.00
NNT    27.31 156 eP    29 21.00    1.5
SSE    27.56  95 Pd    29 21.50   -0.1
      1.0s    42.00nm          5.1mb
    Z 20s      2.30um          4.8Msz
    N 15s      4.30um
    E 14s      1.50um
                 eS    34 00.00
CN2    28.15  67 eP    29 26.60   -0.3
      1.2s    17.00nm          4.7mb
    Z 12s      1.81um          4.9MszX
    N 11s      0.21um
    E 11s      1.47um
                 epP   29 35.00   30kmX
                 eS    34 04.00
KOD    29.59 203 eP    29 49.00    8.6X
MDJ    31.10  65 eP    29 53.90    0.7
      1.4s    73.00nm          5.4mb
    Z 10s      3.31um          5.3MszX
NRI    31.29 360 iPc+  29 53.00   -1.5
      1.3s   118.00nm          5.6mb
    Z 18s      6.30um          5.3Msz
                 e     31 00.00  353kmX
                 e     32 46.00
GRO    32.71 293 iPc+  30 08.00    0.7
      2.0s   720.00nm          6.3mb
                 i     31 25.00  414kmX
VLA    32.88  67 iPc   30 08.00   -0.7
      1.2s    53.00nm          5.3mb
                 i     30 12.00   14km
```

```
TAB    33.12 283 eP    30 12.00   0.9
ERE    34.05 288 iP    30 20.00   0.9
       2.0s     3.00nm          3.9mb X
PYA    34.53 295 iP    30 22.00  -1.1
       2.0s   330.00nm          5.9mb
                ePPP  31 41.00
YAK    34.60  33 iPc+  30 22.00  -1.4
       1.8s   293.00nm          5.9mb
                ePPP  35 54.00
SOC    36.99 294 eP    30 45.00   1.1
       2.0s   200.00nm          5.6mb
MOS    38.03 314 iPc   30 52.00  -0.4
       2.0s     2.00nm          3.6mb X
ANN    38.51 297 iPc   30 57.00   0.4
       1.2s    80.00nm          5.3mb
     Z 16s     1.50um          4.9MszX
     N 17s     3.00um
     E 17s     3.00um
                e     32 23.50 466kmX
OBN    38.56 313 iPc+  30 58.00   1.1
       1.5s   320.00nm          5.8mb
     Z 18s     3.00um          5.2Msz
     N 16s     1.20um
     E 18s     2.40um
                e     32 26.00 476kmX
                (S)   36 46.00
MAJO   39.02  77 eP    31 00.01  -1.0
       1.3s    34.32nm          4.9mb
MAT    39.02  77 (P)   31 01.00  -0.1
       1.4s    25.58nm          4.7mb
TIK    39.23  19 iPc   31 03.00   0.7
       1.0s   130.00nm          5.6mb
                i     32 36.00 513kmX
                ePPP  33 04.00
                iS    37 01.00
YSS    40.04  59 (P)   31 10.00   0.7
       1.0s    30.00nm          4.9mb
SIM    40.73 298 eP    31 16.00   0.9
     Z 16s     1.50um          4.9MszX
                e     32 48.00 500kmX
KAS    41.74 292 eP    31 23.50   0.0
MNK    43.83 312 eP    31 49.00   8.8X
KIS    43.95 302 iP+   31 42.00   0.7
     Z 20s     1.30um          4.8Msz
                i     33 26.00 585kmX
                eS    38 12.00
KAF    44.36 323 iP    31 44.60   0.2
       0.8s    84.90nm          5.7mb
CTB    44.50 125 eP    31 50.00   3.9X
EYL    44.59 292 iP    31 47.00   0.3
CFR    44.82 299 eP    31 49.00   0.6
HRT    44.88 293 iP    31 48.00  -0.9
KEV    45.00 334 ePc   31 49.99   0.5
       0.9s   142.45nm          5.9mb
CLI    45.11 301 eP    31 52.00   1.3
NUR    45.13 321 iP    31 50.90   0.3
       0.8s    71.20nm          5.7mb
PTT    45.63 302 eP    31 48.00  -6.8X
VRI    45.64 300 ePc   31 56.00   1.1
KHL    45.75 289 eP    31 55.50  -0.4
ISR    45.94 299 eP    31 59.50   2.2
ELL    45.99 287 iP    31 58.00   0.1
MLR    46.26 300 ePc   32 01.00   1.0
CMP    46.94 300 iPc   32 08.00   2.8
ALN    47.47 294 eP    32 10.38   1.0
EZN    47.61 293 iP    32 11.00   0.5
RDO    47.76 294 eP    32 12.80   1.1
TRO    47.78 334 iPc   32 12.00   0.5
PRK    47.84 292 eP    32 12.80   0.5
UZH    47.94 305 ePd   32 13.20   0.2
       1.7s   135.00nm          5.7mb
     Z 17s     2.70um          5.3MszX
     E 17s     2.70um
                e     34 01.50 599kmX
UPP    48.67 321 iPd   32 19.10   0.7
OUR    49.14 294 iP    32 20.78  -1.5
OJC    49.16 308 eP    32 22.30  -0.1
       1.3s   164.00nm          5.9mb
                e     32 39.00  65kmX
SRS    49.16 295 eP    32 22.98   0.4
BZS    49.17 301 eP    32 14.00  -8.4X
SOH    49.43 295 eP    32 24.82   0.2
LOF    49.74 332 iPd   32 25.90  -0.6
NPS    49.78 287 eP    32 27.20  -0.1
LIT    50.30 294 eP    32 31.06  -0.2
SKO    50.41 297 iPc   32 32.00   0.0
       1.5s    80.00nm          5.5mb
                i     34 30.00 669kmX
HFS    50.58 321 eP    32 32.50  -0.6
       1.2s   274.70nm          6.1mb
     Z 17s     0.92um          4.9MszX
                LR    52 53.00
SRO    50.73 305 eP    32 38.20   3.8X
KZN    50.74 295 eP    32 34.30  -0.4
AGG    50.79 293 iP    32 34.50  -0.6
UZD    50.90 303 eP    32 36.20   0.5
OHR    51.15 296 eP    32 37.00  -0.8
                e     34 18.00 528kmX
KSP    51.17 309 ePc   32 37.60  -0.1
       1.0s    47.00nm          5.4mb
                e     34 38.00 685kmX
VLI    51.21 290 eP    32 35.80  -2.4
ZST    51.39 306 eP    32 39.20  -0.3
                e     35 38.50
NB2    51.62 323 P     32 40.30  -0.8
       1.2s   162.30nm          5.8mb
NAO    51.85 322 P     32 40.22  -2.5
VKA    51.88 306 eP    32 42.00  -1.1
       2.5s   373.00nm          5.9mb
                i     32 45.00  10km
SOP    51.90 305 eP    32 43.50   0.2
PRU    52.48 308 iPc   32 47.80   0.1
       1.4s   131.00nm          5.7mb
     Z 18s     1.00um          4.9Msz
                i     32 51.40  12km
                e     33 45.00
                ePP   34 38.60
BRG    52.59 310 iPc   32 49.10   0.7
       1.4s   100.00nm          5.6mb
KONO   52.71 321 eP    32 40.00  -9.2X
PTJ    52.85 303 eP    32 50.40  -0.2
MOL    53.01 325 iPd   32 51.52   0.1
CLL    53.03 310 iPc   32 51.60  -0.1
       1.7s   150.00nm          5.6mb
KHC    53.34 308 Pd    32 55.10   1.0
       1.2s    40.00nm          5.3mb
     Z 20s     1.60um          5.1Msz
     N 20s     0.80um
     E 20s     0.50um
                e     33 15.50  82kmX
                e     34 55.00
GEC2   53.35 307 P     32 52.60  -1.7
       0.7s    10.93nm          4.9mb
                e     32 58.00  18km
MUD    53.74 317 iPd   32 51.00  -5.8X
       1.0s    54.00nm          5.5mb
WET    53.77 308 iPd   32 58.10   0.9
       1.4s   133.00nm          5.8mb
HOF    54.01 310 iPd   32 59.40   0.4
MOX    54.07 310 eP    32 59.60   0.3
       1.6s   105.00nm          5.6mb
     Z 20s     1.20um          5.0Msz
KBA    54.16 305 iPc   32 59.70  -0.6
       1.0s    30.10nm          5.3mb
GRF    54.62 309 iPd   33 04.60   1.2
       1.0s    80.00nm          5.7mb
                e(pP) 35 07.60 682kmX
FUR    55.10 307 eP    33 07.70   0.7
       1.4s   313.00nm          6.1mb
WTTA   55.19 306 iPc   33 07.30  -0.6
       1.2s    99.30nm          5.7mb
WATA   55.20 306 iPc   33 07.10  -0.8
SQTA   55.48 306 iPc   33 09.20  -0.7
       1.2s    78.20nm          5.6mb
MOTA   55.50 306 iPc   33 09.20  -0.9
       1.2s    91.10nm          5.7mb
                i     33 14.50  17km
OGA    55.72 306 iPd   33 11.20  -0.5
       1.0s    17.00nm          5.0mb
TNS    56.12 310 iPd   33 14.70   0.4
ILT    56.21  27 iPd   33 14.00  -0.7
WIT    56.26 314 eP    33 17.00   1.8
OSS    56.35 306 ePd   33 16.10  -0.1
WTS    56.46 313 eP    33 16.50  -0.2
       0.8s    32.60nm          5.4mb
FIR    56.73 302 e(P)  33 19.00   0.2
VDL    56.86 306 ePd   33 19.60  -0.3
HOFF   56.88 309 P     33 19.73   0.0
LANF   56.96 309 P     33 19.83  -0.5
SLE    56.99 308 ePd   33 20.50  -0.1
LLS    57.01 306 ePd   33 20.30  -0.7
DAG    57.02 345 iPd   33 19.90  -0.5
       0.7s    12.33nm          5.0mb
FEL    57.25 308 P     33 21.70  -0.8
TMA    57.38 306 P     33 22.67  -0.9
LIBD   57.40 308 P     33 22.90  -0.5
ENN    57.42 312 eP    33 24.00   0.5
       1.0s    49.00nm          5.5mb
WLS    57.45 309 P     33 22.68  -1.2
CDF    57.50 309 eP    33 23.60  -0.6
       1.4s    87.15nm          5.6mb
ECH    57.65 308 P     33 24.33  -0.9
WLF    57.70 310 iPd   33 26.28   0.8
       2.0s    67.00nm          5.3mb
BBS    57.72 308 P     33 26.95   1.2
MOF    57.80 308 P     33 25.43  -0.9
MMK    57.99 306 P     33 27.65  -0.2
BSF    58.02 308 eP    33 27.30  -0.6
       1.3s    73.30nm          5.6mb
LOMF   58.19 308 P     33 28.06  -1.0
HAU    58.23 308 eP    33 28.60  -0.7
       1.1s    32.00nm          5.3mb
     Z 22s     1.48um          5.1Msz
DIX    58.33 306 iPc   33 30.00  -0.3
VITF   58.37 309 P     33 29.69  -0.5
DOU    58.47 311 P     33 31.20   0.4
SNF    58.49 312 Pd    33 31.10   0.1
EMS    58.64 306 P     33 32.30  -0.1
LPG    58.99 306 eP    33 34.90  -0.1
       0.7s    48.50nm          5.7mb
LPL    58.99 306 eP    33 34.80  -0.1
       1.1s   106.95nm          5.9mb
SBF    59.23 304 eP    33 35.70  -0.6
       1.2s   105.05nm          5.8mb
LOR    60.07 308 eP    33 40.80  -1.2
       1.6s    97.00nm          5.7mb
     Z 23s     1.25um          5.0MszX
LBF    60.11 308 eP    33 41.20  -1.2
       1.4s    83.20nm          5.7mb
SMF    60.34 308 eP    33 43.10  -0.8
       1.4s   138.10nm          5.9mb
SSF    60.37 308 eP    33 43.20  -0.9
       1.5s   123.25nm          5.8mb
AVF    60.58 308 eP    33 44.70  -0.8
       1.5s   182.80nm          6.0mb
EKA    60.62 319 Pc    33 45.90   0.2
       1.1s    60.90nm          5.6mb
HYF    60.82 309 eP    33 46.70  -0.4
BGF    61.00 308 eP    33 47.50  -0.8
       1.3s    41.15nm          5.4mb
MAF    61.32 308 eP    33 50.20  -0.4
       1.5s   133.20nm          5.9mb
TCF    61.51 308 eP    33 51.40  -0.5
       1.4s   127.20nm          5.9mb
HAE    61.74 315 eP    33 52.60  -0.7
LDF    61.90 311 eP    33 53.40  -1.0
       1.3s    68.25nm          5.7mb
LSF    61.95 308 eP    33 53.80  -1.0
       1.1s    38.10nm          5.5mb
FLN    62.03 311 eP    33 54.20  -1.1
       1.6s   121.25nm          5.8mb
     Z 19s     1.02um          5.0Msz
HGH    62.06 315 eP    33 53.50  -2.0
HTR    62.12 316 ePc   33 54.80  -1.1
CAF    62.22 307 eP    33 56.40  -0.3
RJF    62.39 307 eP    33 57.60  -0.2
       1.6s   145.50nm          5.9mb
     Z 21s     0.73um          4.8Msz
GRR    62.43 311 eP    33 56.90  -1.0
       0.9s    36.05nm          5.5mb
LPF    62.70 311 eP    33 59.00  -0.7
MFF    62.82 309 eP    33 59.70  -0.8
       1.5s   100.30nm          5.8mb
LPO    62.88 307 eP    34 00.60  -0.4
LFF    63.05 307 eP    34 01.60  -0.5
       1.0s    40.60nm          5.6mb
DLF    63.31 318 eP    34 06.30   2.6
       1.2s   136.00nm          6.0mb
DCN    63.68 318 eP    34 06.70   0.6
       1.2s   170.00nm          6.1mb
EPF    64.21 306 eP    34 08.50  -1.3
IMA    65.62  23 iPc   34 18.34  -0.4
       1.1s    52.74nm          5.6mb
TTA    66.85  27 eP    34 26.80   0.3
SVW    68.16  28 iPc   34 35.37   0.6
       0.9s    61.01nm          5.8mb
FBA    68.22  23 iPc   34 34.63  -0.4
       0.9s    51.75nm          5.7mb
INK    69.25  15 ePd   34 40.40  -0.9
       1.0s    21.00nm          5.3mb
CP2    69.28  27 eP    34 42.64   0.8
```

02d 17h

```
CRP     69.31  27 eP    34 42.07   0.1
PMR     70.14  25 iPc   34 46.15  -0.6
        1.0s    50.44nm          5.6mb
SLKM    70.52  27 ePc   34 48.28  -0.9
TOA     70.75  24 ePc   34 51.00   0.4
KLU     71.28  24 ePc   34 53.69  -0.2
                i       34 59.15  18km
KDC     71.59  30 iPc   34 55.16  -0.5
        0.9s    36.71nm          5.5mb
                i       35 00.67  18km
BCAO    71.70 261 iPc   34 50.00  -7.0X
        0.5s    23.00nm          5.5mb
                i       35 13.30  89kmX
MRWA    71.74 155 eP    34 57.00   0.2
WRA     71.96 135 P     34 57.80  -0.5
        0.9s    24.40nm          5.3mb
WR2     71.98 135 iPd   34 57.30  -1.1
        1.1s    34.00nm          5.3mb
BALM    72.76  23 ePc   35 02.76   0.0
ASPA    74.72 138 eP    35 13.30  -1.1
        2.6s    42.40nm          5.0mb
LSZ     77.68 239 iPd   35 31.00  -0.3
YKA     77.94  11 eP    35 32.00   0.1
        0.9s    36.60nm          5.5mb
SIT     78.13  23 eP    35 34.80   1.8
STK     85.35 137 iPd   36 10.30  -0.8
        1.1s     9.00nm          4.9mb
BRS     88.59 127 eP    36 23.50  -3.5X
MCW     89.11  20 ePc   36 30.80   1.4
JCW     89.80  20 P     36 33.57   1.0
GMW     90.15  21 ePc   36 35.74   1.5
ONR     90.48  22 P     36 37.65   1.9
RMW     90.51  20 ePc   36 37.07   1.1
WTV     90.77  19 P     36 38.09   0.9
SAW     90.91  19 P     36 38.70   1.0
NEW     90.93  17 iPc   36 38.38   0.5
        1.1s    44.97nm          5.7mb
                e       36 42.50  13km
BMW     91.01  21 ePc   36 39.54   1.3
BWA     91.02 134 eP    36 38.60   0.4
FMW     91.03  20 P     36 39.52   1.0
DPW     91.05  18 eP    36 39.22   0.8
LON     91.15  20 ePc   36 39.71   0.8
SHW     91.55  21 eP    36 42.18   1.3
KMOR    91.69  22 P     36 43.15   1.7
WAH2    91.75  19 P     36 42.77   1.2
ASR     91.76  21 P     36 43.54   1.7
ULM     91.87   3 eP    36 44.00   2.0
CAN     92.00 135 e(P)  36 50.50   7.8X
VGB     92.57  20 eP    36 46.64   1.2
SSOR    92.70  22 P     36 47.47   1.3
CROR    93.01  21 P     36 48.94   1.4
LMN     93.03 342 eP    36 40.00  -7.5X
VIPM    93.54  21 P     36 51.45   1.3
LRM     94.25  15 eP    36 53.80   0.3
LBFM    96.08  23 ePc   37 02.59   0.7
LGPM    96.19  23 eP    37 03.49   1.2
RSSD    97.28   9 eP    37 07.18  -0.1
        0.9s    17.94nm          5.7mb
SIV    145.43 301 PKP   43 12.30  -0.5
CCH    149.76 306 PKP   43 24.60   4.5X
LPAZ   150.16 311 PKPc  43 20.00  -1.1
LPB    150.33 310 PKP   43 19.00  -2.1X
CNCB   150.47 310 (PKP) 43 18.00  -3.5X
                i       45 37.00
ARE    152.23 316 ePKP  43 29.00   5.2X
     S.D. = 1.0  on 218 of 238 obs.
-----------------------------------
*  OCT  02, 1993  18h 38m 11.87± 0.67s
   45.336 N ±11.8km  145.996 E ±13.3km
   DEPTH =  33.0km  (normal)
   4.7mb ( 20 obs.)
 HOKKAIDO, JAPAN  REGION          (224)

MAT     10.57 216 (P)   40 45.00   0.9
FBA     40.31  37 eP    45 48.79   1.5
        0.7s     5.23nm          4.4mb
KLU     41.56  42 eP    45 57.74   0.1
HYB     62.02 267 eP    48 29.00  -2.4
KAF     62.53 333 iP    48 34.50   0.4
        0.5s     2.60nm          4.6mb
NUR     64.25 332 iP    48 44.70  -0.7
        0.3s     2.70nm          4.8mb
LRM     65.92  49 eP    48 54.30  -2.5
NB2     67.83 338 P     49 07.70  -0.7
        0.4s     1.10nm          4.3mb
HFS     67.91 336 eP    49 08.10  -0.7
        0.4s     2.90nm          4.8mb
CLL     75.53 332 iP    49 54.30   0.0
KHC     77.17 330 P     50 04.40   0.7
        0.9s     4.60nm          4.5mb
GEC2    77.37 330 P     50 04.90   0.1
        0.8s     2.45nm          4.3mb
                 e      50 06.40
                 e      50 08.70
GRF     77.50 332 eP    50 06.20   0.8
CDF     79.90 333 eP    50 18.30  -0.3
        0.7s     4.65nm          4.6mb
HAU     80.55 334 eP    50 21.60  -0.4
        0.5s     2.50nm          4.5mb
BSF     80.56 333 eP    50 21.60  -0.6
        0.9s     5.40nm          4.5mb
LOR     81.96 335 eP    50 29.00  -0.4
LBF     82.18 335 eP    50 30.10  -0.5
SSF     82.25 335 eP    50 30.60  -0.3
GRR     82.26 338 eP    50 30.90   0.0
        0.8s    11.15nm          5.0mb
SMF     82.53 335 eP    50 32.20  -0.2
        0.9s    11.30nm          4.9mb
AVF     82.54 335 eP    50 32.40   0.0
        0.7s     6.15nm          4.8mb
LPL     82.63 332 eP    50 33.40   0.2
        0.7s     5.30nm          4.7mb
LPF     82.63 338 eP    50 33.00   0.2
        0.4s     3.30nm          4.8mb
LPG     82.64 332 eP    50 33.60   0.3
        0.6s     6.20nm          4.9mb
BGF     82.90 335 eP    50 34.10  -0.2
MAF     83.29 335 eP    50 36.80   0.5
        0.7s     9.70nm          5.0mb
TCF     83.33 336 eP    50 36.60   0.1
        0.8s     6.30nm          4.8mb
LSF     83.56 336 eP    50 37.90   0.2
MFF     83.71 337 eP    50 38.70   0.3
        0.6s     5.05nm          4.8mb
FRF     84.39 332 eP    50 42.80   0.9
RJF     84.43 336 eP    50 42.40   0.3
CAF     84.61 335 eP    50 43.70   0.7
        1.3s    44.05nm          5.5mb
LMR     84.64 332 eP    50 43.30   0.2
LFF     84.99 336 eP    50 46.00   1.2
LPO     85.09 336 eP    50 45.90   0.5
     S.D. = 0.8  on  36 of  36 obs.
-----------------------------------
*  OCT  02, 1993  19h 16m 43.01± 1.13s
   38.079 N ±19.3km   88.831 E ± 9.3km
   DEPTH =  10.0km  (geophysicist)
   3.8mb (  2 obs.)
 SOUTHERN XINJIANG, CHINA         (321)

WMQ      5.80 352 Pn    18 11.40   0.2
                Sg      19 41.00
GTA      8.69  78 eP    18 52.00   0.2
       0.5s     5.00nm          5.1mb X
     Z  14s     0.58um
     E  10s     0.26um
                 S      20 30.00
KSH     10.13 282 eP    19 12.00   0.3
LZH     12.16  95 eP    19 37.50  -1.8
XAN     16.73  98 P     20 40.50   1.4
TIY     18.63  84 eP    21 03.00   0.4
BJI     21.30  76 eP    21 36.50   4.6X
NB2     51.77 323 P     25 51.80  -0.7
       0.8s     1.40nm          3.9mb
WRA     71.82 135 P     28 13.20   5.3X
       0.6s     0.30nm          3.6mb
     S.D. = 1.2  on   7 of   9 obs.
-----------------------------------
&  OCT  02, 1993  19h 42m 33.96s
   63.138 N          150.786 W
   DEPTH = 130.0km
   4.2mb (  2 obs.)
 CENTRAL ALASKA                   (  1)
      <AEIC>.

TRF      0.39  35 eP    42 52.57  -0.4
KTH      0.42 352 iPd   42 52.61  -0.3
                eS      43 06.41
HUR      0.55 107 eP    42 53.05  -0.5
                eS      43 07.83
CUT      0.77 162 iPd   42 54.87  -0.3
RND      0.91  72 eP    42 55.92  -0.5
MCK      1.02  54 ePc   42 56.93  -0.5
                eS      43 14.09
SKT      1.21 197 iPd   42 58.85  -0.4
                eS      43 17.97
PWA      1.55 164 P     43 02.70  -0.3
DHY      1.55  91 iPc   43 02.55  -0.6
                eS      43 24.31
GHO      1.62 147 eP    43 03.49  -0.4
                eS      43 26.78
NEA      1.63  27 eP    43 02.80  -1.1
                eS      43 24.28
SUA      1.68 179 ePd   43 04.29  -0.3
PLRM     1.73 153 iPd   43 04.25  -0.8
                eS      43 28.73
PMR      1.73 153 ePd   43 03.91  -1.2
                eS      43 26.33
SML      1.76 138 eP    43 04.42  -1.0
NCG      1.86 201 iPd   43 06.04  -0.7
MLY      1.90   1 eP    43 06.26  -0.9
CGLM     1.92 198 eP    43 06.86  -0.7
CRP      1.98 199 ePd   43 06.96  -1.4
PMS      1.99 163 P     43 07.50  -0.7
CP2      2.00 201 ePd   43 07.89  -0.7
CCB      2.01  40 ePc   43 07.40  -1.0
BGL      2.03 203 eP    43 07.95  -0.8
CKN      2.03 199 eP    43 08.74   0.0
KNK      2.05 147 iPd   43 08.11  -0.9
                eS      43 35.59
SPU      2.05 197 eP    43 08.30  -0.8
CKT      2.06 200 eP    43 08.73  -0.4
SCM      2.07 128 iPd   43 08.15  -1.2
CKL      2.08 201 eP    43 09.06  -0.4
HDA      2.13  52 ePc   43 08.78  -1.1
MDM      2.15  30 iPc   43 09.35  -0.9
BKG      2.19 199 eP    43 10.01  -0.8
FBA      2.21  35 ePc   43 09.65  -1.3
THY      2.29  81 eP    43 12.40   0.3
                eS      43 43.11
TOA      2.37 114 P     43 12.60  -0.5
IL1      2.38  45 iPc   43 11.91  -1.2
ILB      2.38  45 iPc   43 11.99  -1.1
                eS      43 40.37
GLM      2.38  37 ePc   43 12.32  -0.9
TTA      2.39 267 eP    43 12.00  -1.4
NKA      2.41 185 eP    43 15.48   2.0
CFI      2.42 143 iPd   43 12.42  -1.2
                eS      43 43.96
PAX      2.43  92 ePc   43 13.15  -0.7
PTE      2.43 159 eP    43 12.81  -0.9
DJE      2.45  66 eP    43 13.25  -0.8
SDG      2.48 102 eP    43 13.62  -0.9
PWL      2.56 152 eP    43 14.37  -1.1
SLKM     2.65 174 eP    43 15.92  -0.8
RDT      2.69 197 eP    43 16.48  -0.7
DFR      2.71 200 eP    43 17.09  -0.4
TZL      2.71 111 eP    43 17.21  -0.2
MPA      2.74 165 iPd   43 16.60  -1.2
                eS      43 47.90
NCT      2.78 202 eP    43 18.09  -0.3
KLU      2.81 124 iPd   43 17.08  -1.7
REF      2.81 200 eP    43 18.36  -0.5
RDW      2.83 201 eP    43 18.76  -0.4
RS2      2.84 200 eP    43 18.95  -0.4
RSO      2.84 200 eP    43 18.96  -0.4
RED      2.89 200 P     43 20.20   0.4
VLZ      2.90 132 eP    43 17.83  -2.0
SVW      3.05 230 ePc   43 20.74  -1.2
DOT      3.07  77 eP    43 20.75  -1.4
SEW      3.11 168 eP    43 21.52  -1.1
IM3      3.13 337 eP    43 21.48  -1.4
IMA      3.20 338 ePd   43 22.22  -1.7
ILIM     3.24 200 eP    43 23.42  -1.0
INE      3.27 200 eP    43 24.19  -0.8
PRP      3.31  41 iPc   43 24.14  -1.3
HIN      3.42 142 eP    43 25.18  -1.6
HOM      3.52 187 eP    43 28.04   0.0
CVA      3.53 135 eP    43 26.98  -1.2
TMW      3.53  83 eP    43 26.48  -1.7
CNPM     3.63 184 iPd   43 28.77  -0.8
GLB      3.68 114 iPc   43 28.86  -1.4
                eS      44 10.07
OPT      3.69 200 eP    43 30.10  -0.3
XLV      3.72 187 eP    43 30.21  -0.6
PDB      3.74 207 ePc   43 30.46  -0.5
SGAM     3.74 132 eP    43 29.10  -1.9
AUL      3.98 200 eP    43 35.31   1.1
AUE      3.99 199 eP    43 34.05  -0.3
AUW      4.00 200 eP    43 34.13  -0.3
AUH      4.00 200 eP    43 33.91  -0.6
```

```
AGU      4.00 200 eP    43 35.12   0.5
RAGM     4.01 131 eP    43 33.13  -1.5
AUI      4.02 200 eP    43 34.91   0.1
BC3      4.09  87 ePc   43 33.84  -1.9
FYU      4.18  32 iPc   43 35.63  -1.2
HMT      4.19 129 eP    43 34.96  -2.1
MID      4.30 148 P     43 38.00  -0.4
CRQM     4.33 120 eP    43 37.53  -1.6
KAIM     4.43 134 eP    43 37.96  -2.4
CDD      4.45 199 eP    43 39.49  -1.0
TGL      4.45 119 ePd   43 38.73  -2.0
BALM     4.49 114 eP    43 39.39  -1.9
SNH      4.81 125 eP    43 44.24  -1.2
CTGM     4.95 112 eP    43 46.09  -1.4
CYK      5.01 124 eP    43 47.41  -0.6
BM3      5.02  28 iPc   43 46.57  -1.7
YAH      5.12 119 eP    43 47.92  -1.9
WRG      5.21 123 eP    43 49.61  -1.2
KDC      5.47 190 eP    43 51.24  -3.1
INK      8.78  46 eP    44 37.00  -2.1
       0.7s     5.00nm          4.3mb X
SIT      9.82 121 eP    44 50.95  -2.0
YKA     16.41  76 eP    46 15.30  -2.3
       0.6s     5.20nm          4.0mb
RSSD    32.63 103 ePd   48 54.84  -0.2
       0.6s     5.34nm          4.5mb
LTX     45.24 116 eP    50 38.39  -1.2
OXF     46.99  98 eP    50 51.96  -1.3
      106 obs. associated
-------------------------------------
?  OCT  02, 1993  19h 45m 30.10± 2.10s
   40.538 N ±23.9km   29.829 E ± 9.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      ML 2.7 (ISK).

EYL      0.25  84 iPg   45 35.50   0.0
                  iSg   45 38.00
HRT      0.31 337 iPg   45 36.60   0.1
ISK      0.79 312 iPg   45 45.20  -0.2
                  eSg   45 56.00
CTT      1.22 300 ePn   45 53.00   0.1
     S.D. = 0.2  on   4 of   4 obs.
-------------------------------------
&  OCT  02, 1993  19h 55m 09.75s
   60.842 N          151.760 W
   DEPTH =  91.4km
 KENAI PENINSULA, ALASKA             ( 14)
      <AEIC>.

NKA      0.27 111 eP    55 25.21   1.8
BKG      0.34 313 iP    55 23.25  -0.6
                  eS    55 34.17
SPU      0.37 337 iP    55 23.35  -0.7
                  eS    55 34.76
RDT      0.42 230 eP    55 23.69  -0.6
CKT      0.42 329 iP    55 23.63  -0.8
                  eS    55 34.71
CKN      0.43 332 iP    55 23.95  -0.5
CKL      0.45 322 iP    55 23.86  -0.8
CRP      0.47 336 iP    55 24.26  -0.6
                  eS    55 35.42
CGLM     0.48 346 eP    55 24.15  -0.7
CP2      0.48 331 eP    55 24.36  -0.6
DFR      0.52 242 iP    55 24.35  -0.8
                  eS    55 36.09
BGL      0.52 324 eP    55 24.41  -0.8
REF      0.58 233 iP    55 25.15  -0.6
                  eS    55 37.24
NCG      0.60 341 eP    55 25.09  -0.7
RSO      0.62 233 eP    55 25.46  -0.7
RS2      0.62 233 eP    55 25.59  -0.5
                  eS    55 38.36
RDW      0.63 236 eP    55 25.49  -0.7
                  eS    55 38.26
NCT      0.64 244 eP    55 25.39  -0.8
                  eS    55 38.15
RED      0.66 230 eP    55 25.60  -0.7
SUA      0.80  38 eP    55 27.42  -0.3
                  eS    55 41.11
SLKM     0.83 113 eP    55 27.56  -0.4
                  eS    55 41.94
ILIM     0.97 218 eP    55 28.50  -1.0
                  eS    55 43.55
INE      1.02 220 eP    55 29.09  -1.1
                  eS    55 44.53
PMS      1.14  68 eP    55 31.28  -0.3
                  eS    55 48.58
SKT      1.15   5 eP    55 30.85  -0.7
                  eS    55 47.29
BRLK     1.17 158 eP    55 30.84  -1.0
                  eS    55 48.43
PWA      1.22  47 eP    55 33.03   0.6
                  eS    55 50.15
MPA      1.23 106 eP    55 32.26  -0.3
CNPM     1.35 169 iP    55 33.20  -0.8
SEW      1.36 122 eP    55 33.44  -0.7
OPT      1.40 212 eP    55 34.06  -0.7
                  eS    55 53.15
PDB      1.61 230 P     55 36.13  -1.2
GHO      1.66  54 eP    55 36.79  -1.3
PWL      1.68  88 eP    55 36.83  -1.4
                  eS    55 58.72
KNK      1.70  69 eP    55 37.29  -1.3
CDD      2.14 207 eP    55 43.15  -1.3
KLU      2.90  74 eP    55 53.02  -1.9
      37 obs. associated
-------------------------------------
*  OCT  02, 1993  21h 02m 30.89± 2.67s
   58.064 N ±21.2km  143.022 W ± 9.2km
   DEPTH =  10.0km  (geophysicist)
 GULF OF ALASKA                      ( 15)
      ML 2.7 (AEIC).

KAIM     2.00 339 eP    03 05.15   0.0
CYK      2.04   8 eP    03 05.90   0.2
                  eS    03 29.40
WRG      2.05  14 eP    03 06.35   0.6
MID      2.20 310 P     03 08.80   0.8
HMT      2.37 345 iP    03 10.90   0.5
YAH      2.40  15 iP    03 11.10   0.1
                  eS    03 39.35
RAGM     2.48 341 eP    03 12.45   0.4
SGAM     2.69 336 iP    03 15.72   0.7
                  eS    03 47.04
CRQM     2.70 359 iP    03 14.94  -0.4
TGL      2.70   2 iP    03 14.96  -0.3
                  eS    03 44.94
CVA      2.86 332 eP    03 17.15  -0.1
HIN      2.94 324 eP    03 19.25   0.7
BALM     3.00   6 iP    03 19.23  -0.2
                  eS    03 52.50
CTGM     3.04  16 eP    03 19.70  -0.3
GLB      3.41 354 iP    03 24.61  -0.6
VLZ      3.51 333 P     03 28.80   2.3X
KLU      3.74 338 eP    03 29.66  -0.3
PWL      3.90 318 eP    03 31.37  -0.8
CFI      3.95 324 eP    03 32.23  -0.5
MPA      4.06 309 eP    03 33.85  -0.5
KNK      4.34 323 eP    03 38.36   0.0
TOA      4.35 340 P     03 39.70   1.1X
SLKM     4.43 307 eP    03 39.56  -0.1
CNPM     4.52 292 eP    03 40.99   0.1
SML      4.61 327 eP    03 42.04  -0.2
     S.D. = 0.5  on  23 of  25 obs.
-------------------------------------
?  OCT  02, 1993  21h 06m 54.43± 1.60s
   41.280 N ±14.7km   19.982 E ± 9.6km
   DEPTH =  10.0km  (geophysicist)
 ALBANIA                             (391)
      ML 2.7 (TIR).

TIR      0.11 308 iPgd  06 58.00   0.7
                  iSg   07 03.00
LACI     0.41 330 iPgc  07 02.00  -0.8
                  iSg   07 10.00
PHP      0.53  40 iPgc  07 05.60   0.4
                  iSg   07 16.10
OHR      0.64 105 iPg   07 07.00  -0.3
       0.5s   150.00nm
                  iSg   07 17.50
SDA      0.85 335 ePg   07 15.40   4.6X
BCI      1.09   3 ePg   07 19.10   4.2X
                  iSg   07 35.60
SKO      1.29  57 iPn   07 21.00   2.6X
     S.D. = 1.2  on   4 of   7 obs.
-------------------------------------
   OCT  02, 1993  21h 10m 01.11± 0.71s
   41.131 N ± 9.1km   20.186 E ± 6.7km
   DEPTH =  10.0km  (geophysicist)
 ALBANIA                             (391)
      ML 2.8 (TIR).

TIR      0.32 312 iPgd  10 09.00   1.2
                  iSg   10 14.00
OHR      0.46  92 iPg   10 17.50   6.9X
       1.0s   200.00nm
                  iSg   10 29.10
PHP      0.59  19 iPgc  10 16.10   3.1X
                  iSg   10 26.60
LACI     0.62 325 ePg   10 12.50  -1.0
                  iSg   10 20.50
VLO      0.84 219 ePn   10 17.00  -0.4
FNA      0.97 111 eP    10 39.12  19.6X
                  eS    11 07.28
SKO      1.26  48 iPn   10 31.00   6.5X
IGT      1.60 176 eP    10 42.56  13.0X
                  eS    11 12.64
GRG      1.68  95 eP    10 40.48   9.7X
LIT      2.03 120 eP    10 36.12   0.3
                  eS    10 56.12
THE      2.17 102 eP    10 38.16   0.5
SOH      2.42  96 eP    10 41.96   0.6
SRS      2.57  89 eP    10 42.40  -1.1
ALN      4.44  91 eP    10 58.12 -11.9X
     S.D. = 1.1  on   7 of  14 obs.
-------------------------------------
*  OCT  02, 1993  22h 10m 44.15± 0.99s
   5.971 S ±13.8km  149.178 E ±10.9km
   DEPTH = 103.1 ± 15.9 km
   4.6mb (  2 obs.)
 NEW BRITAIN REGION, P.N.G.          (192)

YYYY     3.20 265 eP    11 34.90   1.2
MDG      3.46 282 eP    11 35.20  -1.8
RAB      3.46  59 iPd   11 37.50   0.5
KVG      3.73  26 eP    11 40.20  -0.6
PMG      3.96 210 iPc   11 43.50  -0.3
                  eS    12 30.00
WWKK     6.01 293 eP    12 13.20   1.1
CTA     14.32 191 iPd   14 08.00   4.7X
       1.5s    34.72nm          4.4mb
WR2     20.01 225 iPc   15 09.50  -1.6
       0.9s    38.90nm          4.7mb
                  eS    18 48.80
ASPA    22.93 218 eP    15 41.60   1.5
                  ipP   16 00.30  85kmX
                  eS    19 41.70
STK     26.74 194 eP    16 39.20  23.3X
       0.7s     6.00nm
                  i     16 41.70
CNCB   136.85 122 ePKP  29 58.00  -0.1
LPB    136.88 122 PKP   29 55.00  -3.0X
LPAZ   136.97 121 PKP   29 50.10  -8.3X
     S.D. = 1.5  on   9 of  13 obs.
-------------------------------------
*  OCT  02, 1993  22h 28m 40.63± 3.11s
   36.681 N ±27.9km   29.067 E ±13.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      ML 3.4 (ISK).

ELL      0.68  84 iPg   28 54.50   0.3
                  eSg   29 05.00
CIN      1.21 320 eP    29 03.00  -0.1
BCK      1.44  57 ePn   29 06.30  -0.6
KHL      1.68  12 ePn   29 10.50   0.3
ALT      2.51  19 ePn   29 22.30   0.1
     S.D. = 0.5  on   5 of   5 obs.
-------------------------------------
   OCT  02, 1993  23h 04m 46.49± 0.61s
   25.147 N ±10.5km   96.326 E ± 6.9km
   DEPTH =  33.0km  (normal)
   4.0mb (  4 obs.)
 MYANMAR                             (296)

KMI      5.81  89 ePg   06 24.50  11.6X
LSA      6.46 316 Pn    06 26.40   4.2X
                  Sn    07 43.50
CHTO     6.75 158 ePnc  06 25.20  -0.7
                  ePg   06 47.80
                  eSg   08 11.70
GYA      9.41  80 P     07 05.00   2.1
GUN      9.75 289 P     07 08.40   0.5
KKN     10.24 287 P     07 13.40  -1.1
DMN     10.36 286 P     07 15.60  -0.5
       0.6s    32.00nm          5.7mb X
XAN     14.08  48 P     08 04.50  -1.3
       0.6s     4.00nm          4.3mb
                  pP    08 13.60
                  sP    08 18.00
```

02d 23h

```
HYB    18.25 249 eP     09 00.00   1.0
GBA    21.17 241 P      09 32.00   0.7
WRA    58.10 137 P      14 38.00  -1.2
       0.5s     0.50nm          3.8mb
HFS    64.91 327 eP     15 25.00   0.4
       0.4s     0.90nm          4.2mb
GEC2   66.79 315 P      15 37.20   0.2
       0.6s     0.71nm          3.9mb
                e       15 41.00
                e       15 42.90
     S.D. = 1.2  on  11 of  13 obs.
-------------------------------------
   OCT  02, 1993  23h 49m 59.72± 0.46s
   38.359 N ± 8.6km   88.878 E ± 7.1km
   DEPTH =  10.0km  (geophysicist)
   4.8mb ( 14 obs.)
 SOUTHERN XINJIANG, CHINA          (321)

WMQ     5.53 351 Pn     51 25.20   1.1
                Sg      52 54.00
GTA     8.59  80 eP     52 07.00  -0.2
       1.5s    26.00nm          5.3mb
                S       53 43.00
LSA     8.84 167 P      52 13.50   2.6
       1.0s     9.00nm          5.1mb
KSH    10.11 280 eP     52 27.00  -1.1
LZH    12.15  96 eP     52 52.00  -3.9X
       1.5s    50.00nm          5.6mb
     Z  12s     0.53um
                pP      52 56.50
                ePP     53 02.00
                S       55 07.50
                sS      55 16.00
XAN    16.74  99 P      53 54.50  -1.3
                pP      54 00.90
                sP      54 03.50
TIY    18.56  85 eP     54 18.80   0.2
GYA    19.10 123 P      54 25.40   0.2
       1.0s    11.00nm          4.1mb
WHN    22.36 103 eP     55 00.00   0.7
MAIO   23.41 274 eP     55 12.00   2.3
GBA    26.67 205 P      55 40.00  -0.6
KAF    44.30 323 eP     58 09.50  -1.5
NUR    45.07 321 iP     58 16.90  -0.3
       0.5s     3.00nm          4.5mb
UPP    48.62 320 iP     58 44.90  -0.2
HFS    50.53 321 eP     58 58.20  -1.6
       0.4s     2.30nm          4.5mb
     Z  16s     0.06um          3.7MszX
                LR      19 05.00
GEC2   53.36 307 P      59 20.80  -0.6
       0.7s     1.13nm          4.0mb
                e       59 21.70
                e       59 24.10
                e       59 29.10
GRF    54.61 309 eP     59 31.40   0.9
FBA    67.99  23 eP     01 00.38  -0.3
       0.6s     4.93nm          4.9mb
INK    69.03  16 eP     01 09.50   2.5
       1.0s     3.00nm          4.4mb
PMR    69.90  26 eP     01 13.30   0.9
       0.7s     6.40nm          4.9mb
SLKM   70.29  27 eP     01 14.72  -0.2
BCAO   71.87 261 iPd    01 24.90  -0.2
       0.9s     9.00nm          4.9mb
WRA    71.99 135 P      01 24.00  -1.6
       0.8s     7.90nm          4.9mb
WR2    72.01 135 eP     01 23.30  -2.4
       0.6s    11.20nm          5.1mb
YKA    77.73  11 eP     01 57.70  -0.2
       0.8s     6.90nm          4.8mb
RMW    90.28  20 eP     03 03.06   1.1
     S.D. = 1.3  on  25 of  26 obs.
-------------------------------------
   OCT  03, 1993  01h 11m 57.52± 0.44s
   39.954 N ± 4.6km   22.483 E ± 4.0km
   DEPTH =  10.0km  (geophysicist)
   3.5mb (  2 obs.)
 GREECE                            (364)
      ML 3.6 (ATH), 3.5 (TIR), 3.4
      (THE).

LIT     0.15   2 ePg    12 01.41   0.5
                eSg     12 05.47
KZN     0.65 303 ePg    12 08.10  -2.5
THE     0.77  28 ePg    12 13.12   0.6
                eSg     12 26.16
PAIG    0.92  91 iPg    12 16.20   1.1
                eSg     12 30.31
AGG     0.94 187 iPg    12 14.33  -1.1
                eSg     12 27.64
GRG     1.00 356 iPg    12 16.35  -0.2
                eSg     12 32.39
SOH     1.09  37 iPg    12 18.50   0.4
                eSg     12 36.79
FNA     1.18 315 iPb    12 19.29  -0.4
                eSb     12 37.56
OUR     1.21  71 iPb    12 21.10   1.1
                eSb     12 39.04
SRS     1.44  36 ePb    12 24.04   0.4
                eSb     12 46.04
IGT     1.71 256 iPb    12 28.25   0.7
                eSb     12 52.24
SRN     1.91 269 ePn    12 31.70   1.3
                iSn     12 55.30
KEK     2.08 264 ePn    12 35.50   2.6X
SKO     2.17 339 iPn    12 27.70  -6.4X
                i       12 32.00
                i       12 50.60
                i       12 55.10
                Lg      13 02.00
SKO     2.17 339 ePn    12 33.00  -1.1
                i       12 38.30
                eSn     12 58.00
                i       13 06.00
                Lg      13 13.00
ATH     2.20 154 ePn    12 34.00  -0.6
VLS     2.31 220 ePn    12 38.00   1.8
PHP     2.32 319 iPnc   12 35.60  -0.8
                iSn     13 05.10
VLO     2.34 284 ePn    12 37.00   0.3
TIR     2.43 306 ePn    12 43.50   5.6X
                iSn     13 19.50
RDO     2.61  62 ePn    12 40.20  -0.3
LACI    2.69 309 ePn    12 42.40   0.8
                iSn     13 32.50
ALN     2.88  70 iPn    12 44.18  -0.1
EZN     2.96  91 ePn    12 45.10  -0.3
PRK     3.01 102 ePn    12 48.40   2.3
BCI     3.02 324 iPn    12 48.60   2.3
VLI     3.25 174 ePn    12 48.10  -1.5
MFT     3.76  76 ePn    12 54.00  -2.9
DMK     4.41  63 eP     13 05.00  -1.0
BZS     5.70 354 eP     14 14.00  49.9X
MLR     6.09  24 ePd    13 29.50  -0.3
VRI     6.68  26 ePd    13 38.50   0.4
KHC    11.15 328 eP     14 39.00  -1.0
HFS    20.94 348 eP     16 37.90  -4.7X
       0.4s     1.00nm          3.5mb
NB2    22.23 345 P      16 52.40  -3.2X
       0.8s     1.50nm          3.5mb
     S.D. = 1.3  on  29 of  35 obs.
-------------------------------------
&  OCT  03, 1993  01h 47m 13.57s
   60.548 N          151.017 W
   DEPTH =  45.3km
 KENAI PENINSULA, ALASKA           ( 14)
      <AEIC>. ML 2.8 (AEIC).

NKA     0.22 331 iPd    47 23.22   1.6
SLKM    0.40  95 iPc    47 23.00  -0.4
                eS      47 31.00
RDT     0.69 273 eP     47 26.31  -0.8
                eS      47 37.20
BRLK    0.79 175 eP     47 27.78  -0.7
                eS      47 39.07
BKG     0.80 311 iPd    47 27.98  -0.8
                eS      47 39.89
SPU     0.81 322 ePd    47 28.10  -0.7
                eS      47 39.91
MPA     0.82  93 iPc    47 27.98  -0.9
                eS      47 40.03
DFR     0.83 274 ePc    47 28.20  -0.9
REF     0.84 267 ePc    47 28.43  -0.8
                eS      47 40.84
RS2     0.87 265 iPc    47 28.84  -0.9
CKT     0.88 319 eP     47 28.88  -0.9
RED     0.88 262 ePc    47 28.75  -1.0
                eS      47 41.50
CKN     0.89 320 eP     47 29.26  -0.6
RDW     0.89 267 ePc    47 29.09  -0.9
                eS      47 41.66
SEW     0.90 119 eP     47 28.87  -1.1
                eS      47 42.52
CGLM    0.90 328 ePd    47 29.55  -0.6
CRP     0.91 323 iPd    47 29.10  -1.2
                eS      47 42.86
CKL     0.92 316 iPd    47 29.55  -0.8
SUA     0.93   8 iPd    47 29.72  -0.8
                eS      47 42.72
CP2     0.94 321 iPd    47 29.76  -0.9
NCT     0.95 272 iPc    47 29.83  -0.9
HOM     0.95 200 eP     47 30.41  -0.2
BGL     0.98 318 iPd    47 30.57  -0.7
PMS     1.00  45 P      47 30.60  -0.8
                S       47 44.00
NCG     1.02 328 iPd    47 31.27  -0.5
                eS      47 45.46
CNPM    1.03 186 ePd    47 30.91  -0.9
                eS      47 44.77
ILIM    1.07 245 eP     47 31.34  -1.2
                eS      47 46.50
INE     1.13 245 eP     47 32.10  -1.3
                eS      47 47.03
PWA     1.24  26 P      47 34.40  -0.3
PWL     1.36  76 eP     47 34.98  -1.4
PLRM    1.39  40 ePc    47 35.79  -1.1
                eS      47 53.82
PMR     1.39  40 ePc    47 35.41  -1.5
                eS      47 50.71
OPT     1.43 232 eP     47 36.99  -0.4
                eS      47 54.91
SKT     1.46 350 eP     47 37.46  -0.4
                eS      47 56.68
KNK     1.52  54 iPc    47 37.60  -1.2
                eS      47 56.84
GHO     1.59  39 eP     47 38.67  -1.2
AUE     1.68 226 eP     47 39.89  -1.1
AUL     1.69 227 eP     47 41.26   0.2
AUP     1.70 227 eP     47 40.54  -0.8
AUH     1.70 227 eP     47 40.82  -0.6
AUW     1.71 227 eP     47 41.44   0.1
CFI     1.71  67 ePc    47 39.56  -1.8
                eS      48 00.93
PDB     1.76 246 eP     47 41.07  -1.1
SML     1.81  45 eP     47 41.55  -1.4
CUT     1.90  11 eP     47 44.02   0.0
CDD     2.10 220 eP     47 46.45  -0.5
SCM     2.20  53 eP     47 46.82  -1.7
HIN     2.24  92 eP     47 45.93  -3.0
SVW     2.32 286 eP     47 47.88  -2.3
VLZ     2.37  74 eP     47 48.45  -2.2
CVA     2.60  88 eP     47 50.73  -3.4
KLU     2.66  67 ePc    47 52.61  -2.4
SGAM    2.87  88 eP     47 54.27  -3.7
TRF     2.93   6 eP     47 59.63   0.6
KTH     3.02   1 P      48 01.30   1.2
HMT     3.36  91 P      48 00.60  -4.2
       56 obs. associated
-------------------------------------
?  OCT  03, 1993  02h 06m 49.16± 2.35s
   13.928 N ±24.0km   92.920 W ±14.0km
   DEPTH =  33.0km  (normal)
 OFF COAST OF CHIAPAS, MEXICO      ( 68)
      MD 4.4 (GCG).

TPX     1.16  33 iPd    07 07.80  -1.4
IXG     2.41  84 eP     07 27.43   0.2
                eS      07 58.46
SCX     2.81   6 iP     07 34.00   1.4
                iS      08 05.00
YUP     3.04  84 ePd    07 36.39   0.2
PPM     7.49 314 iP     08 39.00  -0.4
     S.D. = 1.4  on   5 of   5 obs.
-------------------------------------
%  OCT  03, 1993  03h 33m 13.70± 2.52s
   18.633 N ±23.6km   66.202 W ± 9.6km
   DEPTH =  33.0km  (normal)
 PUERTO RICO REGION                ( 90)

LPR     0.45 136 P      33 24.00   0.4
                S       33 34.00
SJG     0.52 175 P      33 24.80   0.1
CPD     0.65 155 P      33 25.80  -0.7
                S       33 36.00
CLLP    0.66 213 P      33 27.00   0.5
PORP    0.71 216 P      33 27.30   0.0
                S       33 39.50
MCP     0.89 256 P      33 30.00   0.2
MGP     1.05 234 P      33 31.50  -0.6
     S.D. = 0.6  on   7 of   7 obs.
```

```
-------------------------------------
?  OCT  03, 1993  05h 13m 00.04± 1.96s
    7.954 S ±25.3km  120.201 E ±13.1km
   DEPTH = 182.7 ± 13.9 km
 FLORES SEA                        (279)

WSI      1.71 177 iPd   13 33.70  -0.9
                  iS    13 57.60
KHKI     4.56 265 eP    14 09.50   0.4
                  eS    15 02.00
                  e     17 04.00
MTN     11.80 115 eP    15 44.00   0.2
                  eS    17 45.00
MBL     13.13 182 eP    16 03.00   2.1
                  eS    18 15.00
MEEK    18.64 184 iPc   17 05.30  -1.2
                  eS    20 20.00
ASPA    20.41 141 eP    17 24.70   0.1
                  eS    20 59.60
MRWA    21.52 190 eP    17 34.50  -0.9
                  eS    21 32.00
STK     31.03 143 eP    19 02.90   0.2
        3.5s     1.80nm          3.2mb X
     S.D. = 1.4  on   8 of   8 obs.
-------------------------------------
?  OCT  03, 1993  05h 18m 11.80± 3.06s
   30.737 S ±26.1km   68.405 W ±22.1km
   DEPTH =  33.0km  (normal)
 SAN JUAN PROVINCE, ARGENTINA      (137)

RTLL     0.59 185 ePc   18 25.00   1.2
                  S     18 37.00
RTCB     0.82 204 ePd   18 25.50  -1.5
                  S     18 39.00
CFA      0.88 171 ePd   18 28.80   1.0
                  S     18 45.20
RTPR     1.69  76 ePc   18 40.30   0.9
                  S     19 06.00
MRA      2.84 127 ePc   18 55.00  -0.8
                  S     19 32.30
TCA      3.33 101 iP    19 02.00  -0.9
     S.D. = 1.5  on   6 of   6 obs.
-------------------------------------
%  OCT  03, 1993  05h 54m 58.42± 0.82s
   17.122 N ± 7.4km   99.819 W ±13.2km
   DEPTH =  33.0km  (normal)
 GUERRERO, MEXICO                   ( 59)

ACX      0.25 188 iPc   55 05.66   0.0
                  iS    55 12.75
III      1.29  15 iPd   55 20.43   0.0
                  iS    55 39.20
PPM      2.24  30 (P)   55 35.00   0.6
                  (S)   56 06.50
CRX      2.28   3 (P)   55 35.50   0.8
UNM      2.28  15 iP    55 34.30  -0.5
                  (S)   56 06.00
IIA      2.30  29 iP    55 34.41  -0.3
                  (S)   56 15.94
IIT      2.37  37 iP    55 35.84  -0.3
MRX      2.88 333 iP    55 42.70  -0.3
                  iS    56 21.36
OXX      2.96  90 (P)   55 59.00  14.6X
                  (S)   56 37.62
     S.D. = 0.5  on   8 of   9 obs.
-------------------------------------
%  OCT  03, 1993  06h 58m 33.69± 1.37s
   39.164 N ±13.0km   21.340 E ± 7.1km
   DEPTH =  10.0km  (geophysicist)
 GREECE                            (364)
     ML 2.6 (THE).

AGG      0.78 100 ePg   58 48.66  -0.3
                  eSg   59 00.30
IGT      0.86 296 iPg   58 49.98  -0.3
                  eSg   59 02.54
LIT      1.29  43 ePb   58 55.62  -2.0
                  eSb   59 13.62
FNA      1.62   1 ePb   59 02.58   0.2
                  eSb   59 22.94
THE      1.93  40 ePb   59 07.18   0.4
                  eSb   59 34.26
PAIG     1.96  66 ePn   59 07.90   0.6
GRG      1.97  24 ePn   59 08.30   0.9
SOH      2.27  42 ePn   59 11.90   0.1
OUR      2.35  59 ePn   59 13.42   0.5
SRS      2.61  41 ePn   59 16.54   0.0
                  eSn   59 50.46
     S.D. = 0.9  on  10 of  10 obs.
-------------------------------------
   OCT  03, 1993  07h 13m 26.53± 1.34s
   20.138 N ± 6.7km  121.421 E ±11.2km
   DEPTH =  41.0 ± 12.3 km
   4.7mb ( 20 obs.)
 PHILIPPINE ISLANDS REGION         (248)

PIP      1.96 203 iPd   13 58.00   0.1
                  iS    14 14.00
CVP      2.45 171 ePd   14 07.50   2.5X
                  eS    14 35.00
SZP      2.73 200 ePd   14 10.00   1.1
BCP      3.78 192 eP    14 37.00  12.9X
                  eS    15 17.00
GQP      6.28 171 eP    14 59.00  -0.1
                  eS    16 05.50
HKC      7.10 289 iP    15 05.90  -4.7X
GZH      8.07 293 Pc    15 18.80  -5.3X
QIZ     10.97 266 eP    15 59.60  -4.4X
     E  14s     1.45um
                  S     17 57.40
GYA     14.94 298 P     16 54.40  -2.4
        1.0s    27.00nm          4.5mb
     Z  20s     0.97um
TIA     16.45 348 eP    17 20.30   4.3X
XAN     17.74 324 P     17 32.00  -0.2
        1.4s    27.00nm          4.2mb
     Z  14s     0.88um           6.1MszX
     N  12s     0.67um
                  pP    17 41.00
                  sP    17 45.00
                  PP    17 52.00
KMI     17.94 290 Pd    17 36.50   1.6
        1.8s    90.00nm          4.6mb
     Z  18s     1.50um           4.5Msz
                  pP    17 43.00
TIY     19.18 338 eP    17 50.00   0.3
     Z  14s     0.95um
     N  14s     0.68um
CD2     19.19 307 P     17 49.00  -0.8
        1.0s    59.00nm          4.8mb
BJI     20.34 348 eP    18 01.50  -0.5
        1.0s    11.00nm          4.2mb
     Z  20s     0.60um           3.9Msz
CHTO    21.23 270 ePd   18 10.80  -0.5
        1.0s    25.00nm          4.5mb
MAT     21.98  38 (P)   18 27.00   8.3X
                  eS    22 30.00
LZH     22.14 320 P     18 21.00   0.5
        1.6s    73.00nm          4.9mb
     Z  15s     0.63um           4.2MszX
     N  12s     0.44um
                  pP    18 32.50  46kmX
HHC     22.29 340 P     18 21.80  -0.1
        1.6s   120.00nm          5.1mb
     Z  16s     1.07um           4.4MszX
     N  12s     0.38um
                  S     22 19.50
BTO     22.60 337 eP    18 25.00   0.1
GTA     26.72 321 eP    19 04.50   0.3
        1.5s    18.00nm          4.5mb
     Z  26s     0.62um           4.0MszX
     E  18s     0.68um
LSA     28.98 295 P     19 25.60   0.5
WRA     41.80 162 P     21 13.10  -0.9
        0.6s    30.00nm          5.2mb
WR2     41.81 162 iPc   21 12.20  -1.9
        0.7s    56.50nm          5.4mb
                  eS    27 25.90
GBA     42.49 268 P     21 20.00   0.2
QIS     44.19 155 iPd   21 32.40  -1.0
ASPA    45.21 164 iPc   21 40.50  -1.1
        0.5s    48.50nm          5.6mb
WARB    46.32 174 eP    21 39.80 -10.6X
        0.3s    25.00nm
CTA     46.79 147 iPc   21 56.60   2.4
        1.0s    15.00nm          4.9mb
FORT    51.02 173 iPd   22 26.30  -0.3
        0.6s    45.00nm          5.6mb
STK     55.22 159 eP    22 57.50  -0.3
        1.2s     1.70nm          4.0mb
BRS     56.16 146 iPd   23 04.50  -0.2
ARMA    58.06 149 iPd   23 18.30   0.2
        0.5s     3.00nm          4.6mb
CNB     61.19 154 iPd   23 40.00   0.4
TOO     61.71 158 iPd   23 43.90   0.8
        0.6s    21.00nm          5.4mb
KAF     74.77 331 eP    25 04.30   0.4
HFS     81.19 331 eP    25 38.60  -0.6
        0.4s     1.00nm          4.1mb
     Z  16s     0.12um           4.4MszX
                  LR    02 28.00
NB2     81.89 333 P     25 42.80  -0.1
        0.9s     3.00nm          4.3mb
KSP     83.73 322 iP    25 53.70   1.2
GEC2    86.10 321 P     26 05.50   0.9
        0.5s     0.58nm          4.0mb
                  e     26 07.00
     S.D. = 1.0  on  32 of  40 obs.
-------------------------------------
%  OCT  03, 1993  07h 42m 24.39± 2.93s
   41.713 N ±17.4km   27.391 E ±19.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
     ML 3.0 (ISK).

DMK      0.29  68 iPg   42 30.80   0.3
                  eSg   42 36.60
MFT      0.93 185 ePg   42 42.30   0.1
CTT      0.96 126 iPg   42 43.30   0.6
EDC      1.41 165 iPn   42 50.00  -0.1
ISK      1.41 117 iPn   42 49.50  -0.6
BNT      1.41 163 ePn   42 50.30   0.2
HRT      1.93 117 iPn   42 57.30  -0.4
     S.D. = 0.5  on   7 of   7 obs.
-------------------------------------
?  OCT  03, 1993  08h 13m 14.41± 2.83s
    8.658 S ±36.4km  121.652 E ±14.8km
   DEPTH = 168.4 ± 16.4 km
   4.8mb (  2 obs.)
 FLORES REGION, INDONESIA          (286)

WSI      1.68 233 iPd   13 47.40  -0.2
                  iS    14 12.50
KNA      9.90 136 eP    15 33.10  -0.7
                  eS    17 20.50
MTN     10.20 115 iPc   15 38.10   0.4
                  eS    17 26.00
MBL     12.55 188 eP    16 10.00   1.7
                  eS    18 20.00
WR2     16.65 134 eP    16 58.80  -0.8
        0.4s    12.50nm          4.6mb
                  eS    19 55.40
WARB    18.06 165 eP    17 05.00 -10.8X
MEEK    18.11 189 eP    17 15.00  -1.4
                  eS    20 32.50
ASPA    18.98 143 eP    17 25.30  -0.2
        0.5s    32.10nm          5.0mb
                  i     17 28.70
MAP     19.00   7 iPd   17 14.00 -11.7X
QIS     20.99 126 iPd   17 47.00   1.2
GQP     22.43   2 ePd   18 09.00   9.1X
STK     29.62 144 eP    19 05.90   0.0
     S.D. = 1.2  on   9 of  12 obs.
-------------------------------------
   OCT  03, 1993  08h 15m 54.36± 0.65s
    5.207 N ± 3.6km  125.374 E ± 5.1km
   DEPTH = 198.3 ±  6.6 km
   5.0mb ( 31 obs.)
 MINDANAO, PHILIPPINE ISLANDS      (259)

DAV      1.88   6 iPc   16 30.00  -1.8
CTB      2.30 330 iPc   16 38.00   1.7
                  iS    17 10.00
BIP      3.12  16 iPc   16 35.00 -10.8X
                  iS    17 11.00
PLP      5.93 356 ePd   17 21.50   0.0
BAG     12.09 337 eP    18 47.50   5.9X
                  eS    21 10.00
KHKI    16.63 216 eP    19 38.20   0.4
                  e     21 53.00
TRT     18.06 225 ePd   19 52.80  -0.7
SJI     18.70 227 ePd   19 59.00  -1.2
MTN     18.83 162 iPd   20 00.80  -0.8
        0.8s   372.00nm          5.9mb
WWKK    20.23 115 eP    20 19.60   3.7X
GUMO    20.94  65 eP    20 23.00   0.1
        1.0s   271.40nm          5.7mb
PJG     20.94  65 eP    20 23.30   0.4
GUA     20.96  65 eP    20 24.00   0.9
        0.6s   144.00nm          5.7mb
LEM     21.38 236 ePc   20 29.50   2.2
```

03d 08h

```
                e(S)  20 40.00
SNG   24.69 276 eP    20 59.50   0.6
      0.8s   308.96nm          6.0mb
LOE   26.12 300 iPd   21 12.00   0.0
WR2   26.51 161 eP    21 14.00  -1.5
                eS    25 30.10
                iScP  27 56.20
                eScS  31 43.30
NST   26.88 295 iPd   21 19.60   0.8
KHT   28.01 292 eP    21 28.90  -0.1
BDT   28.45 297 eP    21 34.00   1.0
CHTO  29.11 300 eP    21 39.50   0.6
QIS   29.17 152 eP    21 38.90  -0.4
KMI   29.39 315 eP    21 42.50   1.0
      1.5s    60.00nm          5.1mb
ASPA  29.88 164 iPd   21 44.40  -1.2
      0.3s    49.90nm          5.7mb
                iS    26 25.00
                iScP  28 06.00
                iScS  31 58.30
WARB  31.23 178 eP    21 46.20 -11.1X
TSRJ  31.73  17 eP    22 01.00  -0.6
MEEK  32.33 191 iPd   22 05.10  -1.8
      0.9s   277.00nm          5.9mb
CTA   32.45 141 iPc   22 08.20   0.1
                i     22 43.00
                iScP  28 16.00
XAN   32.50 334 Pc    22 07.00  -1.4
      0.6s    29.00nm          5.1mb
CD2   32.66 324 Pd    22 12.50   2.7
CHJJ  33.15  20 P     22 12.00  -1.9
MAT   33.34  19 eP    22 14.00  -1.5
      0.8s    14.93nm          4.7mb
TIY   34.44 342 eP    22 25.40   0.4
MRWA  35.39 194 iPd   22 31.80  -1.2
      0.7s   186.00nm          5.8mb
YAMJ  35.42  20 eP    22 33.00  -0.2
BJI   35.66 348 eP    22 27.00  -8.1X
FORT  35.87 176 iPd   22 36.20  -0.8
      0.3s    15.00nm          5.1mb
SNY   36.50 358 Pc    22 41.60  -0.5
LZH   36.55 330 Pc    22 41.00  -1.9
      1.0s    39.00nm          5.0mb
                pP    23 21.00 185kmX
                ScP   28 28.00
BAL   36.56 193 iPd   22 41.80  -1.0
      0.6s   269.00nm          6.1mb X
OFUJ  36.81  21 eP    22 45.20   0.4
KLB   37.31 191 eP    22 48.20  -0.8
      0.6s   125.00nm          5.7mb
SHL   37.92 306 iP    22 54.70   0.2
      0.8s    46.64nm          5.2mb
                iS    28 32.00
MUN   37.99 193 iPd   22 54.10  -0.7
NWAO  38.70 191 iPd   23 00.20  -0.5
MDJ   39.43   5 eP    23 06.50   0.1
      0.8s    24.00nm          4.8mb
STK   39.99 158 iPd   23 11.60   0.4
      0.5s     0.20nm          2.9mb X
                eScP  28 42.50
                iS    29 00.90
LSA   40.45 311 Pc    23 16.60   0.9
      0.6s    18.00nm          4.8mb
GTA   41.14 329 eP    23 20.50  -0.3
      1.0s     8.00nm          4.2mb
KUSJ  41.43  21 eP    23 23.70   0.8
ASAJ  41.62  19 eP    23 25.00   0.5
BRS   41.85 142 iPd   23 27.00   0.4
                ipP   23 39.00  44kmX
                e     24 02.50
                i     25 12.00
ADE   41.89 164 e(P)  23 27.60   0.8
ARMA  43.44 146 eP    23 40.00   0.5
      0.6s     8.00nm          4.4mb
BWA   45.02 153 eP    23 54.20   2.3
CAN   46.03 153 eP    24 01.00   1.1
                i     24 35.30
CNB   46.19 153 eP    24 03.00   1.8
TOO   46.50 158 iPd   24 05.00   1.4
      0.4s    34.00nm          5.1mb
HYB   47.35 289 eP    24 09.80  -0.7
KOD   47.70 279 eP    24 09.20  -4.4X
GBA   47.95 284 Pd    24 14.60  -0.5
      0.5s    10.50nm          4.5mb
DZM   48.49 126 iPc   24 19.50   0.2
KSH   56.02 315 P     25 16.20   1.3
CSY   72.13 186 iPc   27 00.70   2.2
```

```
      0.6s    25.10nm          5.1mb
SDN   76.73  34 eP    27 25.03   0.0
      0.5s    20.29nm          5.1mb
SVW   80.15  29 eP    27 44.92   1.4
      1.1s    25.62nm          4.9mb
                epP   28 26.56 169kmX
IMA   81.59  24 e(P)  27 52.10   1.0
CRP   81.84  29 eP    27 52.40  -0.1
SLKM  82.74  30 eP    27 56.93  -0.1
PMR   83.31  29 eP    27 59.29  -0.5
      0.9s    15.53nm          4.7mb
                epP   28 40.14 164kmX
FBA   83.97  25 eP    28 02.61  -0.5
      0.6s     2.15nm          4.1mb
                epP   28 44.20 167kmX
MAW   84.67 200 P     28 06.70   0.2
      1.0s    25.00nm          4.9mb
TOA   84.71  28 eP    28 08.30   1.4
KLU   84.84  29 eP    28 08.53   0.9
                epP   28 50.89 170kmX
OBN   85.07 325 ePc   28 07.50  -1.2
      0.7s    24.00nm          5.0mb
                e     28 10.00
                e     28 14.00
                e     28 25.00
                e     28 53.00
                e     29 47.00
                e     31 43.00
KAF   89.67 332 iP    28 28.60  -2.1
      0.4s     6.80nm          4.9mb
NUR   90.76 331 iP    28 35.00  -0.7
      0.4s     5.20nm          4.9mb
HFS   96.09 332 ePKP  28 59.20  -1.0
      0.5s     2.50nm          4.8mb
GEC2 100.10 321 Pdiff 29 17.60  -1.1
      0.7s     0.62nm          4.2mb
                e     29 20.20
                e     29 21.90
KIC  128.89 282 PKP   34 40.88  -0.1
      0.6s     5.50nm
TIC  129.11 283 PKP   34 40.70  -0.7
      0.7s     5.50nm
LIC  129.20 282 PKP   34 41.48   0.0
      0.6s     6.00nm
III  129.97  61 (Pdiff31 30.50  -1.8
PPM  130.41  60 iPdiff31 25.50  -9.1X
RTCB 150.67 155 ePKPd 35 25.50   6.4X
RTLL 150.94 155 ePKPc 35 25.20   5.7X
TCA  152.37 161 ePKPd 35 28.80   7.2X
CNCB 162.56 132 PKP   35 36.00   1.3
LPB  162.65 131 PKPc  35 37.10   2.5X
LPAZ 162.77 131 PKPc  35 34.40  -0.6
                LR    46 20.00
CCH  163.47 138 ePKP  35 52.00  16.7X
     S.D. = 1.1  on  79 of  91 obs.
-----------------------------------
   OCT  03, 1993  08h 27m 45.51± 0.72s
   38.752 N ± 6.3km   22.163 E ± 7.2km
   DEPTH =  10.0km  (geophysicist)
 GREECE                            (364)
     ML 3.2 (ATH), 2.8 (THE).

AGG     0.30  26 iPg   27 52.00   0.2
                eSg   27 53.21
VLS     1.36 246 ePb   28 10.00  -0.5
LIT     1.37  11 ePb   28 09.76  -0.9
                iSb   28 27.76
ATH     1.45 122 ePb   28 12.50   0.8
KZN     1.58 349 ePb   28 14.50   0.8
IGT     1.62 299 ePb   28 18.28   4.0X
PAIG    1.66  45 iPb   28 13.85  -0.9
                eSb   28 34.16
THE     1.98  18 ePb   28 20.60   1.3
OUR     2.12  41 iPb   28 20.60  -0.7
                eSb   28 48.16
FNA     2.12 344 ePn   28 21.84   0.4
                eSn   28 50.00
GRG     2.21   5 ePn   28 22.68  -0.1
                eSn   28 50.60
SOH     2.26  24 ePn   28 23.52   0.0
                eSn   28 50.40
KNT     2.47  13 ePn   28 26.40  -0.1
                eSn   28 56.72
SRS     2.61  24 ePn   28 28.20  -0.2
                eSn   28 59.72
     S.D. = 0.7  on  13 of  14 obs.
-----------------------------------
```

```
   OCT  03, 1993  08h 28m 42.12± 0.64s
   12.958 N ± 8.4km   88.720 W ± 7.0km
   DEPTH =  75.1 ±  5.3 km
   4.6mb (  8 obs.)
 OFF COAST OF CENTRAL AMERICA      ( 76)
      Felt (III) at San Salvador, El
      Salvador.

VSM     0.64  43 iPc   28 56.70  -0.5
VSS     0.93 327 iPd   29 00.50   0.1
YPE     1.49 321 iPd   29 07.60  -0.1
CUSS    1.52 308 iP    29 08.00   0.0
TPX     3.95 300 iP    29 42.00   0.5
                iS    30 25.80
SCX     5.33 315 (P)   30 10.50   9.5X
BRU     7.32 124 eP    30 29.37   0.4
DVD     7.62 125 eP    30 33.08   0.4
                eS    30 45.72
OXX     8.75 299 (P)   30 54.00   5.6X
SDV    18.21 101 eP    32 50.30  -1.4
TOV    18.82  98 eP    32 37.00 -21.8X
UYO    21.75 347 iPd   33 30.30   1.4
PRM    21.81  14 eP    33 30.82   1.3
                e     33 48.71
MIAR   21.94 349 eP    33 31.04   0.3
       1.2s    31.29nm          4.6mb
JSC    22.28  16 eP    33 35.22   1.1
                e     33 58.77
MYNC   22.41  10 eP    33 36.00   0.6
       1.1s    31.14nm          4.7mb
                e     33 50.93
LHS    22.60  17 eP    33 38.19   1.0
                e     33 56.80
MEO    23.50 339 iPd   33 47.00   1.0
WMOK   23.52 339 eP    33 46.59   0.3
       0.5s     6.22nm          4.3mb
ELC    24.23 359 eP    33 52.49  -0.6
                e     34 10.18
CEH    24.43  19 eP    33 54.95   0.0
       0.6s    11.36nm          4.5mb
TBR    30.81  22 eP    34 52.06  -0.8
PV10   31.10 328 eP    34 54.49  -1.3
                e     35 12.14
MSU    32.88 325 eP    35 10.48  -0.9
RSSD   33.72 340 eP    35 17.97  -0.6
       0.6s     6.24nm          4.7mb
DAU    33.76 328 (P)   35 18.87  -0.1
BW06   34.75 333 eP    35 26.43  -1.0
       0.6s     2.51nm          4.3mb
BONR   36.23 319 (P)   35 40.31   0.2
ULM    37.64 352 eP    35 52.00   0.6
LRM    38.43 333 ePc   35 58.50   0.1
BAO    49.30 124 eP    36 46.90 -39.0X
                i     37 24.70
YKA    52.80 345 eP    37 49.50  -2.1
       0.7s     9.90nm          5.0mb
INK    62.35 343 eP    38 57.00  -1.7
       0.8s     4.00nm          4.6mb
WR2   138.19 255 ePKP  48 01.70   0.5
       0.5s     6.10nm
                i     48 21.10
WRA   138.21 255 PKP   48 02.80   1.5
       0.6s     1.60nm
     S.D. = 1.0  on  31 of  35 obs.
-----------------------------------
%  OCT  03, 1993  08h 41m 20.27± 0.69s
   26.187 S ± 6.6km   28.146 E ± 8.0km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA          (584)
      ML 2.4 (PRE).

SLR     0.47  15 iPd   41 29.60   0.0
                S     41 36.40
PRY     0.95 219 eP    41 38.60  -0.4
                S     41 48.00
KSR     1.17 286 eP    41 42.90   0.2
BFT     1.78  74 eP    41 52.00  -0.1
SEK     2.18 192 eP    41 58.50   0.7
                S     42 25.50
BLF     3.39 210 eP    42 14.70  -0.4
     S.D. = 0.5  on   6 of   6 obs.
-----------------------------------
&  OCT  03, 1993  09h 19m 47.51s
   62.401 N          151.153 W
   DEPTH =  88.7km
 CENTRAL ALASKA                    (  1)
      <AEIC>.
```

```
CUT     0.41  89 eP     20 01.01  -0.6
SKT     0.46 203 iPd    20 01.30  -0.7
                eS      20 12.06
HUR     0.91  50 ePc    20 05.51  -0.9
                eS      20 19.39
SUA     0.96 168 ePd    20 06.63  -0.5
                eS      20 21.26
PWA     0.96 141 P      20 06.50  -0.4
NCG     1.11 206 ePd    20 07.85  -1.0
TRF     1.13  20 ePc    20 08.24  -0.9
                eS      20 23.89
KTH     1.16   5 ePd    20 08.48  -0.9
                eS      20 23.82
CGLM    1.17 201 ePd    20 08.53  -1.0
GHO     1.22 120 ePc    20 09.82  -0.4
                eS      20 26.89
CRP     1.23 203 iPd    20 08.98  -1.4
                eS      20 26.64
CP2     1.25 205 ePd    20 09.54  -1.1
PLRM    1.25 129 eP     20 09.69  -0.7
PMR     1.25 129 ePc    20 09.02  -1.4
CKN     1.28 203 eP     20 10.37  -0.5
BGL     1.28 208 eP     20 10.51  -0.4
SPU     1.30 200 iPd    20 10.18  -0.9
                eS      20 28.20
CKT     1.30 203 ePd    20 10.38  -0.8
CKL     1.33 205 ePd    20 10.89  -0.7
PMS     1.38 146 P      20 11.80  -0.4
                S       20 30.60
BKG     1.44 202 ePd    20 11.91  -1.0
                eS      20 30.73
SML     1.45 113 ePc    20 12.34  -0.7
                eS      20 30.17
RND     1.46  45 eP     20 12.08  -1.1
                eS      20 31.09
KNK     1.62 127 ePc    20 14.21  -0.9
MCK     1.68  36 eP     20 15.14  -0.8
                eS      20 35.37
DHY     1.87  67 eP     20 17.41  -1.2
                eS      20 41.29
SCM     1.89 106 eP     20 17.29  -1.5
RDT     1.93 199 eP     20 18.62  -0.7
SLKM    1.95 166 eP     20 18.89  -0.7
DFR     1.96 203 eP     20 18.91  -0.8
CFI     2.02 126 eP     20 19.33  -1.1
                eS      20 44.41
NCT     2.03 206 eP     20 20.27  -0.5
PWL     2.05 138 eP     20 19.39  -1.5
                eS      20 44.52
REF     2.06 202 eP     20 20.60  -0.6
RDW     2.08 203 eP     20 21.02  -0.5
RS2     2.09 202 eP     20 21.17  -0.5
MPA     2.10 155 eP     20 20.52  -1.0
RED     2.14 202 eP     20 21.47  -0.7
TTA     2.30 285 ePc    20 21.99  -2.4
TOA     2.35  95 P      20 24.20  -0.8
NEA     2.37  22 eP     20 23.39  -1.9
SEW     2.45 160 P      20 29.20   3.0
ILIM    2.49 201 eP     20 27.20   0.3
SVW     2.49 241 eP     20 24.86  -2.0
WRH     2.49  32 eP     20 25.36  -1.5
                eS      20 53.47
SDG     2.61  85 eP     20 27.53  -1.0
VLZ     2.62 117 eP     20 26.64  -2.0
                eS      20 57.36
KLU     2.64 108 eP     20 26.76  -2.2
MLY     2.65   4 eP     20 27.62  -1.4
PAX     2.68  75 eP     20 28.60  -1.0
TZL     2.71  95 eP     20 29.44  -0.4
CCB     2.71  32 eP     20 28.08  -1.7
                eS      20 58.54
HDA     2.76  41 ePc    20 29.23  -1.3
                eS      21 00.01
MDM     2.88  26 ePd    20 30.69  -1.5
CNPM    2.89 181 eP     20 32.95   0.7
FBA     2.92  29 eP     20 30.02  -2.7
HIN     3.01 130 eP     20 31.95  -2.0
PDB     3.01 211 eP     20 33.11  -0.8
ILB     3.05  37 eP     20 32.73  -1.8
                eS      21 06.11
IL1     3.05  37 eP     20 32.89  -1.6
GLM     3.09  31 eP     20 33.61  -1.5
CVA     3.19 123 eP     20 34.31  -2.1
GLB     3.60 102 eP     20 39.91  -2.3
                eS      21 20.98
IM3     3.77 344 eP     20 42.82  -1.7
IMA     3.84 344 iPc    20 43.81  -1.8
                eS      21 26.48
TGL     4.31 109 eP     20 49.73  -2.3
BC3     4.36  77 eP     20 50.58  -2.2
BALM    4.41 104 eP     20 51.37  -2.1
        68 obs. associated
-----------------------------------
?  OCT  03, 1993  10h 32m 58.05± 3.78s
   42.232 N ±26.6km  122.018 W ±13.8km
   DEPTH =   5.0km  (geophysicist)
 OREGON                            ( 32)
      ML 2.5 (GS).

LGMM    0.65 168 P      33 11.85   0.8
LASM    0.71 152 P      33 12.55   0.2
LMPM    0.75 188 P      33 13.18  -0.1
LBFM    0.89 174 eP     33 15.71   0.0
LGBM    0.90 189 P      33 15.96   0.1
LBKM    1.25 203 P      33 20.96  -0.8
KOMM    1.43 229 P      33 24.34  -0.5
LGPM    1.45 205 eP     33 24.17  -0.9
                eS      33 42.59
WDC     1.70 194 eP     33 28.56   0.1
LMEM    1.73 169 (P)    33 28.24  -0.8
FHC     2.06 227 (P)    33 34.88   1.2
KMPM    2.41 222 (P)    33 39.59   0.8
     S.D. = 0.8  on  12 of  12 obs.
-----------------------------------
*  OCT  03, 1993  10h 54m 26.66± 1.91s
   40.038 N ±19.2km  123.487 E ±25.2km
   DEPTH =  10.0km  (geophysicist)
 NORTHEASTERN CHINA                (658)
      ML 4.0 (BJI).

SNY     1.79   2 iPgc   54 59.20   1.4
                Sg      55 20.60
DL2     1.83 232 Pn     54 58.20  -0.2
                Pg      55 00.00
                Sg      55 24.00
CN2     4.03  21 Pn     55 28.90  -0.9
                Pg      55 41.20
                Sn      56 15.20
                Sg      56 32.00
BJI     5.61 272 Pn     55 51.50  -0.7
                Pg      56 12.00
                Sn      56 50.00
                Sg      57 21.00
TIA     6.30 235 ePn    56 02.80   0.9
                Sg      57 42.10
MDJ     6.43  43 ePg    56 23.30  19.6X
       0.8s    25.00nm
NB2    65.28 330 P      05 09.90  -0.6
       7.0s     2.20nm          3.5mb X
     S.D. = 1.2  on   6 of   7 obs.
-----------------------------------
%  OCT  03, 1993  10h 56m 17.17± 1.34s
   39.255 N ±13.4km   21.632 E ± 8.9km
   DEPTH =  10.0km  (geophysicist)
 GREECE                            (364)
      ML 2.5 (THE).

AGG     0.59 113 ePg    56 28.30  -0.8
                eSg     56 38.38
IGT     1.04 286 ePg    56 36.90   0.0
                eSg     56 51.14
LIT     1.07  38 iPg    56 35.57  -1.8
                eSg     56 49.22
PAIG    1.72  66 iPb    56 48.38   1.1
                eSb     57 11.26
GRG     1.80  19 ePb    56 47.57  -0.9
OUR     2.11  58 ePn    56 54.06   1.2
                eSn     57 20.94
KNT     2.14  27 ePn    56 54.46   1.1
     S.D. = 1.5  on   7 of   7 obs.
-----------------------------------
&  OCT  03, 1993  11h 36m 45.50s
   40.299 N          124.384 W
   DEPTH =   8.8km
 NEAR COAST OF NORTHERN CALIF.   ( 35)
      <GM-P>. MD 3.3 (GM). ML 3.4
      (BRK).

KJJM    0.08 131 P      36 48.18   0.3
KMPM    0.23  60 iPd    36 50.77   0.3
KBBM    0.42 104 P      36 54.90   0.8
KCRM    0.45  73 P      36 55.38   0.7
FHC     0.59  31 iP     36 57.80   0.5
ARC     0.62  22 ePc    36 57.74  -0.3
                eS      37 07.69
KBSM    0.72 122 P      36 59.79   0.0
KPPM    0.78  86 P      37 01.36   0.4
KKPM    0.82 100 P      37 00.57  -1.0
KCPM    0.87 134 P      37 01.80  -0.6
KFPM    0.99 131 P      37 03.46  -1.0
KBNM    1.00 114 P      37 04.27  -0.4
KRKM    1.18 128 P      37 06.34  -1.4
GNAM    1.24 152 P      37 06.63  -2.1
LGPM    1.33  62 ePc    37 08.64  -1.7
                eS      37 24.21
GHOM    1.41 152 P      37 08.96  -2.5
GAS     1.43 116 P      37 10.15  -1.7
WDC     1.44  78 ePc    37 09.85  -1.9
LBKM    1.52  58 P      37 11.51  -1.6
GHLM    1.64 140 P      37 12.39  -2.3
YBH     1.91  41 ePc    37 17.10  -1.5
LGBM    1.96  57 P      37 19.00  -0.6
LMEM    2.16  83 eP     37 20.92  -1.5
LBFM    2.16  60 ePc    37 21.32  -1.1
LSLM    2.18  86 P      37 21.06  -1.5
NTYM    2.33 144 eP     37 22.37  -2.2
OBHM    2.34 105 P      37 23.02  -1.8
ORV     2.34 108 ePd    37 22.93  -1.8
NOLM    2.57 151 P      37 25.55  -2.5
SAC     3.12 150 P      37 32.77  -3.0
ARN     3.69 142 eP     37 40.63  -3.4
COE     3.70 144 eP     37 40.70  -3.5
PEC     8.61 136 eP     38 50.34  -2.9
DUG     8.85  87 eP     38 55.93  -0.8
MSU     9.62  97 eP     39 05.57  -1.8
        35 obs. associated
-----------------------------------
   OCT  03, 1993  11h 36m 58.94± 0.77s
   44.543 N ± 4.4km    9.947 E ± 6.6km
   DEPTH =  11.2 ±  2.3 km
 NORTHERN ITALY                    (545)
      ML 3.0 (LDG), 2.8 (GEN).

PCP     1.00 270 P      37 18.03   0.2
                S       37 28.83
FIN     1.29 256 P      37 22.65  -0.1
                S       37 36.96
ROB     1.51 261 P      37 25.81  -0.1
                S       37 42.69
IMI     1.61 248 P      37 27.45   0.1
                S       37 43.99
ENR     1.84 261 P      37 30.84   0.1
                S       37 51.39
STV     1.90 262 P      37 31.39  -0.3
                S       37 52.93
SBF     1.93 250 Pn     37 32.00   0.0
BHB     1.94 280 P      37 33.13   1.0
                S       37 55.12
RSP     2.01 289 P      37 34.14   0.9
                S       37 57.56
PZZ     2.04 270 P      37 33.63   0.0
                S       37 56.42
PGF     2.11 199 Pn     37 35.10   0.4
                Sn      37 59.90
LSD     2.18 296 P      37 37.29   1.4
RRL     2.29 281 P      37 40.68   3.3X
LPG     2.46 294 Pn     37 39.40  -0.4
LPL     2.48 294 Pn     37 40.50   0.5
FRF     2.57 249 Pn     37 41.30   0.1
                Sn      38 09.20
LMR     2.76 245 Pn     37 42.90  -1.0
                Sn      38 13.40
LRG     2.81 248 Pn     37 45.10   0.6
                Sn      38 16.20
BSF     3.95 327 Pn     38 01.10   0.3
                Sn      38 45.10
HAU     4.27 326 Pn     38 05.20  -0.1
                Sn      38 53.20
CDF     4.29 335 Pn     38 05.10  -0.5
                Sn      38 50.40
SMF     4.77 298 Pn     38 12.10  -0.4
LBF     4.84 302 Pn     38 13.40   0.0
GEC2    5.02  30 Pn     38 16.00   0.0
                Sn      39 14.20
LOR     5.05 305 Pn     38 15.60  -0.7
BGF     5.38 294 Pn     38 20.70  -0.3
     S.D. = 0.6  on  25 of  26 obs.
-----------------------------------
*  OCT  03, 1993  13h 23m 54.01± 1.97s
    6.125 S ±13.8km  146.644 E ±21.3km
   DEPTH =  33.0km  (normal)
```

03d 13h

```
   3.9mb (  1 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY     0.68 260 iPc    24 08.00    0.7
MDG      1.22 315 eP     24 14.70   -0.1
PMG      3.30 171 eP     24 45.00    0.4
                  eS     25 39.00
WWKK     3.9[illegible] 09 eP     24 56.80    3.6X
WR2     18.2[illegible] 20 eP     28 05.10   -0.8
         0.3s     3.20nm          3.9mb
ASPA    21.32 214 eP     28 40.30   -0.1
     S.D. = 0.8  on   5 of   6 obs.
-------------------------------------
?  OCT  03, 1993  13h 49m 58.27± 5.00s
   31.605 S ±34.3km   69.526 W ±39.5km
   DEPTH =  33.0km  (normal)
 SAN JUAN PROVINCE, ARGENTINA     (137)

RTCB     0.63  79 ePc    50 12.20    1.4
                  S      50 25.50
RTCV     0.88 107 ePc    50 14.50    0.2
                  S      50 29.80
RTLL     0.94  73 ePd    50 14.50   -0.7
                  S      50 28.80
CFA      1.10  90 ePd    50 16.20   -1.2
RTRS     1.43   2 ePd    50 22.00   -0.1
     S.D. = 1.4  on   5 of   5 obs.
-------------------------------------
   OCT  03, 1993  13h 52m 24.31± 1.10s
   17.796 N ±14.0km   62.747 W ± 9.5km
   DEPTH =  10.0km  (geophysicist)
 LEEWARD ISLANDS                  ( 92)
      MD 4.2 (TRN).

ANG      1.08 126 eP     52 44.79    0.1
                  eS     52 59.57
BPA      1.13 131 eP     52 45.85    0.3
                  eS     53 01.76
LPR      3.01 280 P      53 12.50   -0.5
                  S      54 02.00
CPD      3.03 275 P      53 14.00    0.8
SJG      3.25 276 P      53 17.10    0.6
CLLP     3.66 275 P      53 22.60    0.5
PORP     3.71 275 P      53 23.50    0.5
MGP      4.14 274 P      53 28.60   -0.3
MCP      4.20 279 P      53 28.30   -1.5
SLB      4.28 157 eP     53 30.36   -0.6
                  eS     54 25.59
SVV      4.69 161 eP     53 36.96    0.1
                  eS     54 32.09
SVB      4.72 162 eP     53 36.99   -0.3
FCV      4.83 162 eP     53 38.42   -0.5
                  eS     54 34.26
GRW      5.70 169 eP     53 50.97   -0.2
TRN      7.22 169 eP     54 13.60    1.1
     S.D. = 0.7  on  15 of  15 obs.
-------------------------------------
   OCT  03, 1993  14h 03m 42.20± 0.55s
   40.380 N ± 4.7km   25.953 E ± 5.5km
   DEPTH =   5.0km  (geophysicist)
 AEGEAN SEA                       (365)
      ML 3.3 (THE).

ALN      0.52   8 ePg    03 52.89    0.3
                  eSg    04 00.66
EZN      0.62 153 iPn    03 53.90   -0.8
RDO      0.83 338 ePg    03 58.00   -0.7
PRK      1.16 168 ePb    04 05.00    0.7
OUR      1.51 269 ePb    04 08.78   -1.1
                  eSb    04 29.42
PAIG     1.80 256 ePb    04 14.62    0.5
                  eSb    04 38.10
SRS      1.94 293 iPb    04 16.53    0.4
                  eSb    04 42.14
DMK      1.98  43 ePn    04 17.00    0.2
SOH      2.03 283 iPb    04 18.53    1.1
                  eSb    04 44.46
KNT      2.45 290 ePn    04 22.82   -0.7
                  eSn    04 54.46
LIT      2.67 265 iPn    04 26.54   -0.1
     S.D. = 0.8  on  11 of  11 obs.
-------------------------------------
?  OCT  03, 1993  14h 03m 58.20± 6.83s
   40.146 N ±32.7km   26.248 E ±49.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)

ALN      0.77 348 ePg    04 13.10    0.0
                  iSg    04 21.30
OUR      1.74 277 ePb    04 28.12   -0.6
                  eSb    04 48.22
PAIG     1.98 264 ePb    04 32.26    0.1
                  eSb    04 56.70
SRS      2.24 296 ePb    04 36.38    0.4
                  eSb    05 01.22
SOH      2.31 288 ePn    04 37.11    0.2
                  iSn    05 03.50
KNT      2.74 293 ePn    04 42.70   -0.4
                  eSn    05 14.34
LIT      2.88 270 ePn    04 45.24    0.2
     S.D. = 0.4  on   7 of   7 obs.
-------------------------------------
   OCT  03, 1993  14h 20m 00.38± 0.59s
   51.021 N ± 7.5km  174.605 W ± 6.9km
   DEPTH =  33.0km  (normal)
   4.3mb ( 14 obs.)
 ANDREANOF ISLANDS, ALEUTIAN IS. (  7)
      ML 4.6 (PMR).

ADK      1.56 304 eP     20 25.68   -0.4
                  eS     20 45.36
SDN      9.51  57 eP     22 17.71   -0.2
ANM     14.42  16 (P)    23 22.74   -1.1
KDC     14.49  54 eP     23 24.26   -0.5
TTA     15.58  33 eP     23 38.84   -0.1
         1.1s     9.79nm          3.9mb
CP2     16.05  42 eP     23 44.61   -0.5
CRP     16.09  42 eP     23 46.88    1.3
SLKM    16.59  46 eP     23 51.44   -0.3
PMS     17.19  44 eP     24 00.40    1.1
IMA     18.47  27 eP     24 15.17    0.0
         0.8s     4.49nm          3.7mb
KLU     18.90  45 eP     24 19.70   -0.8
TOA     19.02  43 eP     24 22.50    0.7
FBA     19.67  35 eP     24 29.47    0.4
         0.6s     4.18nm          3.9mb
BALM    20.41  48 eP     24 36.91   -0.1
LRM     40.49  72 eP     27 38.60    0.9
BONR    41.25  86 ePc    27 45.24    1.2
HVU     42.47  78 eP     27 54.64    0.8
TPNV    43.16  86 eP     27 59.95    0.4
         0.6s     5.03nm          4.4mb
DUG     43.36  79 ePc    28 01.62    0.5
         0.9s     6.96nm          4.4mb
GSC     43.84  88 eP     28 04.97    0.0
                  e      28 17.41
BW06    43.88  74 ePd    28 05.32   -0.1
         0.6s     5.69nm          4.5mb
DAU     44.20  78 eP     28 09.12    1.0
ARUT    44.41  83 eP     28 10.15    0.5
MSU     44.76  81 eP     28 13.06    0.5
SRU     45.42  79 eP     28 18.03    0.3
                  e      28 31.52
RSSD    46.43  70 eP     28 25.82    0.1
         0.6s     2.55nm          4.4mb
PV09    46.66  79 eP     28 27.64    0.0
PV10    46.79  79 eP     28 28.83    0.2
                  e      28 40.52
GOL     48.24  75 eP     28 39.82   -0.2
         0.6s     7.38nm          4.9mb
TUC     49.58  87 ePc    28 51.18    0.9
         0.9s     4.56nm          4.5mb
                  e      29 03.93
ALQ     50.57  81 eP     28 57.33   -0.5
         0.9s     3.29nm          4.3mb
                  e      29 10.99
WMOK    55.45  76 eP     29 32.66   -1.2
         0.7s     4.99nm          4.7mb
JAQ     55.51  45 eP     29 34.00   -0.1
LTX     56.08  84 eP     29 35.99   -2.6
                  e      29 48.44
ELC     59.45  67 eP     30 00.35   -1.7
GAC     61.13  52 eP     30 13.00   -0.4
OXF     61.25  70 (P)    30 12.88   -1.5
JSC     66.16  65 eP     30 45.47   -1.1
HFS     69.00 356 eP     31 03.90    0.0
         0.4s     1.20nm          4.3mb
BRG     78.22 354 iP     31 59.00    1.3
                  i      32 11.40
KHC     79.98 355 eP     32 09.00    1.6
         1.0s     3.50nm          4.3mb
GEC2    80.26 354 P      32 08.90   -0.1
         0.8s     1.29nm          4.0mb
                  e      32 14.00
                  e      32 22.30
                  e      32 31.20
     S.D. = 0.9  on  42 of  42 obs.
-------------------------------------
   OCT  03, 1993  14h 38m 36.01± 0.68s
    4.650 S ± 7.8km  149.346 E ± 8.7km
   DEPTH = 590.5 ±  8.7 km
   4.5mb (  4 obs.)
 BISMARCK SEA                     (203)

YYYY     3.71 245 eP     39 58.60   -0.9
PMG      5.20 205 eP     40 11.00    0.6
                  eS     41 38.00
WWKK     5.80 280 eP     40 15.90    0.4
CTA     15.64 191 iPc    41 53.00    2.6
         1.0s    25.00nm          4.6mb
                  e      42 07.50
                  i      44 34.50
QIS     18.43 210 eP     42 17.90    0.8
MTN     19.75 244 eP     42 29.00   -0.3
WR2     21.07 223 iPd    42 41.40    0.0
         0.6s    31.20nm          5.1mb
                  eS     45 56.30
DZM     23.96 138 iPd    43 06.40   -1.1
ASPA    24.07 217 iPc    43 07.90   -0.5
                  i      46 43.40
STK     28.05 194 iPc    43 42.10   -1.0
         0.5s     4.50nm          4.4mb
WARB    30.51 223 iPc    43 53.20  -11.0X
         0.3s    14.00nm
MBL     33.01 238 iPc    44 24.40   -0.9
MRWA    39.92 228 eP     45 21.00   -0.9
URZ     41.93 147 P      45 38.00    0.4
PUZ     42.43 146 P      45 41.70    0.0
TCW     42.71 152 P      45 44.20    0.4
KIW     42.74 151 P      45 44.50    0.5
MNG     42.83 150 Pd     45 44.60   -0.1
MRW     42.93 152 P      45 45.30   -0.2
CAW     43.00 151 P      45 45.90   -0.2
MTW     43.25 151 P      45 47.60   -0.4
BLW     43.40 151 P      45 48.70   -0.5
BWZ     43.63 159 P      45 50.60   -0.2
KLU     82.33  26 iPd    49 58.55    0.9
FBA     83.04  22 eP     50 00.42   -0.6
         0.6s     5.67nm          4.3mb
BALM    83.74  27 eP     50 03.08   -1.6
INK     89.56  21 eP     50 33.00    1.1
GEC2   122.09 327 PKP    56 26.00    0.2
         0.5s     1.78nm
                  e      57 18.90
GRF    122.90 329 ePKP   56 28.00    0.7
BCAO   130.97 272 ePKPc  56 44.50    0.7
         0.5s     3.00nm
RSTA   145.82 149 (PKP)  57 13.00    2.7X
     S.D. = 0.9  on  29 of  31 obs.
-------------------------------------
&  OCT  03, 1993  15h 00m 31.86s
   63.757 N          148.406 W
   DEPTH =    8.5km
 CENTRAL ALASKA                   (  1)
      <AEIC>. ML 2.8 (AEIC).

MCK      0.24 264 iP     00 36.74   -0.1
                  eS     00 40.68
RND      0.41 210 eP     00 39.62   -0.5
                  eS     00 45.04
WRH      0.73  11 iP     00 45.83   -0.5
                  eS     00 56.25
DHY      0.83 145 iP     00 47.45   -0.6
                  eS     00 58.19
NEA      0.87 341 eP     00 48.31   -0.5
                  eS     00 59.90
TRF      0.90 251 eP     00 48.45   -0.8
                  eS     01 00.60
HDA      0.91  44 eP     00 49.28   -0.2
                  eS     01 02.07
CCB      0.93  16 eP     00 49.25   -0.5
                  eS     01 01.22
HUR      0.96 216 eP     00 50.06   -0.2
KTH      1.14 261 eP     00 53.17   -0.2
                  eS     01 07.94
FBA      1.18  13 ePc    00 53.09   -0.9
                  eS     01 07.88
MDM      1.21   4 eP     00 54.62    0.1
                  eS     01 10.71
IL1      1.22  32 eP     00 53.74   -0.9
                  eS     01 10.34
```

```
ILB     1.22  32 eP    00 53.76  -0.9
THY     1.24 105 eP    00 55.60   0.6
DJE     1.24  76 eP    00 54.83  -0.2
GLM     1.31  19 eP    00 56.57   0.3
PAX     1.54 119 eP    00 59.96   0.3
                eS    01 20.38
CUT     1.60 213 eP    01 00.13  -0.3
MLY     1.63 323 eP    00 59.80  -1.1
SDG     1.79 132 eP    01 04.05   0.8
                eS    01 27.52
DOT     1.94  91 eP    01 06.58   1.2
TOA     1.95 147 P     01 06.50   1.0
SCM     1.99 165 eP    01 07.60   1.4
                eS    01 33.38
GHO     2.01 187 eP    01 05.52  -0.9
                eS    01 32.28
TZL     2.20 140 eP    01 10.72   1.6
PLRM    2.20 189 eP    01 08.62  -0.5
PMR     2.20 189 eP    01 08.84  -0.3
PWA     2.22 198 P     01 11.80   2.4
SKT     2.29 220 eP    01 09.85  -0.6
KNK     2.35 181 eP    01 11.80   0.4
SUA     2.54 206 eP    01 16.01   1.9
KLU     2.55 152 eP    01 14.67   0.5
PMS     2.58 193 P     01 16.20   1.6
VLZ     2.81 159 eP    01 18.54   0.8
PWL     2.91 179 eP    01 19.80   0.6
NCG     2.93 218 eP    01 18.97  -0.7
BC3     3.06 100 eP    01 20.22  -1.1
BALM    3.93 131 eP    01 34.39   0.6
        39 obs. associated
-------------------------------------
   OCT  03, 1993  15h 05m 30.80± 0.84s
   38.815 N ± 7.2km  142.810 E ±10.5km
   DEPTH =   5.0km  (geophysicist)
   4.6mb (  2 obs.)
 NEAR EAST COAST OF HONSHU, JAPAN(228)

OFUJ    0.93 287 P     05 47.60  -1.4
                S     05 57.10
YAMJ    2.27 254 eP    06 08.00  -1.5
                eS    06 34.30
AOMJ    2.56 314 eP    06 13.20  -0.5
                eS    06 45.00
HOOJ    3.58   6 eP    06 28.70   0.6
                eS    07 09.40
MRRJ    3.84 340 eP    06 32.80   1.0
                eS    07 16.90
CHJJ    4.10 229 P     06 36.50   1.0
MAT     4.30 240 eP    06 38.00  -0.4
                eS    07 34.00
KUSJ    4.51  18 eP    06 40.40  -0.9
                eS    07 31.40
MTMJ    4.55 242 eP    06 44.20   2.2
IIDJ    5.14 231 P     06 51.40   1.1
ASAJ    5.30 359 eP    06 53.50   1.0
KVG    41.85 168 ePd   13 24.60   1.2
WRA    58.98 189 P     15 32.20  -1.5
       0.8s     2.60nm          4.4mb
WR2    58.99 189 eP    15 31.80  -1.9
       0.7s     4.60nm          4.7mb
     S.D. = 1.4  on  14 of  14 obs.
-------------------------------------
&  OCT  03, 1993  15h 07m 09.55s
   61.417 N          149.735 W
   DEPTH =  38.3km
 SOUTHERN ALASKA                  (  2)
      <AEIC>. ML 2.6 (AEIC).

PMS     0.19 154 P     07 16.70   0.0
PWA     0.24 344 P     07 16.80  -0.3
PLRM    0.34  58 eP    07 17.40  -0.7
                eS    07 24.41
PMR     0.34  58 ePc   07 17.07  -1.0
SUA     0.49 276 iP    07 19.65  -0.5
                eS    07 28.45
GHO     0.53  47 eP    07 19.89  -0.8
                eS    07 28.89
KNK     0.62  90 eP    07 20.99  -0.9
PTE     0.65 148 eP    07 21.36  -1.0
                eS    07 31.19
SML     0.78  59 eP    07 22.94  -1.2
                eS    07 34.38
PWL     0.88 129 iP    07 24.47  -1.1
                eS    07 36.55
SLKM    0.94 195 eP    07 25.41  -1.1
                eS    07 38.48
MPA     0.95 169 eP    07 25.16  -1.4
CFI     0.98 103 eP    07 26.02  -0.9
NKA     1.00 228 eP    07 28.10   0.9
CUT     1.02 346 eP    07 26.86  -0.7
                eS    07 41.07
SKT     1.03 304 iP    07 26.83  -0.8
                eS    07 41.03
CGLM    1.10 265 eP    07 28.40  -0.4
SPU     1.14 259 eP    07 28.69  -0.7
                eS    07 44.12
NCG     1.16 270 iP    07 29.30  -0.4
                eS    07 45.46
CRP     1.18 264 eP    07 28.85  -1.1
                eS    07 44.11
CKN     1.20 262 eP    07 30.15   0.1
                eS    07 46.03
CKT     1.21 261 eP    07 29.79  -0.6
                eS    07 45.97
CP2     1.22 264 eP    07 29.79  -0.8
                eS    07 46.38
SCM     1.22  69 eP    07 29.45  -1.1
                eS    07 45.48
BKG     1.27 255 eP    07 30.36  -0.8
CKL     1.28 261 eP    07 30.47  -0.8
                eS    07 48.11
BGL     1.29 264 eP    07 30.86  -0.6
SEW     1.33 174 eP    07 30.88  -1.0
RDT     1.55 238 eP    07 34.18  -1.0
HUR     1.57   2 eP    07 35.14  -0.2
DFR     1.66 241 eP    07 35.66  -1.1
                eS    07 57.38
VLZ     1.67  98 eP    07 34.74  -2.0
                eS    07 56.33
REF     1.72 239 eP    07 36.85  -0.9
RS2     1.76 238 eP    07 37.57  -0.7
RDW     1.77 239 eP    07 37.41  -1.0
NCT     1.78 243 eP    07 37.50  -1.0
TOA     1.83  66 P     07 38.70  -0.5
KLU     1.83  86 eP    07 37.66  -1.6
                eS    08 00.24
HIN     1.88 122 eP    07 38.33  -1.6
DHY     2.00  33 eP    07 40.94  -0.8
                eS    08 06.26
CNPM    2.04 202 eP    07 41.53  -0.6
ILIM    2.08 231 eP    07 41.32  -1.4
CVA     2.13 112 eP    07 41.25  -2.2
KTH     2.21 346 eP    07 44.63  -0.1
SGAM    2.39 111 eP    07 44.26  -2.9
RAGM    2.68 110 eP    07 51.28   0.0
GLB     2.85  87 eP    07 53.40  -0.3
CDD     3.17 220 eP    07 58.42   0.3
        48 obs. associated
-------------------------------------
%  OCT  03, 1993  15h 24m 33.33± 0.61s
   40.674 N ± 5.1km   23.406 E ± 5.8km
   DEPTH =  10.0km  (geophysicist)
 GREECE                           (364)
      ML 1.9 (THE).

SOH     0.15 345 iPg   24 37.12   0.2
                eSg   24 39.52
THE     0.34 263 ePg   24 40.40   0.1
                eSg   24 44.80
SRS     0.47  18 ePg   24 42.76   0.0
                eSg   24 50.16
OUR     0.55 127 ePg   24 44.84   0.3
                eSg   24 52.40
KNT     0.62 322 iPg   24 45.37  -0.5
                iSg   24 54.85
PAIG    0.77 164 ePg   24 48.12  -0.3
                eSg   25 00.36
GRG     0.81 291 ePg   24 49.40   0.3
                eSg   25 01.44
     S.D. = 0.4  on   7 of   7 obs.
-------------------------------------
%  OCT  03, 1993  15h 26m 54.28± 0.68s
   40.699 N ± 5.5km   23.413 E ± 5.7km
   DEPTH =  10.0km  (geophysicist)
 GREECE                           (364)
      ML 2.0 (THE).

SOH     0.13 340 ePg   26 57.80   0.3
                eSg   27 00.40
THE     0.35 259 iPg   27 01.28  -0.2
                eSg   27 06.20
SRS     0.44  18 ePg   27 03.24   0.0
                eSg   27 08.08
OUR     0.57 130 iPg   27 05.60  -0.2
                eSg   27 13.24
KNT     0.60 320 ePg   27 06.28  -0.2
                eSg   27 14.84
GRG     0.81 289 ePg   27 09.84  -0.2
                eSg   27 20.16
LIT     0.92 230 ePg   27 12.28   0.3
                eSg   27 24.88
     S.D. = 0.3  on   7 of   7 obs.
-------------------------------------
?  OCT  03, 1993  15h 43m 31.23± 4.09s
   31.121 S ±13.1km   68.517 W ±27.0km
   DEPTH = 129.9 ± 40.5 km
 SAN JUAN PROVINCE, ARGENTINA     (137)

RTCB    0.44 214 iPd   43 50.20  -0.1
                S     44 01.00
ZON     0.45 198 iPd   43 50.50   0.2
                eS    44 02.50
CFA     0.54 154 ePd   43 50.60  -0.2
                S     44 03.00
RTCV    0.74 181 iPc   43 52.20   0.0
                (S)   44 04.80
RTPR    1.91  65 iP    44 04.70   0.2
                S     44 28.00
MRA     2.72 119 iPc   44 15.00   0.3
                S     44 46.90
TCA     3.37  95 iPc   44 23.10  -0.4
CYA     3.57  42 iPd   44 26.00   0.0
                S     45 05.30
     S.D. = 0.3  on   8 of   8 obs.
-------------------------------------
   OCT  03, 1993  16h 28m 12.69± 0.29s
   43.788 N ± 3.6km   16.204 E ± 3.3km
   DEPTH =  10.0km  (geophysicist)
   4.0mb (  1 obs.)
 NORTHWESTERN BALKAN REGION       (383)
      ML 3.9 (LDG), 3.7 (VIE), 3.5
      (ROM), 3.3 (TIR). Felt in the
      Sibenik-Sinj-Split area,
      Croatia.

HVAR    0.63 164 iPgd  28 23.70  -1.7
                iSg   28 33.20
VBY     1.84 339 iPnc  28 45.70   1.1
                iSn   29 11.80
BRY     1.92 117 iPgc  28 45.98   0.1
                iSg   29 09.54
RIY     2.03 321 ePn   28 49.10   1.9
                iSn   29 17.20
ZAG     2.03 356 iPg   28 50.30   2.9X
                iSg   29 17.30
PTJ     2.12 355 iPn   28 48.80   0.1
                iSn   29 17.00
HCY     2.15 128 iPnd  28 50.72   1.7
                iSn   29 17.44
NKY     2.26 115 iPnc  28 51.91   1.1
                iSn   29 19.36
CEY     2.33 328 ePn   28 52.70   1.1
                e     28 57.30
PLE     2.36 100 iPnc  28 53.10   0.9
                iSn   29 21.60
ARV     2.39 264 P     28 52.79   0.3
BDV     2.44 127 iPnd  28 54.63   1.4
                iSn   29 24.53
AQU     2.50 236 P     28 56.54   2.4
LJU     2.55 333 ePn   28 56.50   1.8
                eSn   29 30.00
TRI     2.59 319 P     28 58.97   3.7X
TTG     2.62 120 iPnd  28 56.77   1.1
                iSn   29 28.44
ASS     2.68 256 P     28 57.38   0.7
RSM     2.72 274 P     28 58.97   1.8
SDI     2.72 221 P     28 58.38   1.0
VOY     2.78 325 ePn   28 59.30   1.2
                e     29 02.00
                eSn   29 35.30
                e     29 42.50
IVA     2.85 107 iPnc  28 59.86   0.8
                iSn   29 33.39
ULC     2.89 128 iPnc  29 00.94   1.4
                iSn   29 35.35
MNS     2.94 243 P     29 00.70   0.4
SDA     2.98 125 ePn   29 13.00  12.2X
BRT     3.00 165 P     29 00.12  -1.0
PVY     3.00 112 iPnd  29 01.95   0.7
                iSn   29 37.32
```

03d 16h

```
CRE     3.09 269 P      29 04.01   1.5
SFI     3.15 274 P      29 04.53   1.3
BCI     3.17 115 iPn    29 09.50   6.0X
PGD     3.25 273 P      29 06.42   1.6
UZD     3.27  30 eP     29 13.00   8.0X
SGO     3.30 192 P      29 06.03   0.7
LACI    3.36 129 ePn    29 14.00   7.7X
TIR     3.64 131 ePn    29 21.50  11.2X
                 iSn    29 55.00
MGR     3.68 188 P      29 10.97   0.1
FVI     3.70 320 P      29 15.88   4.7X
ORI     3.73 177 P      29 11.47  -0.1
KBA     3.86 330 iPnc   29 14.10   0.6
                 iPg    29 29.40
                 iSn    30 00.50
                 iSg    30 23.60
SOP     3.90   4 ePn    29 13.50  -0.5
PII     4.12 271 P      29 18.60   1.7
SKO     4.25 113 ePn    29 17.00  -2.0
                 eSn    30 07.30
                 i      30 10.00
                 i      30 12.70
                 Lg     30 36.00
BZS     4.27  63 ePc    29 09.50  -9.7X
SRO     4.29  19 iPn    29 23.80   4.4X
                 e      30 21.00
OHR     4.33 127 ePn    29 29.30   9.3X
ZST     4.45   8 iPn    29 21.00  -0.7
                 i(Sn)  30 15.00
VKA     4.48   1 e(Pn)  29 22.00  -0.1
                 iSn    30 16.50
BHG     4.57 331 iPnd   29 24.00   0.6
WTTA    4.73 319 iPnc   29 26.30   0.4
                 iSn    30 20.60
                 iSg    30 46.70
OGA     4.78 312 ePn    29 27.60   1.0
WATA    4.81 319 iPnc   29 27.70   0.7
                 i      30 25.40
FNA     4.87 126 ePg    29 27.32  -0.5
                 eSg    29 33.64
SQTA    4.91 316 iPnc   29 30.10   1.7
                 i      30 31.60
GZR     4.96  69 ePd    29 40.00  11.0X
MOTA    5.05 317 iPnc   29 30.90   0.6
                 i      30 32.60
                 i      30 56.10
GEC2    5.35 342 Pn     29 33.50  -1.0
                 Sn     30 34.40
PGF     5.41 259 Pn     29 34.00  -1.5
KNT     5.60 116 iPg    29 36.80  -1.3
                 eSg    29 50.76
KHC     5.64 342 Pn     29 38.00  -0.7
                 Sn     30 43.50
WET     5.83 338 iPnc   29 43.00   1.8
LIT     5.96 126 ePg    29 36.56  -6.5X
                 iSg    29 51.00
SRS     6.08 113 ePb    29 43.36  -1.4
                 iSb    30 03.64
PRU     6.31 350 Pn     29 45.00  -3.0X
      1.4s    28.60nm          4.9mb X
                 Pg     30 09.10
                 Sn     30 59.70
                 i      31 15.70
                 Sg     31 32.10
SBF     6.34 274 Pn     29 47.30  -1.3
                 Sn     31 00.60
AGG     6.62 134 ePb    29 50.44  -2.0
OUR     6.74 118 iPb    29 48.60  -5.4X
PAIG    6.78 122 ePb    29 48.16  -6.5X
                 eSb    30 11.64
GRF     6.82 332 ePg    30 00.00   4.7X
                 e(Sg)  31 07.50
FRF     6.93 271 Pn     29 54.80  -2.0
LPG     6.96 288 Pn     29 54.60  -2.8X
LPL     6.97 288 Pn     29 55.90  -1.7
KSP     7.06   0 ePn    29 40.60 -17.9X
                 ePg    30 07.00
                 eS     31 28.00
LMR     7.06 270 Pn     29 56.90  -1.6
LRG     7.15 271 Pn     29 58.30  -1.5
BRG     7.25 349 e(P)   30 05.00   3.8X
                 e      31 17.00
MOX     7.54 337 e(P)   30 03.90  -1.3
                 e      31 28.90
BSF     7.72 305 Pn     30 05.30  -2.6
                 Sn     31 28.70
CDF     7.74 310 Pn     30 05.90  -2.2
```

```
CLL     7.83 345 (Pg)   30 15.70   6.4X
                 eSg    32 22.00
HAU     8.06 305 Pn     30 11.90  -0.7
                 Sn     31 37.50
LBF     9.18 295 Pn     30 27.30  -0.8
                 Sn     32 06.20
SMF     9.18 292 Pn     30 26.80  -1.3
                 Sn     32 05.40
LOR     9.34 296 Pn     30 28.80  -1.5
                 Sn     32 11.70
SSF     9.51 295 Pn     30 32.50  -0.1
BGF     9.83 291 Pn     30 35.00  -2.1
OBN    17.36  42 eP     32 15.00  -1.4
      0.7s     9.00nm          4.0mb
                 i      32 19.50
                 i      32 21.00
     S.D. = 1.3  on  64 of  85 obs.
-----------------------------------
?  OCT  03, 1993  16h 40m 11.24± 2.21s
    6.942 S ±18.9km  147.360 E ±24.2km
   DEPTH =  79.1 ± 14.6 km
   3.8mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY    1.55 297 eP     40 37.70   0.0
PMG     2.46 185 eP     40 50.00   0.1
                 eS     41 32.00
WR2    18.06 223 eP     44 18.30  -0.3
      0.4s     6.60nm          4.2mb
BRS    20.98 166 iPd    44 50.00  -0.1
ASPA   21.06 216 eP     44 51.30   0.3
                 eS     48 49.10
STK    25.39 192 eP     45 32.80  -0.1
      1.8s     3.10nm          3.5mb
     S.D. = 0.3  on   6 of   6 obs.
-----------------------------------
   OCT  03, 1993  17h 04m 28.87± 0.64s
   30.505 S ± 9.2km   67.434 W ± 6.9km
   DEPTH =  33.0km  (normal)
 SAN JUAN PROVINCE, ARGENTINA     (137)

RTPR    0.82  76 iPd    04 43.00  -1.0
CFA     1.30 212 ePc    04 50.80  -0.1
                 S      05 06.80
RTCB    1.53 230 iPd    04 54.00  -0.2
                 S      05 13.00
RTCV    1.65 215 ePc    04 56.10   0.1
                 S      05 27.90
RTRS    1.78 280 eP     04 57.90   0.1
                 S      05 20.70
CYA     2.50  35 eP     05 08.60   0.4
                 S      05 45.00
TCA     2.58 110 iPc    05 10.00   0.7
                 (S)    05 35.00
     S.D. = 0.7  on   7 of   7 obs.
-----------------------------------
*  OCT  03, 1993  17h 49m 04.03± 1.59s
   28.803 N ±21.8km   34.656 E ± 7.0km
   DEPTH =  10.0km  (geophysicist)
   3.7mb (  2 obs.)
 EGYPT                            (553)
      MD 3.9 (HLW).

SRFA    0.48  75 iPc    49 13.33  -0.5
HQL     0.58  36 iPc    49 16.33   0.6
AYN     1.18  86 iP     49 26.53   0.5
HLW     3.08 291 ePn    49 54.00   0.4
                 eSn    50 36.00
WAJH    3.12 147 eP     50 42.93  48.8X
GEC2   25.67 327 P      54 36.20   0.5
      0.6s     0.53nm          3.4mb
                 e      54 38.30
                 e      54 41.20
HFS    34.40 342 eP     55 51.70  -1.5
      0.4s     0.90nm          4.0mb
     S.D. = 1.1  on   6 of   7 obs.
-----------------------------------
*  OCT  03, 1993  18h 12m 11.16± 0.71s
    9.763 S ±10.1km  114.471 E ±11.1km
   DEPTH =  33.0km  (normal)
   4.3mb (  3 obs.)
 SOUTH OF BALI, INDONESIA         (284)

KHKI    1.79  39 iPc    12 40.00  -0.2
                 iS     12 47.00
                 e      15 52.50
TRT     2.74 318 iPd    12 54.50   0.8
```

```
                 iS     13 25.50
SJI     3.35 307 ePd    13 01.70  -0.7
                 eS     13 38.40
MBL    12.45 156 iPd    15 08.80  -0.2
                 eS     17 20.00
MEEK   17.24 167 eP     16 15.50   4.4X
                 eS     19 15.00
MRWA   19.41 176 eP     16 42.00   4.4X
                 eS     20 07.00
WR2    21.71 120 eP     17 00.80  -0.7
      0.4s     7.40nm          4.5mb
                 i      17 24.50
                 eS     20 46.00
ASPA   23.14 129 eP     17 17.00   1.3
      1.2s     5.60nm          3.9mb
STK    33.39 135 eP     18 48.50  -0.4
      0.7s     3.20nm          4.3mb
     S.D. = 1.0  on   7 of   9 obs.
-----------------------------------
   OCT  03, 1993  18h 15m 11.63± 1.01s
   43.591 N ± 5.3km    8.935 E ± 9.6km
   DEPTH =  10.0km  (geophysicist)
 CORSICA                          (380)
     ML 2.5 (GEN), 2.5 (LDG).

FIN     0.81 320 P      15 27.84   0.5
                 S      15 38.86
IMI     0.82 293 P      15 28.46   0.9
                 S      15 39.89
PCP     0.99 344 P      15 30.83   0.4
                 S      15 43.50
ROB     1.04 313 P      15 31.76   0.4
                 S      15 45.35
PGF     1.04 177 Pn     15 31.90   0.5
                 Sn     15 45.00
SBF     1.12 285 Pn     15 33.20   0.5
                 Sn     15 49.10
ENR     1.27 301 P      15 35.77   0.6
                 S      15 52.36
PZZ     1.61 305 P      15 40.00  -0.3
                 S      16 00.70
FRF     1.66 270 Pn     15 40.40  -0.5
                 Sn     16 01.00
BHB     1.73 317 P      15 41.64  -0.4
                 S      16 01.63
LMR     1.78 263 Pn     15 42.40  -0.3
                 Sn     16 03.90
LRG     1.88 267 Pn     15 43.30  -0.7
                 Sn     16 05.80
LPG     2.46 321 Pn     15 51.50  -1.2
LPL     2.49 321 Pn     15 52.70  -0.3
     S.D. = 0.7  on  14 of  14 obs.
-----------------------------------
&  OCT  03, 1993  18h 17m 16.28s
   61.252 N          151.004 W
   DEPTH =  53.0km
 SOUTHERN ALASKA                  (  2)
      <AEIC>. ML 3.3 (AEIC), 3.9
      (PMR).

SUA     0.25  30 eP     17 25.51   0.0
                 eS     17 33.28
CGLM    0.49 277 ePc    17 27.26  -0.5
                 eS     17 41.87
SPU     0.51 263 eP     17 27.62  -0.4
                 eS     17 36.86
NKA     0.52 193 eP     17 29.09   1.0
CRP     0.56 272 iPc    17 27.53  -1.1
CKN     0.57 268 iPc    17 28.30  -0.4
NCG     0.58 286 P      17 28.20  -0.6
CKT     0.58 265 iPc    17 28.23  -0.7
CP2     0.60 272 ePc    17 28.34  -0.9
BKG     0.64 254 iPc    17 29.02  -0.5
                 eS     17 39.05
CKL     0.65 266 iPc    17 29.03  -0.7
BGL     0.67 272 iPc    17 29.32  -0.7
PWA     0.67  53 P      17 29.70  -0.2
PMS     0.70  90 P      17 29.80  -0.5
SKT     0.77 341 P      17 30.30  -0.9
                 S      17 41.40
SLKM    0.84 153 P      17 31.10  -1.0
                 S      17 43.90
PLRM    0.96  68 iPc    17 32.85  -0.9
                 eS     17 46.74
PMR     0.96  68 ePc    17 32.27  -1.5
                 eS     17 45.75
RDT     0.97 226 iPd    17 32.98  -0.9
```

```
PTE     1.04 111 eP    17 34.06  -0.7
                eS    17 48.46
DFR     1.06 232 iPd   17 34.28  -0.8
MPA     1.11 133 eP    17 35.06  -0.7
                eS    17 50.48
GHO     1.13  61 iPc   17 35.26  -0.8
                eS    17 50.55
REF     1.13 228 eP    17 35.43  -0.8
                eS    17 50.54
RSO     1.17 228 eP    17 35.95  -0.8
RS2     1.17 228 iPd   17 35.98  -0.8
NCT     1.17 234 iPd   17 35.97  -0.7
                eS    17 51.30
RDW     1.17 230 iPd   17 36.04  -0.8
RED     1.20 227 iPd   17 36.28  -0.9
CUT     1.21  16 iPd   17 36.07  -1.0
KNK     1.24  81 iPc   17 36.76  -0.8
                eS    17 53.46
PWL     1.36 106 eP    17 37.89  -1.3
SEW     1.38 146 eP    17 39.10  -0.4
                eS    17 58.77
SML     1.40  65 iPc   17 38.59  -1.2
                eS    17 56.52
BRLK    1.49 178 eP    17 40.36  -0.8
                eS    18 00.15
ILIM    1.52 220 iPd   17 40.72  -0.8
                eS    18 00.63
INE     1.57 221 eP    17 41.36  -0.9
                eS    18 02.38
CFI     1.57  91 eP    17 40.55  -1.6
                eS    18 02.52
HOM     1.63 191 eP    17 42.92  -0.1
CNPM    1.74 184 ePd   17 43.42  -1.1
HUR     1.85  20 eP    17 45.95  -0.2
                eS    18 08.83
SCM     1.85  70 ePc   17 44.65  -1.6
OPT     1.95 215 eP    17 47.34  -0.2
                eS    18 12.29
PDB     2.16 228 eP    17 48.84  -1.6
TRF     2.23   8 eP    17 50.25  -1.4
AUE     2.24 213 eP    17 51.08  -0.4
SVW     2.24 268 P     17 49.90  -1.8
AUH     2.25 214 eP    17 52.08   0.3
AUW     2.25 214 eP    17 51.49  -0.3
VLZ     2.27  91 ePc   17 49.67  -2.3
                eS    18 17.16
KTH     2.31   1 iPd   17 52.05  -0.6
                eS    18 21.31
HIN     2.37 109 eP    17 50.28  -3.1
RND     2.38  24 eP    17 52.67  -1.0
TOA     2.46  68 P     17 53.70  -1.0
KLU     2.46  82 ePc   17 52.27  -2.5
                eS    18 21.47
DHY     2.50  41 eP    17 54.10  -1.3
CVA     2.66 103 ePc   17 54.41  -3.2
MCK     2.67  20 P     17 57.20  -0.5
CDD     2.68 211 P     17 57.20  -0.7
TZL     2.78  71 eP    17 57.53  -1.7
SDG     2.88  61 eP    17 59.98  -0.9
TTA     2.90 308 P     17 59.00  -2.0
SGAM    2.93 102 eP    17 57.80  -3.7
PAX     3.12  54 eP    18 02.98  -1.3
RAGM    3.22 103 eP    18 01.60  -4.0
HMT     3.43 103 eP    18 04.44  -4.1
NEA     3.45  14 eP    18 07.04  -1.8
GLB     3.47  84 eP    18 05.74  -3.4
WRH     3.50  21 eP    18 08.01  -1.4
KDC     3.60 193 eP    18 06.84  -4.0
                eS    18 41.68
HDA     3.67  29 eP    18 10.17  -1.7
CCB     3.71  22 eP    18 10.25  -2.1
MLY     3.80   2 eP    18 11.70  -2.0
MDM     3.93  17 eP    18 14.04  -1.5
FBA     3.94  20 eP    18 13.32  -2.4
IL1     4.00  26 eP    18 13.71  -2.8
ILB     4.00  26 eP    18 13.89  -2.6
                eS    18 57.16
TGL     4.01  94 eP    18 13.37  -3.4
GLM     4.09  22 eP    18 15.85  -2.0
BALM    4.20  89 eP    18 15.76  -3.7
WRG     4.58 101 eP    18 22.15  -2.5
YAH     4.62  97 eP    18 22.86  -2.6
BC3     4.69  63 eP    18 23.65  -2.6
CTGM    4.70  89 eP    18 23.51  -3.0
IM3     4.91 347 eP    18 26.29  -3.0
IMA     4.98 347 eP    18 26.45  -4.0
FYU     5.91  23 P     18 41.50  -1.8
```

```
BM3     6.78  21 eP    18 52.11  -3.5
        88 obs. associated
-------------------------------------
&  OCT  03, 1993  19h 16m 33.62s
   58.310 N          142.663 W
   DEPTH =  10.0km  (geophysicist)
 GULF OF ALASKA                    ( 15)
      <AEIC>. ML 2.5 (AEIC).

WRG     1.76  10 eP    17 00.16  -4.2
                eS    17 19.88
CYK     1.78   3 eP    17 00.14  -4.5
                eS    17 20.71
SNH     1.88 357 eP    17 01.53  -4.6
YAH     2.11  12 eP    17 05.44  -4.2
                eS    17 29.65
TGL     2.46 358 eP    17 09.21  -5.2
CRQM    2.47 355 eP    17 09.23  -5.4
SGAM    2.55 330 eP    17 11.31  -4.4
BALM    2.74   3 eP    17 13.42  -5.1
                eS    17 43.07
HIN     2.87 318 iP    17 15.46  -4.8
                eS    17 47.44
GLB     3.20 350 eP    17 19.35  -5.5
KLU     3.59 334 eP    17 25.15  -5.4
        11 obs. associated
-------------------------------------
*  OCT  03, 1993  19h 24m 10.82± 0.89s
    5.346 S ±12.2km  151.489 E ±20.1km
   DEPTH =  50.0km  (geophysicist)
   4.4mb (  2 obs.)  3.8Msz (  1 obs.)
 NEW BRITAIN REGION, P.N.G.        (192)

RAB     1.33  30 iPc   24 33.60   0.3
                iS    45 50.00
KVG     2.82 346 eP    24 59.10   4.6X
PMG     5.89 227 eP    25 39.00   1.2
                eS    26 48.00
CTA    15.51 199 iP    27 48.00   0.0
WR2    22.10 227 eP    29 02.30  -1.2
        0.5s     6.40nm          4.3mb
                i     29 09.80
                eS    33 03.20
ASPA   24.88 221 eP    29 30.30  -0.2
        0.8s    13.20nm          4.5mb
     Z  22s     0.30um           3.8Msz
                ipP   29 43.10  52kmX
GUN    71.29 302 P     35 27.60  -0.3
KKN    71.76 301 P     35 30.60   0.0
DMN    71.86 301 P     35 31.40   0.2
     S.D. = 0.8  on   8 of   9 obs.
-------------------------------------
&  OCT  03, 1993  19h 46m 52.89s
   37.560 N          118.888 W
   DEPTH =   5.8km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      <GM-P>. MD 3.4 (GM). ML 3.6
      (BRK), 3.3 (GS).

MCSM    0.10 352 P     46 55.41   0.1
MEMM    0.11 339 iPd   46 55.67   0.3
MMPM    0.12 294 iPc   46 55.67  -0.1
MRCM    0.32  70 iPc   46 59.46   0.0
MTUM    0.33 129 iPd   46 59.41  -0.2
CWCR    0.47  98 P     47 02.15  -0.2
BONR    0.61  49 iPc   47 04.75  -0.4
                eS    47 13.61
MSTM    1.25 286 P     47 15.94  -0.6
CMB     1.28 292 ePd   47 16.23  -0.8
                eS    47 32.77
TNP     1.42  68 iPc   47 19.74   0.2
MRFM    1.46 298 P     47 19.52  -0.4
BAVM    1.70 274 P     47 28.01   4.7
BRMM    1.71 245 P     47 24.70   1.3
ADWM    1.78 300 P     47 25.27   0.9
PKEM    1.79 214 eP    47 25.75   1.2
WCHM    1.80 158 P     47 26.10   1.2
VPEM    1.82 152 P     47 27.27   2.1
ASMM    1.90 312 P     47 27.46   1.3
ALAM    1.92 302 P     47 27.64   1.2
AASM    1.96 297 P     47 28.46   1.5
ARJM    1.98 305 P     47 29.00   1.6
PCL     1.98 256 P     47 29.05   1.7
WOFM    2.03 176 P     47 29.89   1.8
LRV     2.05 237 P     47 30.45   2.1
GHS     2.09 258 P     47 30.69   1.7
AFHM    2.10 315 P     47 31.69   2.5
```

```
ARN     2.12 265 ePc   47 30.40   1.1
AFDM    2.15 311 P     47 31.97   2.2
AHRM    2.15 308 P     47 31.63   1.8
WJPM    2.17 171 P     47 32.77   2.6
BVYM    2.17 249 P     47 31.60   1.4
SAO     2.19 250 iP    47 31.59   1.2
TPNV    2.19 105 eP    47 29.45  -1.1
COE     2.24 263 eP    47 33.40   2.3
APRM    2.26 306 P     47 33.68   2.4
YEG     2.29 202 P     47 33.56   1.7
AFRM    2.30 303 P     47 34.43   2.5
CVR     2.32 268 P     47 33.74   1.5
PRS     2.34 239 iP    47 33.52   1.0
AVRM    2.38 309 P     47 36.18   3.2
CRGC    2.41 196 P     47 36.18   2.5
SOS     2.46 262 P     47 35.72   1.5
BCH     2.56 203 eP    47 36.31   0.6
AOHM    2.60 315 P     47 39.09   2.9
BAPM    2.61 239 P     47 37.14   0.7
BPOM    2.66 241 P     47 37.99   0.9
ABL     2.72 186 eP    47 38.99   0.9
BGH     2.75 267 P     47 41.75   3.3
PCC     2.78 270 iP    47 39.82   1.1
GSC     2.81 143 eP    47 40.64   1.3
JEGM    2.84 270 (P)   47 41.09   1.4
ORV     2.86 315 eP    47 40.39   0.5
MGL     3.07 318 P     47 43.72   0.8
NTYM    3.09 287 (P)   47 43.28   0.1
NMHM    3.16 292 P     47 48.14   3.9
GSGM    3.28 295 P     47 47.62   1.6
PEC     3.92 158 (P)   47 55.24   0.2
ARUT    4.33  85 ePn   47 59.96  -1.0
                ePg   48 14.39
DUG     5.42  59 (Pn)  48 17.12   0.7
                ePg   48 35.10
        59 obs. associated
-------------------------------------
*  OCT  03, 1993  20h 13m 46.93± 1.01s
   34.926 N ±10.9km    3.080 W ± 9.5km
   DEPTH =  33.0km  (normal)
 MOROCCO                           (395)
      mbLg 2.7 (MDD). Felt (III) in
      the Melilla area.

ZAI     0.30 114 iP    13 55.50   0.8
                iS    14 00.50
EMEL    0.39  15 eP    13 55.60  -0.2
                e     14 00.70
TOU     0.56 274 eP    13 57.50  -0.8
                iS    14 06.00
TAF     0.56 101 iPg   13 58.00  -0.5
                iSg   14 01.00
                i     14 02.00
TZK     1.24 228 eP    14 09.50   1.5X
                iS    14 29.00
EGUA    1.94 348 eP    14 19.90   1.6X
                e     14 38.50
ENIJ    2.16  19 eP    14 18.60  -2.7X
                e     14 40.10
IFR     2.20 231 iPn   14 41.50  19.4X
                iSn   15 15.50
                i     15 17.00
BMK     2.27 271 eP    13 56.50 -26.3X
                iS    14 06.00
ECOG    2.38 351 eP    14 25.40   0.8
EHUE    2.91   8 eP    14 30.60  -1.4
                e     14 58.40
EHOR    3.38 329 eP    14 39.90   1.3
                e     15 18.30
     S.D. = 1.2  on   7 of  12 obs.
-------------------------------------
&  OCT  03, 1993  21h 03m 14.53s
   37.558 N          118.889 W
   DEPTH =   5.6km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      <GM-P>. MD 3.2 (GM). ML 3.0
      (GS), 3.3 (BRK).

CLKR    0.06  58 P     03 16.18  -0.2
MCSM    0.10 353 P     03 17.09   0.2
MEMM    0.12 340 iPd   03 17.31   0.3
MMPM    0.12 295 iPd   03 17.32   0.0
MRCM    0.32  69 iPc   03 21.13   0.0
                eS    03 25.80
MTUM    0.33 128 iPd   03 21.07  -0.2
                eS    03 25.49
BCKR    0.43  71 P     03 23.32   0.0
```

03d 21h

```
CWCR    0.47  98 P     03 23.82  -0.1
BONR    0.61  49 iPc   03 26.44  -0.4
FRI     0.86 229 iP    03 30.85  -0.7
TNP     1.42  68 ePc   03 41.38   0.2
MCUM    1.43 287 P     03 40.86  -0.3
MRFM    1.46 298 P     03 41.18  -0.4
MNHM    1.63 292 P     03 44.15   0.2
BAVM    1.70 274 P     03 49.62   4.6
BRMM    1.71 246 P     03 46.43   1.4
BMSM    1.77 240 P     03 47.20   1.2
HVC     1.95 233 P     03 50.70   2.1
EKH     2.03 245 P     03 51.79   2.0
LTR     2.04 252 P     03 51.49   1.6
HJSM    2.06 250 P     03 51.64   1.5
CSTL    2.07 273 P     03 52.62   2.3
ARN     2.11 265 eP    03 51.68   0.7
                eS     04 17.69
WJPM    2.17 171 P     03 54.36   2.5
SAO     2.19 250 eP    03 52.55   0.5
TPNV    2.19 105 eP    03 51.84  -0.4
MHC     2.20 265 eP    03 53.74   1.4
CSR     2.23 255 P     03 50.63  -2.0
COE     2.24 263 (P)   03 53.63   0.9
CRGC    2.41 196 P     03 57.75   2.5
BCH     2.56 203 eP    03 57.40   0.0
ABL     2.71 186 eP    04 00.98   1.2
GSC     2.81 143 ePn   04 01.91   0.9
SCCM    2.81 202 P     04 03.23   2.3
ORV     2.86 315 eP    04 01.96   0.4
NTYM    3.09 287 eP    04 06.04   1.2
ARUT    4.33  85 (P)   04 23.40   0.8
      37 obs. associated
-----------------------------------
*  OCT  03, 1993  21h 20m 08.13± 0.78s
   35.048 N ± 7.9km    3.114 W ± 9.3km
   DEPTH =  33.0km  (normal)
 STRAIT OF GIBRALTAR                (385)
      mbLg 2.8 (MDD). Felt (III) in
      the Nador area, Morocco.

EMEL    0.28  27 eP    20 16.70   1.0
                e     20 22.60
ZAI     0.39 129 iP    20 16.50  -0.6
                iS    20 22.00
TOU     0.53 261 eP    20 18.50  -0.7
                iS    20 26.50
TZK     1.30 223 eP    20 31.00   0.9
                iS    20 49.00
EGUA    1.82 349 eP    20 37.60   0.0
                e     21 01.60
ENIJ    2.06  21 ePn   20 37.00  -4.1X
BMK     2.24 268 eP    20 17.00 -26.6X
                iS    20 31.00
ECOG    2.25 351 eP    20 45.30   1.4X
                e     21 13.10
EHUE    2.79   9 eP    20 50.90  -0.6
EHOR    3.26 329 ePn   21 01.00   2.9X
                eSn   21 40.20
     S.D. = 1.0  on   6 of  10 obs.
-----------------------------------
%  OCT  03, 1993  21h 24m 09.64± 2.45s
   45.071 N ±18.5km    2.936 E ±18.2km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                             (538)
      ML 1.8 (LDG).

CAF     0.64 257 Pg    24 21.30  -1.1
                Sn    24 33.70
RJF     1.03 284 Pg    24 30.00   0.9
                Sg    24 43.70
MAF     1.18 347 Pg    24 31.40  -0.3
                Sg    24 46.70
LPO     1.30 253 Pg    24 34.30   0.6
                Sg    24 51.30
BGF     1.49 358 Pg    24 35.90  -0.5
                Sg    24 56.00
SMF     1.70  22 Pg    24 39.90   0.4
                Sg    25 00.40
     S.D. = 1.0  on   6 of   6 obs.
-----------------------------------
*  OCT  03, 1993  21h 32m 37.94± 1.84s
   14.012 N ±20.8km   93.026 W ±11.7km
   DEPTH =  33.0km  (normal)
   3.8mb (  2 obs.)
 NEAR COAST OF CHIAPAS, MEXICO    ( 69)
      MD 4.4 (GCG).

TPX     1.16  40 iP    32 58.00   0.1
                iS    33 10.50
PCG     2.38  81 eP    33 15.42  -0.3
IXG     2.50  86 eP    33 17.51   0.2
                eS    33 50.38
SCX     2.73   8 iP    33 21.20   0.8
                iS    33 54.50
YUP     3.13  86 eP    33 26.63   0.3
LTX    18.15 329 (P)   36 50.02   0.7
MIAR   20.45 359 (P)   37 13.11  -2.2
        1.0s     6.35nm         3.9mb
ALQ    24.11 332 (P)   37 51.82  -0.1
        0.8s     2.02nm         3.7mb
LRM    35.70 337 eP    39 36.10   0.5
     S.D. = 1.0  on   9 of   9 obs.
-----------------------------------
   OCT  03, 1993  21h 49m 35.46± 0.79s
   15.364 N ± 8.4km   94.878 W ± 5.7km
   DEPTH =  31.0 ±  4.6 km
   4.9mb ( 40 obs.)
 NEAR COAST OF OAXACA, MEXICO     ( 66)

OXX     2.46 314 iPd   50 14.26  -0.3
                iS    50 43.37
SCX     2.55  57 iP    50 18.30   2.7
                iS    50 53.92
TPX     2.57 100 iP    50 14.50  -1.3
IISM    4.32 327 (P)   50 40.79   0.1
IXG     4.44 105 ePd   50 43.80   1.2
                eS    51 33.87
LVVM    4.60 341 (P)   50 48.66   4.0X
IIT     4.90 318 (P)   50 50.00   0.9
ACX     5.02 288 (P)   50 48.00  -2.6
YUP     5.04 103 ePd   50 51.48   0.3
PPM     5.14 316 (P)   50 52.24  -0.5
                iS    51 48.50
IIA     5.22 317 iP    50 54.90   1.5
                (S)   52 16.21
III     5.32 305 iP    50 54.95  -0.1
                (S)   51 52.00
MRX     7.41 307 (P)   51 22.46  -1.8
LTX    16.09 331 eP    53 21.59   0.4
UYO    18.73   1 iPd   53 53.00  -0.9
MIAR   19.14   3 eP    53 57.06  -1.8
        0.8s    13.74nm         4.2mb
WMOK   19.61 350 eP    54 02.47  -1.9
        1.1s    33.77nm         4.5mb
MEO    19.62 351 iPc   54 03.50  -1.0
MYNC   21.87  24 eP    54 26.54  -1.0
        0.7s     4.84nm         4.0mb
ALQ    22.10 334 eP    54 29.72  -0.3
        1.0s     6.74nm         4.0mb
TUC    22.23 322 eP    54 33.82   2.6
        1.3s    21.65nm         4.4mb
ELC    22.40  12 eP    54 30.95  -1.8
FVM    22.87   9 eP    54 35.29  -2.1
        0.6s     6.59nm         4.3mb
CEH    24.84  32 eP    54 55.39  -1.1
        0.5s     7.63nm         4.5mb
GLA    25.24 318 eP    55 01.36   0.9
GOL    25.93 341 (P)   55 07.60   0.6
        0.8s     6.24nm         4.3mb
PV10   26.10 334 eP    55 08.60  -0.1
PV08   26.11 335 eP    55 10.09   1.3
PV09   26.25 334 eP    55 11.13   1.1
MSU    27.64 330 eP    55 23.83   1.2
ARUT   27.72 327 eP    55 24.64   1.3
DAU    28.75 333 eP    55 33.62   0.9
RSSD   29.70 347 eP    55 42.71   1.5
        0.8s     3.17nm         4.1mb
HVU    30.53 333 eP    55 48.93   0.5
HHAI   31.61 335 eP    55 56.71  -1.2
                e     56 13.55
LRM    33.76 338 iPc   56 17.70   0.9
NEW    37.58 335 eP    56 48.57  -0.3
        0.8s     8.78nm         4.7mb
LON    38.50 330 eP    56 57.06   0.4
GMW    39.54 330 eP    57 05.37   0.1
LPAZ   41.07 139 P     57 06.70 -12.1X
                LR    21 52.00
LPB    41.27 139 P     56 57.00 -23.2X
                eLR   21 50.00
CNCB   41.55 139 (P)   56 57.00 -25.7X
MOCB   46.34 141 P     58 01.10  -0.1
BAO    55.62 122 eP    59 10.10  -1.1
INK    58.36 344 eP    59 29.50  -0.3
        0.9s     3.00nm         4.4mb

SOB1   58.79 111 (P)   59 33.00  -0.6
FBA    60.90 337 eP    59 46.37  -1.0
        0.8s     4.23nm         4.6mb
DAG    71.97  14 iPd   00 58.20   0.7
        0.8s    13.43nm         5.0mb
EKA    78.49  36 Pc    01 36.00   1.0
        0.9s    10.10nm         4.8mb
LPF    81.27  43 eP    01 48.90  -1.1
        1.0s    22.80nm         5.1mb
GRR    81.30  42 eP    01 49.30  -0.9
        0.9s    39.00nm         5.4mb
FLN    81.46  42 eP    01 50.40  -0.7
        0.8s    23.10nm         5.2mb
LDF    81.73  42 eP    01 51.70  -0.8
        0.7s     9.80nm         4.9mb
LFF    83.21  45 eP    01 59.30  -0.9
        0.9s    15.55nm         5.1mb
LSF    83.40  44 eP    02 00.70  -0.5
        0.9s     7.35nm         4.8mb
RJF    83.64  45 eP    02 01.60  -0.9
        1.0s     8.80nm         4.9mb
TCF    83.85  44 eP    02 02.50  -1.0
        0.7s     5.75nm         4.9mb
HYF    83.87  43 eP    02 02.80  -0.7
MAF    84.11  44 eP    02 03.90  -0.9
        0.8s     6.45nm         4.9mb
BGF    84.20  43 eP    02 04.30  -0.9
        0.8s    14.90nm         5.2mb
NB2    84.27  28 P     02 07.00   1.7
        0.9s     7.80nm         4.9mb
DOU    84.31  40 P     02 08.00   2.3
AVF    84.47  43 eP    02 06.20  -0.3
        0.9s     9.65nm         5.0mb
SSF    84.49  43 eP    02 06.50  -0.2
        0.8s     8.35nm         5.0mb
LOR    84.66  43 eP    02 07.60   0.0
        1.1s    17.10nm         5.2mb
LBF    84.82  43 eP    02 08.20  -0.2
        0.9s     6.40nm         4.8mb
SMF    84.83  43 eP    02 08.10  -0.3
        0.8s     7.40nm         4.9mb
ENN    84.92  39 eP    02 10.00   1.3
        0.9s    32.80nm         5.5mb
                e     02 21.00
WLF    85.40  40 iPc   02 14.13   3.0X
HAU    86.05  41 eP    02 15.00   0.5
        0.8s    12.75nm         5.2mb
BSF    86.38  41 eP    02 16.60   0.4
        0.9s     6.90nm         4.9mb
CDF    86.50  41 eP    02 17.50   0.7
        0.8s     6.45nm         4.9mb
TNS    86.62  39 ePd   02 20.60   3.3X
LPG    87.11  44 eP    02 20.60   0.5
LRG    87.51  46 eP    02 21.70   0.1
        1.1s    39.55nm         5.6mb
LMR    87.65  46 eP    02 22.10  -0.2
        0.9s    23.10nm         5.5mb
FRF    87.67  45 eP    02 22.20  -0.2
        1.2s    31.55nm         5.5mb
LIC    88.23  84 P     02 25.63   0.0
        0.9s    10.00nm         5.1mb
KIC    88.47  84 P     02 26.77   0.0
        0.8s    13.50nm         5.3mb
GRF    88.48  39 eP    02 31.00   4.8X
KHC    90.12  39 eP    02 38.40   4.4X
GEC2   90.31  39 P     02 35.60   0.7
        0.8s     2.09nm         4.5mb
                e     02 38.20
                e     02 46.10
PRU    90.34  38 eP    02 39.50   4.6X
ZST    92.63  38 eP    02 46.00   0.5
HYB   146.79  12 ePKP  09 15.00  -0.2
GBA   150.23  15 PKPd  09 26.00   5.5X
        0.8s     4.50nm
     S.D. = 1.1  on  76 of  86 obs.
-----------------------------------
   OCT  03, 1993  22h 39m 27.24± 0.91s
   43.675 N ± 9.0km   10.311 E ± 6.7km
   DEPTH =  15.8 ±  5.5 km
 CENTRAL ITALY                      (381)
      ML 2.9 (LDG), 2.9 (GEN). MD 2.9
      (FIR).

FIR     0.69  81 ePg   39 41.00   0.5
                iSg   39 50.00
PGF     1.48 221 Pn    39 54.50   1.2
                Sn    40 12.60
```

PCP	1.54	305	P	39 56.16	2.0
			S	40 12.71	
FIN	1.61	290	P	39 55.78	0.6
			S	40 12.01	
IMI	1.77	278	P	39 56.21	-1.3
			S	40 13.41	
ROB	1.87	290	P	39 58.35	-0.5
			S	40 17.03	
SBF	2.09	276	Pn	40 02.10	-0.1
ENR	2.16	286	P	40 03.12	0.0
STV	2.23	286	P	40 02.48	-1.7
PZZ	2.46	291	P	40 06.42	-1.0
BHB	2.48	299	P	40 07.01	-0.6
RSP	2.64	305	P	40 11.54	1.5
FRF	2.66	269	Pn	40 09.70	-0.6
			Sn	40 39.10	
LMR	2.79	264	Pn	40 11.20	-0.8
			Sn	40 42.80	
RRL	2.82	297	P	40 13.88	1.2
LRG	2.88	267	Pn	40 12.80	-0.5
			Sn	40 46.00	
LPG	3.13	307	Pn	40 18.60	1.5
LPL	3.15	307	Pn	40 19.60	2.2
BSF	4.83	331	Pn	40 41.20	0.1
			Sn	41 33.80	
HAU	5.14	329	Pn	40 44.30	-1.1
			Sn	41 41.30	
CDF	5.19	337	Pn	40 46.00	-0.1
GEC2	5.68	23	Pn	40 50.30	-2.8X
			Sn	41 52.80	
KHC	5.91	21	ePn	40 54.50	-1.7
			eSn	41 58.00	
			Sg	42 34.50	
BGF	6.02	301	Pn	40 57.10	-0.6

S.D. = 1.2 on 23 of 24 obs.

OCT 03, 1993 23h 48m 34.12± 0.69s
60.052 N ± 7.2km 7.322 E ± 5.0km
DEPTH = 5.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 2.5 (BER).

ODD1	0.38	248	eP	48 42.57	0.9
			eS	48 46.80	
BLS5	0.77	215	eP	49 02.68	13.1X
			eS	49 12.73	
BER	1.05	289	iPd	48 53.67	-0.6
			eS	49 07.54	
EGD	1.07	283	eP	48 53.92	-0.8
			eS	49 08.24	
ASK	1.15	293	eP	48 55.20	-0.8
			eS	49 10.58	
HYA	1.25	334	eP	48 58.17	0.4
			eS	49 15.31	
KMY	1.35	232	eP	48 59.48	0.0
			eS	49 16.46	
FOO	1.91	325	eP	49 09.00	1.4
			eSg	49 33.88	
NRA0	2.20	70	Pn	49 11.92	0.0
			Lg	49 43.04	
MOL	2.53	2	eP	49 16.19	-0.3
			eSg	49 52.67	
HFS	3.19	86	eP	49 25.60	-0.3
	0.1s		0.20nm		

S.D. = 0.8 on 10 of 11 obs.

OCT 03, 1993 23h 54m 11.76± 0.79s
13.061 N ± 7.5km 145.280 E ± 5.0km
DEPTH = 80.6 ± 5.5 km
5.2mb (38 obs.)
MARIANA ISLANDS (216)
Felt (III) in northern Guam.
Also felt at Windward Hills,
Agana and Tamuning, Guam.

GUA	0.59	323	iPc	54 26.60	0.0
GUMO	0.66	322	iPd	54 27.10	-0.1
			iS	54 41.40	
PJG	0.66	323	eP	54 27.10	-0.1
KAGJ	22.39	326	P	59 06.00	1.6
WKYJ	22.83	339	P	59 10.10	1.4
TKSJ	23.20	336	P	59 13.20	1.0
IIDJ	23.29	345	P	59 12.40	-0.8
KUMJ	23.47	328	P	59 16.50	1.6
KAKJ	23.50	350	P	59 14.60	-0.5
CHJJ	23.58	347	P	59 15.00	-0.9
TSRJ	23.90	341	P	59 18.70	-0.3
BAG	24.11	281	eP	59 21.00	-0.5
MAT	24.23	346	eP	59 21.00	-1.2
			eS	03 35.00	
MTMJ	24.37	345	P	59 22.80	-0.9
YONJ	24.48	336	P	59 25.10	0.4
SHNJ	24.61	331	P	59 25.90	0.1
NIIJ	24.72	348	P	59 25.80	-1.1
OFUJ	26.11	354	eP	59 36.40	-3.4X
SSE	28.54	313	Pc	00 01.50	-0.4
	1.0s		63.00nm	5.2mb	
	Z 24s		0.80um	4.2MszX	
DL2	33.19	325	Pd	00 43.00	0.3
	0.7s		120.00nm	5.8mb	
WHN	33.42	306	Pc	00 45.20	0.4
	1.2s		75.00nm	5.4mb	
MDJ	34.19	340	eP	00 50.30	-1.0
	0.9s		42.00nm	5.4mb	
TIA	34.22	317	Pc	00 51.70	0.0
	0.7s		70.00nm	5.7mb	
SNY	34.32	331	eP	00 49.30	-3.2X
	1.8s		81.00nm	5.3mb	
WR2	34.52	198	iPc	00 49.20	-5.2X
	0.8s		15.20nm	5.0mb	
			i	01 08.30	
WRA	34.52	198	P	01 16.10	21.7X
CN2	35.05	335	eP	00 58.30	-0.4
	0.6s		6.80nm	4.8mb	
	Z 14s		0.30um	4.2MszX	
BJI	37.10	322	eP	01 16.50	0.5
	1.5s		99.00nm	5.5mb	
	Z 24s		0.57um	4.3MszX	
ASPA	38.16	197	iPd	01 20.80	-4.3X
	0.6s		10.40nm	4.9mb	
TIY	38.18	316	eP	01 26.00	0.7
	Z 30s		1.09um	4.5MszX	
GYA	38.55	296	iPc	01 29.80	1.2
	0.8s		54.00nm	5.5mb	
XAN	39.03	309	Pc	01 32.30	-0.1
	0.6s		52.00nm	5.6mb	
HHC	40.43	320	P	01 45.10	1.2
	1.0s		50.00nm	5.3mb	
DZM	40.62	149	iPc	01 40.40	-5.2X
BTO	41.29	318	P	01 51.20	0.3
CD2	42.11	302	iPc	01 57.80	0.1
	0.6s		77.00nm	5.7mb	
LZH	43.66	309	iPc	02 11.20	0.8
	1.5s		85.00nm	5.4mb	
SNG	44.31	267	eP	02 16.80	1.1
CHTO	44.82	284	iPc	02 19.30	-0.5
	0.8s		13.54nm	4.8mb	
KHT	45.29	278	iPc	02 24.00	0.5
SMY	45.78	24	eP	02 28.20	1.4
	0.6s		196.30nm	6.2mb	
ADK	49.31	30	eP	02 54.50	0.1
SHL	51.60	292	iP	03 12.00	-0.5
LSA	52.59	297	Pc	03 21.00	0.8
	0.8s		54.00nm	5.6mb	
WMQ	57.79	314	iPc	03 57.50	0.4
	1.0s		56.00nm	5.6mb	
SDN	59.35	33	(P)	04 02.71	-4.9X
SVW	63.94	28	eP	04 37.60	-0.7
HYB	64.25	283	iPc	04 40.90	-0.2
	0.8s		142.30nm	6.0mb	
NDI	64.72	296	iPc	04 43.00	-0.9
CP2	65.53	28	(P)	04 48.67	-0.1
GBA	65.81	279	Pc	04 50.60	-0.4
	0.6s		13.00nm	5.0mb	
KSH	65.87	307	P	04 52.40	1.1
	1.0s		22.00nm	5.0mb	
SLKM	66.25	29	ePd	04 51.41	-1.8
KOD	66.31	276	eP	04 54.00	-0.6
IMA	66.58	23	eP	04 54.50	-0.8
	1.3s		12.87nm	4.7mb	
PMR	67.06	28	ePc	04 56.24	-2.0
	0.8s		18.15nm	5.1mb	
KLU	68.53	29	ePc	05 06.73	-0.8
FBA	68.53	25	eP	05 05.49	-1.9
	0.7s		10.90nm	4.9mb	
TOA	68.54	28	eP	05 07.60	0.0
POO	68.57	285	iPc	05 07.00	-1.5
INK	74.70	22	eP	05 43.50	-0.5
	0.8s		12.00nm	4.9mb	
MBC	78.68	14	eP	06 06.70	0.5
	0.9s		53.00nm	5.4mb	
			PP	08 50.80	
			S	15 42.70	
			SS	20 55.00	
			SSS	24 15.30	
			SKKP	28 21.90	
BMW	81.68	44	eP	06 22.63	-0.1
			e	06 44.60	
GMW	81.78	43	eP	06 20.79	-2.4
RMW	82.45	43	(P)	06 32.40	5.6X
LGPM	82.99	50	eP	06 30.06	0.4
YKA	83.14	27	eP	06 29.20	-0.6
	0.7s		8.10nm	4.8mb	
LBFM	83.60	49	eP	06 35.20	2.3
ORV	84.25	51	eP	06 37.06	1.1
			i	06 42.36	
ARN	84.69	53	eP	06 39.20	0.9
NEW	85.36	42	eP	06 40.84	-0.5
	0.6s		12.65nm	5.1mb	
TNP	87.85	52	eP	06 52.94	-1.0
	0.7s		5.59nm	4.8mb	
GSC	88.89	54	ePd	06 59.27	0.5
			i	07 05.86	
TPNV	88.89	52	eP	07 00.51	1.6
	0.5s		5.38nm	5.0mb	
PEC	88.97	56	eP	06 59.50	0.3
	0.8s		9.54nm	5.1mb	
LRM	89.10	43	eP	06 59.70	-0.1
OBN	89.75	327	ePc	07 01.90	-0.4
	1.4s		68.90nm	5.7mb	
	Z 16s		110.50um	7.4MszX	
			ePcP	07 04.50	
			(pP)	07 09.50	24kmX
DAG	89.85	356	eP	07 02.20	-0.2
HHAI	89.92	46	(P)	07 05.79	2.2
HVU	90.10	47	eP	07 05.42	0.9
DUG	90.55	49	eP	07 06.46	-0.1
	0.6s		2.55nm	4.7mb	
ARUT	90.80	51	(P)	07 10.16	2.4
MSU	91.54	50	eP	07 12.30	1.1
BW06	92.05	45	(P)	07 13.67	0.2
	0.8s		0.95nm	4.3mb	
PV10	93.91	49	eP	07 22.40	0.2
RSSD	95.29	43	(P)	07 29.56	1.2
HFS	97.43	338	eP	07 36.70	-0.8
	0.5s		3.40nm	5.1mb	
NB2	97.68	339	P	07 37.60	-1.1
	0.9s		7.30nm	5.2mb	
MAW	99.10	203	ePDIF	07 43.10	-1.5
	1.1s		2.10nm	4.6mb	
LSZ	119.15	260	iPKPd	12 54.00	-0.1
KIC	144.51	301	PKPc	13 40.40	-1.1
	0.6s		86.00nm		
TIC	144.59	302	PKP	13 40.58	-1.0
	0.6s		68.00nm		
LIC	144.83	301	PKPc	13 41.40	-0.6
	0.6s		106.00nm		
MRA	145.73	129	e(PKP)	13 24.00	-19.0X
TCA	147.06	128	ePKP	13 45.00	-0.3
LPAZ	147.54	100	PKP	13 50.00	2.9X
			LR	02 26.00	
LPB	147.57	100	ePKP	13 51.00	4.1X
CNCB	147.67	101	PKP	13 47.00	-0.3
MOCB	149.40	110	PKP	13 50.60	0.8

S.D. = 1.0 on 88 of 99 obs.

% OCT 04, 1993 00h 05m 58.07± 1.46s
36.849 N ±11.8km 4.582 W ±12.1km
DEPTH = 33.0km (normal)
STRAIT OF GIBRALTAR (385)
mbLg 2.6 (MDD).

EMAL	0.15	125	iPc	06 04.20	0.0
			e	06 08.40	
ELUQ	0.75	19	eP	06 11.90	-0.4
EGUA	0.82	91	eP	06 12.50	-0.6
			e	06 25.20	
ECOG	0.92	62	eP	06 15.60	0.9
EHOR	1.11	332	eP	06 17.60	0.3
			e	06 30.40	
EBAN	1.46	26	eP	06 21.70	-0.7
			e	06 38.70	
EHUE	1.86	58	eP	06 28.70	0.5

S.D. = 0.7 on 7 of 7 obs.

OCT 04, 1993 00h 48m 25.26± 0.73s
19.154 N ± 5.3km 121.236 E ± 6.4km
DEPTH = 64.3 ± 8.1 km
4.8mb (19 obs.)
PHILIPPINE ISLANDS REGION (248)
Mw 5.2 (HRV).

04d 00h

```
      CENTROID, MOMENT TENSOR    (HRV)
      Data Used: GDSN
      L.P.B.: 29S, 41C
      Centroid Location:
      Origin Time       00:48:24.7 0.5
      Lat 19.62N 0.04 Lon 121.51E 0.05
      Dep  67.0 FIX Half-duration  1.0
      Moment Tensor;   Scale 10**16 Nm
        Mrr= 5.27 0.25  Mtt=-1.68 0.39
        Mff=-3.58 0.50  Mrt=-3.06 0.47
        Mrf=-3.24 0.38  Mtf=-4.18 0.35
       Principal Axes:
       T  Val=  6.74  Plg=72  Azm=141
       N        1.63       4       40
       P       -8.37      18      309
      Best Double Couple:Mo=7.6*10**16
       NP1:Strike= 33 Dip=27 Slip=  82
       NP2:       222      63       94

PIP     1.01 215 iPc   48 42.00  -1.9
                iS    48 49.00
CVP     1.55 159 iPc   48 51.00  -0.1
                iS    49 11.00
SZP     1.76 205 ePc   48 55.00   1.0
BCP     2.79 192 eP    49 11.00   2.4
                eS    49 45.00
BAG     2.80 193 eP    49 07.90  -0.9
                iS    49 46.00
QVP     4.51 183 ePd   49 36.50   3.8X
PGP     5.63 183 ePd   49 50.00   1.6
HKC     7.32 297 iP    50 04.20  -7.6X
PLP     8.73 155 eP    50 30.50  -0.8
KUMJ   15.86  31 P     52 05.70  -0.2
KMI    18.13 292 Pd    52 32.00  -2.5
        1.8s   100.00nm          4.7mb
     Z  20s     3.70um          6.1MszX
     N  13s     1.40um
     E  13s     2.30um
                sP    52 45.00
TKSJ   18.67  35 eP    52 42.30   1.6
YONJ   19.29  32 eP    52 49.50   1.7
WKYJ   19.71  38 P     52 52.60   0.3
NST    20.43 264 eP    53 01.50   1.7
TSRJ   20.88  36 P     53 04.80   0.5
CHTO   21.08 273 ePd   53 05.70  -0.7
        1.2s    69.44nm          4.9mb
BDT    21.21 268 eP    53 08.00   0.4
        0.8s    31.10nm          4.7mb
BJI    21.27 349 eP    53 08.50   0.4
        1.0s    11.00nm          4.2mb
     Z  16s     1.46um          4.5MszX
     N  14s     0.90um
                eS    57 00.00
IIDJ   21.95  39 P     53 15.40   0.4
MTMJ   22.66  37 P     53 21.90  -0.2
LZH    22.78 321 Pd    53 23.50   0.1
        2.0s   120.00nm          5.0mb
     Z  16s     2.34um          4.7MszX
     N  13s     1.26um
                pP    53 36.50  54kmX
                sP    53 43.00
                PP    53 55.00
MAT    22.86  37 eP    53 23.00  -0.9
        1.2s    26.56nm          4.5mb
                eS    57 26.00
CHJJ   22.98  39 P     53 23.50  -1.6
IPM    24.47 236 ePd   53 40.90   1.2
OFUJ   26.59  37 eP    53 57.70  -1.5
SHL    27.85 289 eP    54 10.50  -0.5
                eS    58 52.00
HYB    40.49 275 eP    56 09.00   9.3X
WR2    40.94 161 eP    56 00.50  -2.7
        0.4s    14.80nm          5.1mb
                i     58 03.60
GBA    42.30 269 P     56 19.60   5.1X
        0.6s     2.50nm          4.2mb
YAK    43.23   6 eP    56 26.70   5.2X
        1.2s    35.00nm          5.0mb
     E  16s     0.80um
QIS    43.38 155 eP    56 22.30  -0.8
ASPA   44.32 163 iPc   56 30.70  -0.1
        0.6s    15.70nm          5.0mb
WARB   45.37 173 eP    56 28.20 -10.9X
        0.3s     5.00nm
BAL    49.66 185 eP    57 11.30  -1.2
        0.4s     9.00nm          5.2mb
COOL   49.75 180 eP    57 12.70  -0.5
KLB    50.57 184 eP    57 14.50  -4.9X
        0.3s     5.00nm          5.0mb
TOO    60.87 158 eP    58 34.00   0.6
        0.5s    14.00nm          5.3mb
SVW    70.13  31 eP    59 32.40  -0.2
IMA    70.68  26 eP    59 35.60  -0.4
PMR    73.18  30 eP    59 49.70  -1.0
        0.6s    13.80nm          5.1mb
TOA    74.47  29 eP    59 58.80   0.5
INK    77.86  22 eP    00 17.00  -0.1
        1.0s     3.00nm          4.2mb
DAG    81.34 351 eP    00 36.00   0.3
HFS    81.97 331 eP    00 38.00  -1.2
        0.4s     0.70nm          4.0mb
     Z  17s      0.33um          4.8MszX
                 LR    34 04.00
NB2    82.68 333 P     00 42.10  -0.9
        0.9s     3.60nm          4.3mb
KSP    84.39 322 eP    00 52.20   0.4
                 e     00 58.00
BRG    85.74 323 eP    01 09.80  11.3X
GEC2   86.75 321 P     01 04.60   0.9
        1.0s     1.23nm          4.0mb
                 e     01 07.20
                 e     01 15.60
YKA    87.57  23 eP    01 07.60   0.4
        0.9s    14.80nm          5.2mb
TOV   149.26  22 ePKP  08 05.80   1.1
SDV   149.78  24 ePKP  08 06.90   1.3
LPAZ  170.63  74 PKP   08 30.30   2.0X
                 LR    37 40.00
LPB   170.74  75 PKPd  08 32.00   3.9X
CNCB  170.92  77 PKP   08 34.00   5.7X
SIV   176.16  35 PKP   08 31.20   1.8
     S.D. = 1.2  on  45 of  56 obs.
-----------------------------------
   OCT  04, 1993  01h 42m 56.15± 0.91s
   33.659 S ± 5.2km   70.481 W ± 7.8km
   DEPTH =  10.0km  (geophysicist)
 CHILE-ARGENTINA BORDER REGION   (127)
     MD 3.3 (SAN).

PCH     0.05 325 iP    42 59.68   1.3
                iS    43 01.56
FCH     0.37  26 iP    43 03.79   0.0
                iS    43 09.00
TACH    0.38 271 iP    43 04.41   0.4
                iS    43 10.70
CACH    0.47 192 iP    43 05.92   0.2
                iS    43 12.80
PEL     0.54 342 iP    43 07.23   0.1
                iS    43 14.93
ROCH    0.82 327 iP    43 12.01  -0.1
                iS    43 22.92
LNV     0.83 249 iP    43 11.53  -0.6
                iS    43 22.76
LCCH    0.93 281 iP    43 13.32  -0.5
                iS    43 25.92
JACH    0.98 354 iP    43 14.07  -0.8
                iS    43 26.92
     S.D. = 0.7   on   9 of   9 obs.
-----------------------------------
&  OCT  04, 1993  02h 57m 36.70s
   34.013 N          116.343 W
   DEPTH =   1.7km
 SOUTHERN CALIFORNIA              ( 43)
     <PAS-P>. ML 3.6 (PAS), 3.2 (GS).
     Felt.

PEC     0.69 260 ePc   57 49.70  -0.8
                eS    57 58.83
PLM     0.79 213 iPd   57 51.69  -0.7
                eS    58 00.12
SSK     1.14 280 ePc   57 57.77  -1.1
                eS    58 11.35
GSC     1.34 344 ePd   58 01.23  -1.1
GLA     1.59 127 eP    58 03.27  -2.7
ABL     2.52 290 eP    58 17.82  -1.8
TPNV    2.93   1 eP    58 23.10  -2.3
BCH     3.30 292 eP    58 28.39  -2.2
MTUM    3.79 332 (Pn)  58 36.73  -0.9
MRCM    4.05 335 (P)   58 40.21  -1.1
TNP     4.12 350 ePn   58 40.49  -1.8
MMPM    4.20 329 ePn   58 42.74  -0.8
MEMM    4.21 331 (Pn)  58 41.74  -1.6
                ePg   58 54.51
BONR    4.24 339 eP    58 41.79  -2.3
ARUT    4.44  31 eP    58 45.06  -1.8
TUC     4.96 108 P     58 51.18  -3.0
ARN     5.38 310 (P)   58 59.46  -0.6
COE     5.41 308 (P)   58 58.80  -1.7
MSU     5.61  36 ePn   59 01.59  -1.9
NTYM    6.72 312 eP    59 15.61  -3.2
DUG     6.78  24 (P)   59 16.90  -3.0
SRU     6.91  41 eP    59 20.52  -1.3
PV09    7.34  50 eP    59 26.23  -1.7
        23 obs. associated
-----------------------------------
*  OCT  04, 1993  03h 09m 53.42± 2.29s
   45.155 N ±18.7km  150.806 E ±13.5km
   DEPTH =  67.0 ± 24.9 km
   4.4mb (  9 obs.)
 KURIL ISLANDS                    (221)

KUSJ    4.85 247 eP    11 03.80  -1.7
                eS    11 59.70
ASAJ    5.92 263 eP    11 22.40   1.9
HOOJ    6.11 246 eP    11 25.00   1.9
                eS    12 33.00
MRRJ    7.55 252 eP    11 44.20   1.1
                eS    13 07.40
AOMJ    8.93 243 eP    12 01.20  -0.9
                eS    13 36.60
OFUJ    9.10 231 eP    12 02.10  -2.3
                eS    13 38.10
YAK    20.85 332 eP    14 30.40  -1.1
        1.0s   101.00nm          5.1mb
FBA    38.41  37 eP    17 09.20  -0.3
        0.9s     4.41nm          4.4mb
INK    43.86  31 eP    17 54.50   0.4
        1.0s     4.00nm          4.2mb
WRA    66.50 197 P     20 51.00  13.0X
        0.7s     0.90nm
BW06   66.99  52 eP    20 41.50   0.2
        0.9s     2.12nm          4.1mb
GBA    68.77 268 P     20 53.70   1.3
        0.5s     4.00nm          4.6mb
SRU    68.84  56 eP    20 52.81   0.0
RSSD   69.09  48 eP    20 54.00  -0.3
        1.2s     5.83nm          4.4mb
NB2    69.20 340 P     20 53.20  -1.3
        0.4s     1.10nm          4.1mb
HFS    69.37 339 eP    20 53.90  -1.6
        0.4s     2.10nm          4.4mb
PV10   70.19  55 eP    21 02.12   0.9
PV08   70.29  55 eP    21 02.35   0.5
CLL    77.23 334 iP    21 40.60  -0.8
PRU    77.90 333 P     21 45.50   0.4
KHC    78.95 333 P     21 51.60   0.6
        1.0s     5.70nm          4.5mb
GRF    79.19 335 eP    21 53.10   0.9
LTX    79.69  59 eP    21 55.52   0.1
PPD   150.66  45 (PKP) 29 40.00   6.4X
     S.D. = 1.2  on  22 of  24 obs.
-----------------------------------
*  OCT  04, 1993  03h 31m 50.47± 1.00s
   26.814 S ±10.2km   27.114 E ±11.5km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA         (584)
     ML 3.1 (PRE). mbLg 3.1 (BUL).

PRY     0.34 110 eP    32 07.00   9.6X
                S     32 11.90
KSR     0.97 348 eP    32 09.50   0.1
SLR     1.50  45 iPd   32 17.20  -1.0
                S     32 30.00
SEK     1.57 163 iPd   32 30.50  11.3X
                S     32 54.50
BLF     2.43 199 eP    32 43.20  11.6X
                S     33 10.70
BFT     2.86  68 eP    32 38.50   0.7
BUL     6.78  12 iPn   33 33.60   0.3
                iSn   34 43.70
                iSg   35 12.50
SUR     7.80 223 eP    33 47.50  -0.1
                S     35 15.00
     S.D. = 0.9  on   5 of   8 obs.
-----------------------------------
%  OCT  04, 1993  03h 40m 35.05± 1.93s
   17.849 N ±22.2km   66.791 W ± 7.1km
   DEPTH =  25.1 ± 12.5 km
 PUERTO RICO REGION               ( 90)

PORP    0.25  36 P     40 41.30  -0.1
```

```
CLLP     0.31  42 P      40 42.20    0.0
MGP      0.32 299 P      40 42.40    0.0
MCP      0.64 332 P      40 47.70    0.1
SJG      0.66  67 P      40 48.00    0.0
                  S      40 58.00
CPD      0.85  77 P      40 51.30    0.1
LPR      0.99  62 P      40 53.20   -0.1
                  S      41 08.00
     S.D. = 0.1  on   7 of   7 obs.
-------------------------------------
*  OCT  04, 1993  04h 02m 49.33± 2.66s
   34.638 S ±24.3km   68.007 W ± 9.4km
   DEPTH = 103.5 ± 22.2 km
 MENDOZA PROVINCE, ARGENTINA      (139)

MDZ      1.89 338 eP     03 22.80    1.7
                  e      03 52.60
                  e      04 01.20
SAN      2.50 297 iP     03 29.50    0.3
                  iS     04 02.70
PEL      2.68 303 iP     03 31.00   -0.7
                  iS     04 09.50
RTCV     2.80 351 e(P)c  03 32.20   -1.1
MRA      2.94  41 e(P)c  03 35.30    0.3
CFA      3.03 356 ePd    03 36.00   -0.4
                  S      04 23.00
ZON      3.13 349 eP     03 37.00   -0.8
RTCB     3.21 348 ePc    03 38.20   -0.7
IHA      3.43 297 e(P)   03 46.00    4.3X
                  iS     04 29.80
TCA      4.37  42 iP     03 54.10   -0.6
                  (S)    05 00.50
RTPR     4.50  17 eP     03 57.30    0.8
                  S      05 13.40
RTRS     4.62 344 ePd    03 59.00    0.9
CYA      6.46  18 iPd    04 23.50    0.1
                  S      06 15.50
SLA     10.11  13 e(P)   05 39.00   25.7X
CNCB    17.75   0 eP     06 52.00    0.1
LPB     18.03 360 (P)    06 48.00   -7.1X
LPAZ    18.27 360 (P)    06 53.80   -4.5X
     S.D. = 0.9  on  13 of  17 obs.
-------------------------------------
   OCT  04, 1993  04h 34m 39.63± 0.80s
    1.935 S ± 4.4km   78.082 W ± 6.4km
   DEPTH =  65.9 ±  7.6 km
   5.0mb ( 26 obs.)
 ECUADOR                          (107)

PSO      3.20  14 eP     35 28.50   -0.4
BOG      7.65  32 eP     36 33.00    1.8
                  iS     38 35.00
NNA     10.06 173 iPd    37 03.60   -0.4
        0.7s    54.79nm          5.7mb
                  eS     38 50.50
UPA     10.94 352 ePd    37 14.41   -1.4
                  eS     37 43.67
DVD     11.19 337 ePd    37 18.48   -0.6
                  eS     37 55.29
ECO     11.34 352 eP     37 02.08  -19.1X
BRU     11.57 337 iP     37 26.32    1.6
SDV     13.06  35 eP     37 45.00    0.7
TOV     14.27  35 eP     38 03.50    3.5X
ARE     15.83 156 eP     38 26.00    5.8X
CAR     16.61  42 eP     38 12.00  -17.9X
LPAZ    17.30 146 P      38 39.40    0.3
                  (S)    42 51.10
LPB     17.52 146 eP     38 41.00   -0.5
        1.0s    34.00nm          4.5mb
      Z  25s     1.20um
                  (S)    43 23.00
                  LR     46 10.00
CNCB    17.81 147 Pc     38 44.30   -1.0
                  S      44 24.00
CCH     19.33 143 P      39 01.20   -1.7
MOCB    22.71 149 P      39 39.60    2.3
BAO     32.63 116 eP     41 07.00   -0.7
                  i      52 07.00
PPD     32.81 130 eP     41 09.60    0.5
PRM     36.05 354 eP     41 36.33   -0.3
UYO     39.07 338 iPd    42 01.30   -0.7
MIAR    39.10 340 eP     42 00.40   -1.8
        0.9s     4.54nm          4.4mb
LTX     39.58 324 eP     42 06.56    0.2
CVL     39.72 360 eP     42 07.67    0.4
WMOK    41.33 334 ePc    42 20.22   -0.4
        1.1s    32.86nm          5.0mb
                  ePcP   44 17.53
FVM     41.33 345 eP     42 18.73   -1.8
        1.2s    51.34nm          5.2mb
TBR     43.02   4 eP     42 34.65    0.4
ALQ     45.31 327 ePc    42 53.64    0.6
        0.9s    55.29nm          5.4mb
TUC     46.03 321 ePc    42 59.87    1.2
        0.8s    16.37nm          5.0mb
LBNH    46.30   6 eP     43 01.12    0.6
        1.0s    24.87nm          5.1mb
GAC     47.49   2 eP     43 09.50   -0.3
GLD     48.37 332 eP     43 17.33    0.3
        1.3s    35.39nm          5.2mb
LMN     49.01  12 eP     43 22.00    0.3
GLA     49.13 318 eP     43 23.31    0.5
PV08    49.18 328 eP     43 23.55    0.1
PV10    49.24 328 ePc    43 22.78   -1.1
PV09    49.38 328 ePc    43 24.43   -0.5
SRU     50.57 327 eP     43 33.70   -0.2
PLM     50.67 317 eP     43 35.43    0.7
PEC     51.19 318 ePd    43 39.37    0.8
        0.9s    14.80nm          5.0mb
ARUT    51.29 324 eP     43 39.83    0.4
RSSD    51.39 336 eP     43 40.49    0.3
        0.9s    20.08nm          5.1mb
GSC     51.79 319 ePc    43 43.46    0.3
DAU     51.90 328 eP     43 44.75    0.6
TPNV    52.45 321 eP     43 49.13    1.0
        0.9s    14.60nm          5.0mb
                  e      44 07.67
DUG     52.58 327 ePd    43 48.93   -0.1
        1.3s    36.49nm          5.2mb
BW06    52.78 331 ePc    43 49.10   -1.5
        1.1s    14.09nm          4.9mb
ABL     53.13 317 eP     43 53.19   -0.1
HVU     53.68 328 ePd    43 56.82   -0.2
                  e      44 07.30
ULM     54.18 346 eP     44 01.00    0.6
PTI     54.24 329 eP     44 01.15   -0.1
BONR    54.36 321 eP     44 02.79    0.5
HHAI    54.55 330 ePd    44 03.61    0.1
MEMM    54.59 320 eP     44 04.53    0.9
                  e      44 26.34
MMPM    54.61 320 eP     44 04.52    0.3
JAQ     55.58   2 eP     44 08.00   -2.5
CMB     55.73 320 ePc    44 11.65   -0.3
        1.4s    10.00nm          4.7mb
MHC     56.15 319 ePc    44 15.24    0.1
        1.1s    10.00nm          4.8mb
LRM     56.43 332 iPd    44 17.20    0.0
ORV     57.32 321 eP     44 23.34    0.1
NTYM    57.41 319 eP     44 23.53   -0.2
MIN     57.84 322 ePc    44 25.95   -1.1
        1.2s    10.00nm          4.8mb
WDC     58.56 321 ePc    44 29.78   -2.1
        0.6s     8.95nm          5.1mb
LBFM    58.60 322 eP     44 31.78   -0.6
LGPM    58.93 321 ePc    44 33.73   -0.9
KMPM    59.47 320 eP     44 37.56   -0.7
VIPM    59.77 326 P      44 40.99    0.6
JBO     59.94 327 P      44 41.82    0.5
CROR    60.27 326 P      44 44.83    1.2
NEW     60.41 331 eP     44 43.80   -0.7
        0.9s    36.73nm          5.5mb
                  e      45 06.29
VGB     60.49 327 eP     44 45.52    0.4
WAH2    60.63 328 P      44 46.08    0.1
VBEM    60.65 326 P      44 47.28    0.9
DPW     60.67 330 eP     44 46.06   -0.3
SSOR    61.02 325 P      44 48.42   -0.4
SAW     61.16 329 P      44 50.08    0.4
RNO     61.20 324 P      44 50.77    0.7
ASR     61.33 327 P      44 51.70    0.8
WTV     61.45 329 P      44 52.01    0.4
LON     61.82 327 eP     44 53.64   -0.5
FMW     61.86 328 P      44 54.88    0.3
KMOR    62.07 326 P      44 56.73    0.9
BMW     62.42 326 eP     44 57.67   -0.5
JCW     62.78 329 P      45 00.09   -0.3
GMW     62.84 328 eP     45 00.55   -0.2
                  e      45 21.20
YKA     69.93 343 eP     45 44.20   -1.3
        0.9s     5.40nm          4.5mb
LIC     73.38  83 P      46 06.69   -0.3
        1.3s    32.00nm          5.1mb
TIC     73.42  83 P      46 07.27    0.0
        1.0s    28.00nm          5.1mb
KIC     73.68  83 P      46 08.71    0.0
        0.9s    30.00nm          5.2mb
INK     79.65 342 eP     46 42.00    0.9
        1.0s     8.00nm          4.6mb
FBA     83.25 336 ePd    46 59.94   -0.1
        0.9s     3.57nm          4.4mb
NVL     88.16 161 iPd    47 26.00    1.9
        1.0s    23.00nm          5.3mb
WR2    141.45 234 ePKP   53 58.50   -7.3X
        0.9s     2.90nm
SSE    145.75 330 PKPc   54 13.00    0.1
        1.0s    32.00nm
LZH    145.97 357 iPKPd  54 15.50    2.1X
        1.5s   151.00nm
                  pP     55 08.00
GBA    153.15  63 PKP    54 33.40    8.8X
        0.8s     2.50nm
     S.D. = 0.9  on  88 of  95 obs.
-------------------------------------
*  OCT  04, 1993  05h 46m 09.44± 0.78s
   43.059 N ± 7.9km    0.302 W ± 6.9km
   DEPTH =  10.0km  (geophysicist)
 PYRENEES                         (378)
      ML 2.7 (LDG). mbLg 2.4 (MDD).
      Felt (II) at Asson and
      Pierrefitte, France.

BTH      0.09  47 iPgd   46 19.90    7.8X
                  iS     46 21.20
EPF      0.47  93 Pg     46 19.40    0.4
                  Sg     46 27.00
EGRA     0.86 181 eP     46 25.80   -0.2
                  e      46 37.30
ELIZ     0.90 277 eP     46 27.00    0.2
ECRI     1.68 255 eP     46 44.00    4.9X
                  eS     47 06.30
LPO      1.95  33 Pg     46 46.40    3.5X
                  Sg     47 13.80
LFF      2.03  21 Pg     46 48.70    4.7X
                  Sg     47 16.30
CAF      2.53  42 Pn     46 51.00   -0.2
                  Pg     46 58.40
                  Sg     47 30.50
RJF      2.60  30 Pn     46 52.10   -0.1
                  Pg     46 59.30
                  Sg     47 34.30
LSF      3.45  22 Pg     47 14.40   10.1X
                  Sg     48 00.30
MFF      3.54   2 Pg     47 17.40   11.8X
                  Sg     48 03.20
TCF      3.69  28 Pg     47 19.30   11.5X
                  Sg     48 07.20
MAF      3.77  32 Pg     47 21.80   13.0X
                  Sg     48 10.50
BGF      4.15  32 Pg     47 29.50   15.2X
                  Sg     48 21.40
     S.D. = 0.4  on   5 of  14 obs.
-------------------------------------
*  OCT  04, 1993  06h 29m 29.35± 0.99s
    6.171 S ±12.5km  142.609 E ±11.4km
   DEPTH =  33.0km  (normal)
   4.2mb (  2 obs.)
 NEW GUINEA, PAPUA NEW GUINEA     (202)

MNDI     1.04  89 iPc    29 47.80   -0.1
                  eS     30 02.00
WWKK     2.73  22 ePd    30 11.80    0.0
PMG      5.54 126 eP     30 51.00   -0.6
MTN     13.12 239 eP     32 35.50   -0.5
                  eS     34 56.00
CTA     14.28 166 iPc    33 01.90   10.6X
QIS     14.60 191 eP     33 01.00    5.5X
WR2     15.87 210 eP     33 10.10   -1.9
                  i      33 18.30
                  eS     36 02.00
                  iScP   42 15.60
ASPA    19.31 205 iPd    33 56.90    2.2
        1.2s    49.00nm          4.6mb
                  iS     37 23.60
STK     25.60 182 iPd    34 58.00    0.7
        1.5s     3.30nm          3.7mb
KMI     49.71 310 Pd     38 27.50    6.6X
        1.0s    50.00nm          5.5mb X
     S.D. = 1.5  on   7 of  10 obs.
-------------------------------------
   OCT  04, 1993  06h 39m 16.12± 0.28s
   30.599 N ± 2.6km  137.671 E ± 2.5km
```

04d 06h

```
  DEPTH = 479.9 ±  2.9 km
  5.3mb (128 obs.)
 SOUTH OF HONSHU, JAPAN          (211)
      Mw 5.8 (HRV).
      CENTROID, MOMENT TENSOR    (   )
      Data Used: GDSN
      L.P.B.: 40S, 79C
      Centroid Location:
      Origin Time        06:39:19.7 0.2
      Lat 30.70N 0.02 Lon 137.93E 0.03
      Dep 487.5 1.3 Half-duration  1.9
      Moment Tensor;   Scale 10**17 Nm
        Mrr=-3.12 0.07  Mtt= 4.56 0.12
        Mff=-1.45 0.13  Mrt= 0.80 0.12
        Mrf=-2.15 0.11  Mtf= 1.62 0.10
      Principal Axes:
       T  Val=  4.98  Plg= 2  Azm=346
       N       -0.12      37       78
       P       -4.86      53      254
      Best Double Couple:Mo=4.9*10**17
       NP1:Strike= 45 Dip=54 Slip=-138
       NP2:       287     57      -44

WKYJ    4.02 335 iP+   40 35.30   1.2
                eS     41 38.60
TKSJ    4.56 319 iP+   40 40.40   1.6
                eS     41 48.60
IIDJ    4.87   2 iP+   40 41.50  -0.2
                S      41 49.60
TSRJ    5.12 344 iP+   40 44.70   0.7
                S      41 56.60
CHJJ    5.55  11 P     40 46.20  -1.8
                S      41 56.80
SHK     5.76 314 iPc   40 51.30   1.2
      0.9s   756.30nm          5.8mb
YONJ    5.78 323 iP+   40 51.70   1.3
                eS     42 10.10
KAGJ    5.86 277 P     40 53.50   2.4
                eS     42 13.90
MAJO    5.94   4 iPc   40 50.33  -1.7
MAT     5.94   4 iPc   40 50.20  -1.8
                eS     42 05.00
KAKJ    5.97  20 P     40 48.20  -4.0X
                eS     42 02.20
MTMJ    5.97   1 P     40 51.10  -1.2
KUMJ    6.15 290 P     40 56.50   2.5
SHNJ    6.57 304 iP+   40 59.70   1.4
                eS     42 22.90
NIIJ    6.72   9 P     40 56.90  -2.9
                S      42 17.90
YAMJ    7.80  14 eP    41 08.10  -3.1X
                eS     42 38.60
OFUJ    9.08  20 eP    41 22.90  -1.9
                eS     43 03.70
AOMJ   10.18  12 eP    41 36.30  -0.2
                eS     43 29.00
MRRJ   12.11  12 P     41 56.30  -0.9
                eS     44 06.40
HOOJ   12.59  19 P     42 02.00  -0.3
                eS     44 18.60
SAP    12.77  12 eP    42 03.00  -1.2
                iS     44 20.20
VLA    13.32 341 iPd   42 09.00  -0.9
     E  11s     2.00um
                iS     44 30.00
KUSJ   13.68  22 P     42 13.40  -0.2
                eS     44 38.80
ASAJ   14.06  15 P     42 17.40  -0.2
SSE    14.17 276 Pc    42 17.00  -1.8
      1.0s   110.00nm          5.4mb
     Z  16s     2.60um          6.4MszX
                PP     42 47.50
                sS     44 48.00
MDJ    15.37 338 iPc   42 31.40   0.4
      1.8s  1410.00nm          6.3mb
                sP     44 24.00
                ScS    53 29.00
DL2    15.56 306 eP    42 33.00   0.2
      0.8s   100.00nm          5.5mb
                S      45 11.00
                ScS    53 28.50
SNY    15.94 319 iPc   42 37.50   0.8
      1.5s  1260.00nm          6.3mb
                sP     44 28.00
                iS     45 20.00
                ScS    53 30.50
NJ2    16.15 280 Pd    42 38.60  -0.2
      1.0s   480.00nm          6.0mb
CN2    16.36 327 Pc    42 41.70   0.9
      1.0s   420.00nm          6.0mb
                eS     45 31.00
                eScP   49 52.00
                eScS   53 30.00
YSS    16.85  12 iPc   42 45.70   0.0
     Z  12s     1.00um
     N  12s     1.00um
                iS     45 39.90
QZH    17.79 256 iPd   42 56.00   1.0
                S      45 56.00
TIA    18.03 294 Pd    42 58.10   0.8
      0.8s   540.00nm          6.2mb
                S      45 58.00
GUMO   18.18 157 eP    42 58.95   0.0
      1.8s  *******nm          7.3mb X
PJG    18.18 157 eP    42 58.90   0.0
GUA    18.25 157 eP    42 58.70  -0.8
      0.7s  2202.74nm          6.9mb X
CVP    19.31 232 ePd   43 11.00   1.2
PIP    19.72 236 eP    43 14.00   0.2
BJI    19.87 304 eP    43 15.00   0.0
      1.0s    33.00nm          4.9mb
                esP    45 20.00
WHN    20.08 276 Pd    43 18.50   1.4
      0.5s   290.00nm          6.1mb
                sP     45 20.00
                iS     46 34.00
GQP    21.74 224 ePd   43 33.00   0.3
TIY    22.02 296 Pd    43 36.00   0.8
      0.8s   200.00nm          5.8mb
                S      47 06.00
PLP    22.65 214 ePd   43 40.80  -0.2
GZH    22.93 257 P     43 44.00   0.5
                S      47 20.00
HHC    23.46 303 Pd    43 48.50   0.2
      1.2s    28.00nm          4.7mb
                sP     46 03.00
XAN    24.50 286 Pd    43 57.50  -0.2
      0.5s   240.00nm          6.0mb
                S      47 40.00
BTO    24.51 302 P     43 57.00  -0.8
      0.8s    36.00nm          5.0mb
                sP     46 11.00
                S      47 43.00
PET    27.13  28 eP    44 20.50  -0.2
      1.0s   200.00nm          5.6mb
                e      46 38.00
                e      48 26.00
GYA    27.51 269 iPd   44 24.00  -0.6
      1.0s   430.00nm          5.9mb
                sP     46 40.00
                S      48 30.00
                ScP    50 24.00
                PcS    51 10.00
QIZ    27.68 252 P     44 27.10   1.1
                S      48 37.50
CIT    27.77 327 eP    44 28.00   1.5
LZH    28.69 290 iPd   44 34.50  -0.3
      1.5s   380.00nm          5.7mb
                pP     45 59.00
                sP     46 55.00
                iS     48 48.00
                ScS    54 19.00
CD2    29.08 279 iPd   44 37.90  -0.3
      0.6s   560.00nm          6.2mb
                pP     46 02.00
                sP     46 56.00
                S      48 54.00
KMI    31.28 269 Pd    44 57.00  -0.4
      2.0s   460.00nm          5.6mb
                pP     46 22.00 483kmX
YAK    31.85 353 eP    45 00.00  -1.5
      1.0s   378.00nm          5.8mb
                iPPP   46 25.00
                i      47 13.00
                iS     49 34.00
                eSSS   52 00.00
                i      54 31.00
GTA    32.04 296 iPd   45 03.50  -0.1
      1.0s   180.00nm          5.5mb
                PP     46 40.00
                sP     47 26.00
                PcP    47 39.50
                S      49 40.00
                ScP    50 37.00
                PcS    51 23.50
                ScS    54 34.00
TSM    32.14 219 eP    45 05.00   0.6
ZAK    32.37 318 iPd   45 06.30   0.3
      1.3s    26.00nm          4.6mb
                e      46 35.00
                eSP    47 40.00
                eS     49 46.00
SMY    34.52  40 (P)   45 25.46   1.5
      1.1s   106.16nm          5.2mb
LOE    35.20 256 iPd   45 30.00  -0.1
CHTO   36.91 261 iPd   45 45.00   0.7
                eS     50 54.20
NST    37.38 255 eP    45 48.50   0.4
BDT    37.57 258 iPd   45 52.00   2.4
      0.6s   314.40nm          6.0mb
NNT    39.32 251 iPd   46 04.70   0.7
ADK    39.55  44 eP    46 04.13  -1.3
      0.6s    23.26nm          4.8mb
LSA    40.01 281 Pd    46 11.40   1.3
      0.6s    34.00nm          5.0mb
                sP     48 34.00
                S      51 42.00
SHL    40.50 275 iP    46 13.50  -0.2
      1.0s    22.50nm          4.6mb
                eS     51 46.00
PMG    40.80 166 eP    46 14.00  -2.0
WMQ    41.34 303 iPd   46 20.50   0.3
      2.0s   280.00nm          5.4mb
                S      52 00.00
TIK    41.37 356 iPd   46 21.00   1.1
      1.0s   110.00nm          5.3mb
     Z  12s     0.70um          4.7MszX
                i      47 49.00
                ePPP   48 07.00
                iS     52 00.00
SNG    41.78 244 iPd   46 25.00   1.1
      1.7s  1230.77nm          6.1mb
IPM    43.13 240 ePd   46 34.80   0.2
      1.0s   246.50nm          5.7mb
                e      48 14.50
KGM    43.19 235 ePc   46 36.00   1.0
      1.1s   197.10nm          5.5mb
MTN    43.65 189 eP    46 37.30  -1.2
      0.5s    68.00nm          5.4mb
KHKI   44.15 212 ePd   46 42.90   0.4
                e      49 51.10
ILT    45.17  22 iPc   46 49.00  -0.9
      1.0s   308.00nm          5.7mb
                ipP    48 24.80 514kmX
                i      53 02.40
                e      55 56.00
KNA    46.87 192 eP    47 03.20  -0.2
LEM    47.05 223 iPc   47 05.00  -0.1
NRI    47.81 339 ePc   47 09.00  -1.1
      1.9s    65.00nm          4.7mb
     Z  18s     4.20um          5.5Msz
                i      48 28.00
                e      48 41.00
                i      49 11.00
                ePPP   49 29.00
                iS     53 28.00
ANM    48.71  29 eP    47 17.80   0.8
SDN    49.59  41 eP    47 21.75  -1.9
      0.4s    46.12nm          5.2mb
WRA    50.35 184 P     47 28.50  -1.1
      0.7s    38.60nm          4.9mb
WR2    50.36 184 iPd   47 28.00  -1.7
      1.0s    21.80nm          4.5mb
                iPcP   48 39.70
                iPP    49 02.10
                iS     53 53.80
KSH    50.42 298 eP    47 31.00   0.8
      0.3s   100.00nm          5.7mb
QIS    50.89 178 iPc   47 31.80  -1.8
FRU    50.91 302 eP    47 34.00   0.3
      1.8s   270.00nm          5.3mb
                (pP)   48 41.00 318kmX
                e      49 56.00
                eS     54 14.00
                e      56 31.00
                e      58 01.00
CTAO   51.07 170 eP    47 33.44  -1.4
      0.6s    19.72nm          4.7mb
                epP    49 12.38 514kmX
NDI    52.02 284 iPd   47 40.80  -1.1
      0.7s   301.37nm          5.7mb
```

```
                eS    54 27.00
TTA    52.50  32 eP    47 43.46  -1.6
       0.9s    14.06nm          4.3mb X
SVW    52.53  34 eP    47 45.25   0.0
       0.7s    56.18nm          5.0mb
AUP    53.56  36 (P)   47 51.49  -1.3
IMA    53.81  28 eP    47 53.98  -0.5
       0.6s     9.29nm          4.3mb X
KDC    54.06  38 eP    47 55.90  -0.3
ASPA   54.08 184 iPd   47 55.60  -1.1
       0.6s    80.70nm          5.2mb
                iPcP   48 54.70
                iS     54 54.80
                iScS   56 57.10
CP2    54.17  34 iPc   47 57.67   0.4
CRP    54.22  34 iPc   47 57.37  -0.1
                epP    49 28.81 454kmX
MBL    54.24 201 iPd   47 56.90  -0.9
       0.5s    99.00nm          5.4mb
SLKM   55.17  35 P     48 03.59  -0.4
PMR    55.67  34 ePc   48 06.17  -1.2
       0.7s    31.88nm          4.8mb
FBA    56.21  30 ePc   48 10.70  -0.4
       0.6s    22.06nm          4.7mb
                e      48 29.45
TOA    57.04  33 eP    48 17.40   0.4
KLU    57.21  34 ePd   48 17.75  -0.4
WARB   57.44 192 eP    48 09.00 -11.0X
       0.3s    21.00nm
GBA    57.68 267 Pd    48 21.60  -0.3
       0.6s    40.00nm          5.0mb
POO    58.60 274 iPd   48 27.00  -1.2
       0.9s   163.03nm          5.4mb
BALM   58.97  34 eP    48 29.41  -0.8
ARU    59.21 321 iPd   48 31.00  -0.7
       0.6s   100.00nm          5.4mb
                e      49 13.00
                e      50 11.00
                iS     56 01.00
                e      56 12.00
DZM    59.21 149 iPc   48 31.30  -0.9
MEEK   59.76 200 eP    48 34.00  -1.7
INK    61.52  25 eP    48 46.50  -0.3
       0.5s    25.00nm          5.0mb
FORT   61.72 189 iPd   48 47.90  -0.5
       0.5s    43.00nm          5.2mb
ARMA   62.12 166 iPd   48 51.60   0.4
STK    62.25 176 iPd   48 51.00  -0.9
       0.5s    15.60nm          4.8mb
MRWA   62.97 201 iPc   48 55.70  -0.9
       0.3s    25.00nm          5.2mb
COOL   63.13 196 eP    48 56.70  -0.9
       0.7s    38.00nm          5.0mb
SIT    63.33  38 eP    48 58.43  -0.2
       0.6s     7.39nm          4.4mb
MAIO   63.82 298 iPc   49 03.00   0.9
                eSn    57 04.00
BAL    64.05 200 eP    49 03.50   0.0
       0.3s    18.00nm          5.2mb
ASH    64.12 300 eP    49 04.50   0.6
KLB    64.67 199 eP    49 06.00  -1.4
       0.7s    27.00nm          5.0mb
MUN    65.48 200 eP    49 11.60  -0.9
       0.3s   225.00nm          6.3mb
TOO    68.21 173 eP    49 30.00   0.8
       0.5s    15.00nm          4.9mb
RES    69.57  13 eP    49 37.00   0.0
MOS    70.57 324 iPd   49 43.00  -0.1
       1.8s   330.00nm          5.6mb
                e      52 11.00
                iS     58 17.00
TRO    70.78 341 eP    49 43.50  -0.6
YKA    70.93  28 eP    49 44.70  -0.4
       0.7s    17.70nm          4.7mb
GRO    71.06 310 eP    49 46.00  -0.2
       1.5s   320.00nm          5.7mb
     Z 12s      1.50um          5.5MszX
     E 14s      1.00um
                i      52 18.00
                iS     58 24.00
                i      59 04.00
OBN    71.38 323 eP-   49 47.00  -0.8
       1.5s   210.00nm          5.5mb
     Z 16s      1.10um          5.2MszX
     N 14s      0.50um
     E 16s      0.60um
                e      50 04.00
```

```
                e      51 25.00
                e      52 19.00
                iS     58 24.00
                iPPS   59 04.00
                eSS    03 18.00
DAG    71.89 354 iPc   49 52.00   1.5
       1.1s    79.75nm          5.2mb
MTA    72.34 308 iPd-  49 52.80  -0.9
       0.8s    60.00nm          5.2mb
                eS     58 38.60
                ePS    59 13.00
PYA    72.49 311 iPc   49 54.50  -0.1
       1.5s   130.00nm          5.3mb
GMW    74.00  44 eP    50 03.79   0.7
                ePcP   50 21.62
                epP    51 40.23 438kmX
JCW    74.20  43 P     50 05.03   0.8
BMW    74.23  45 eP    50 05.19   0.7
KMOR   74.46  46 P     50 06.60   0.8
RMW    74.62  44 eP    50 07.41   0.7
SOC    74.86 312 iPc-  50 08.00   0.1
       0.8s    10.00nm          4.4mb
                eS     59 04.00
FMW    74.96  44 P     50 09.08   0.4
LON    74.96  44 eP    50 08.62   0.1
SHW    74.97  45 eP    50 09.69   1.0
RNO    75.11  48 P     50 10.78   1.3
DHR    75.13 292 eP    50 08.20  -1.5
ASR    75.38  45 P     50 11.52   0.6
SSOR   75.47  46 P     50 12.32   0.9
WTV    75.60  43 P     50 12.14   0.1
ANN    75.77 314 iPd   50 14.00   1.1
                eS     59 14.00
DBO    75.80  48 P     50 14.14   0.9
VBEM   75.91  46 P     50 14.49   0.5
SAW    75.93  43 P     50 13.94   0.1
NSS    76.17 339 eP    50 12.93  -1.8
VGB    76.19  45 eP    50 15.81   0.5
WAH2   76.30  44 P     50 16.63   0.8
CROR   76.32  46 P     50 16.70   0.6
FHC    76.43  51 ePd   50 18.25   1.6
       1.1s   126.24nm          5.4mb
KMPM   76.52  51 eP    50 18.22   0.9
DPW    76.54  42 eP    50 17.25   0.0
                epP    51 54.35 438kmX
VIPM   76.78  46 P     50 19.23   0.5
JBO    76.79  45 P     50 19.16   0.6
YBH    76.82  49 eP    50 19.91   1.0
       1.1s    30.00nm          4.7mb
     Z 19s      0.10um          4.2Msz
                eSKS   59 29.52
                eSS    02 36.52
                eLQ    07 02.52
                eLR    11 11.52
NEW    76.96  41 ePd   50 19.34  -0.1
       1.1s    85.87nm          5.2mb
LGPM   77.14  50 eP    50 21.13   0.4
                epP    51 58.28 437kmX
UPP    77.33 333 iP    50 19.00  -2.1
WDC    77.50  50 eP    50 22.84   0.4
       1.3s    58.66nm          4.9mb
LNOR   77.52  44 P     50 23.13   0.6
LBFM   77.54  49 eP    50 23.48   0.5
                epP    52 04.30 456kmX
MIN    78.23  50 eP    50 26.40  -0.2
       1.5s    40.00nm          4.7mb
NTYM   78.50  52 eP    50 28.09   0.3
HFS    78.62 335 eP    50 27.20  -0.9
       0.5s   101.30nm          5.6mb
     Z 17s      0.39um          4.8MszX
                LR     23 38.00
RYD    78.69 292 eP    50 28.80  -0.4
ORV    78.70  51 eP    50 28.91   0.0
       1.2s    50.00nm          4.9mb
     Z 19s      0.10um          4.2Msz
                e      52 10.67
                eSKS   59 49.67
                eLQ    07 37.67
                eLR    11 17.67
NB2    78.87 336 P     50 28.90  -0.5
       0.6s    51.90nm          5.2mb
MOL    78.96 339 eP    50 29.51  -0.3
MJMA   79.20 294 iPd   50 31.33  -0.5
COE    79.74  53 eP    50 35.17   0.8
ARN    79.79  53 ePc   50 35.18   0.5
SAO    80.15  53 ePd   50 36.35  -0.2
       1.2s    57.49nm          5.0mb
```

```
CMB    80.22  52 eP    50 37.35   0.4
       1.1s    50.00nm          5.0mb
     Z 20s      0.20um          4.5Msz
                e      52 18.31
                eSKS   00 06.31
                eLQ    08 05.31
                eLR    11 57.31
QASM   80.47 295 eP    50 37.67  -0.8
CLI    80.84 319 iPd   50 40.50   0.6
LRM    80.97  42 eP    50 41.60   0.7
                e      52 19.00
SUE    80.97 339 eP    50 40.83   0.6
PTT    81.12 320 eP    50 42.00   0.6
CFR    81.12 318 ePd   50 41.00  -0.3
MMPM   81.36  51 eP    50 43.79   0.6
MEMM   81.39  51 eP    50 44.62   1.7
UQSK   81.54 295 iPd   50 45.33   1.3
VRI    81.55 319 ePd   50 44.50   0.9
BONR   81.66  51 ePc   50 45.27   0.5
                epP    52 27.82 459kmX
AFIF   81.72 293 iPd   50 47.07   2.1
MTUM   81.81  51 eP    50 45.72   0.4
BCH    81.91  54 eP    50 46.51   0.7
ISR    82.08 318 eP    50 47.50   1.1
AKU    82.22 350 iPd   50 47.90   1.4
       1.9s   315.79nm          5.6mb
UZH    82.31 323 eP    50 50.00   2.7
       1.2s   120.00nm          5.4mb
TNP    82.32  50 ePc   50 48.43   0.5
       1.1s   102.39nm          5.3mb
HHAI   82.46  44 ePd   50 50.16   1.8
KMSA   82.50 289 iPd   50 48.00  -0.9
OJC    82.58 325 eP    50 48.60  -0.1
ABL    82.69  54 eP    50 50.21   0.4
                epP    52 32.43 456kmX
PTI    82.71  44 eP    50 51.10   1.4
MUD    82.92 334 iPc   50 50.00  -0.2
       1.2s    78.00nm          5.2mb
SPC    83.01 324 iP    50 50.50  -0.6
HVU    83.09  45 eP    50 52.70   1.1
                epP    52 29.88 430kmX
CSS    83.48 307 ePd   50 53.00  -0.5
TPNV   83.58  51 eP    50 54.54   0.3
       0.8s    46.14nm          5.2mb
FRB    83.71  11 eP    50 55.50   1.5
       0.6s    12.00nm          4.7mb
KSP    83.86 327 iPd   50 54.90  -0.2
       1.1s    82.00nm          5.3mb
                e      52 47.00
PVL    83.92 317 iP    50 56.00   0.5
DUG    83.98  47 eP    50 56.68   0.6
       0.7s    20.82nm          4.9mb
                epP    52 40.50 463kmX
PSZ    84.00 323 iPd   50 56.40   0.4
SSK    84.09  54 eP    50 57.05   0.2
GSC    84.11  52 eP    50 56.93   0.1
                epP    52 35.33 435kmX
BW06   84.43  43 ePd   50 58.69   0.3
       1.2s    44.46nm          5.0mb
BZS    84.55 321 eP    50 49.50  -9.1X
PEC    84.64  54 eP    50 59.29  -0.1
       0.9s    41.70nm          5.1mb
                e      51 18.06
                epP    52 37.07 431kmX
DHJN   84.68 287 eP    51 00.90   0.9
DAU    84.82  46 ePc   51 01.43   1.0
                epP    52 38.34 426kmX
SRO    84.88 324 eP    51 00.70   0.5
BRG    84.92 328 iP    51 00.40   0.1
       2.2s    85.00nm          5.0mb
                e      52 52.40
ARUT   84.96  49 ePd   51 01.47   0.5
CLL    85.04 329 iPc   51 00.50  -0.4
       1.6s   105.00nm          5.3mb
                e      52 44.00
RZN    85.20 316 iP    51 02.00  -0.1
ZST    85.24 325 iP    51 03.10   1.2
PRU    85.26 327 P     51 01.90  -0.1
       1.6s   105.00nm          5.3mb
                e      51 09.00
                e      52 53.20
MSU    85.35  48 ePd   51 04.29   1.3
                epP    52 46.59 453kmX
EMUT   85.44  46 eP    51 04.38   1.0
                epP    52 46.53 452kmX
VTS    85.54 318 iP    51 03.00  -0.7
MMB    85.85 317 iPc   51 04.00  -1.0
```

04d 06h

```
SRU     86.04  46 eP     51 05.44  -0.8
HOF     86.25 329 iPd    51 06.40  -0.4
KHC     86.31 327 P      51 07.00  -0.1
        1.0s    17.50nm          4.7mb
                e        52 50.00
                e        54 00.00
GEC2    86.45 327 P      51 07.00  -0.9
        0.7s     8.63nm          4.6mb
                e        51 12.70
                PcP      51 28.30
ULM     86.59  31 eP     51 11.50   3.1X
WET     86.62 327 iPc    51 09.00   0.4
GLA     86.72  53 eP     51 09.81   0.4
                epP      52 53.44 458kmX
RSSD    86.73  39 ePd    51 09.90   0.4
        1.3s    60.67nm          5.2mb
SKO     86.95 318 iP     51 10.00  -0.3
GRF     86.99 328 iPd    51 10.80   0.4
        0.6s   124.00nm          5.8mb
      Z 19s      0.40um          4.8Msz
PV09    87.28  46 eP     51 12.75   0.4
PV10    87.41  46 eP     51 13.47   0.6
PV08    87.53  46 eP     51 14.18   0.6
BHG     87.63 326 iPc    51 14.10   0.7
        1.7s   161.00nm          5.5mb
KBA     87.86 326 i(P)   51 14.20  -0.5
OHR     87.87 318 iP     51 13.50  -1.2
        0.6s    60.00nm          5.6mb
VBY     87.99 324 iP     51 15.00  -0.1
FUR     88.07 327 iPc    51 15.60   0.1
EKA     88.07 339 Pc     51 15.50   0.2
        1.7s   106.90nm          5.4mb
WTTA    88.55 327 iPd    51 16.70  -1.2
GOL     88.82  43 eP     51 20.60   1.2
        1.4s    51.50nm          5.2mb
                epP      52 59.14 429kmX
GLD     88.87  43 eP     51 20.76   1.2
        1.5s    74.94nm          5.3mb
OGA     89.12 327 iPc    51 21.00   0.4
WLF     89.22 331 iPc    51 21.67   1.0
DOU     89.53 332 Pc     51 23.50   1.4
SLE     89.63 328 ePd    51 22.30  -0.4
WLS     89.66 329 P      51 22.34  -0.5
OSS     89.67 327 ePc    51 22.70  -0.4
CDF     89.69 330 eP     51 22.40  -0.7
        1.6s   127.50nm          5.6mb
LIBD    89.75 329 P      51 22.85  -0.3
FEL     89.77 329 P      51 22.54  -0.9
ECH     89.89 329 P      51 23.13  -0.8
ZLA     89.89 328 ePc    51 24.00   0.0
TUC     89.93  52 eP     51 26.00   1.6
        1.8s    47.47nm          5.1mb
                e        52 21.63
LLS     90.07 328 ePc    51 24.20  -0.8
VDL     90.13 327 ePc    51 25.00  -0.3
MOF     90.18 329 P      51 24.53  -0.8
BBS     90.30 329 P      51 25.06  -0.8
BSF     90.34 329 eP     51 24.90  -1.2
        1.3s    46.20nm          5.3mb
HAU     90.40 330 eP     51 25.40  -0.9
        1.5s    62.15nm          5.3mb
HAE     90.63 337 eP     51 26.90  -0.3
LOMF    90.69 329 P      51 27.81   0.1
TMA     90.69 327 iPc    51 26.90  -0.9
HCG     90.77 337 eP     51 27.00  -0.9
HTR     90.84 337 eP     51 27.80  -0.4
DLF     90.84 339 eP     51 27.70  -0.4
DCN     91.03 340 eP     51 28.70  -0.3
JAQ     91.10  19 eP     51 28.00  -1.4
MMK     91.16 328 ePc    51 29.70  -0.3
ALQ     91.16  48 ePd    51 31.12   0.9
        1.2s    47.08nm          5.3mb
                epP      53 14.38 452kmX
LOR     92.04 331 eP     51 32.90  -0.9
        1.4s    58.40nm          5.4mb
LPL     92.13 328 eP     51 33.50  -1.0
        0.6s    18.05nm          5.3mb
LPG     92.13 328 eP     51 33.80  -0.8
        0.6s    22.30nm          5.4mb
LBF     92.22 330 eP     51 33.60  -1.0
        1.2s    29.15nm          5.2mb
SSF     92.36 331 eP     51 34.40  -0.8
        1.2s    48.20nm          5.4mb
SMF     92.54 330 eP     51 35.20  -0.9
        1.4s    87.15nm          5.6mb
HYF     92.56 331 eP     51 35.70  -0.5
FLN     92.59 334 eP     51 35.20  -1.1
        1.6s   117.55nm          5.7mb
LDF     92.59 333 eP     51 35.30  -1.0
        1.2s    76.75nm          5.6mb
AVF     92.63 331 eP     51 35.70  -0.8
        1.4s    85.80nm          5.6mb
BGF     93.03 331 eP     51 37.60  -0.8
        1.3s    52.00nm          5.4mb
GRR     93.04 334 eP     51 37.60  -0.8
        1.3s    74.35nm          5.6mb
SBF     93.05 326 eP     51 36.80  -1.8
        1.1s    36.65nm          5.3mb
LPF     93.41 334 eP     51 39.50  -0.5
        1.1s    46.15nm          5.5mb
MAF     93.42 331 eP     51 39.80  -0.4
        1.5s   113.35nm          5.7mb
TCF     93.51 331 eP     51 40.00  -0.6
        1.6s    93.30nm          5.6mb
FRF     93.65 327 eP     51 39.50  -1.7
        1.3s    41.15nm          5.4mb
LSF     93.83 331 eP     51 41.20  -0.8
        1.4s    79.70nm          5.6mb
LRG     93.87 327 eP     51 40.80  -1.4
        1.2s    34.80nm          5.3mb
LMR     93.89 327 eP     51 40.80  -1.5
        1.0s    15.00nm          5.1mb
MFF     94.23 332 eP     51 43.30  -0.5
        1.3s    73.30nm          5.7mb
RJF     94.59 331 eP     51 45.10  -0.4
        1.5s    77.30nm          5.6mb
CAF     94.66 330 eP     51 45.60  -0.3
        1.6s    72.75nm          5.6mb
LPO     95.23 330 eP     51 48.20  -0.2
        1.7s    67.65nm          5.5mb
LTX     96.56  50 eP     51 54.55  -0.3
                epP      53 33.82 431kmX
BCAO   112.31 290 iPKPc  56 58.90   0.2
        0.9s    23.00nm
                i        57 52.20
LSZ    114.21 266 iPKPc  57 02.10  -0.3
                i        58 07.10
                i        59 53.00
BOSA   121.90 253 iPKPd  57 16.87   0.4
TIC    128.54 310 PKP    57 29.46  -0.3
        0.2s     7.00nm
KIC    128.56 309 PKP    57 29.32  -0.5
        0.6s    13.00nm
LIC    128.85 309 PKP    57 29.56  -0.8
        0.3s     4.50nm
      Z 21s      0.16um          4.7Msz
TOV    131.96  38 ePKPc  57 37.00   0.7
SDV    132.26  39 ePKP   57 36.00  -1.0
ARE    149.90  69 ePKP   58 10.00   2.1X
LPAZ   152.46  65 PKPd   58 12.50   0.4
                i        58 20.10
                i        00 12.90
LPB    152.63  65 PKPd   58 13.00   0.9
        1.0s    60.00nm
                i        58 21.00
                iPcP     00 14.10
CNCB   152.88  65 PKP    58 14.00   1.4
                i        58 21.40
CCH    154.65  64 ePKP   58 16.00   1.3
                i        58 42.00
MOCB   157.10  72 PKP    58 18.40   0.4
SIV    157.52  54 PKP    58 17.90  -0.1
TCA    160.90  98 ePKP   58 21.80   0.5
BAO    164.23  20 PKPc   58 26.20   1.2
                i        59 23.00
PPD    168.27  45 ePKP   58 29.10   1.3
CACB   170.28  25 ePKP   58 30.80   1.6
                e        59 03.30
RSTA   171.61  47 ePKP   58 31.10   1.6
      S.D. = 0.9  on 317 of 323 obs.
-------------------------------------
?  OCT  04, 1993  07h 07m 01.37± 5.24s
   42.271 N ±26.2km   20.927 E ±31.9km
   DEPTH =  10.0km  (geophysicist)
 NORTHWESTERN BALKAN REGION        (383)

SKO      0.48 128 ePg    07 20.20   9.0X
                iSg      07 34.00
BCI      0.64 279 ePg    07 15.00   0.7
                iSg      07 22.50
SDA      1.08 259 ePg    07 20.50  -1.2
LACI     1.11 235 ePg    07 22.00  -0.1
OHR      1.16 185 ePg    07 22.80  -0.3
        0.5s   110.00nm
                iSg      07 36.80
TIR      1.22 221 ePg    07 25.00   1.0
      S.D. = 1.2  on   5 of   6 obs.
-------------------------------------
%  OCT  04, 1993  07h 28m 57.89± 1.35s
   44.041 N ± 7.8km    0.040 E ±16.6km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                            (538)
      ML 2.1 (LDG).

EPF      1.03 168 Pg     29 17.40   0.0
                Sg       29 31.40
LPO      1.04  52 Pg     29 17.70   0.1
                Sg       29 32.60
RJF      1.65  39 Pg     29 26.10  -0.8
                Sg       29 49.30
CAF      1.70  58 Pg     29 28.30   0.5
                Sn       29 46.60
                Sg       29 53.20
MFF      2.57 357 Pg     29 40.40   0.2
                Sg       30 12.30
      S.D. = 0.7  on   5 of   5 obs.
-------------------------------------
%  OCT  04, 1993  07h 49m 52.23± 0.86s
   32.532 N ± 7.9km  104.447 E ±12.1km
   DEPTH =  10.0km  (geophysicist)
 SICHUAN, CHINA                    (307)
      ML 3.9 (BJI).

CD2      1.72 200 Pnc    50 22.60   0.2
                Pg       50 23.60
                Sg       50 46.80
LZH      3.58 352 Pn     50 47.50  -1.6
                Pg       50 57.50
                Sn       51 30.00
                Sg       51 41.50
XAN      4.04  67 Pn     50 55.00  -0.5
                Pg       51 06.50
                Sn       51 49.00
                Sg       52 01.60
GYA      6.35 162 Pn     51 28.00  -0.3
                Sn       52 38.00
                Sg       53 17.00
GTA      7.82 333 Pn     51 50.00   1.1
TIY      8.34  49 eP     51 57.20   1.1
      S.D. = 1.3  on   6 of   6 obs.
-------------------------------------
&  OCT  04, 1993  07h 49m 52.64s
   60.466 N          153.136 W
   DEPTH = 138.8km
 SOUTHERN ALASKA                   (  2)
      <AEIC>.

NCT      0.14  47 iPc    50 11.02   0.8
                eS       50 25.83
RDW      0.16  84 eP     50 11.19   0.8
                eS       50 26.41
RED      0.19 105 ePc    50 10.87   0.6
RS2      0.19  91 eP     50 11.16   0.7
RSO      0.19  91 eP     50 11.22   0.8
REF      0.22  84 eP     50 10.96   0.5
                eS       50 26.20
DFR      0.26  60 iPc    50 11.09   0.7
                eS       50 26.54
RDT      0.38  73 iPc    50 11.51   0.7
ILIM     0.40 167 iPd    50 11.73  -0.8
                eS       50 27.70
INE      0.41 175 eP     50 11.76  -0.9
BKG      0.74  35 iPc    50 13.67  -0.9
OPT      0.82 183 iPd    50 14.46  -0.7
                eS       50 32.31
CKL      0.83  28 iPc    50 14.51  -0.8
PDB      0.86 218 iPd    50 14.33  -1.1
                eS       50 31.50
CKT      0.87  31 iPc    50 14.53  -1.1
BGL      0.88  24 iPc    50 15.12  -0.6
CKN      0.89  31 iPc    50 15.00  -0.8
SPU      0.89  36 iPc    50 14.64  -1.1
CP2      0.91  28 eP     50 13.99  -2.1
CRP      0.94  30 iPc    50 14.18  -2.1
NKA      0.98  73 eP     50 16.99   0.6
CGLM     1.01  33 iPc    50 15.79  -1.0
NCG      1.06  27 iPc    50 16.41  -0.9
AUL      1.10 188 eP     50 16.83  -0.7
HOM      1.10 137 eP     50 16.77  -0.8
AUW      1.11 189 eP     50 16.93  -0.7
AUE      1.12 186 eP     50 16.74  -1.0
```

```
AUH     1.12 188 P     50 17.70  -0.1
AUP     1.12 187 eP    50 16.92  -0.9
AUI     1.14 187 P     50 17.10  -0.9
XLV     1.24 144 P     50 17.70  -1.2
CNPM    1.34 134 eP    50 18.66  -1.4
                 eS    50 39.19
SLKM    1.44  87 eP    50 18.90  -2.2
SUA     1.54  48 eP    50 20.77  -1.5
CDD     1.56 190 iPd   50 21.01  -1.4
SKT     1.71  26 eP    50 22.57  -1.5
MPA     1.87  88 eP    50 23.41  -2.5
                 eS    50 48.57
SEW     1.87 100 eP    50 23.81  -2.1
PMS     1.92  64 P     50 24.20  -2.4
PWA     1.98  52 P     50 25.00  -2.2
PLRM    2.25  58 eP    50 27.63  -2.9
PMR     2.25  58 eP    50 26.77  -3.8
                 eS    50 55.22
CUT     2.38  34 eP    50 30.88  -1.3
PWL     2.40  78 eP    50 29.35  -3.1
GHO     2.43  56 eP    50 29.83  -3.1
KNK     2.47  65 iPc   50 30.17  -3.2
SML     2.69  58 eP    50 33.05  -3.1
CFI     2.73  72 eP    50 33.47  -3.1
SCM     3.13  62 eP    50 38.79  -3.2
VLZ     3.40  76 eP    50 41.95  -3.4
RND     3.58  33 eP    50 46.34  -1.5
CVA     3.65  86 eP    50 46.16  -2.5
KLU     3.66  71 eP    50 45.33  -3.6
TOA     3.74  61 P     50 47.70  -2.3
DHY     3.79  44 eP    50 47.85  -2.8
BALM    5.32  79 eP    51 08.56  -2.7
        56 obs. associated
-------------------------------------
%  OCT  04, 1993  08h 14m 37.55± 0.59s
   40.410 N ± 5.5km   22.746 E ± 5.7km
   DEPTH =  10.0km  (geophysicist)
 GREECE                              (364)
      ML 2.0 (THE).

THE     0.28  37 ePg   14 43.24  -0.1
                 eSg   14 48.28
LIT     0.37 212 ePg   14 43.38  -1.7
                 iSg   14 48.72
GRG     0.61 334 iPg   14 48.36  -1.4
                 eSg   14 59.12
SOH     0.62  48 ePg   14 49.80  -0.3
                 eSg   14 58.68
KNT     0.76   9 ePg   14 52.04  -0.4
                 eSg   15 04.04
PAIG    0.86 124 ePg   14 53.20  -0.9
                 eSg   15 05.32
OUR     0.95  94 iPg   14 56.61   1.0
                 iSg   15 10.40
SRS     0.96  42 iPg   14 56.53   0.8
                 eSg   15 09.60
FNA     1.11 290 ePg   14 59.28   0.9
                 eSg   15 14.80
AGG     1.42 193 ePb   15 04.04   0.6
                 eSb   15 23.24
IGT     2.05 245 ePn   15 14.00   1.5
     S.D. = 1.2  on  11 of  11 obs.
-------------------------------------
%  OCT  04, 1993  09h 08m 49.74± 1.01s
   38.899 N ± 7.5km   27.018 E ±17.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      ML 3.0 (ISK).

IZM     0.54 159 iPg   09 00.60   0.0
                 eSg   09 09.00
EZN     1.07 330 ePn   09 09.90   0.1
KGT     1.57   8 iPn   09 18.00   0.4
EDC     1.59  24 ePn   09 18.00   0.1
MFT     1.90   6 ePn   09 22.00  -0.5
     S.D. = 0.4  on   5 of   5 obs.
-------------------------------------
&  OCT  04, 1993  09h 21m 50.64s
   33.333 N          116.325 W
   DEPTH =  10.8km
 SOUTHERN CALIFORNIA                 ( 43)
      <PAS-P>. ML 2.8 (PAS).

PLM     0.45 273 iPc   21 59.37  -0.5
                 eS    22 05.55
PEC     0.89 309 iPc   22 06.76  -1.0
                 eS    22 17.13
GLA     1.29 102 eP    22 13.13  -1.3
SSK     1.44 308 eP    22 15.38  -1.4
GSC     2.00 349 eP    22 23.29  -1.6
                 eS    22 50.48
        5 obs. associated
-------------------------------------
%  OCT  04, 1993  09h 42m 21.17± 1.06s
   39.117 N ± 6.9km   27.568 E ±13.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      ML 2.8 (ISK).

IZM     0.76 198 ePg   42 36.00   0.0
                 eSg   42 49.00
EZN     1.19 307 iPn   42 43.40   0.0
EDC     1.25  10 ePn   42 44.00  -0.4
BNT     1.27  12 ePn   42 45.00   0.3
KGT     1.35 351 iPn   42 46.00   0.0
     S.D. = 0.3  on   5 of   5 obs.
-------------------------------------
%  OCT  04, 1993  10h 16m 08.74± 0.74s
   39.951 N ± 5.2km   22.461 E ± 6.5km
   DEPTH =   5.0km  (geophysicist)
 GREECE                              (364)
      ML 2.0 (THE).

LIT     0.15   9 ePg   16 12.56   0.7
                 eSg   16 15.32
THE     0.78  29 ePg   16 24.56   0.2
                 eSg   16 37.08
AGG     0.93 186 ePg   16 26.96  -0.1
                 eSg   16 41.92
PAIG    0.94  91 ePg   16 26.92  -0.2
                 eSg   16 41.80
GRG     1.01 357 iPg   16 27.32  -0.9
                 eSg   16 41.24
SOH     1.11  38 ePg   16 30.40   0.4
                 eSg   16 46.36
FNA     1.17 315 ePg   16 31.68   0.5
                 eSg   16 45.00
OUR     1.23  71 iPb   16 32.24   0.2
                 eSb   16 49.64
KNT     1.25  15 ePb   16 31.64  -0.9
                 eSb   16 49.12
     S.D. = 0.7  on   9 of   9 obs.
-------------------------------------
%  OCT  04, 1993  10h 47m 42.92± 1.12s
   39.113 N ± 7.2km   27.636 E ±14.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      ML 2.7 (ISK).

IZM     0.77 202 ePg   47 58.00   0.0
                 eSg   48 11.00
EZN     1.24 305 ePn   48 05.90   0.0
EDC     1.24   8 ePn   48 06.00   0.0
BNT     1.26  10 ePn   48 06.30   0.0
KGT     1.36 349 iPn   48 08.00   0.1
     S.D. = 0.1  on   5 of   5 obs.
-------------------------------------
?  OCT  04, 1993  11h 08m 51.92± 4.77s
   31.582 S ±20.9km   71.539 W ±43.3km
   DEPTH =  33.0km  (normal)
 NEAR COAST OF CENTRAL CHILE         (135)

PEL     1.72 155 iP    09 19.20  -0.8
                 iS    09 42.20
SAN     2.01 159 eP    09 25.00   0.8
                 eS    09 48.20
RTRS    2.27  52 e(P)  09 32.00   4.1X
                 S     10 05.00
RTCB    2.34  88 iPc   09 33.00   4.0X
                 S     10 07.00
RTCV    2.57  97 e(P)c 09 23.30  -8.9X
CFA     2.82  91 ePc   09 39.00   3.4X
                 S     10 18.00
RTPR    4.50  75 ePc   10 01.00   1.4
MRA     5.02 101 ePc   10 06.70  -0.2
CYA     5.88  59 ePc   10 18.40  -0.7
                 S     11 25.60
TCA     5.94  89 eP    10 19.50  -0.5
                 (S)   11 35.00
     S.D. = 1.2  on   6 of  10 obs.
-------------------------------------
%  OCT  04, 1993  11h 43m 39.25± 1.49s
   40.571 N ±18.3km   29.203 E ±10.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      ML 2.7 (ISK).

HRT     0.43  55 ePg   43 48.00  -0.1
CTT     0.82 315 ePg   43 55.00  -0.2
BNT     1.00 258 ePn   43 58.00  -0.2
EDC     1.05 258 ePn   43 58.00  -1.0
KGT     1.45 266 iPn   44 07.00   1.5
     S.D. = 1.3  on   5 of   5 obs.
-------------------------------------
*  OCT  04, 1993  12h 39m 48.79± 1.09s
   60.200 N ± 6.3km    5.023 E ±12.8km
   DEPTH =   5.0km  (geophysicist)
 SOUTHERN NORWAY                     (535)
      MD 1.5 (BER).

EGD     0.12  54 iPc   39 51.47   0.1
                 eS    39 53.49
BER     0.24  40 eP    39 53.70   0.0
                 eS    39 57.59
ASK     0.30  17 eP    39 54.57  -0.2
                 eS    39 59.43
SUE     0.87 352 eP    40 06.09   0.1
                 eS    40 18.09
KMY     1.00 173 eP    40 08.10   0.0
                 eS    40 23.43
NRA0    3.27  78 ePn   40 46.42   4.7X
                 ePg   40 50.07
                 eLg   41 34.95
     S.D. = 0.2  on   5 of   6 obs.
-------------------------------------
?  OCT  04, 1993  12h 52m 42.51± 1.57s
   39.090 N ± 8.4km   27.749 E ±18.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      ML 2.8 (ISK).

IZM     0.79 209 ePg   52 57.90   0.0
                 eSg   53 09.90
EDC     1.26   4 ePn   53 06.00   0.1
EZN     1.32 304 iPn   53 07.00   0.1
KGT     1.40 346 iPn   53 07.90  -0.2
     S.D. = 0.2  on   4 of   4 obs.
-------------------------------------
?  OCT  04, 1993  12h 57m 14.30± 3.40s
   23.623 S ±32.0km   66.748 W ±14.7km
   DEPTH = 250.1 ± 38.4 km
 JUJUY PROVINCE, ARGENTINA           (128)

HJA     1.30  72 ePd   57 51.40   0.0
ANT     3.36 268 iP+   58 11.20   0.0
                 eS    58 49.00
CNCB    6.87 350 P     58 55.00   0.4
                 S     00 52.00
LPAZ    7.41 350 P     59 01.10  -0.4
SIV     9.28  36 P     59 24.80   0.0
WR2   132.05 207 ePdiff13 08.90  13.8X
        0.5s     3.50nm
     S.D. = 0.5  on   5 of   6 obs.
-------------------------------------
?  OCT  04, 1993  13h 30m 29.09± 1.61s
   44.312 N ±14.7km    7.224 E ±15.9km
   DEPTH =   5.0km  (geophysicist)
 NORTHERN ITALY                      (545)
      ML 1.5 (GEN).

STV     0.10 133 P     30 31.32   0.0
                 S     30 32.74
ENR     0.16 121 P     30 32.55   0.0
                 S     30 34.25
PZZ     0.21 336 P     30 33.47   0.0
                 S     30 36.21
ROB     0.46  92 P     30 38.41   0.0
     S.D. = 0.0  on   4 of   4 obs.
-------------------------------------
?  OCT  04, 1993  13h 34m 41.92± 5.58s
   38.900 N ±41.6km   23.512 E ±28.3km
   DEPTH =  10.0km  (geophysicist)
 GREECE                              (364)
      ML 2.2 (THE).

AGG     0.93 278 ePg   34 59.89   0.2
                 eSg   35 13.10
PAIG    1.03   7 iPg   35 01.57   0.1
                 eSg   35 15.14
LIT     1.44 327 ePb   35 07.26  -0.7
                 iSb   35 25.69
```

04d 13h

```
OUR     1.48  14 ePb   35 07.86  -0.7
THE     1.78 346 iPb   35 12.58  -0.3
                eSb    35 35.66
SOH     1.92 356 ePb   35 16.30   1.3
KNT     2.31 348 iPn   35 20.69   0.1
     S.D. = 0.8  on   7 of   7 obs.
-------------------------------------
*  OCT  04, 1993  14h 10m 33.15± 2.82s
   28.935 S ±11.4km   69.963 W ±26.2km
   DEPTH =  15.6 ±  6.5 km
 CHILE-ARGENTINA BORDER REGION    (127)

RTLL    2.71 152 ePc   11 17.00   0.0
RTCB    2.74 159 e(P)  11 17.00  -0.3
ZON     2.83 157 eP    11 28.40   9.8X
CFA     3.05 151 ePd   11 21.90   0.2
                S      12 08.80
RTCV    3.17 157 e(P)  11 23.70   0.4
RTPR    3.30 115 eP    11 26.20   1.0
CYA     3.70  83 iPc   11 30.50  -0.4
                S      11 33.00
FSA     4.51  52 ePd   11 42.50   0.1
MRA     5.04 134 e(P)c 11 49.10  -0.8
TCA     5.23 119 iP    11 52.50  -0.2
                S      12 58.50
     S.D. = 0.7  on   9 of  10 obs.
-------------------------------------
?  OCT  04, 1993  14h 19m 37.64± 1.03s
   55.551 N ±23.4km  166.296 E ±13.9km
   DEPTH =  33.0km  (normal)
   4.4mb (  6 obs.)
 KOMANDORSKY ISLANDS REGION       (  4)

YAK    19.81 304 iPc   24 07.40  -0.5
       1.9s     85.00nm          4.7mb
     N  22s      0.60um
IMA    21.75  45 eP    24 28.90   1.0
       1.1s     19.20nm          4.4mb
FBA    24.09  49 eP    24 50.30  -0.3
       1.0s     25.10nm          4.7mb
MAT    26.93 237 eP    25 18.00   0.5
       1.2s     15.63nm          4.5mb
                eS     30 48.00
INK    29.67  41 eP    25 43.00   1.1
       1.0s      2.00nm          3.8mb
YKA    38.86  47 eP    27 00.20  -0.7
       1.1s      3.20nm          4.0mb
LRM    49.56  65 eP    28 26.30  -1.0
     S.D. = 1.0  on   7 of   7 obs.
-------------------------------------
%  OCT  04, 1993  14h 27m 33.92± 0.91s
   41.256 N ± 8.4km   29.008 E ± 5.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
     ML 3.0 (ISK).

ISK     0.19 168 iPg   27 37.50  -0.7
                iSg    27 42.00
CTT     0.45 256 iPg   27 42.90  -0.2
HRT     0.66 131 iPg   27 46.90  -0.2
                iSg    27 57.00
DMK     1.10 301 iPn   27 54.30  -0.2
EYL     1.11 128 iPn   27 55.40   0.6
BNT     1.22 223 ePn   27 56.90   0.3
EDC     1.26 224 ePn   27 57.50   0.2
MFT     1.39 251 iPn   27 59.40   0.0
KGT     1.52 239 iPn   28 01.40   0.2
     S.D. = 0.4  on   9 of   9 obs.
-------------------------------------
%  OCT  04, 1993  14h 29m 54.77± 0.82s
   39.622 N ± 9.3km   29.513 E ± 8.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
     ML 2.8 (ISK).

ALT     0.73 140 ePg   30 09.20   0.0
                eSg    30 21.20
EYL     1.07  27 ePn   30 14.90   0.0
BNT     1.43 301 ePn   30 20.80   0.1
EDC     1.46 300 ePn   30 21.00  -0.2
KGT     1.89 297 ePn   30 27.40   0.1
     S.D. = 0.1  on   5 of   5 obs.
-------------------------------------
   OCT  04, 1993  14h 48m 50.31± 0.77s
   23.034 S ± 7.0km   69.261 W ± 9.7km
   DEPTH = 144.7 ± 14.5 km
 NORTHERN CHILE                   (123)
```

```
ANT     1.25 238 iP    49 18.20   1.0
                iS     49 36.30
HJA     3.55  94 iPc   49 45.60   0.4
YJA     3.58  77 ePc   49 45.20  -0.8
MOCB    3.80  63 P     49 48.60  -0.4
SLA     3.84 117 ePd   49 49.90   0.7
CNCB    6.30  11 iP    50 23.00   0.3
CCH     6.34  28 eP    50 30.00   7.1X
LPB     6.56  10 eP    50 20.00  -6.0X
LPAZ    6.79   9 Pc    50 28.60  -0.8
                LR     04 58.00
RTLL    8.29 175 ePc   50 48.00  -0.9
RTCB    8.43 177 ePd   50 50.00  -0.7
SIV    10.42  49 P     51 12.60  -4.5X
VAO2   20.89  95 (P)   53 24.00   1.2
     S.D. = 1.0  on  10 of  13 obs.
-------------------------------------
&  OCT  04, 1993  14h 53m 01.64s
   35.011 N          116.965 W
   DEPTH =   4.3km
 CENTRAL CALIFORNIA               ( 39)
     <PAS-P>. ML 3.0 (PAS).

SSK     1.00 217 iPd   53 20.18  -1.1
                eS     53 33.44
PEC     1.13 188 eP    53 22.39  -0.9
                eS     53 37.36
PLM     1.66 177 eP    53 32.06   0.3
                eS     53 54.65
ABL     1.86 266 eP    53 35.61   0.9
                eS     54 02.56
TPNV    2.02  16 eP    53 39.66   2.7
                eS     54 07.48
BCH     2.56 275 eP    53 43.34  -1.4
GLA     2.64 137 eP    53 50.40   4.6
        7 obs. associated
-------------------------------------
?  OCT  04, 1993  15h 02m 12.54± 4.62s
   37.685 S ±14.5km  179.439 E ±36.8km
   DEPTH =  10.0km  (geophysicist)
 OFF E. COAST OF N. ISLAND, N.Z. (160)
     ML 3.8 (WEL).

HBZ     0.91 275 P     02 28.90  -1.0
PUZ     1.01 247 Pc    02 32.30   0.6
                eS     02 41.30
NOZ     1.45 229 Pc    02 41.30   2.6
WIZ     1.79 274 P     02 44.60   0.9
URZ     1.93 252 P     02 46.00   0.3
                eS     03 05.40
KUZ     3.11 286 eP    03 01.80  -0.7
                eS     03 32.70
NGZ     3.36 243 P     03 05.70  -0.6
CNZ     3.41 242 P     03 06.40  -0.5
PGZ     3.83 219 eP    03 11.90  -0.8
MNG     4.25 225 P     03 17.40  -1.3
                eS     04 00.80
OUZ     5.31 296 eP    03 34.40   0.6
     S.D. = 1.3  on  11 of  11 obs.
-------------------------------------
   OCT  04, 1993  15h 03m 46.55± 1.38s
   44.401 N ± 4.2km    7.589 E ±16.6km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                   (545)
     ML 2.2 (LDG).

SAOF    0.42 183 Pg    03 55.92   0.9
                Sg     04 01.67
AUTN    0.42 196 Pg    03 55.50   0.3
                Sg     04 01.80
TOUF    0.46 212 Pg    03 55.24  -0.7
AURF    0.55 200 Pg    03 57.73   0.1
                Sg     04 05.43
SBF     0.55 192 Pg    03 56.40  -1.3
                Sg     04 04.50
MVIF    0.59 212 Pg    03 58.24  -0.4
                Sg     04 05.89
FRF     1.08 219 Pg    04 07.40   0.5
                Sg     04 20.50
LPG     1.25 332 Pg    04 09.80  -0.1
LPL     1.27 332 Pg    04 10.30   0.0
LRG     1.30 224 Pg    04 11.00   0.4
                Sg     04 27.90
LMR     1.32 217 Pg    04 11.30   0.3
                Sg     04 27.50
     S.D. = 0.7  on  11 of  11 obs.
-------------------------------------
```

```
%  OCT  04, 1993  15h 16m 43.08± 0.57s
   41.118 N ± 7.5km   28.508 E ± 4.5km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
     ML 2.8 (ISK).

CTT     0.07 296 iPg   16 45.40   0.0
ISK     0.42  97 iPg   16 51.90   0.3
                iSg    16 58.40
BNT     0.88 211 ePg   17 00.00   0.0
DMK     0.90 321 iPg   17 00.30   0.0
                iSg    17 13.30
HRT     0.93 108 ePg   17 00.90   0.1
MFT     0.99 251 ePn   17 02.00   0.1
EYL     1.37 113 ePn   17 07.90  -0.4
     S.D. = 0.2  on   7 of   7 obs.
-------------------------------------
?  OCT  04, 1993  16h 14m 11.31± 4.38s
   18.247 N ±44.5km   67.162 W ±27.8km
   DEPTH =  29.7 ± 13.1 km
 MONA PASSAGE                     ( 89)

MGP     0.25 164 P     14 18.00   0.0
PORP    0.54 111 P     14 22.50   0.2
CLLP    0.58 106 P     14 22.60  -0.4
SJG     0.97  98 P     14 29.20   0.3
                S      14 44.20
CPD     1.20 100 P     14 32.40   0.2
LPR     1.23  87 P     14 32.40  -0.2
     S.D. = 0.4  on   6 of   6 obs.
-------------------------------------
%  OCT  04, 1993  16h 34m 25.83± 1.07s
   38.743 S ± 5.4km  175.650 E ± 7.0km
   DEPTH = 170.2 ± 11.7 km
 NORTH ISLAND, NEW ZEALAND        (159)

NGZ     0.44 185 eP    34 48.80  -0.6
CNZ     0.46 190 P     34 49.10  -0.4
PATZ    0.60  53 P     34 49.40  -0.9
MOZ     0.70 289 P     34 51.00   0.2
                S      35 07.00
UTU     0.71  37 P     34 50.30  -0.5
TAZ     0.84  53 P     34 51.10  -0.5
WLZ     0.87 357 Pc    34 52.30   0.4
                eS     35 09.00
WAHZ    1.10 150 P     34 53.90   0.2
BSZ     1.19 208 eP    34 55.10   0.7
TTH     1.21 131 P     34 55.20   0.6
URZ     1.24  68 P     34 53.80  -1.0
                eS     35 11.60
TEHZ    1.54 144 P     34 57.90   0.2
NOZ     1.87  87 P     35 01.60   0.4
MNG     1.88 184 P     35 01.70   0.5
                S      35 24.40
PGZ     1.93 166 P     35 02.30   0.5
KUZ     1.99   2 P     35 03.60   1.1
PUZ     2.15  73 P     35 04.30  -0.1
                eS     35 29.40
KIW     2.19 195 P     35 05.10   0.3
HBZ     2.38  62 P     35 07.20   0.2
CAW     2.40 191 P     35 07.50   0.2
MTW     2.42 183 Pc    35 07.40   0.0
MRW     2.59 196 P     35 09.60   0.1
                eS     35 39.80
TCW     2.68 203 P     35 10.80   0.2
MQZ     5.45 204 eP    35 44.30  -1.9
                eS     36 41.80
     S.D. = 0.7  on  24 of  24 obs.
-------------------------------------
   OCT  04, 1993  16h 43m 38.30± 0.89s
    7.723 S ± 7.3km  131.027 E ± 8.6km
   DEPTH =  52.1 ±  9.8 km
   4.9mb (  8 obs.)
 TANIMBAR ISLANDS REG., INDONESIA(281)

SLKI    0.37 134 iPd   43 49.00   0.7
AAI     4.90 325 ePd   44 51.50   0.2
MTN     5.09 179 iPd   44 53.40  -0.6
KNA     8.28 195 iPc   45 36.80  -1.7
WR2    12.58 165 eP    46 30.20  -6.7X
       0.5s    152.80nm          6.2mb X
                eS     48 40.50
MNDI   12.64  84 eP    46 37.00  -0.9
PMG    16.04  97 eP    47 23.00   1.0
ASPA   16.09 170 iPd   47 17.90  -4.8X
       0.5s     68.00nm          5.0mb
     Z  22s      0.40um          7.2MszX
```

```
                 i     47 26.90
                 eS    49 59.40
MBL    17.19 218 iPc   47 32.20  -4.2X
                 eS    50 31.00
WARB   18.83 192 iPd   47 43.40 -13.3X
CTA    19.20 131 iPc   48 02.20   1.2
       1.3s    76.92nm         4.8mb
                 i     48 14.00
                 ipP   48 17.50  73kmX
                 i(S)  51 27.00
                 e(ScS)58 21.00
MEEK   22.20 211 iPd   48 12.20 -19.6X
FORT   23.11 187 eP    48 41.20   0.7
       0.5s    23.00nm         4.9mb
MRWA   25.64 212 iPc   49 05.00   0.1
       0.8s    52.00nm         5.1mb
                 iS    53 45.50
STK    25.97 159 eP    49 08.50   0.6
       0.8s     8.10nm         4.3mb
                 eS    53 56.80
BAL    26.42 209 eP    49 13.20   1.2
       0.8s    24.00nm         4.8mb
KLB    26.78 206 eP    49 15.70   0.4
MUN    27.80 208 eP    49 46.50  21.9X
ADE    28.02 166 e(P)  49 35.00   8.4X
NWAO   28.15 205 iPd   49 15.20 -12.6X
       0.3s    30.00nm
BRS    28.41 136 eP    49 28.00  -2.2
MAT    44.54   8 eP    51 46.00  -0.8
       0.8s     6.72nm         4.5mb
YAK    69.53 359 eP    54 43.50   0.3
       0.8s    26.00nm         5.2mb
MOCB  146.88 151 PKP   03 19.80   3.8X
CNCB  149.21 142 ePKP  03 23.00   3.1X
LPB   149.36 142 ePKP  03 27.00   7.1X
LPAZ  149.53 142 PKPd  03 27.70   7.2X
CCH   149.83 146 ePKP  03 30.00   9.5X
     S.D. = 1.2  on  15 of  28 obs.
-----------------------------------
?  OCT  04, 1993  18h 11m 03.73± 4.90s
   62.523 N ±29.4km    4.518 E ±35.1km
   DEPTH =   5.0km  (geophysicist)
 NORWEGIAN SEA                    (642)
      MD 2.1 (BER).

FOO     0.96 165 ePc   11 22.08  -0.4
                 eS    11 35.91
MOL     1.41  87 eP    11 29.82  -0.1
                 eS    11 50.18
SUE     1.48 175 eP    11 30.31  -0.6
                 eS    11 51.05
HYA     1.58 149 eP    11 32.41   0.1
                 eS    11 54.67
ASK     2.07 171 eP    11 40.48   0.9
                 eS    12 06.82
NRA0    3.80 115 Pn    12 04.34   0.1
                 Pg    12 13.64
                 Lg    13 00.97
EKA     8.23 212 Pd    13 16.50  10.0X
       1.8s    36.00nm
     S.D. = 0.7  on   6 of   7 obs.
-----------------------------------
*  OCT  04, 1993  18h 55m 35.69± 0.90s
   10.378 N ±12.5km   94.243 E ±14.3km
   DEPTH =  33.0km  (normal)
   4.4mb ( 11 obs.)
 ANDAMAN ISLANDS, INDIA           (703)

NNT     5.81  67 eP    56 59.00  -2.9
KMI    16.74  28 Pc    59 35.00   5.4X
       1.5s    50.00nm         4.4mb
GBA    16.75 283 P     59 34.00   4.5X
       0.8s     1.00nm         3.0mb X
LSA    19.44 352 P     00 01.80  -1.2
GYA    19.84  35 Pc    00 08.00   1.1
       1.0s    10.00nm         4.1mb
CD2    22.26  22 P     00 33.80   2.3
LZH    27.04  17 eP    01 17.50   0.4
       1.6s    41.00nm         4.8mb
XAN    27.12  27 P     01 17.10  -0.6
GTA    29.33   9 eP    01 38.50   0.7
       1.5s    13.00nm         4.4mb
CN2    42.88  33 eP    03 34.00   1.3
       1.0s     4.20nm         4.1mb
                 epP   03 40.00  20kmX
WRA    49.66 127 P     04 27.50   0.9
       0.8s     3.60nm         4.5mb
WR2    49.68 127 eP    04 26.80   0.0
       0.8s     6.40nm         4.7mb
ASPA   51.46 132 eP    04 40.60   0.3
       0.8s     4.80nm         4.5mb
GEC2   76.04 318 P     07 20.60  -1.1
       0.8s     1.02nm         3.9mb
                 e     07 30.90
LPG    80.94 315 eP    07 48.20  -0.6
       0.9s     3.60nm         4.4mb
LPL    80.95 315 eP    07 48.20  -0.5
       0.9s     4.60nm         4.5mb
SIV   155.34 254 PKP   15 25.80  -2.0X
     S.D. = 1.4  on  14 of  17 obs.
-----------------------------------
*  OCT  04, 1993  19h 13m 23.84± 0.87s
   20.763 S ± 6.6km   69.050 W ±11.7km
   DEPTH = 156.6 ± 10.4 km
 NORTHERN CHILE                   (123)

ANT     3.19 203 eP    14 14.00  -0.4
MOCB    3.22  99 P     14 15.40   0.1
YJA     3.59 114 iPc   14 20.00   0.0
CNCB    4.06  15 iPd   14 26.00  -0.3
LPB     4.30  12 P     14 29.00  -0.4
                 (S)   15 48.00
CCH     4.35  40 P     14 31.00   1.1
LPAZ    4.54  11 P     14 32.40  -0.2
SLA     5.13 141 ePd   14 41.10   1.0
PPD    16.57  98 eP    17 07.00  -1.6
RSTA   18.87 106 eP    17 34.80   0.2
VAO2   21.01 101 eP    17 55.60  -0.9
                 e     18 01.80
LIC    68.31  74 P     24 14.80   4.4X
TIC    68.50  74 P     24 12.80   1.3
     S.D. = 1.0  on  12 of  13 obs.
-----------------------------------
   OCT  04, 1993  20h 04m 37.12± 0.40s
   44.808 N ± 3.1km    7.231 E ± 5.0km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                   (545)
      ML 2.3 (GEN), 1.9 (LDG).

BHB     0.04  34 Pd    04 39.87   0.6
                 S     04 41.35
PZZ     0.32 197 Pd    04 43.05  -0.7
                 S     04 47.16
RRL     0.34 290 Pc    04 43.33  -0.9
                 S     04 47.44
RSP     0.34   3 P     04 44.69   0.4
                 S     04 49.68
STV     0.57 173 P     04 48.03  -0.7
                 S     04 55.35
ENR     0.60 167 P     04 47.96  -1.3
                 S     04 55.49
LSD     0.65 355 P     04 50.13  -0.2
                 S     04 58.33
ROB     0.69 138 P     04 50.41  -0.4
                 S     04 58.85
LPG     0.77 334 Pg    04 51.90  -0.4
                 Sg    05 02.20
LPL     0.79 334 Pg    04 52.20  -0.5
                 Sg    05 02.10
FIN     0.92 130 P     04 54.25  -0.5
SBF     0.96 171 Pg    04 55.90   0.5
                 Sg    05 07.40
PCP     0.97 105 P     04 56.13   0.5
IMI     1.01 152 P     04 55.68  -0.7
FRF     1.32 199 Pg    05 01.80   0.4
                 Sg    05 19.20
LRG     1.49 205 Pg    05 05.20   1.3
                 Sg    05 24.50
LMR     1.56 200 Pg    05 06.70   1.7
                 Sg    05 27.30
     S.D. = 0.9  on  17 of  17 obs.
-----------------------------------
*  OCT  04, 1993  20h 28m 59.71± 2.23s
   31.493 S ±19.8km   68.508 W ±17.5km
   DEPTH = 101.7 ± 21.5 km
 SAN JUAN PROVINCE, ARGENTINA     (137)

ZON     0.15 250 iPd   29 14.30  -0.2
                 eS    29 53.00
RTLL    0.17  12 iPc   29 14.50   0.0
                 e     29 25.50
RTCB    0.25 271 ePd   29 15.00   0.1
                 S     29 26.00
CFA     0.26 116 iPc   29 15.00   0.2
                 S     29 27.10
RTCV    0.37 184 iPd   29 15.00  -0.1
                 S     29 27.00
RTRS    1.55 328 ePc   29 27.10   0.0
MRA     2.55 112 ePc   29 40.30   0.2
TCA     3.35  88 e(P)  29 51.00  -0.2
                 (S)   30 28.00
     S.D. = 0.2  on   8 of   8 obs.
-----------------------------------
%  OCT  04, 1993  20h 50m 25.62± 1.04s
   40.453 N ±11.5km   27.776 E ± 8.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 2.5 (ISK).

EDC     0.12 148 iPg   50 29.00   0.3
                 iSg   50 31.00
BNT     0.15 131 iPg   50 28.80  -0.2
                 iSg   50 30.80
KGT     0.36 270 iPg   50 33.30   0.3
                 iSg   50 38.80
MFT     0.50 312 iPg   50 35.80   0.0
                 iSg   50 42.80
EZN     1.28 241 ePn   50 49.00  -0.3
     S.D. = 0.4  on   5 of   5 obs.
-----------------------------------
   OCT  04, 1993  20h 54m 38.34± 0.13s
   21.437 S ± 3.9km  174.301 W ± 3.9km
   DEPTH =  34.2km  ( 14 depth phases)
   5.8mb ( 65 obs.)  5.7Msz ( 61 obs.)
 TONGA ISLANDS                    (173)
      Mw 6.0 (GS), 5.7 (HRV). Ms 5.7
      (BRK). Mo=8.3*10**17 Nm (PPT).
      FAULT PLANE SOLUTION: P-Waves
       NP1:Strike= 20 Dip=78 Slip=  90
       NP2:        200     12        90
       Principal Axes:
        T               Plg=57  Azm=290
        P                 33      110
      Comment: The focal mechanism is
        poorly controlled and
        corresponds to reverse
        faulting. The preferred fault
        plane is NP2.
      MOMENT TENSOR SOLUTION
      Dep   4            No. of sta: 18
      Moment Tensor;    Scale 10**18 Nm
        Mrr= 0.70        Mtt= 0.12
        Mff=-0.82        Mrt= 0.21
        Mrf= 0.76        Mtf=-0.38
       Principal axes:
        T  Val=  1.01  Plg=68  Azm=279
        N        0.25       3       17
        P       -1.27      22      108
      Best Double Couple:Mo=1.1*10**18
       NP1:Strike=205 Dip=23 Slip=  98
       NP2:        16     67        86
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 42S, 85C
      Centroid Location:
      Origin Time       20:54:38.0 0.3
      Lat 21.69S 0.03 Lon 173.22W 0.03
      Dep  15.0 FIX Half-duration  1.6
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 2.70 0.05  Mtt=-0.25 0.08
        Mff=-2.45 0.08  Mrt= 0.78 0.12
        Mrf= 1.33 0.14  Mtf=-1.65 0.06
       Principal Axes:
        T  Val=  3.07  Plg=76  Azm=304
        N        0.63       1      209
        P       -3.70      14      118
      Best Double Couple:Mo=3.4*10**17
       NP1:Strike=207 Dip=32 Slip=  88
       NP2:        29     59        91

RAR    13.54  92 P     57 40.00 -10.5X
                 S     00 24.00
PVC    16.79 280 iP    58 35.50   3.0X
BKM    16.87 280 iPc   58 37.50   3.9X
KUZ    17.55 207 P     58 42.30   0.3
PUZ    17.78 200 eP    58 44.60  -0.3
DZM    17.90 264 iPc   58 48.10   1.6
URZ    18.33 202 P     58 50.90  -0.7
PGZ    20.73 201 eP    59 18.40   0.0
MNG    21.00 202 P     59 17.20  -4.0X
SNZO   21.89 203 eP    59 36.00   5.9X
```

04d 20h

```
                S     02 34.00
QRZ    22.33 207 P     59 33.50  -1.0
THZ    22.96 205 P     59 41.90   1.1
                eS    03 45.80
AFR    23.43  85 eP    59 55.00   9.5X
       1.3s  612.30nm          6.0mb
PAE    23.59  85 eP    59 57.00  10.0X
       1.4s  559.40nm
PPT    23.61  85 eP    59 57.10   9.9X
       1.3s  592.10nm          5.9mb
     Z 19s  *******um          8.6MszX
PPN    23.76  85 eP    59 58.60  10.0X
       1.4s  311.90nm
TVO    23.87  86 eP    00 00.20  10.4X
       1.6s  908.00nm
LTZ    24.07 205 eP    59 51.50   0.0
                e     02 26.90
PMO    25.86  80 eP    00 16.90   8.2X
       1.4s  350.30nm          5.8mb
VAH    26.03  81 eP    00 19.00   8.7X
       1.0s  140.00nm          5.5mb
LMZ    26.08 208 eP    00 09.40  -1.1
TPT    26.12  80 eP    00 19.50   8.4X
       1.3s  371.10nm          5.8mb
RUV    26.28  81 eP    00 21.30   8.8X
       1.4s  359.00nm          5.8mb
BRS    30.50 252 iPc   00 50.00  -0.7
                e     05 51.00
ARMA   31.82 247 iPd   01 01.60  -0.8
       0.5s   25.00nm          5.3mb
CNB    34.63 239 eP    01 28.00   1.4
CAN    34.92 239 iPc   01 28.10  -1.0
BWA    35.19 240 eP    01 27.90  -3.5X
CTA    36.84 265 iPc+  01 44.00  -1.4
       2.0s  411.76nm          6.0mb
                ePP   03 15.00
                iS    07 02.00
                i     07 48.00
                eSS   10 27.00
CTAO   36.84 265 ePc   01 44.17  -1.3
TOO    38.19 236 iPc   01 56.30  -0.3
       0.4s   16.00nm          5.2mb
PMG    38.92 282 eP    02 02.00  -0.9
STK    40.53 246 iPc   02 15.30  -0.7
       1.0s   31.00nm          5.0mb
                ipP   02 42.90 121kmX
                eS    08 09.30
ADE    43.18 241 eP    02 37.20  -0.6
HON    45.38  22 P     03 00.00   4.5X
     Z 20s    1.70um          5.0Msz
ASPA   47.68 257 iPc   03 12.10  -1.7
       1.1s  124.40nm          5.8mb
                ipP   03 40.50 122kmX
                iPcS  08 37.40
                iS    10 04.50
                iScS  13 15.70
WR2    47.87 262 iPd   03 12.90  -2.4
       0.9s   72.60nm          5.7mb
                i     03 42.40 128kmX
WB5    47.88 262 iPc   03 13.00  -2.4
                i     03 42.30 127kmX
WRA    47.89 262 P     03 13.40  -2.1
       1.1s   35.40nm          5.3mb
FORT   52.11 247 eP    03 43.90  -3.7X
       0.5s   12.00nm          5.1mb
MTN    52.62 270 eP    03 50.00  -1.6
GUA    53.02 307 eP    03 53.50  -1.0
       1.3s  430.77nm          6.3mb
GUMO   53.09 307 eP    03 53.90  -1.0
       0.6s  209.50nm          6.3mb
DRV    53.66 201 iP    03 57.00  -1.5
                S     11 54.00
WARB   53.85 253 iPc   03 47.80 -12.7X
SBA    57.20 185 iPc   04 25.40   1.4
COOL   58.01 246 iPc   04 28.20  -2.2
       1.0s   35.00nm          5.4mb
KLB    60.79 245 iPc   04 48.20  -1.4
       0.8s   30.00nm          5.5mb
MBL    60.93 257 iPc   04 49.10  -1.5
NWAO   61.04 243 eP    04 50.60  -0.6
       1.0s   40.00nm          5.5mb
BAL    61.83 246 iPc   04 55.50  -1.2
       0.7s   34.00nm          5.6mb
MUN    62.04 244 eP    04 57.50  -0.5
       0.8s   42.00nm          5.6mb
MRWA   62.68 247 eP    05 01.00  -0.8
       0.7s   22.00nm          5.4mb
CSY    64.61 206 iPd   05 14.80   0.5
       1.0s   51.30nm          5.6mb
KAKJ   71.69 323 P     05 58.50  -0.3
CHJJ   72.25 322 P     06 01.70  -0.5
IIDJ   72.49 321 P     06 03.40  -0.3
OFUJ   72.95 326 eP    06 06.10  -0.1
ADK    73.03 358 ePc   06 04.92  -1.4
       1.3s   97.88nm          5.6mb
WKYJ   73.04 318 P     06 07.30   0.4
MAJO   73.05 322 iPc   06 06.36  -0.5
       1.1s   93.09nm          5.7mb
MAT    73.05 322 iPc   06 06.30  -0.6
       1.5s  186.11nm          5.9mb
     Z 20s    1.42um          5.2Msz
                eS    15 15.00
NIIJ   73.08 323 eP    06 06.50  -0.5
YAMJ   73.17 324 eP    06 07.80   0.3
MTMJ   73.31 321 P     06 08.30  -0.2
TSRJ   73.68 320 P     06 10.70   0.2
TKSJ   73.85 317 P     06 12.10   0.5
KAGJ   74.16 313 eP    06 13.70   0.2
KUSJ   74.47 330 eP    06 14.60  -0.3
SMY    74.54 353 P     06 20.00   4.9X
     Z 18s    5.95um          5.9Msz
YONJ   75.00 318 P     06 18.50   0.3
KUMJ   75.03 314 eP    06 18.40   0.0
SHK    75.07 317 ePc   06 18.90   0.2
SHNJ   75.82 316 eP    06 22.40  -0.5
ASAJ   76.22 330 eP    06 26.70   1.8
SAO    76.40  41 iPc   06 25.48  -0.7
       1.6s  *******nm          7.9mb X
     Z 18s    4.20um          5.8Msz
LEM    76.47 268 ePc   06 27.50   0.3
       1.5s  305.56nm          6.1mb
MHC    76.65  41 iPc   06 27.24  -0.5
       1.5s  *******nm          7.9mb X
     Z 18s    4.20um          5.8Msz
ARN    76.72  41 ePc   06 27.65  -0.3
KMPM   77.24  37 ePc   06 30.97   0.1
PEC    77.36  46 (P)   06 30.34  -1.3
       0.3s    6.78nm          5.2mb
SDN    77.37   8 ePc   06 29.59  -1.5
       1.5s  313.71nm          6.1mb
TATO   77.57 303 (P)   06 32.52  -0.3
PET    77.77 344 eP    06 33.00  -0.3
                e     09 24.00
                eS    16 28.00
CMB    77.86  41 ePc   06 33.30  -1.0
       1.6s  *******nm          7.7mb X
     Z 18s    3.10um          5.7Msz
                iS    16 31.30
                i     17 29.30
                eSS   21 22.30
                eLQ   26 43.30
                eLR   29 58.30
ORV    78.17  39 eP    06 34.82  -1.1
WDC    78.24  38 ePc   06 36.03  -0.2
       1.3s   58.38nm          5.4mb
     Z 20s    4.98um          5.8Msz
YSS    78.38 332 iPc+  06 37.00   0.2
       1.2s  130.00nm          5.8mb
     Z 18s    1.20um          5.3Msz
     N 18s    0.70um
                e     06 46.40  30km
                eS    16 35.00
                ePS   17 03.00
GSC    78.44  45 eP    06 36.90  -0.7
MRCM   78.79  42 (P)   06 40.57   1.0
                e     06 51.86  37km
BONR   79.09  42 eP    06 40.90  -0.4
LBFM   79.12  37 ePc   06 40.98  -0.3
TPNV   79.78  44 P     06 50.00   5.1X
     Z 19s    4.44um          5.8Msz
TNP    79.84  42 eP    06 44.76  -0.5
       0.9s   17.57nm          5.1mb
TUC    80.88  50 P     07 00.00   9.2X
     Z 19s    5.10um          5.9Msz
SSE    80.96 308 Pd    06 51.00   0.0
       1.2s   60.00nm          5.5mb
     Z 20s    0.90um          5.1Msz
                S     17 04.00
                sS    17 14.00
VLA    81.06 323 iPd   06 52.00   0.7
       2.8s  612.00nm          6.1mb
     Z 17s    0.50um          4.9MszX
     N 20s    1.10um
                i     07 03.00  36km
                e     09 56.00
                iS    17 06.00
                iPS   17 52.00
                isS   18 11.00
KMOR   81.13  33 P     06 51.92   0.1
SSOR   81.14  34 P     06 51.33  -0.5
VBEM   81.74  35 P     06 54.59  -0.4
MAW    81.83 199 iPd   06 56.00   1.0
       1.4s   59.30nm          5.4mb
     Z 18s    3.90um          5.8Msz
                iS    17 09.40
BMW    81.84  33 ePc   06 55.42   0.0
ONR    81.84  32 P     06 56.03   0.7
VIPM   81.90  36 P     06 55.63  -0.3
CROR   82.01  35 P     06 55.96  -0.4
ARUT   82.08  44 eP    06 56.93  -0.1
SHW    82.15  34 eP    06 57.16   0.0
ASR    82.46  34 P     06 58.46  -0.2
LON    82.75  33 ePc   06 59.00  -1.1
GMW    82.79  32 ePc   07 00.06  -0.2
JBO    82.94  35 P     07 00.77  -0.3
FMW    82.94  33 P     07 01.22  -0.1
NJ2    83.15 308 Pc    07 04.00   1.6
       1.4s  100.00nm          5.7mb
GZH    83.20 298 Pc    07 04.50   1.7
RMW    83.22  33 iPc   07 02.43  -0.1
MDJ    83.30 323 Pc    07 04.30   1.4
     Z 20s    5.17um          5.9Msz
     N 20s    3.25um
     E 20s    3.33um
                pP    07 16.50  40km
                S     17 28.00
MSU    83.32  44 ePc   07 03.79   0.3
MCW    83.54  31 ePc   07 04.47   0.4
SVW    83.63   9 ePc   07 03.32  -1.0
       0.7s    3.40nm          4.6mb X
KGM    83.64 275 ePc   07 07.00   1.7
       1.4s  436.40nm          6.4mb
JCW    83.65  32 P     07 04.60  -0.1
DUG    83.85  43 ePd   07 05.71  -0.3
       1.3s   18.57nm          5.1mb
     Z 18s    2.23um          5.6Msz
WAH2   83.92  34 P     07 06.08   0.1
SLKM   83.96  12 eP    07 03.39  -2.6
LNOR   84.04  36 P     07 06.39  -0.3
CP2    84.31  11 ePc   07 07.06  -0.9
WTV    84.32  33 P     07 07.57  -0.5
CRP    84.33  11 iPc   07 06.37  -1.6
SAW    84.61  34 P     07 09.48   0.0
LTX    84.68  56 eP    07 08.32  -2.1
SRU    84.72  44 iPc   07 10.04  -0.4
SIT    84.75  20 P     07 20.00  10.1X
     Z 18s    1.75um          5.5Msz
DL2    84.80 315 eP    07 12.00   1.4
       1.2s   44.00nm          5.5mb
                eS    17 38.00
EMUT   84.92  44 eP    07 11.56   0.1
DAU    84.96  43 ePc   07 11.47  -0.3
SNY    85.17 318 iPc   07 13.00   0.7
     Z 18s    0.83um          5.2Msz
CN2    85.17 321 Pc    07 13.50   1.2
       1.2s   99.00nm          5.9mb
     Z 20s    1.36um          5.3Msz
     N 16s    0.70um
     E 16s    0.80um
                epP   07 24.00  33km
                eS    17 42.00
PMR    85.17  12 eP    07 11.60  -0.3
       1.6s  218.80nm          6.1mb
     Z 20s    2.50um          5.6Msz
PV10   85.31  46 eP    07 12.53  -1.0
PV09   85.31  46 (P)   07 12.98  -0.6
TTA    85.32   8 eP    07 12.38  -0.4
       1.5s  111.53nm          5.8mb
ALQ    85.33  50 ePc   07 13.03  -0.6
       0.7s    2.54nm          4.5mb X
     Z 19s    4.54um          5.9Msz
                S     17 42.12
DPW    85.34  34 P     07 13.02  -0.2
PV08   85.68  46 (P)   07 15.14  -0.3
KLU    85.73  13 ePc   07 14.31  -0.6
WHN    85.79 305 Pc    07 17.50   1.8
       2.0s  460.00nm          6.4mb
     Z 18s    1.21um          5.3Msz
                pP    07 29.00  37km
                S     17 48.00
BALM   86.14  15 iPc   07 16.58  -0.4
```

```
NEW    86.15  34 eP    07 16.19  -1.0
        2.1s   171.70nm          5.9mb
     Z  19s    15.13um          6.4Msz
TOA    86.23  13 eP    07 17.20  -0.1
TIA    86.47 311 Pc    07 20.30   1.3
        1.8s   190.00nm          6.0mb
     Z  26s     1.75um          5.3MszX
                pP    07 31.00  34km
IPM    86.71 276 ePc   07 22.00   1.4
        1.3s   239.00nm          6.3mb
                e     07 33.50  37km
LRM    87.27  38 eP    07 18.20  -4.8X
BW06   87.32  42 ePc   07 21.86  -1.4
        1.1s    13.20nm          5.1mb
NVL    87.95 182 iPc   07 27.00   1.5
        2.0s    62.00nm          5.6mb
     Z  20s     6.50um          6.0Msz
     N  20s     2.50um
     E  20s     1.00um
                ePP   10 32.00
                ePPP  13 10.00
                eS    18 08.00
                eSS   24 10.00
                eSSS  27 31.00
SNG    88.04 278 eP    07 32.00   5.0X
        1.2s   275.00nm          6.4mb
SNA    88.32 177 iPc   07 27.40   0.0
        1.1s   108.86nm          6.1mb
GOL    88.44  46 P     07 40.00  11.3X
     Z  19s     2.11um          5.6Msz
FBA    88.45  11 eP    07 26.59  -1.3
        1.7s   202.33nm          6.2mb
GLD    88.56  46 P     07 40.00  10.8X
     Z  18s     2.07um          5.6Msz
IMA    88.63   8 eP    07 28.17  -0.7
        1.8s    96.42nm          5.8mb
BJI    89.00 314 eP    07 32.50   1.5
     Z  20s     0.90um          5.2Msz
                eSKS  18 00.00
                eS    18 20.00
                eSS   24 16.00
ILT    89.13 358 iPd   07 30.00  -1.0
        1.9s   240.00nm          6.2mb
     Z  18s     1.90um          5.6Msz
     N  20s     0.90um
     E  20s     1.00um
                i     07 42.00  39km
                i     18 06.00
                i     19 24.00
PAF    89.27 216 eP    07 38.00   5.7X
                eSP   19 25.00
GYA    90.12 298 iPc   07 38.00   1.2
        1.6s   220.00nm          6.2mb
     Z  40s     1.72um          5.2MszX
TIY    90.49 311 Pc    07 40.00   1.9
     Z  30s     2.02um          5.4MszX
     N  18s     1.68um
WMOK   90.82  53 P     07 50.00  10.3X
     Z  19s     4.29um          5.9Msz
LOE    90.83 288 iPc   07 41.00   1.0
NNT    90.84 283 eP    07 41.60   1.5
RTCB   91.37 125 iPd   07 42.50   0.0
XAN    91.46 306 P     07 44.00   1.3
        1.5s   170.00nm          6.2mb
     Z  20s     1.23um          5.3Msz
                pP    07 54.00  31km
                sP    07 58.00
                PP    11 22.00
                SKS   18 10.00
RSSD   91.46  43 eP    07 41.55  -1.1
        1.3s    22.52nm          5.4mb
NST    91.61 286 eP    07 46.50   2.9X
RTLL   91.69 125 ePc   07 44.00   0.1
HHC    92.49 313 P     07 48.80   1.5
        1.8s   120.00nm          6.0mb
     Z  22s     1.81um          5.5Msz
     E  10s     0.29um
                pP    08 00.00  35km
                sS    19 06.00
KMI    92.86 296 Pc    07 51.50   2.0
        1.8s   340.00nm          6.5mb
     Z  20s     2.90um          5.7Msz
                pP    08 02.00  33km
                sP    08 06.00
BDT    93.20 287 eP    07 53.50   2.7
        0.8s    67.50nm          6.1mb
BTO    93.44 312 P     07 53.00   1.3
CHTO   93.81 289 iPc   07 55.60   1.9
        1.1s    53.89nm          5.9mb
CD2    94.21 301 P     07 57.60   2.2
     Z  20s     1.41um          5.4Msz
                pP    08 06.00  26km
                SKS   18 33.00
YAK    94.27 337 iPc+  07 54.00  -0.9
        2.9s   370.00nm          6.3mb
     Z  20s     1.30um          5.4Msz
     N  18s     0.70um
     E  20s     0.90um
                e     11 38.00
                e     18 29.00
                eS    19 06.00
                eSS   25 17.00
INK    94.30  14 eP    07 55.00   0.1
        1.0s     3.00nm          4.7mb X
MIAR   94.65  55 P     07 59.29   2.0
     Z  19s     4.16um          5.9Msz
YKA    95.94  24 eP    08 13.10  10.6X
        1.0s     3.90nm
LZH    96.09 306 Pc    08 05.00   0.9
        2.0s   130.00nm          6.1mb
     Z  20s     0.94um          5.3Msz
     E  16s     0.91um
                pP    08 15.00  31km
                ePP   12 00.00
                SKS   18 40.00
                S     19 20.00
                PS    20 50.00
CIT    96.23 324 eP    08 05.30   1.1
                e     11 55.00
FVM    98.29  53 P     08 20.00   6.3X
     Z  19s     9.50um          6.3Msz
CNCB   98.41 112 Pc    08 15.60   0.2
                PP    08 27.70
                PP    12 13.10
                S     18 54.70
                SP    20 47.00
LPB    98.43 111 eP    08 18.00   2.7
     Z  18s     4.81um          6.0Msz
                LR    40 15.00
MOCB   98.46 117 P     08 15.80   0.3
LPAZ   98.51 111 P     08 18.60   2.7
                LR    40 34.80
SLM    98.66  52 P     08 30.00  14.7X
     Z  19s     3.02um          5.8Msz
GTA   100.25 308 ePdiff08 22.70  -0.2
        2.0s    33.00nm          5.5mb
     Z  30s     2.00um          5.4MszX
     E  22s     1.24um
                pP    08 34.50
TIK   100.55 344 iPdiff08 23.00  -0.2
        2.0s    29.00nm          5.5mb
                i     12 26.00
                e     19 04.00
                iPS   21 36.00
ZAK   101.56 320 ePdiff08 16.00 -12.2X
        1.7s    15.00nm
     Z  18s     0.82um          5.3Msz
                esS   20 05.00
                ePPS  21 43.00
MYNC  102.13  57 Pdiff 08 40.00   8.8X
     Z  18s     3.92um          6.0Msz
MBC   102.99  12 ePdiff08 33.00  -1.0
        1.6s   240.00nm          6.7mb
                PPP   14 48.00
                SKS   19 24.10
                S     20 16.60
                PSS   27 48.00
                P'P'  32 35.00
CEH   106.30  57 PKP   13 10.00   8.8X
     Z  19s     3.25um          5.9Msz
YSNY  108.28  51 PKP   13 10.00   5.2X
     Z  19s     6.47um          6.2Msz
BINY  110.08  52 PKP   13 20.00  11.8X
     Z  18s     3.28um          5.9Msz
LSCT  112.01  52 PKP   13 20.00   8.2X
     Z  18s     3.71um          6.0Msz
NRI   112.55 338 (PKP) 13 11.00  -0.9
        2.0s    25.00nm
     Z  20s     3.50um          5.9Msz
LBNH  113.34  50 PKP   13 20.00   5.7X
     Z  19s     6.03um          6.2Msz
HRV   113.36  52 PKP   13 20.00   5.6X
     Z  18s     4.99um          6.2Msz
CBM   116.27  47 PKP   13 30.00  10.2X
     Z  19s     4.10um          6.1Msz
KSH   118.25 304 ePKP  13 18.50  -5.5X
     Z  20s     1.24um          5.5Msz
     N  20s     2.54um
     E  20s     2.39um
                PP    14 39.00
                SKS   20 25.00
                SKKS  21 26.00
SUR   124.57 196 e(PKP)13 40.00   3.6X
        1.0s   100.00nm
BLF   126.00 202 ePKP  13 38.00  -1.3
        1.0s    40.00nm
SVE   126.71 326 iPKPc 13 39.50  -0.1
        2.7s   120.00nm
     Z  21s     2.50um          5.9Msz
     N  21s     0.60um
     E  21s     2.00um
                e     15 31.80
                e     20 33.00
                e     25 39.00
                e     27 08.00
BFT   127.54 208 ePKP  13 41.00  -1.4
ARU   127.91 326 ePKPc 13 41.00  -0.8
        2.0s   130.00nm
     Z  20s     2.50um          5.9Msz
     N  20s     1.00um
     E  22s     2.50um
                e     13 53.00
                e     15 40.00
                e     25 43.00
SLR   128.24 206 iPKPc 13 41.10  -2.5X
        1.4s    58.14nm
     Z  18s     5.15um          6.3Msz
MAIO  131.20 300 iPKPc 13 48.60  -0.3
ASH   132.02 302 ePKP  13 51.00   0.8
        1.5s    95.00nm
                e     16 10.00
WIN   134.87 195 ePKP  13 59.00   2.6X
        0.6s    18.00nm
SHI   137.20 291 ePKP  14 00.00  -0.6
LSZ   137.36 213 ePKP  14 00.00  -1.2
                i     16 36.00
MOS   138.32 333 ePKP  14 00.00  -1.6
     Z  20s     1.40um          5.7Msz
                e     16 46.00
OBN   139.18 333 iPKPd 14 03.00  -0.2
        1.5s    70.00nm
     Z  20s     1.10um          5.6Msz
     N  20s     0.90um
     E  20s     0.60um
                e     14 15.00
                e     16 52.00
                eSS   35 12.00
NB2   140.24 356 PKP   13 56.20  -8.8X
        1.1s     4.60nm
GRO   140.29 313 ePKP  14 06.00   0.5
        2.0s   120.00nm
NRA0  140.52 355 ePKP  13 58.30  -7.1X
NRE0  140.52 355 PKP   14 23.90  18.5X
                SKKP  26 08.60
                SP    27 31.00
                ScSP' 29 24.90
                SS    35 28.80
                SSS   40 52.40
HFS   140.92 354 ePKP  14 00.10  -6.1X
        0.7s     2.30nm
TAB   141.37 305 ePKP  13 55.00 -12.9X
MTA   141.46 311 ePKP  14 01.00  -6.7X
     N  17s     0.50um
     E  17s     0.50um
PYA   141.79 315 ePKP  14 02.00  -6.3X
                e     14 08.00
NAI   142.14 237 iPKPd 14 06.50  -3.5X
     Z  18s     0.93um          5.6Msz
ERE   142.16 308 iPKP  14 04.00  -5.2X
        2.1s     3.00nm
                i     17 18.00
RYD   142.32 283 ePKP  14 06.50  -3.3X
MJMA  143.56 285 ePKP  14 09.33  -2.6X
KMSA  143.80 276 ePKP  14 10.00  -2.4X
SOC   144.17 316 ePKP  14 10.00  -2.3X
DHJN  144.25 271 ePKP  14 13.33  -0.2
EDU   144.35   8 ePKP  14 09.60  -2.6X
EAB   144.50  10 ePKP  14 09.90  -2.6X
EBH   144.57   9 ePKP  14 10.40  -2.2X
MUD   144.93 357 iPKPd 14 12.20  -0.9
        1.3s   192.00nm
```

04d 21h

```
EDI   144.93   9 ePKPd 14 13.00  -0.2
                e     17 10.00
ESY   145.01   8 ePKP  14 09.70  -3.6X
ANN   145.05 319 iPKPc+14 13.00  -0.7
       1.5s   200.00nm
     Z  20s     1.00um          5.6Msz
     N  20s     1.20um
     E  20s     1.40um
                e     14 22.00
ABHA  145.06 271 iPKPc 14 16.67   1.8
EBL   145.10   9 ePKP  14 12.20  -1.3
QASM  145.15 285 iPKP  14 14.80   0.2
AFIF  145.40 282 iPKPd 14 16.00   0.9
COP   145.43 353 iPKPd 14 14.00   0.0
       1.2s   206.25nm
AAE   145.88 254 ePKP  14 18.50   2.0X
UQSK  146.20 285 ePKP  14 17.33   0.9
DCN   146.63  14 ePKP  14 19.40   3.3X
       1.1s   145.00nm
DLF   146.84  13 ePKP  14 17.50   1.1
       1.1s   160.00nm
SIM   146.90 322 iPKP+ 14 20.00   3.2X
     Z  20s     1.10um          5.6Msz
WME   147.19  11 ePKP  14 18.50   1.5
YRC   147.28  11 ePKP  14 18.60   1.5
KVT   147.74 314 iPKP  14 21.00   2.6X
KIS   148.32 329 iPKP+ 14 23.00   4.0X
     Z  22s     1.70um          5.8Msz
                e     17 50.00
BRNL  148.50 351 ePKPc 14 23.00   3.9X
GAZ   148.54 307 ePKP  14 20.80   1.1
WIT   148.67 359 ePKP  14 21.00   1.7
KAS   149.09 316 ePKP  14 26.00   5.5X
OJC   149.20 342 iPKPc 14 35.50  15.2X
       1.3s    75.00nm
                i     14 40.90
                e     14 43.90
WTS   149.49 359 ePKP  14 21.00   0.4
       1.0s    51.30nm
KSP   149.50 347 ePKPc 14 20.80   0.0
       1.4s   168.00nm
                ic    14 25.90
                i     14 37.60
PTT   149.53 331 ePKP  14 20.00  -0.9
CLL   149.64 351 iPKP  14 21.60   0.7
       1.8s    49.00nm
UZH   149.79 338 iPKP  14 21.50   0.3
       1.2s   428.00nm
                i     14 28.00
BRG   149.92 350 iPKP  14 21.70   0.3
       1.5s   190.00nm
     Z  18s     1.20um          5.7Msz
     N  18s     2.10um
     E  18s     5.60um
                i     14 26.50
CFR   149.97 327 ePKP  14 22.50   0.9
SPC   149.98 341 ePKP  14 21.90   0.1
                ePP   18 06.50
VRI   150.18 330 ePKP  14 27.50   5.6X
BNS   150.51 358 ePKPc 14 27.70   5.5X
PRU   150.66 348 ePKP  14 22.90   0.4
       1.4s   305.00nm
                e     14 28.30
                e     14 33.80
UCC   150.68   2 PKP+ 14 28.00   5.5X
ENN   150.73 360 ePKP  14 29.00   6.5X
       1.3s    87.00nm
MLR   150.82 330 ePKP  14 22.50  -0.6
SNF   150.96   2 PKP  14 30.30   7.4X
TNS   151.19 356 ePKP  14 29.80   6.4X
                ePKPab14 37.60
PSZ   151.21 340 ePKPc 14 23.70   0.2
DOU   151.39   1 PKPc 14 25.00   1.4
                e     14 30.70
WAJH  151.41 286 ePKP  14 32.00   7.7X
GRF   151.47 352 ePKPc 14 24.10   0.3
                i     14 30.70
                e     14 38.80
BUC   151.55 328 ePKPd 14 20.00  -4.0X
KHC   151.66 349 PKP   14 24.50   0.4
       1.2s    60.00nm
     Z  22s     1.20um          5.7Msz
     N  22s     1.10um
     E  22s     0.80um
                i     14 30.50
                e     15 03.50
WET   151.76 350 iPKPd 14 25.00   0.7
ZST   151.77 344 ePKP  14 23.70  -0.5
                e(PP) 18 09.00
SRO   151.79 342 ePKP  14 25.40   1.2
                ePP   18 08.30
EYL   151.82 318 ePKP  14 21.00  -3.7X
WLF   151.83 359 iPKPc 14 31.50   7.3X
GPA   151.88 317 iPKP  14 32.00   7.3X
VKA   151.91 345 iPKPc 14 25.70   1.2
                i     14 31.00
                i     14 52.60
GEC2  151.91 349 PKP   14 24.80   0.2
       1.2s     7.48nm
                e     14 31.70
FLN   152.29   9 ePKP  14 23.40  -1.6
       1.2s    77.95nm
SOP   152.39 344 e(PKP)14 25.00  -0.1
HOFF  152.50 357 PKP   14 24.76  -0.5
LDF   152.51   8 ePKP  14 25.40   0.1
       1.5s    95.60nm
GRR   152.60  10 ePKP  14 25.60   0.2
       1.6s   138.05nm
UZD   152.80 340 e(PKP)14 24.00  -1.7
STR   152.87 357 PKP   14 25.64  -0.1
LPF   152.92  10 ePKP  14 26.30   0.5
       1.1s    60.30nm
FUR   152.96 352 ePKP  14 26.70   0.7
                i     14 33.80
                i     14 44.90
CDF   153.06 358 ePKP  14 27.00   0.8
       1.4s    55.75nm
BHG   153.14 349 ePKP  14 26.90   0.7
                i     14 45.20
VITF  153.28 360 PKP   14 25.82  -0.6
LIBD  153.30 357 PKP   14 26.02  -0.4
HAU   153.49 359 ePKP  14 27.80   1.1
       1.5s    60.60nm
     Z  20s     1.05um          5.6Msz
FEL   153.56 357 PKP   14 27.31   0.4
BSF   153.65 358 ePKP  14 28.10   1.0
       1.4s    33.55nm
KBA   153.68 348 iPKPc 14 26.60  -0.6
                i     14 48.30
                i     14 59.40
                i     18 12.60
WATA  153.73 351 iPKPc 14 26.80  -0.4
                i     14 35.60
                i     14 48.10
                i     14 59.80
MOTA  153.79 352 (PKP) 14 27.40   0.1
                i     14 35.50
                i     14 48.40
WTTA  153.79 351 iPKPc 14 26.80  -0.6
                i     14 35.80
                i     14 48.50
                i     15 00.20
SQTA  153.89 351 iPKPc 14 26.60  -0.8
                i     14 36.60
                i     14 47.70
BBS   153.99 357 PKP   14 27.59   0.1
LOMF  154.13 358 PKP   14 27.89   0.2
LOR   154.19   3 ePKP  14 29.30   1.6
       1.5s    50.65nm
     Z  20s     1.63um          5.8Msz
PTJ   154.19 343 ePKP  14 25.10  -2.7X
ZAG   154.26 343 ePKP  14 24.00  -3.8X
VTS   154.31 329 iPKP  14 28.00  -0.2
SSF   154.38   3 ePKP  14 29.90   2.0X
       1.5s    74.15nm
LJU   154.41 346 ePKPc 14 28.00   0.0
                ePKPbc14 34.90
                ePKPab14 51.00
LBF   154.48   3 ePKP  14 30.00   1.9
       1.5s    48.05nm
VOY   154.57 347 ePKP  14 27.80  -0.5
                ePKPbc14 39.40
                e     15 12.70
                e     15 37.30
VBY   154.74 344 iPKPc 14 29.00   0.6
TCF   155.05   6 ePKP  14 33.40   4.6X
       1.4s    33.55nm
HLW   155.45 295 ePKP  14 25.00  -4.8X
SKO   155.61 331 iPKP  14 30.00   0.2
                i     18 38.00
OHR   156.59 330 iPKP  14 31.50   0.3
FIR   157.25 350 ePKP  14 30.00  -1.8
BCAO  159.00 218 iPKPc 14 34.10  -0.6
       1.0s    55.00nm
                i     15 11.90
GUD   159.10  21 iPKPd 14 34.50   0.3
ETOR  159.59  17 ePKP  14 36.20   1.5
EVAL  160.63  31 ePKP  14 [illegible].00   0.3
EVIA  161.46  21 ePKP  14 [illegible]8.60   1.9
LIC   161.66 144 PKP   14 37.19  -0.2
       1.1s    19.00nm
     Z  18s     2.50um
ELUQ  161.76  26 ePKP  14 37.60   0.6
LIJA  161.82  30 ePKP  14 40.00   2.9X
EPRU  161.84  29 ePKP  14 35.50  -1.5
ALJ   161.91  30 ePKP  14 40.00   2.8X
KIC   161.93 145 ePKP  14 36.49  -1.2
       1.0s    18.50nm
                e     15 24.00
TIC   162.01 143 PKP   14 37.29  -0.5
       1.0s    18.50nm
MOMI  162.14  31 ePKP  14 41.00   3.7X
EJIF  162.15  31 iPKPd 14 38.20   0.9
EHUE  162.17  22 ePKP  14 38.00   0.6
PLAT  162.28  32 ePKP  14 41.00   3.5X
ECOG  162.29  25 ePKP  14 37.80   0.2
MAL   162.41  28 iPKP  14 39.00   1.5
                i     15 28.00
EGUA  162.67  26 ePKP  14 37.50  -0.3
AVE   163.43  42 iPKP  14 40.50   1.8
IFR   164.62  36 iPKP  14 44.00   4.0X
     S.D. = 1.0  on 256 of 347 obs.
-----------------------------------
   OCT  04, 1993  21h 14m 46.24± 0.39s
   45.376 N ± 4.1km    6.801 E ± 5.2km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                            (538)
     ML 2.5 (LDG), 2.4 (GEN).

LPG     0.13 344 Pg    14 49.20  -0.4
                Sg    14 52.10
LPL     0.15 341 Pg    14 49.40  -0.5
                Sg    14 52.20
LSD     0.26  72 P     14 52.78   0.9
                S     14 57.96
RSP     0.39 125 P     14 54.89   0.6
                S     15 01.80
RRL     0.46 182 P     14 54.16  -1.4
                S     15 00.70
BHB     0.63 148 P     14 58.55  -0.3
                S     15 08.12
PZZ     0.90 166 P     15 03.13  -0.4
                S     15 15.30
ENR     1.23 159 P     15 08.99  -0.2
ROB     1.32 144 P     15 11.23   0.5
PCP     1.49 123 P     15 12.66  -0.5
FIN     1.54 139 P     15 12.76  -1.0
SBF     1.58 163 Pg    15 18.90   4.5X
                Sg    15 40.30
IMI     1.66 152 P     15 14.39  -1.2
FRF     1.82 184 Pg    15 19.80   2.0
                Sg    15 46.70
LRG     1.95 189 Pg    15 21.50   1.9
LMR     2.05 186 Pg    15 24.30   3.1X
SMF     2.42 303 Pg    15 30.30   3.8X
                Sg    16 00.50
LBF     2.54 310 Pn    15 28.70   0.5
                Pg    15 33.10
HAU     2.65 353 Pn    15 29.60  -0.2
                Pg    15 36.40
LOR     2.78 314 Pn    15 32.30   0.6
                Pg    15 37.70
SSF     2.84 308 Pn    15 32.80   0.3
                Pg    15 39.80
BGF     3.00 295 Pn    15 33.60  -1.1
                Pg    15 40.50
MAF     3.08 287 Pn    15 35.70  -0.1
     S.D. = 1.0  on  20 of  23 obs.
-----------------------------------
*  OCT  04, 1993  22h 22m 59.04± 2.01s
   40.284 N ± 8.8km   20.272 E ±18.9km
   DEPTH =   5.0km  (geophysicist)
 GREECE-ALBANIA BORDER REGION     (392)
     ML 2.5 (THE).

IGT     0.75 176 ePg   23 13.64  -0.5
                eSg   23 26.16
OHR     0.92  26 ePg   23 17.50   0.4
                eSg   23 31.00
FNA     0.98  59 ePg   23 15.64  -2.5
                eSg   23 30.76
```

```
LIT      1.71  95 ePb   23 30.12   0.5
                  eSb   23 52.96
GRG      1.75  67 ePb   23 30.84   0.5
                  eSb   23 55.16
AGG      2.03 128 ePn   23 34.56   0.3
THE      2.08  80 ePn   23 35.16   0.1
KNT      2.18  65 ePn   23 37.64   1.2
                  eSn   24 04.60
PAIG     2.64  97 ePn   23 43.08   0.1
                  eSn   24 19.00
     S.D. = 1.2  on   9 of   9 obs.
-----------------------------------
*  OCT  04, 1993  23h 57m 14.83± 0.84s
   31.108 S ±13.0km   68.427 W ± 8.7km
   DEPTH = 100.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA     (137)
      MD 4.0 (SAN).

ZON      0.49 206 iPd   57 31.90   1.1
RTCB     0.49 220 iPd   57 32.00   1.1
CFA      0.52 162 iPc   57 31.80   0.8
                  S     57 43.00
RTCV     0.76 187 iPd   57 33.20   0.1
JACH     2.42 229 iP    57 54.63   1.0
                  iS    58 26.59
MRA      2.66 120 ePd   57 56.30  -0.3
                  S     58 24.00
FCH      2.72 215 iP    57 58.55   0.7
                  iS    58 34.74
PEL      2.79 223 iP    57 59.07   0.5
ROCH     2.88 229 iP    57 59.93   0.0
                  iS    58 34.06
PCH      3.07 215 iP    58 02.62   0.3
                  iS    58 41.10
TCA      3.29  95 i(P)d 58 05.00  -0.5
                  (S)   58 38.00
TACH     3.31 219 iP    58 04.85  -0.7
                  iS    58 43.71
CYA      3.51  41 iPd   58 08.00  -0.3
                  S     58 43.00
CACH     3.52 211 iP    58 08.71   0.2
LCCH     3.56 228 iP    58 07.41  -1.6
LNV      3.80 221 iP    58 09.75  -2.5
     S.D. = 1.1  on  16 of  16 obs.
-----------------------------------
   OCT  05, 1993  00h 22m 40.50± 0.57s
   10.401 N ± 9.4km   94.254 E ± 7.4km
   DEPTH =  28.3km  (  3 depth phases)
   4.7mb ( 14 obs.)
 ANDAMAN ISLANDS, INDIA           (703)

KHT      6.08  44 iPd   24 10.60  -0.2
NST      7.76  47 eP    24 34.00  -0.5
KMI     16.71  28 Pc    26 38.00   3.4X
         1.5s   100.00nm          4.7mb
GBA     16.76 283 P     26 36.00   1.1
                  S     29 51.00
LSA     19.42 352 P     27 06.50  -1.6
GYA     19.82  35 P     27 13.00   1.0
         1.2s    65.00nm          4.8mb
                  pP    27 21.00  31km
POO     21.33 295 eP    27 29.00   1.3
CD2     22.24  22 Pc    27 37.30   0.7
         1.4s    74.00nm          4.9mb
LZH     27.01  17 P     28 22.50   0.2
         2.0s    80.00nm          5.0mb
      Z  15s     0.48um          4.2MszX
                  pP    28 32.00  34km
XAN     27.10  27 P     28 22.50  -0.4
         1.0s     9.00nm          4.4mb
TIY     31.73  28 eP    29 06.00   1.6
BTO     33.15  22 eP    29 16.00  -0.8
WMQ     33.78 351 P     29 22.00  -0.1
MAIO    40.66 315 eP    30 22.00   1.9
CN2     42.86  33 eP    30 39.00   1.1
         0.8s    12.00nm          4.7mb
WRA     49.66 127 P     31 33.00   0.9
         0.7s     3.30nm          4.5mb
WR2     49.68 127 eP    31 32.00  -0.3
         0.6s     9.60nm          5.0mb
                  i     31 38.20  21km
ASPA    51.47 132 iPd   31 45.60  -0.2
         1.0s     4.90nm          4.4mb
BCAO    75.18 272 iPc   34 22.20  -0.7
         0.6s     6.00nm          4.8mb
GEC2    76.04 318 P     34 26.10  -1.1
         0.8s     1.52nm          4.1mb
                  e     34 28.40   7kmX
LPG     80.93 315 eP    34 53.20  -1.0
         0.8s     5.50nm          4.6mb
LPL     80.94 315 eP    34 53.30  -0.9
         0.8s     7.00nm          4.7mb
LBF     82.68 316 eP    35 01.00  -2.0
         0.9s     7.35nm          4.8mb
     S.D. = 1.1  on  22 of  23 obs.
-----------------------------------
&  OCT  05, 1993  00h 53m 53.48s
   63.168 N          150.742 W
   DEPTH = 131.7km
 CENTRAL ALASKA                   (  1)
      <AEIC>.

TRF      0.35  36 iPc   54 12.12   1.4
                  eS    54 26.25
KTH      0.39 348 iPc   54 12.23  -0.3
                  eS    54 25.72
HUR      0.54 110 iPc   54 12.65  -0.6
                  eS    54 27.25
CUT      0.80 164 iPc   54 14.77  -0.2
RND      0.89  74 iPc   54 15.24  -0.7
                  eS    54 32.23
MCK      0.99  54 iPc   54 16.26  -0.5
                  eS    54 33.25
BWN      1.16  29 eP    54 18.21  -0.1
                  eS    54 35.94
SKT      1.25 197 iPd   54 18.86  -0.4
                  eS    54 38.21
DHY      1.53  92 eP    54 22.01  -0.6
                  eS    54 44.09
PWA      1.58 165 P     54 22.70  -0.2
NEA      1.60  27 iPd   54 21.94  -1.2
                  eS    54 42.81
GHO      1.64 148 ePc   54 23.23  -0.5
SUA      1.71 180 eP    54 24.76   0.1
PLRM     1.75 154 eP    54 23.97  -0.9
PMR      1.75 154 eP    54 24.58  -0.3
                  eS    54 47.76
WRH      1.76  41 iPd   54 24.04  -1.0
SML      1.76 140 ePc   54 24.18  -1.0
                  eS    54 48.53
MLY      1.87   0 iPd   54 25.39  -1.1
NCG      1.89 201 eP    54 26.17  -0.6
CGLM     1.96 198 eP    54 27.10  -0.5
CCB      1.97  40 iPd   54 26.42  -1.2
PMS      2.01 163 P     54 27.60  -0.5
CRP      2.02 200 ePc   54 27.60  -0.8
                  eS    54 53.65
CP2      2.04 201 ePc   54 28.18  -0.5
KNK      2.06 148 eP    54 27.98  -0.8
                  eS    54 55.03
BGL      2.06 203 eP    54 28.94   0.1
CKN      2.06 200 eP    54 28.89   0.1
SCM      2.07 129 eP    54 28.19  -0.8
SPU      2.09 198 eP    54 28.31  -0.8
                  eS    54 55.35
CKT      2.09 200 eP    54 28.51  -0.7
HDA      2.09  52 ePd   54 27.88  -1.2
MDM      2.11  30 iPd   54 28.24  -1.1
                  eS    54 55.12
CKL      2.12 201 eP    54 29.29  -0.2
FBA      2.17  35 ePd   54 28.79  -1.3
BKG      2.22 199 eP    54 30.28  -0.6
                  eS    55 00.16
THY      2.27  81 eP    54 31.23  -0.1
                  eS    55 00.25
IL1      2.34  45 iPd   54 30.93  -1.3
                  eS    55 00.71
ILB      2.34  45 iPd   54 30.90  -1.3
                  eS    54 58.92
GLM      2.35  37 iPd   54 31.32  -1.0
TOA      2.37 115 P     54 32.00  -0.6
PAX      2.41  92 ePd   54 32.38  -0.8
                  eS    55 01.83
TTA      2.41 267 eP    54 31.75  -1.5
DJE      2.42  67 eP    54 32.40  -0.9
CFI      2.43 144 eP    54 32.10  -1.2
SDG      2.47 103 eP    54 33.12  -0.8
PWL      2.58 153 eP    54 34.12  -1.2
SLKM     2.68 174 eP    54 35.85  -0.8
TZL      2.71 112 eP    54 36.53  -0.4
RDT      2.72 198 eP    54 36.74  -0.4
DFR      2.74 200 eP    54 37.01  -0.5
MPA      2.77 166 eP    54 36.53  -1.2
KLU      2.81 125 eP    54 36.61  -1.7
NCT      2.81 203 eP    54 38.66   0.2
REF      2.84 200 eP    54 38.49  -0.4
                  eS    55 11.81
RS2      2.88 200 P     54 39.50   0.1
VLZ      2.91 133 eP    54 37.41  -2.1
                  eS    55 12.13
RED      2.92 200 eP    54 39.51  -0.3
DOT      3.04  78 ePd   54 39.90  -1.5
SVW      3.09 230 ePd   54 40.70  -1.2
IM3      3.11 337 iPd   54 40.84  -1.4
SEW      3.14 168 eP    54 41.49  -1.0
                  eS    55 17.75
IMA      3.18 338 eP    54 41.50  -1.7
ILIM     3.27 200 eP    54 43.60  -0.8
INE      3.31 201 eP    54 44.16  -0.8
BRLK     3.42 181 eP    54 44.79  -1.5
                  eS    55 24.99
HIN      3.43 142 eP    54 45.05  -1.5
                  eS    55 25.45
CVA      3.54 136 eP    54 46.93  -0.9
HOM      3.55 187 eP    54 47.86  -0.1
CNPM     3.66 184 ePd   54 48.64  -0.9
                  eS    55 29.69
GLB      3.67 115 ePd   54 48.37  -1.3
                  eS    55 29.99
OPT      3.72 200 eP    54 50.04  -0.4
SGAM     3.75 133 eP    54 49.07  -1.6
PDB      3.77 208 eP    54 50.47  -0.5
RAGM     4.01 131 eP    54 53.26  -1.0
AUL      4.02 200 eP    54 54.81   0.6
AUE      4.03 200 P     54 55.20   0.8
AUP      4.03 200 P     54 55.20   0.6
BC3      4.07  87 iPd   54 53.08  -2.0
FYU      4.14  32 eP    54 54.19  -1.7
HMT      4.19 130 eP    54 55.11  -1.5
CRQM     4.33 121 eP    54 57.03  -1.6
TGL      4.45 119 eP    54 58.31  -1.9
CDD      4.48 200 eP    54 59.58  -1.0
BALM     4.49 115 eP    54 58.98  -1.7
CTGM     4.95 112 eP    55 05.41  -1.5
BM3      4.98  28 eP    55 04.92  -2.4
YAH      5.11 119 eP    55 07.51  -1.8
WRG      5.21 123 eP    55 09.83  -0.5
        88 obs. associated
-----------------------------------
*  OCT  05, 1993  00h 57m 12.53± 3.63s
   62.337 N ±21.2km    4.956 E ±26.0km
   DEPTH =   5.0km  (geophysicist)
 NORWEGIAN SEA                    (642)
      MD 2.2 (BER).

FOO      0.74 177 iPc   57 27.47   0.1
                  eS    57 40.94
MOL      1.23  78 eP    57 36.18   0.4
                  eS    57 53.65
HYA      1.31 153 eP    57 37.63   0.4
                  eS    57 59.99
ASK      1.86 176 eP    57 45.04  -0.3
                  eS    58 12.57
EGD      2.08 176 eP    57 48.57   0.2
                  eSg   58 19.16
NRA0     3.54 114 Pn    58 08.52  -0.7
                  Lg    59 06.07
     S.D. = 0.6  on   6 of   6 obs.
-----------------------------------
   OCT  05, 1993  01h 02m 39.50± 0.69s
   43.121 N ± 7.9km    0.558 W ± 5.4km
   DEPTH =  10.0km  (geophysicist)
 PYRENEES                         (378)
      ML 1.0 (STR).

ESCF     0.04 196 Pg    02 41.94   0.3
                  Sg    02 44.43
OGE      0.08  52 Pg    02 42.56   0.6
                  Sg    02 45.17
ATE      0.11 252 Pg    02 42.33   0.0
                  Sg    02 45.10
MADF     0.19 278 Pg    02 43.37  -0.4
                  Sg    02 46.23
ISSF     0.20 242 Pg    02 44.19   0.3
                  Sg    02 47.22
LHE      0.21 193 Pg    02 44.08  -0.1
                  Sg    02 47.59
EPF      0.66  97 Pg    02 52.10  -0.7
                  Sg    03 02.30
     S.D. = 0.5  on   7 of   7 obs.
-----------------------------------
```

05d 01h

```
% OCT 05, 1993 01h 40m 35.62± 1.92s
  38.807 N ±10.1km   30.358 E ±17.3km
  DEPTH =  10.0km  (geophysicist)
 TURKEY                                (366)
     ML 3.1 (ISK).

ALT      0.31 322 iPg   40 42.30   0.1
                  eSg   40 46.00
KHL      0.81 234 iPg   40 51.50   0.1
                  eSg   41 02.50
GPA      1.48 359 iPn   41 02.00  -0.3
EYL      1.76 355 iPn   41 06.80   0.3
CTT      2.77 328 ePn   41 21.00   0.2
MFT      3.09 311 ePn   41 25.00  -0.4
     S.D. = 0.4  on   6 of   6 obs.
-----------------------------------
  OCT 05, 1993  01h 59m 56.61± 0.08s
  41.667 N ± 2.3km   88.695 E ± 1.5km
  DEPTH =   0.0km  (geophysicist)
  5.9mb (194 obs.)  4.7Msz (  2 obs.)
 SOUTHERN XINJIANG, CHINA              (321)
     Underground nuclear explosion
     (DOE press release).

GTA      8.76 101 P     02 06.00  -1.7
KSH      9.93 261 P     02 23.30  -0.4
FRU     10.51 281 (P)   02 30.00  -1.6
                  eS    04 24.00
LSA     12.11 170 iPd   02 54.60   0.8
        1.3s   180.00nm          6.2mb
     Z  12s      1.33um
     N  10s      0.56um
     E  10s      0.88um
LZH     13.05 110 Pc    03 03.50  -2.6
        1.5s   600.00nm          6.6mb
     Z  15s      1.94um
                  sP    03 09.50
                  PP    03 15.00
IRK     15.00  40 eP    03 33.00   1.4
        0.8s  1064.00nm          6.4mb
     Z  12s      2.82um          3.8Msz
     N  12s      1.83um
     E  11s      2.09um
NDI     15.98 219 eP    03 39.50  -4.8X
CD2     16.18 127 P     03 47.40   0.3
        0.9s   290.00nm          5.4mb
     Z  10s      1.61um          7.2MszX
HHC     17.21  85 eP    03 58.00  -2.1
        1.0s   160.00nm          5.1mb
     Z  10s      1.52um          4.2MszX
XAN     17.67 109 P     04 03.00  -2.8
        1.0s   190.00nm          5.2mb
     Z  12s      1.38um          4.2MszX
     N  12s      2.05um
     E  12s      1.34um
                  pP    04 11.00
                  sP    04 15.00
                  PP    04 18.00
                  S     07 14.00
                  SS    07 35.00
                  PcP   08 44.00
TIY     18.68  94 iPd   04 16.00  -2.2
        0.7s   180.00nm          5.4mb
     Z  12s      2.65um          6.1MszX
CIT     19.83  50 eP    04 30.50  -1.3
KMI     20.20 140 Pc    04 34.00  -2.0
        0.6s   240.00nm          5.7mb
     Z  10s      1.30um          4.6MszX
                  pP    04 41.00  26kmX
BJI     20.82  85 eP    04 42.00  -0.1
        0.8s   230.00nm          5.6mb
     Z  16s      1.17um          4.4MszX
GYA     21.19 130 iPc   04 45.00  -1.1
        1.0s   800.00nm          6.0mb
                  PcP   08 50.80
TIA     22.72  95 Pc    05 02.10   0.8
        0.8s   290.00nm          5.8mb
     Z  13s      1.52um          4.6MszX
     N  12s      1.13um
                  PcP   08 53.90
                  eS    09 05.00
MAIO    23.26 266 iPc   05 08.00   1.3
        0.7s    92.12nm          5.4mb
                  eSn   09 28.00
WHN     23.43 110 iPc   05 09.40   1.2
        0.9s   880.00nm          6.3mb
SVE     23.54 320 iPc   05 10.00   0.9
        1.1s   500.00nm          6.0mb
                  e     05 46.70
ASH     23.54 271 P     05 11.00   1.7
ARU     24.37 317 iPc+  05 17.80   0.7
        1.0s   300.00nm          5.9mb
                  eS    09 42.00
                  e     09 45.00
CHTO    24.40 156 ePc   05 18.10   0.4
        0.8s    85.65nm          5.5mb
DL2     25.19  85 Pc    05 26.50   1.3
        1.0s   710.00nm          6.4mb
NJ2     25.86 102 Pc    05 32.00   0.5
        0.8s   120.00nm          5.7mb
BDT     25.90 157 iPc   05 32.00   0.0
        0.7s   128.90nm          5.8mb
SNY     25.92  78 iPc   05 32.40   0.4
        0.8s   400.00nm          6.2mb
     Z  10s      2.30um          5.0MszX
     E  10s      1.02um
                  PcP   09 00.60
POO     26.31 213 iPd   05 36.50   0.6
                  iS    11 22.00
LOE     26.64 151 iPc   05 39.00   0.2
CN2     26.94  73 Pc    05 41.50   0.1
        1.0s    63.00nm          5.3mb
     Z  12s      0.91um          4.6MszX
     N  10s      0.12um
     E  10s      0.81um
                  PcP   09 03.00
GZH     27.71 124 Pc    05 48.20  -0.4
NST     27.72 156 eP    05 49.00   0.3
NRI     27.80 360 iPc   05 48.00  -0.9
        1.2s    81.00nm          5.4mb
                  e     06 56.00
                  e     09 00.00
SSE     28.06 102 Pc    05 52.50   0.9
        1.0s    74.00nm          5.5mb
     Z  12s      0.90um          4.6MszX
KHT     28.13 159 eP    05 53.00   0.6
QIZ     28.87 135 P     05 58.20  -0.9
GBA     29.63 203 Pc    06 03.80  -2.1
        0.6s    18.00nm          5.1mb
MDJ     29.77  70 eP    06 07.20   0.3
        1.4s    94.00nm          5.4mb
GRO     31.50 288 iPc   06 23.00   0.8
        1.0s   160.00nm          5.9mb
                  i     07 27.00
                  eS    16 49.00
TAB     32.48 278 iPc   06 32.20   1.2
ERE     33.15 282 iP    06 38.00   1.2
PYA     33.22 290 iPc   06 37.00  -0.2
        1.0s   100.00nm          5.7mb
                  i     07 58.00
KUMJ    34.53  91 eP    06 48.70   0.0
DHR     35.13 256 eP    06 52.60  -1.3
KAGJ    35.21  93 eP    06 53.40  -1.2
YONJ    35.35  86 P     06 53.90  -1.8
MOS     35.66 311 iPc   06 58.00  -0.1
        1.8s   290.00nm          5.8mb
     Z  12s      2.70um          5.2MszX
TIK     35.94  20 iPc   07 00.00  -0.3
        1.0s   143.00nm          5.8mb
                  i     08 23.00
                  i     09 27.00
OBN     36.24 310 iPc   07 02.90  -0.1
        1.0s    94.00nm          5.5mb
     Z  12s      0.60um          4.6MszX
TKSJ    36.29  87 P     07 03.00  -0.7
CVP     37.03 120 ePc   07 12.00   2.0
ANN     37.05 293 iPd   07 10.00   0.1
        0.2s    60.00nm          6.0mb
                  e     08 30.00
TSRJ    37.09  84 P     07 09.90  -0.4
WKYJ    37.35  86 P     07 12.40  -0.2
MTMJ    38.02  81 P     07 17.40  -0.9
MAJO    38.34  81 ePc   07 19.14  -1.7
        0.9s    70.59nm          5.4mb
                  iPcP  09 34.14
MAT     38.34  81 iPc   07 19.00  -1.8
        0.9s    35.29nm          5.1mb
YSS     38.36  63 iPd   07 21.20   0.4
        1.4s   110.00nm          5.4mb
     Z  14s      1.00um          4.8MszX
     E  13s      0.90um
MRRJ    38.39  71 eP    07 20.30  -0.8
IPM     38.54 160 ePc   07 22.90   0.2
        0.6s   188.60nm          5.9mb
RYD     38.64 257 iPc   07 23.80   0.3
MJMA    38.95 260 iPc   07 25.67  -0.5
KVT     39.00 287 iP    07 26.00  -0.4
ASAJ    39.01  68 eP    07 25.80  -0.6
YAMJ    39.06  78 eP    07 25.20  -1.7
GAZ     39.54 281 iP    07 33.00   2.1
PGP     39.65 126 iPd   07 32.00   0.0
OFUJ    39.92  76 eP    07 32.20  -1.7
KAKJ    39.92  80 P     07 32.80  -1.2
HOOJ    39.96  70 eP    07 35.80   1.5
QASM    40.11 262 iPc   07 35.73  -0.1
GQP     40.26 123 ePd   07 38.50   1.5
KAS     40.53 289 iPc   07 40.70   1.6
KUSJ    40.74  69 eP    07 39.50  -1.2
UQSK    41.15 262 iPc   07 46.00   1.6
AFIF    41.52 260 iPc   07 51.00   3.6X
KGM     41.61 158 iPd   07 49.00   1.0
        1.0s   221.60nm          5.8mb
KEV     41.88 333 iPc   07 50.31   0.7
        0.8s   145.89nm          5.8mb
FAM     42.81 280 eP    07 58.20   0.5
KMSA    42.85 254 iPc   07 58.00  -0.3
KKM     43.11 138 ePd   08 03.50   3.1X
        1.1s   237.20nm          5.8mb
CFR     43.21 296 ePc   08 01.50   0.6
CSS     43.32 280 eP    08 02.00   0.1
EYL     43.37 289 eP    08 03.20   0.8
CLI     43.39 298 ePd   08 03.50   1.1
PTT     43.87 299 eP    08 06.00  -0.2
PLP     43.94 123 ePd   08 07.00  -0.1
VRI     43.96 297 ePc   08 07.50   0.5
ISK     43.96 290 eP    08 08.20   1.2
PPCY    44.08 280 eP    08 08.30   0.3
BCK     44.27 285 eP    08 09.00  -0.6
ISR     44.31 296 ePc   08 12.00   2.1
TRO     44.68 332 iPc   08 12.93   0.5
KHL     44.68 286 eP    08 13.00   0.0
ELL     45.06 284 iP    08 16.00  -0.1
EDC     45.07 290 iP    08 16.00   0.0
JMB     45.18 293 iPc   08 17.00   0.1
WAJH    45.26 267 iP    08 19.20   1.5
DHJN    45.33 252 iP    08 20.00   1.4
TSM     45.44 137 iPc   08 20.10   0.9
        0.8s   900.30nm          6.8mb
ABHA    45.47 253 iPc   08 22.53   2.8
PVL     45.78 294 iP    08 23.00   1.5
UZH     46.00 302 iPc   08 24.00   0.8
        1.9s   135.00nm          5.7mb
CIN     46.02 286 iPc   08 24.00   0.5
UPP     46.02 318 iPc   08 23.10  -0.1
                  i     08 49.70
LOF     46.69 330 iPc   08 27.57  -0.8
RZN     46.76 293 iPc   08 30.00   0.4
OJC     47.09 305 iPd   08 32.10   0.3
        0.8s    92.00nm          6.0mb
                  i     08 33.40
                  i     08 34.60
                  i     08 35.90
SPC     47.13 304 iPc   08 34.00   1.6
HLW     47.22 275 iP    08 34.00   0.9
VTS     47.46 294 iPc   08 35.00   0.0
MMB     47.49 293 iP    08 34.00  -1.1
PSZ     47.75 302 iPc   08 37.80   0.6
SRS     47.76 292 eP    08 37.94   0.6
OUR     47.81 291 eP    08 37.90   0.3
NSS     47.81 325 iPc   08 36.63  -0.7
KKB     47.82 293 iPc   08 38.00   0.3
HFS     47.90 319 iPc   08 37.70  -0.4
        0.6s   181.80nm          6.4mb
     Z  16s      0.15um          4.1MszX
                  LR    25 07.00
SOH     48.05 292 iP    08 39.02  -0.5
PAIG    48.18 291 eP    08 41.14   0.6
KNT     48.23 293 eP    08 41.26   0.3
BSD     48.53 313 iPc   08 42.40  -0.6
        0.6s    68.00nm          5.9mb
GRG     48.65 293 eP    08 44.58   0.4
SRO     48.79 302 iPc   08 47.30   2.2
NB2     48.88 321 P     08 45.20  -0.5
        0.6s   104.00nm          6.1mb
SKO     48.91 294 iPc   08 46.60   0.5
        0.9s   100.00nm          5.9mb
LIT     48.94 291 iP    08 46.30  -0.1
KSP     49.02 307 iPc   08 47.10   0.2
        0.8s    37.00nm          5.5mb
                  i     10 11.70
UZD     49.05 301 eP    08 47.60   0.5
```

```
NAO    49.12 321 P     08 44.77  -2.7
ZST    49.42 303 iP    08 50.60   0.6
FNA    49.43 293 eP    08 49.86  -0.4
AGG    49.51 290 eP    08 50.42  -0.4
IVA    49.60 296 iPc   08 52.72   1.2
PVY    49.66 295 iPc   08 53.07   1.1
BCI    49.68 295 eP    08 51.40  -0.7
OHR    49.70 293 iP    08 51.70  -0.6
PHP    49.71 294 iPd   08 52.20  -0.1
COP    49.71 314 iPc   08 52.50   0.4
       0.7s   128.77nm          6.0mb
PLE    49.75 297 iPc   08 53.59   0.8
VKA    49.89 304 iPc   08 54.50   0.9
       1.5s   269.00nm          6.0mb
KBN    49.91 293 eP    08 52.00  -1.9
SOP    49.95 303 ePd   08 54.90   0.9
KONO   50.02 319 eP    08 44.21 -10.2X
MOL    50.18 323 iPc   08 55.27  -0.3
SDA    50.20 295 eP    08 55.70  -0.3
TTG    50.20 296 iPc   08 56.42   0.4
LACI   50.23 294 iPd   08 55.60  -0.6
NKY    50.23 296 iPc   08 56.21  -0.2
BRNL   50.23 310 ePc   08 55.00  -1.1
TIR    50.24 294 eP    08 57.00   0.7
PRU    50.36 306 iPc   08 57.40   0.2
       1.0s    55.20nm          5.4mb
                pP     08 58.90   5kmX
                e      09 25.50
                PcP    10 15.50
ULC    50.40 295 iPc   08 57.80   0.2
BRG    50.41 308 iPc   08 57.80   0.3
       1.1s    52.00nm          5.4mb
                i      09 11.40
                iPcP   10 16.30
BRY    50.49 296 eP    08 58.15  -0.3
IGT    50.69 292 eP    08 58.94  -0.9
IGT    50.69 292 iP    08 58.97  -0.8
SRN    50.77 292 eP    09 00.00  -0.3
CLL    50.82 308 iPc   09 00.50  -0.1
       0.7s   115.00nm          5.9mb
                i      09 27.30
                (PcP)  10 18.10
VLO    50.86 293 eP    09 00.00  -1.1
PTJ    51.00 301 iPc   09 02.10  -0.1
ZAG    51.02 301 iPc   09 02.20   0.0
MUD    51.21 316 iPc   09 03.50   0.0
       0.7s    70.00nm          5.7mb
                i      09 16.00
KHC    51.26 306 iPc   09 04.40   0.3
       0.9s    21.50nm          5.1mb
                e      09 14.00
                ePcP   10 19.50
                e      11 10.50
GEC2   51.29 305 P     09 04.70   0.3
       1.1s    24.88nm          5.0mb
                PcP    10 20.00
FOO    51.59 323 iPc   09 05.86  -0.4
VBY    51.61 301 iPc   09 07.00   0.3
                iPcP   10 21.60
WET    51.68 306 iPc   09 07.80   0.6
       0.9s    55.00nm          5.5mb
HVAR   51.78 298 iPc   09 07.10  -0.9
BER    51.84 321 eP    09 07.51  -0.7
HOF    51.84 307 iPc   09 08.80   0.3
       0.8s    32.00nm          5.3mb
LJU    51.86 302 ePc   09 08.40  -0.2
                e      09 18.20
                ePcP   10 21.50
ASK    51.87 321 eP    09 07.58  -0.9
EGD    51.93 321 eP    09 08.21  -0.7
KBA    52.19 303 iPc   09 11.20  -0.2
       0.5s    24.50nm          5.4mb
                i      09 20.80
BHG    52.23 304 iPc   09 12.10   0.7
       1.4s   196.00nm          5.8mb
RIY    52.23 301 iPc   09 10.90  -0.5
VOY    52.27 302 iPc   09 10.80  -1.0
                e      09 16.80
                e      09 21.70
                ePcP   10 22.90
KMY    52.27 320 eP    09 11.49   0.0
GRF    52.47 307 iPc   09 14.10   0.9
       1.0s   165.00nm          5.9mb
     Z  24s     0.10um          3.8MszX
                ePcP   10 24.00
FUR    53.04 305 iPc   09 18.20   0.7
       1.0s   204.00nm          6.0mb
ILT    53.12  28 iPc   09 16.80  -0.9
       1.0s   300.00nm          6.2mb
     Z  18s     0.60um          4.7Msz
     E  18s     0.70um
                i      10 21.00
WTTA   53.19 304 iPc   09 18.70  -0.1
       0.5s    72.80nm          5.9mb
                i      09 25.00
                i      09 30.00
WATA   53.19 304 iPc   09 18.50  -0.3
                i      09 29.70
SQTA   53.47 304 iPc   09 20.50  -0.3
       0.7s    89.50nm          5.9mb
MOTA   53.48 304 iPc   09 20.60  -0.3
       0.9s    84.00nm          5.7mb
                i      41 28.20
                i      41 37.30
DAG    53.65 344 iPd   09 22.20   0.7
       0.6s    92.00nm          6.0mb
CTI    53.68 303 P     09 21.62  -0.7
       1.4s    95.80nm          5.6mb
SGO    53.69 295 P     09 22.64   0.4
       1.4s   183.30nm          5.9mb
MGR    53.71 294 P     09 22.44   0.0
       0.7s   223.00nm          6.3mb
OGA    53.73 304 iPc   09 22.50  -0.3
       1.2s    54.00nm          5.4mb
DUI    53.76 297 P     09 23.22   0.3
       1.1s    98.50nm          5.7mb
WIT    53.88 312 eP    09 24.50   1.0
                ePcP   10 31.00
TNS    53.90 308 ePc   09 23.80   0.0
                ePcP   10 30.10
ARV    53.95 299 P     09 24.12  -0.1
       1.2s   166.30nm          5.9mb
RSM    54.08 300 P     09 25.70   0.6
       1.5s   248.00nm          6.0mb
WTS    54.13 311 iPc   09 25.50   0.2
       0.7s    71.90nm          5.8mb
                e      09 53.00
                ePcP   10 30.50
AQU    54.16 298 P     09 26.20   0.4
       0.8s   163.30nm          6.1mb
SDI    54.17 297 P     09 25.76  -0.1
       0.7s    77.00nm          5.8mb
ASS    54.33 299 P     09 27.37   0.3
       0.8s    80.80nm          5.8mb
SOI    54.33 292 P     09 26.80  -0.2
       0.5s    48.60nm          5.8mb
BNS    54.34 310 iPc   09 26.90   0.0
OSS    54.36 304 iPc   09 27.20  -0.1
GMB    54.42 292 P     09 27.73  -0.1
       0.7s    83.20nm          5.9mb
SFI    54.48 300 P     09 29.04   1.1
       0.9s   227.50nm          6.2mb
CRE    54.54 300 P     09 28.92   0.3
       0.8s    26.30nm          5.3mb
AAE    54.57 248 P     09 30.60   1.2
MSI    54.61 292 P     09 28.62  -0.5
       0.6s   193.70nm          6.3mb
MNS    54.62 298 P     09 28.79  -0.4
       0.8s   188.70nm          6.2mb
ATN    54.70 292 P     09 28.95  -0.8
       1.0s   143.90nm          6.0mb
HOFF   54.72 307 P     09 29.98   0.2
LANF   54.80 307 P     09 30.20  -0.2
SRBF   54.80 307 P     09 30.20  -0.2
VDL    54.86 304 iPc   09 30.80  -0.3
RMP    54.87 298 P     09 30.97   0.0
       0.6s    97.10nm          6.0mb
RDP    54.88 297 P     09 31.15   0.0
       1.2s   322.80nm          6.2mb
SLE    54.91 306 iPc   09 31.10  -0.1
FIR    54.93 300 eP    09 32.00   0.7
LLS    54.99 304 iPc   09 31.30  -0.7
ZLA    55.09 305 iPc   09 32.10  -0.5
ENN    55.15 310 iPc   09 32.70  -0.1
       0.7s    89.50nm          5.9mb
                e      10 00.50
FEL    55.15 306 P     09 32.50  -0.6
MEM    55.17 310 iPc   09 32.76  -0.2
       0.9s    19.90nm          5.1mb
LIBD   55.28 306 P     09 33.59  -0.3
WLS    55.32 307 P     09 33.59  -0.6
MNO    55.34 292 P     09 34.58  -0.1
       0.6s   112.50nm          6.1mb
CDF    55.36 307 eP    09 34.10  -0.5
       0.9s    81.25nm          5.8mb
TMA    55.40 304 iPc   09 33.90  -1.1
PII    55.42 300 P     09 34.38  -0.6
       0.6s    53.50nm          5.8mb
WLF    55.49 309 iPc   09 35.58   0.3
       1.0s    38.90nm          5.4mb
ECH    55.52 307 P     09 35.03  -0.6
MEU    55.58 291 P     09 36.25   0.0
       0.8s    36.70nm          5.5mb
PZI    55.62 291 P     09 35.93  -0.6
       0.6s   116.20nm          6.1mb
MOF    55.70 306 P     09 36.55  -0.5
GIB    55.77 293 P     09 35.95  -1.7
       0.5s    78.50nm          6.0mb
BSF    55.91 306 eP    09 38.10  -0.5
       0.8s    55.05nm          5.6mb
PJG    55.93 103 e(P)  09 48.40   9.5X
GUMO   55.93 103 (P)   09 38.78  -0.1
MMK    55.99 304 iPc   09 38.90  -0.4
GUA    56.00 103 e(P)  09 45.70   6.3X
HAU    56.10 307 eP    09 39.40  -0.4
       0.7s    35.60nm          5.5mb
LOMF   56.10 306 P     09 39.29  -0.6
ORO    56.17 304 P     09 37.65  -2.8
       0.4s    35.30nm          5.7mb
SNF    56.20 310 Pc    09 40.30  -0.1
DOU    56.20 310 iPc   09 40.50   0.0
       0.7s    60.00nm          5.7mb
MCT    56.22 293 P     09 42.34   1.4
       0.7s    29.40nm          5.4mb
VITF   56.22 307 P     09 40.40  -0.3
PCP    56.32 302 P     09 40.33  -1.1
DIX    56.32 304 iPc   09 41.60  -0.2
FAI    56.37 292 P     09 41.95   0.1
       0.6s   113.20nm          6.1mb
CKI    56.54 302 P     09 42.11  -0.9
       1.3s   152.40nm          5.9mb
EMS    56.62 304 iPc   09 43.40  -0.4
FIN    56.68 302 P     09 42.38  -1.7
LSD    56.77 304 P     09 44.67  -0.3
CVT    56.78 293 P     09 43.13  -1.6
       1.0s   246.30nm          6.2mb
RSP    56.84 303 P     09 42.61  -2.7
ROB    56.86 302 P     09 43.90  -1.5
PGF    56.96 300 eP    09 46.10  -0.1
       0.7s    77.15nm          5.8mb
BHB    56.99 303 P     09 43.71  -2.5
RSL    56.99 304 P     09 45.92  -0.5
LPG    57.00 304 eP    09 47.00   0.3
       0.8s   325.60nm          6.4mb
LPL    57.00 304 eP    09 46.90   0.3
       0.7s   186.10nm          6.2mb
IMI    57.03 302 P     09 46.23  -0.4
DOI    57.16 303 P     09 45.43  -2.1
       0.8s    54.60nm          5.6mb
ENR    57.18 302 P     09 45.91  -1.8
SAOF   57.20 302 P     09 47.77   0.0
STV    57.23 302 P     09 46.05  -2.0
PZZ    57.25 303 P     09 45.77  -2.5
RRL    57.25 303 P     09 47.83  -0.5
BNI    57.26 303 P     09 47.95  -0.3
       1.0s   114.20nm          5.9mb
AUTN   57.28 302 P     09 48.37  -0.2
SBF    57.34 302 eP    09 48.60  -0.2
       0.7s   233.70nm          6.3mb
TOUF   57.39 302 P     09 48.89  -0.4
AURF   57.40 302 P     09 48.97  -0.3
REVF   57.44 302 P     09 48.51  -1.0
MVIF   57.50 302 P     09 49.34  -0.7
CALN   57.74 302 P     09 51.30  -0.4
LOR    57.93 307 eP    09 51.80  -1.0
       0.7s   107.60nm          6.0mb
FRF    57.99 302 eP    09 52.70  -0.5
       0.7s    57.10nm          5.7mb
LBF    58.00 306 eP    09 52.20  -1.1
       0.8s    52.10nm          5.6mb
EKA    58.02 318 Pc    09 52.50  -0.8
       0.6s    63.10nm          5.8mb
LMR    58.18 302 eP    09 54.20  -0.4
       0.6s    47.25nm          5.7mb
LRG    58.22 302 eP    09 54.50  -0.3
       0.6s    41.10nm          5.7mb
BRW    58.23  20 (P)   09 53.98  -0.6
SMF    58.24 306 eP    09 54.40  -0.6
       0.7s   221.35nm          6.3mb
SSF    58.24 307 eP    09 54.20  -0.8
       0.6s    58.25nm          5.8mb
```

05d 02h

AVF	58.47	307	eP	09 55.90	-0.6
	0.7s	115.55nm			6.1mb
BGF	58.88	306	eP	09 58.80	-0.7
	0.7s	105.40nm			6.1mb
MAF	59.22	306	eP	10 01.70	-0.1
	0.7s	246.05nm			6.4mb
TCF	59.40	306	eP	10 02.90	-0.2
	0.6s	233.75nm			6.5mb
ANM	59.43	29	ePc	10 03.40	0.4
LDF	59.63	310	eP	10 03.80	-0.8
	0.7s	138.45nm			6.2mb
FLN	59.76	310	eP	10 04.60	-0.9
	0.6s	87.65nm			6.1mb
LSF	59.83	307	eP	10 05.10	-0.9
	0.7s	63.05nm			5.9mb
GRR	60.16	310	eP	10 07.50	-0.7
	0.7s	207.25nm			6.4mb
CAF	60.17	305	eP	10 08.50	0.1
	0.8s	51.45nm			5.7mb
RJF	60.31	306	eP	10 09.50	0.1
	0.7s	158.75nm			6.3mb
LPF	60.45	310	eP	10 09.40	-0.8
	0.6s	72.50nm			6.0mb
MFF	60.65	308	eP	10 10.90	-0.7
	0.8s	100.75nm			6.0mb
DLF	60.74	317	iPc	10 11.40	-0.7
	0.7s	108.00nm			6.1mb
LPO	60.83	305	eP	10 13.00	0.1
	0.6s	141.40nm			6.3mb
MTHF	60.90	303	P	10 13.19	-0.2
PERF	60.92	302	P	10 12.70	-0.8
LFF	60.97	306	eP	10 14.10	0.3
	0.6s	240.95nm			6.5mb
DCN	61.10	317	iPc	10 14.30	-0.2
	0.7s	203.00nm			6.4mb
VDCF	61.18	303	P	10 14.63	-0.7
LSPF	61.29	303	P	10 16.02	0.0
TRGS	61.48	303	P	10 17.18	-0.4
GRBF	61.57	303	P	10 17.45	-0.6
LESF	61.63	304	P	10 18.10	-0.3
SALF	61.83	303	P	10 18.52	-1.3
EPF	62.22	304	eP	10 21.60	-0.8
	0.7s	124.80nm			6.3mb
ESEL	62.34	300	iPc	10 23.62	0.5
IMA	62.42	24	ePc	10 23.10	-0.4
EGRA	63.08	304	iPc	10 24.96	-2.9
ELIZ	63.30	305	iPc	10 29.61	0.1
EBR	63.31	302	iPd	10 29.00	-0.5
EROQ	63.37	302	iPc	10 29.47	-0.4
NAI	63.41	242	iP	10 32.00	1.3
TTA	63.74	27	ePc	10 32.20	0.1
	1.2s	119.80nm			6.0mb
RES	63.91	1	ePc	10 32.50	-0.4
	0.6s	8.00nm			5.1mb
			pP	11 07.00	144kmX
ECRI	64.21	305	iPc	10 35.79	0.3
ETOR	64.92	303	iPc	10 39.61	-0.6
COL	65.00	23	iPc	10 39.88	-0.3
	0.7s	241.69nm			6.5mb
FBA	65.00	23	ePc	10 40.00	-0.2
SVW	65.09	29	ePc	10 41.70	0.8
	0.8s	86.60nm			6.0mb
INK	65.89	16	iPc	10 45.50	-0.3
	0.9s	71.00nm			5.9mb
CP2	66.18	28	eP	10 47.96	-0.1
EALH	66.20	300	iPc	10 48.50	0.2
CRP	66.20	27	ePc	10 47.50	-0.7
GUD	66.34	304	iPc	10 49.29	0.0
EVIA	66.45	301	iPc	10 50.29	0.3
MTN	66.86	134	eP	10 51.40	-1.2
	0.6s	73.00nm			6.1mb
SDN	66.95	35	eP	10 50.90	-1.8
EHUE	66.98	301	iPc	10 53.33	-0.1
PMR	66.99	26	ePc	10 52.20	-0.7
	0.6s	74.80nm			6.1mb
PAB	67.09	303	ePd	10 53.38	-0.7
	0.8s	83.43nm			6.0mb
WWKK	67.16	118	eP	10 55.40	0.7
ENIJ	67.22	300	iPc	10 54.20	-0.7
SLKM	67.41	27	iPc	10 54.44	-1.2
EBAN	67.54	302	iPc	10 56.74	-0.1
TOA	67.56	25	ePc	10 56.80	0.1
EPLA	67.87	304	iPc	10 59.27	0.4
ECOG	67.92	301	iPd	10 58.31	-1.1
KNA	68.07	138	iPc	11 00.50	0.3
	0.8s	236.00nm			6.5mb
KLU	68.10	25	iPc	10 59.41	-0.7

EGUA	68.18	300	iPc	10 59.99	-0.9
ELUQ	68.21	301	iPc	11 00.85	-0.2
KDC	68.57	30	ePc	11 02.20	-0.6
EHOR	68.68	302	iPc	11 03.84	-0.1
EMEL	68.70	299	iPd	11 03.98	-0.1
MAL	68.79	301	iPc	11 03.80	-0.8
MBL	68.84	149	iPc	11 04.50	-0.5
	0.7s	169.00nm			6.4mb
EPRU	69.18	301	iPc	11 06.44	-0.6
MID	69.53	27	eP	11 09.50	0.8
BALM	69.56	24	iPc	11 09.03	-0.1
EJIF	69.64	301	iPc	11 08.96	-0.9
EVAL	69.77	303	iPc	11 10.64	0.0
IFR	71.20	298	iPc	11 20.00	0.4
CZD	71.43	298	iP	11 23.50	2.7
BCAO	72.28	260	iPc	11 25.00	-1.1
	0.2s	144.00nm			6.8mb
			i	12 02.80	
			i	14 04.00	
FRB	73.39	350	eP	11 31.00	-0.7
	0.8s	18.00nm			5.2mb
MEEK	73.39	152	iPc	11 31.20	-1.0
	0.5s	48.00nm			5.8mb
PMG	73.79	119	eP	11 34.00	-0.8
TIO	74.22	297	iPc	11 37.80	0.4
WRA	74.44	136	P	11 38.50	0.0
	0.7s	150.50nm			6.1mb
OUK	74.45	298	iP	11 41.00	2.5
WR2	74.46	136	iPd	11 38.20	-0.4
	0.6s	463.10nm			6.7mb
YKA	74.51	11	eP	11 38.10	-0.2
	0.8s	51.70nm			5.6mb
CIA	74.82	299	iP	11 41.50	0.9
MRWA	74.91	155	iPc	11 40.50	-0.5
	0.3s	11.00nm			5.4mb
SIT	74.91	23	ePc	11 41.80	1.1
	0.7s	110.20nm			6.0mb
JHA	75.15	299	iP	11 44.00	1.5
WARB	76.10	145	iPc	11 36.40	-11.4X
	1.0s	227.00nm			
BAL	76.42	155	iPc	11 49.20	-0.3
	0.5s	131.00nm			6.3mb
ASPA	77.31	138	iPc	11 54.80	0.1
	0.7s	143.20nm			6.2mb
MUN	77.54	156	iPc	11 56.50	0.8
	0.7s	225.00nm			6.4mb
KLB	77.67	155	iPc	11 55.70	-0.7
	0.7s	92.00nm			6.0mb
QIS	77.79	132	iPd	11 57.60	0.3
COOL	78.15	152	eP	11 58.50	-0.6
	0.7s	126.00nm			6.1mb
NWAO	78.74	156	iPc	12 01.80	-0.5
	0.7s	91.00nm			5.9mb
LSZ	79.48	239	iPd	12 07.00	0.1
FCC	79.91	1	eP	12 08.00	-0.3
FORT	80.72	146	iPd	12 13.10	0.1
	0.6s	71.00nm			5.8mb
CTA	81.28	127	iPc	12 16.80	0.6
	1.0s	80.00nm			5.7mb
CTAO	81.28	127	iPc	12 16.50	0.3
	0.6s	3838.56nm			7.6mb X
BUL	82.85	235	iPd	12 25.30	0.8
	0.8s	72.76nm			5.9mb
JAQ	83.97	351	iPc	12 29.50	-0.1
MCW	85.83	20	iPc	12 40.34	1.2
STW	86.10	21	P	12 41.70	1.3
BFT	86.20	231	iPc	12 40.00	-1.4
	1.1s	160.00nm			6.1mb
JCW	86.51	20	P	12 43.25	0.7
GMW	86.89	21	eP	12 45.58	1.2
RMW	87.23	20	iPc	12 47.19	1.1
ONR	87.24	22	P	12 47.61	1.6
SLR	87.27	232	iPc	12 45.50	-1.0
	1.0s	100.00nm			6.0mb
WTV	87.47	19	P	12 47.57	0.4
NEW	87.59	17	iPc	12 48.20	0.4
	0.9s	111.29nm			6.2mb
SAW	87.60	19	P	12 48.25	0.5
DPW	87.72	18	iPc	12 49.19	0.8
FMW	87.75	20	P	12 49.48	0.7
BMW	87.75	21	iPc	12 49.77	1.2
LON	87.88	20	iPc	12 49.77	0.6
STK	87.91	137	iPc	12 49.00	-0.2
	0.9s	33.30nm			5.7mb
KSR	88.19	233	iPc	12 33.50	-17.4X
	0.8s	86.00nm			
SHW	88.28	21	ePc	12 52.48	1.2

ULM	88.38	3	ePc	12 53.00	1.6
WAH2	88.44	19	P	12 52.65	0.9
KMOR	88.45	22	P	12 53.35	1.4
ASR	88.49	21	P	12 53.33	1.1
ADE	88.99	141	eP	12 55.20	0.8
VGB	89.29	20	iPc	12 57.11	1.1
CBM	89.41	344	iPc	12 56.67	0.3
	0.7s	75.00nm			6.0mb
SSOR	89.45	22	P	12 57.67	0.8
VBEM	89.50	21	P	12 58.16	1.0
LNOR	89.58	18	P	12 57.79	0.5
JBO	89.58	20	P	12 58.37	1.0
SEK	89.60	230	iPc	12 58.10	0.5
	0.8s	160.00nm			6.3mb
LMN	89.71	342	eP	12 58.00	0.1
CROR	89.73	21	P	12 59.33	1.2
RNO	89.96	23	P	13 00.76	1.6
HRY	90.13	14	iPc	13 00.10	0.1
VIPM	90.27	21	P	13 01.88	1.1
BUT	90.67	15	eP	13 03.20	0.7
BRS	90.68	127	iPc	13 03.20	0.8
	0.7s	27.00nm			5.7mb
			e	13 13.00	
			e	13 16.00	
			e	17 36.00	
SXM	90.78	14	iPc	13 03.20	0.1
HBMT	90.87	15	iPc	13 03.80	0.2
LRM	90.87	15	iPc	13 03.40	-0.2
BLF	91.02	231	iPc	13 04.70	0.6
	0.9s	100.00nm			6.1mb
BOSA	91.11	232	eP	13 04.88	0.6
MEMT	91.35	14	iPc	13 06.20	0.5
BGMT	91.52	14	iPc	13 06.70	0.2
MCMT	91.75	15	iPc	13 08.00	0.4
GAC	91.87	349	eP	13 07.50	-0.3
WIN	91.95	241	iPc	13 09.00	0.4
	0.6s	25.00nm			5.7mb
TPMT	92.07	14	eP	13 10.10	0.9
ARMA	92.24	130	iPd	13 10.70	1.0
	1.0s	34.00nm			5.7mb
HVD	92.53	230	iPc	13 11.00	0.0
	0.8s	63.00nm			6.0mb
FHC	92.73	24	iPc	13 13.35	1.4
	0.8s	34.73nm			5.8mb
LBFM	92.85	23	iPc	13 13.51	0.8
RSNY	92.86	348	iPd	13 12.89	0.5
	0.7s	55.85nm			6.1mb
LGPM	92.98	23	iPc	13 14.35	1.2
KMPM	93.04	24	eP	13 14.75	1.3
HHAI	93.32	15	eP	13 16.16	1.4
WDC	93.37	23	eP	13 14.96	0.1
	0.9s	25.30nm			5.6mb
PTI	93.73	15	eP	13 17.66	1.0
RSSD	93.83	9	ePc	13 17.50	0.3
	0.6s	90.44nm			6.3mb
GRM	93.94	228	iPd	13 19.00	1.7
	1.0s	100.00nm			6.1mb
WLVO	94.01	351	P	13 17.94	0.3
BW06	94.34	13	iPc	13 19.22	-0.4
	0.8s	10.53nm			5.3mb
TOO	94.36	138	iPc	13 19.60	0.4
	1.0s	100.00nm			6.1mb
ACTO	94.51	352	P	13 20.30	0.3
ORV	94.62	23	ePc	13 20.61	0.0
	1.0s	10.00nm			5.1mb
CNB	94.64	134	eP	13 20.40	-0.1
HVU	94.70	16	eP	13 21.47	0.3
STCO	94.80	351	P	13 21.68	0.3
TYNO	95.00	352	P	13 22.36	0.1
ELF	95.05	353	P	13 22.50	0.0
LDN	95.19	353	P	13 23.00	-0.1
NTYM	95.35	24	ePc	13 24.76	0.9
BINY	95.38	349	iPc	13 24.27	0.2
	0.8s	84.99nm			6.3mb
LSCT	95.44	346	ePc	13 24.40	0.1
	0.6s	47.59nm			6.1mb
YSNY	95.45	351	iPc	13 24.64	0.2
	0.6s	235.72nm			6.8mb
DZM	95.74	114	iPd	13 26.90	1.0
BKS	95.95	24	ePc	13 27.09	0.4
	1.1s	20.00nm			5.6mb
TBR	96.13	347	ePc	13 27.13	-0.4
DUG	96.21	16	ePd	13 28.58	0.5
	1.1s	20.66nm			5.6mb
PCC	96.25	24	ePc	13 34.77	6.7X
	1.8s	60.00nm			5.8mb
GPD	96.29	347	eP	13 28.20	-0.1

```
DAU     96.32  15 eP    13 29.39   0.6
CMB     96.35  23 eP    13 29.31   0.7
         0.9s    12.72nm          5.5mb
STAN    96.40  24 iPc   13 29.70   0.9
         1.1s    50.00nm          6.0mb
SUR     96.56 232 iPd   13 35.50   6.0X
         1.0s   100.00nm          6.4mb
MHC     96.62  24 iPc   13 30.64   0.7
         1.1s    10.00nm          5.3mb
ARN     96.65  24 eP    13 30.76   0.8
COE     96.69  24 eP    13 31.33   1.2
BONR    97.01  21 eP    13 32.71   0.8
SAO     97.22  24 ePc   13 32.68   0.2
         1.3s    20.00nm          5.6mb
MSU     97.96  16 eP    13 36.86   0.7
GOL     98.01  11 eP    13 36.25  -0.1
         1.0s    33.06nm          6.0mb
CER     98.16 232 iPd   13 34.50  -2.0
         1.5s   140.00nm          6.5mb
ARUT    98.38  18 eP    13 38.82   0.9
PV09    98.57  14 eP    13 39.10   0.1
PV08    98.59  14 eP    13 39.27   0.2
PV10    98.71  14 eP    13 40.08   0.6
ABL     99.66  23 P     13 43.90   0.0
CVL     99.87 350 eP    13 44.11  -0.4
ELC    101.40 358 ePdiff13 51.49   0.4
CEH    102.01 350 Pdiff 14 00.00   6.2X
      Z  19s     0.27um          4.8Msz
LST    102.17 359 ePdiff13 55.61   1.1
ALQ    102.50  13 ePdiff13 57.16   0.8
         0.9s     7.16nm          5.4mb
GBTN   102.77 354 ePdiff13 57.33   0.1
WMOK   103.66   6 ePdiff14 01.09  -0.1
JSC    103.86 351 ePdiff14 02.66   0.6
MIAR   104.13   2 ePdiff14 04.05   0.8
         0.6s     9.31nm          5.8mb
PRM    104.17 352 ePdiff14 04.31   0.8
UYO    104.48   3 iPdiff14 05.50   0.6
LTX    108.44  11 Pdiff 14 26.30   3.6X
NVL    124.64 203 iPKPc 18 58.00  -0.4
         0.9s    39.00nm
TOV    125.11 334 ePKP  19 01.00   0.0
SOB1   125.22 291 ePKP  19 01.20   0.0
SDV    126.23 334 ePKP  19 01.50  -1.9
SPA    131.47 180 ePKPc 19 10.90  -0.8
         0.6s    20.33nm
VAO2   138.51 282 ePKP  19 25.50  -0.9
RSTA   141.18 282 (PKP) 19 23.00  -8.0X
PPD    141.22 288 ePKP  19 25.20  -6.0X
                  e     19 31.60
SIV    143.51 305 PKP   19 31.70  -3.6X
CCH    147.58 311 PKP   19 43.00   0.6
LPAZ   147.79 315 PKPc  19 42.70  -0.4
NNA    147.84 333 ePKP  19 42.50   0.0
         0.8s    89.55nm
LPB    147.97 315 PKPc  19 44.10   0.9
         0.9s    67.23nm
CNCB   148.14 314 iPKPc 19 44.80   1.2
MOCB   150.30 305 PKP   19 47.60   0.9
YJA    150.90 304 ePKPd 19 48.50   0.9
SLA    152.73 300 ePKP  19 49.70  -0.1
                  i     19 56.80
FSA    154.01 299 ePKPd 19 52.80   1.5
TCA    156.27 287 ePKPd 19 54.50   0.1
MRA    157.64 286 e(PKP)19 56.40   0.5
     S.D. = 0.9  on 502 of 517 obs.
-------------------------------------
   OCT  05, 1993  02h 24m 09.85± 0.46s
   38.135 N ± 6.6km  112.622 W ± 4.2km
   DEPTH =   5.0km  (geophysicist)
 UTAH                              (478)
      ML 3.1 (GS). MD 3.1 (SLC).

MSU      0.52  43 eP    24 19.37  -0.9
ARUT     0.73 242 eP    24 24.92   0.4
SRU      1.91  59 ePc   24 43.56   0.0
                  eS    25 06.74
DUG      2.06 356 eP    24 46.11   0.4
EMUT     2.19  39 ePc   24 48.86   1.2
                  eS    25 16.19
DAU      2.51  25 (P)   24 52.30   0.0
PV09     2.77  81 eP    24 56.04   0.0
PV10     2.83  84 eP    24 56.43  -0.4
TPNV     3.12 249 eP    25 00.81   0.1
PV08     3.16  81 eP    25 01.66   0.2
TNP      3.63 271 ePn   25 07.87  -0.2
HVU      3.64 358 eP    25 07.93  -0.3
MTUM     4.77 262 (Pn)  25 23.76  -0.6
                  ePg   25 40.34
BW06     5.19  26 (P)   25 40.48  10.2X
ALQ      5.90 121 eP    25 35.91  -4.3X
TUC      6.00 165 (P)   25 40.55  -1.0X
     S.D. = 0.6  on  13 of  16 obs.
-------------------------------------
%  OCT  05, 1993  02h 24m 46.93± 1.00s
   26.336 S ±12.3km   27.708 E ±13.8km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA          (584)
      ML 2.8 (PRE).

PRY      0.63 200 eP    24 59.00  -0.5
                  S     25 04.50
SLR      0.79  41 iPc   25 02.60  -0.2
                  S     25 11.50
BFS      1.00 236 eP    25 07.10   0.7
                  S     25 18.80
SEK      1.98 182 iPc   25 22.70   1.1
                  S     25 46.00
BFT      2.20  73 eP    25 25.00   0.2
                  S     25 51.00
BLF      3.07 206 eP    25 36.00  -1.2
                  S     26 11.20
     S.D. = 1.1  on   6 of   6 obs.
-------------------------------------
   OCT  05, 1993  02h 28m 00.50± 1.17s
   34.057 S ± 8.0km   70.540 W ± 8.8km
   DEPTH =  10.0km  (geophysicist)
 CHILE-ARGENTINA BORDER REGION     (127)
      MD 3.8 (SAN).

CACH     0.08 220 iP    28 02.67  -0.4
                  iS    28 06.34
PCH      0.44   3 iP    28 09.30  -0.1
                  iS    28 19.45
TACH     0.52 320 iP    28 11.88   0.8
                  iS    28 24.33
SAN      0.61 350 iP    28 12.82   0.0
                  iS    28 25.53
LNV      0.73 278 iP    28 14.69  -0.1
                  iS    28 28.63
FCH      0.76  16 iP    28 13.60  -1.9
                  iS    28 28.19
PEL      0.92 352 iPd   28 18.09   0.0
                  iS    28 34.56
LCCH     1.04 304 iP    28 20.35   0.3
                  iS    28 38.94
ROCH     1.15 340 iP    28 22.24   0.0
                  iS    28 42.38
JACH     1.37 358 iP    28 25.06  -0.7
                  iS    28 46.69
CFA      3.12  39 ePc   28 52.70   2.1
     S.D. = 1.1  on  11 of  11 obs.
-------------------------------------
   OCT  05, 1993  02h 34m 49.21± 0.51s
   34.403 N ± 6.5km   27.608 E ± 5.7km
   DEPTH =  33.0km  (normal)
   4.6mb ( 33 obs.)
 EASTERN MEDITERRANEAN SEA         (371)

ELL      3.00  38 iPn   35 36.00   0.4
CIN      3.21   7 eP    35 40.00   1.5
BCK      3.89  38 iPn   35 48.30   0.0
IZM      4.00 356 ePn   35 51.70   2.0
KHL      4.21  21 ePn   35 52.50  -0.2
ALT      5.06  23 ePn   36 02.00  -2.9
EZN      5.51 350 ePn   36 09.80  -1.2
HLW      5.53 144 iP    36 14.00   2.7
                  eS    36 50.50
BNT      5.95   2 iP    36 25.70   8.4X
AGG      6.26 319 eP    36 24.08   2.4
                  eS    36 39.48
PAIG     6.34 332 eP    36 25.92   3.1X
ALN      6.60 350 eP    36 52.40  26.0X
LIT      7.00 326 iP    36 33.84   1.8
                  eS    36 48.24
THE      7.23 331 eP    36 37.44   2.2
SOH      7.24 333 iP    36 37.82   2.4
SRS      7.42 336 eP    36 42.76   4.9X
RZN      7.62 343 iP    36 42.00   1.1
KNT      7.71 332 eP    36 44.00   2.1
                  iS    37 10.72
GRG      7.73 329 eP    36 44.36   2.0
MMB      7.80 338 iP    36 43.00  -0.3
FNA      8.06 324 eP    36 47.48   0.5
HQL      8.14 127 eP    36 48.00   0.0
                  eS    38 05.33
KKB      8.26 336 eP    36 49.00  -0.6
GAZ      8.28  68 eP    36 47.70  -2.2
SRFA     8.45 128 eP    36 52.00  -0.3
                  eS    38 08.00
OHR      8.59 323 ePn   36 55.70   1.4
VTS      8.87 338 iP    36 59.00   0.8
PVL      8.98 349 eP    36 54.00  -5.5X
SKO      8.98 329 iPn   37 00.50   0.9
AYN      9.03 125 eP    37 00.75   0.5
                  eS    38 22.00
PTJ     14.51 326 eP    38 12.40  -1.7
PSZ     14.69 339 e(P)  38 15.20  -1.2
UZH     14.76 346 eP    38 23.50   6.3X
         1.0s    32.00nm          4.7mb
RIY     14.89 321 eP    38 17.80  -1.1
SRO     15.10 335 e(P)  38 28.30   6.7X
LJU     15.30 323 eP    38 21.00  -3.3X
VOY     15.61 322 iPd   38 27.70  -0.7
                  i     38 34.10
                  e     38 38.20
                  e     38 43.00
SPC     15.75 342 eP    38 34.00   3.8X
                  e     41 04.50
ZST     15.86 333 e(P)  38 30.80  -0.6
                  e     41 22.80
KBA     16.61 324 iPd   38 40.50  -0.7
         1.2s    41.90nm          4.4mb
                  i     38 52.30
                  i     41 11.50
                  i     41 26.10
BHG     17.29 325 eP    38 49.90   0.3
GEC2    17.74 329 Pn    38 55.10  -0.1
KHC     18.01 329 P     38 58.00  -0.5
         1.0s     8.90nm          3.9mb
                  e     39 09.00
                  e     40 21.50
                  e     41 29.00
                  i     41 39.60
SBF     18.24 307 eP    39 01.20  -0.2
         0.9s    39.45nm          4.6mb
PRU     18.29 332 eP    39 00.00  -1.9
                  e     41 33.00
WET     18.32 328 iPc   39 02.20  -0.2
FUR     18.38 323 eP    39 02.40  -0.6
KSP     18.38 337 eP    39 02.50  -0.5
                  e     41 37.60
LRG     18.80 305 eP    39 07.70  -0.5
         1.3s    54.15nm          4.6mb
LPG     19.40 311 eP    39 14.00  -1.6
         0.7s     8.60nm          4.1mb
LPL     19.42 311 eP    39 14.10  -1.6
         0.5s     6.70nm          4.2mb
GRF     19.46 327 eP    39 15.40  -0.6
CLL     19.94 332 iP    39 20.90  -0.1
         1.1s    16.00nm          4.3mb
BSF     20.55 317 eP    39 27.30  -0.3
         0.9s    14.90nm          4.4mb
CDF     20.61 319 eP    39 27.80  -0.4
         0.9s    16.40nm          4.4mb
HAU     20.90 317 eP    39 30.40  -0.6
         1.0s    16.20nm          4.4mb
OBN     21.62  14 eP    39 41.00   2.8
         1.0s    14.00nm          4.3mb
SMF     21.72 311 eP    39 39.00  -0.3
         0.9s    13.25nm          4.4mb
LBF     21.79 312 eP    39 39.70  -0.3
         0.9s    31.95nm          4.7mb
WLF     21.94 321 iPc   39 44.85   3.4X
         1.2s    25.30nm          4.5mb
LOR     21.99 313 eP    39 41.70  -0.3
         1.1s    22.20nm          4.5mb
AVF     22.09 311 eP    39 42.20  -0.7
         1.3s    26.00nm          4.5mb
SSF     22.11 312 eP    39 42.70  -0.5
         0.9s    56.50nm          5.0mb
BGF     22.31 310 eP    39 44.80  -0.3
         0.9s    33.60nm          4.8mb
MAF     22.35 309 eP    39 44.50  -1.1
         1.0s    11.20nm          4.3mb
MOS     22.43  15 eP    39 55.00   8.7X
                  e     40 20.00
MEM     22.59 322 iPd   39 50.68   2.9X
         1.0s    26.30nm          4.7mb
RJF     22.70 306 eP    39 49.20   0.1
         1.5s   108.65nm          5.1mb
```

05d 02h

```
ENN     22.72 323 eP    39 51.00   1.8
        0.9s    37.30nm          4.9mb
LPO     22.72 305 eP    39 49.70   0.4
        0.8s    17.60nm          4.6mb
DOU     23.02 320 P     39 54.40   2.3
        0.9s    45.00nm          5.0mb
LFF     23.11 305 eP    39 53.40   0.4
        1.0s    30.80nm          4.8mb
SNF     23.42 320 Pc    39 58.60   2.7
MFF     24.23 309 eP    40 03.80  -0.1
        1.0s    16.60nm          4.5mb
LDF     24.98 313 eP    40 10.20  -0.8
        0.7s    13.10nm          4.6mb
FLN     25.26 313 eP    40 12.70  -1.0
        1.0s    35.00nm          4.9mb
LPF     25.32 311 eP    40 13.30  -1.0
        0.9s    26.05nm          4.8mb
GRR     25.34 312 eP    40 13.50  -1.0
        1.0s    44.40nm          5.0mb
HFS     27.30 345 eP    40 30.80  -1.6
        0.8s    10.80nm          4.6mb
NB2     28.67 343 P     40 42.50  -2.4
        0.7s     2.50nm          4.0mb
     S.D. = 1.3  on  68 of  80 obs.
-----------------------------------
*  OCT  05, 1993  02h 37m 24.57± 1.50s
   34.654 N ±12.5km   27.758 E ± 9.3km
   DEPTH =  51.2 ± 17.0 km
   4.2mb (  6 obs.)
 EASTERN MEDITERRANEAN SEA        (371)

ELL      2.73  39 iPn   38 07.50   0.6
BCK      3.62  39 eP    38 19.00  -0.6
IZM      3.76 354 ePn   38 17.00  -4.5X
PPCY     3.78  85 eP    38 22.50   0.7
CSS      4.60  85 eP    38 32.00  -1.2
                eS     39 23.00
HLW      5.66 147 eP    39 00.00  11.7X
LIT      6.86 324 eP    39 04.38  -0.7
THE      7.07 329 iP    39 08.66   0.7
SOH      7.08 332 eP    39 03.70  -4.4X
SRS      7.24 334 iP    39 11.09   0.7
KNT      7.55 331 eP    39 14.94   0.4
GRG      7.58 328 eP    39 15.30   0.1
GEC2    17.59 328 P     41 26.10  -1.5
        0.7s     2.49nm          3.4mb
                e      41 36.20
                e      41 38.20
CLL     19.78 332 iPd   41 52.00  -1.1
                e      42 03.00
OBN     21.35  14 ePd   42 11.00   1.8
        1.0s    18.00nm          4.4mb
ENN     22.60 322 eP    42 23.00   1.4
        0.9s    15.70nm          4.4mb
HFS     27.09 345 eP    43 02.50  -1.6
        0.4s     2.40nm          4.1mb
NB2     28.47 343 P     43 13.70  -2.9X
        0.7s     1.50nm          3.7mb
BCAO    31.26 198 ePc   43 42.10   0.3
        0.6s     6.00nm          4.5mb
                i      43 52.00
                i      44 50.70
     S.D. = 1.2  on  15 of  19 obs.
-----------------------------------
   OCT  05, 1993  03h 12m 46.87± 0.98s
   15.647 N ±11.9km   95.034 W ± 6.4km
   DEPTH =  53.2 ±  6.4 km
   4.5mb ( 19 obs.)
 NEAR COAST OF OAXACA, MEXICO     ( 66)

OXX      2.16 312 iP    13 20.18  -1.1
                iS     13 45.37
SCX      2.55  65 iP    13 27.22   0.7
                iS     14 00.52
TPX      2.78 105 iP    13 30.00   0.2
                (S)    13 55.00
IISM     4.01 326 iP    13 48.36   1.2
IIT      4.59 317 iP    13 56.00   0.4
ACX      4.79 285 iP    13 53.24  -5.1X
PPM      4.83 315 iP    14 00.21   0.8
IIA      4.91 316 iP    14 01.13   1.1
III      5.04 303 iP    14 00.91  -1.1
                iS     14 56.50
UNM      5.39 313 (P)   14 08.00   0.9
CRX      5.80 311 (P)   14 10.00  -2.8
MRX      7.12 305 iP    14 30.00  -1.0
LTX     15.77 331 (P)   16 28.53   1.4
UYO     18.45   2 iPc   16 59.10  -1.3
MIAR    18.86   4 eP    17 04.21  -1.3
        0.5s     3.37nm          3.8mb
WMOK    19.31 351 eP    17 10.10  -0.4
        0.7s     6.25nm          4.0mb
MEO     19.32 351 iPc   17 09.60  -1.0
ACO     21.28 351 iPc   17 27.50  -3.5X
MYNC    21.68  25 (P)   17 34.52  -0.4
        0.7s     4.30nm          4.0mb
ALQ     21.78 334 eP    17 37.16   1.0
        0.9s     4.69nm          3.9mb
TUC     21.91 322 eP    17 39.00   1.6
        1.4s    20.49nm          4.4mb
ELC     22.16  12 eP    17 40.05   0.4
PV10    25.79 334 eP    18 15.14   0.3
PV08    25.79 335 eP    18 16.17   1.1
PEC     26.98 316 eP    18 25.69   0.0
        0.7s     3.77nm          4.1mb
ARUT    27.40 327 eP    18 30.52   0.9
HVU     30.21 333 eP    18 55.24   0.5
LRM     33.44 338 ePc   19 23.40   0.3
LON     38.18 330 eP    20 03.57   0.6
SIV     45.96 132 P     20 59.90  -6.8X
INK     58.05 344 eP    22 35.50  -1.0
        1.0s     3.00nm          4.4mb
FBA     60.59 337 eP    22 52.71  -1.3
        0.7s     2.79nm          4.5mb
GRR     81.20  42 eP    24 58.10  -0.3
        1.0s    24.40nm          5.1mb
FLN     81.35  42 eP    24 59.00  -0.2
        0.7s     8.95nm          4.8mb
LDF     81.62  42 eP    25 00.80   0.2
        1.2s    40.45nm          5.3mb
TCF     83.75  44 eP    25 11.40  -0.3
NB2     84.09  28 P     25 12.60  -0.5
        0.9s     4.70nm          4.5mb
BGF     84.10  43 eP    25 13.10  -0.3
AVF     84.36  43 eP    25 14.90   0.2
        0.7s     2.45nm          4.4mb
SSF     84.39  43 eP    25 14.60  -0.2
        0.8s     7.10nm          4.8mb
HAU     85.93  41 eP    25 23.00   0.4
        0.8s     6.45nm          4.9mb
CDF     86.39  41 eP    25 25.40   0.5
        0.9s     5.55nm          4.8mb
LMR     87.56  46 eP    25 31.00   0.5
        0.8s     8.20nm          5.0mb
FRF     87.58  45 eP    25 31.20   0.6
        0.9s     9.50nm          5.0mb
GEC2    90.18  39 P     25 41.50  -1.5
        0.7s     0.69nm          4.1mb
                e      25 44.50
                e      25 48.20
GBA    150.00  15 PKP   32 31.00   2.3X
     S.D. = 1.0  on  42 of  46 obs.
-----------------------------------
?  OCT  05, 1993  04h 05m 06.92± 4.54s
   3.142 S ±28.1km  129.451 E ±36.7km
   DEPTH = 102.0 ± 44.4 km
   4.7mb (  5 obs.)
 SERAM, INDONESIA                 (272)

MTN      9.78 170 eP    07 26.50   0.1
                eS     09 13.00
WR2     17.38 164 eP    08 59.00  -5.5X
        0.5s    13.50nm          4.4mb
                i      09 05.10
                eS     12 09.70
QIS     19.94 151 iPd   09 32.30  -1.0
ASPA    20.85 168 iPc   09 42.20  -0.4
        0.6s    75.80nm          5.2mb
                eS     13 33.30
CTA     23.50 137 iPc   10 09.50   0.9
        1.0s    25.00nm          4.6mb
STK     30.79 160 eP    11 15.30   0.3
        1.8s     1.80nm          3.5mb X
CHTO    37.11 307 ePc   12 10.10   0.7
        1.1s    17.67nm          4.9mb
LZH     45.78 331 eP    13 19.50  -0.7
        1.5s    21.00nm          4.7mb
                sP     13 27.00
     S.D. = 1.0  on   7 of   8 obs.
-----------------------------------
*  OCT  05, 1993  04h 24m 16.10± 1.11s
   29.940 N ±12.5km  109.089 W ± 5.6km
   DEPTH =  10.0km  (geophysicist)
 SONORA, MEXICO                   ( 50)
      ML 4.0 (GS).

TUC      2.77 329 ePn   25 02.10   0.6
                iPg    25 09.00
                eS     25 43.74
LTX      4.76  96 ePn   25 30.53   0.9
                eSg    26 50.96
ALQ      5.46  23 ePn   25 38.98  -0.7
PLM      7.45 299 eP    26 07.86   0.2
PV10     8.42   0 ePn   26 21.57   0.3
                eSg    28 39.52
GSC      8.42 311 ePn   26 19.39  -1.7
                eSg    28 44.80
PV09     8.54 360 (Pn)  26 23.52   0.6
                eSg    28 43.79
ARUT     8.62 336 ePg   27 01.02  37.0X
PV08     8.62   2 (P)   26 31.96   7.8X
                eSg    28 46.58
MSU      8.92 344 (Pn)  26 29.49   1.3
SRU      9.22 353 ePg   27 01.61  29.3X
WMOK     9.94  59 ePn   26 40.85  -1.2
                eSg    29 27.26
EMUT     9.95 352 ePg   27 14.76  32.3X
                eSg    29 29.54
MEO     10.11  59 e(P)  26 43.80  -0.6
BUTX    10.24  77 Pn    26 46.60   0.4
BCH     10.65 302 eP    26 51.74  -0.1
ACO     10.70  48 e(P)  26 52.50   0.0
UYO     13.10  67 iPc   27 24.90   0.0
     S.D. = 0.9  on  14 of  18 obs.
-----------------------------------
%  OCT  05, 1993  04h 34m 58.42± 0.51s
   33.385 S ± 8.0km   70.561 W ±10.9km
   DEPTH =  90.0km  (geophysicist)
 CHILE-ARGENTINA BORDER REGION    (127)
      MD 3.4 (SAN).

SAN      0.11 231 iP    35 11.25  -0.3
                iS     35 20.98
FCH      0.23  76 iP    35 12.24   0.0
                iS     35 22.96
PCH      0.24 171 iP    35 11.80  -0.2
                iS     35 21.55
PEL      0.26 336 iP    35 12.06   0.1
                iS     35 22.14
TACH     0.41 229 iP    35 12.55  -0.2
                iS     35 23.30
ROCH     0.56 317 iP    35 14.02  -0.1
                iS     35 25.87
JACH     0.70 358 iP    35 15.47   0.2
                iS     35 28.12
CACH     0.73 183 iP    35 16.08   0.4
                iS     35 29.58
LCCH     0.85 264 iP    35 16.96   0.3
                iS     35 30.62
LNV      0.91 231 iP    35 17.15  -0.2
                iS     35 30.85
     S.D. = 0.3  on  10 of  10 obs.
-----------------------------------
   OCT  05, 1993  05h 09m 45.76± 0.14s
   6.130 S ± 2.8km  128.965 E ± 2.9km
   DEPTH =  13.1km  ( 13 depth phases)
   5.9mb ( 89 obs.)  6.1Msz ( 49 obs.)
 BANDA SEA                        (280)
      Mw 6.6 (GS), 6.4 (HRV).
      Mo=1.6*10**19 Nm (PPT).
      FAULT PLANE SOLUTION: P-Waves
       NP1:Strike=150 Dip=85 Slip=-165
       NP2:          59     75        -5
       Principal Axes:
        T                Plg= 7  Azm=283
        P                     14       15
      Comment: The focal mechanism is
        moderately well controlled
        and corresponds to strike-
        slip faulting with a small
        normal component. The
        preferred fault plane is not
        determined.
      RADIATED ENERGY
       No. of sta:    7  Focal mech.  F
       Energy        8.0±2.8*10**13 Nm
      MOMENT TENSOR SOLUTION
      Dep  34            No. of sta: 12
      Moment Tensor;    Scale 10**18 Nm
        Mrr=-0.19        Mtt=-8.62
        Mff= 8.80        Mrt=-0.05
```

```
      Mrf= 0.11        Mtf= 1.18
     Principal axes:
      T  Val=  8.88  Plg= 1  Azm=274
      N       -0.18      89      123
      P       -8.70       0        4
    Best Double Couple:Mo=8.8*10**18
     NP1:Strike= 49 Dip=89 Slip=   0
     NP2:       319     90      179
    CENTROID, MOMENT TENSOR     (HRV)
    Data Used: GDSN
    L.P.B.: 45S, **C  M.W.: 37S, 62C
    Centroid Location:
    Origin Time        05:09:52.8 0.1
    Lat  6.02S 0.01 Lon 128.93E 0.01
    Dep  31.2 0.9 Half-duration  3.8
    Moment Tensor;   Scale 10**18 Nm
      Mrr= 0.08 0.03  Mtt=-3.77 0.03
      Mff= 3.69 0.04  Mrt=-0.31 0.06
      Mrf=-0.33 0.06  Mtf= 1.45 0.03
     Principal Axes:
      T  Val=  4.00  Plg= 6  Azm=101
      N       0.06      84      249
      P      -4.06       3       10
    Best Double Couple:Mo=4.0*10**18
     NP1:Strike=145 Dip=84 Slip= 178
     NP2:       236     88        6

AAI     2.55 342 P      10 26.50  -0.9
SLKI    2.96 129 P      10 34.80   1.6
TLE     3.80  83 P      10 46.90   1.7
MTN     7.01 162 eP     11 28.80  -1.8
MNI     8.58 331 P      11 52.30  -0.2
MKS     9.49 275 P      12 07.00   1.9
KNA     9.56 181 eP     12 02.20  -3.9X
KEDI   12.92 261 P      12 54.00   2.1
THRI   13.50 260 P      13 01.80   2.2
DAV    13.56 346 iP+    13 00.00  -0.3
                i       16 43.20
RATI   13.57 258 P      13 03.00   2.6
JEHI   13.78 261 P      13 05.00   1.8
INGI   13.96 258 P      13 09.40   3.8X
CTB    14.07 340 ePd    13 11.00   4.0X
RANI   14.09 260 P      13 10.00   2.7
KELI   14.51 261 P      13 14.60   1.8
BIP    14.51 349 ePd    13 13.00   0.1
MNDI   14.61  91 eP     13 11.00  -3.3X
WB5    14.64 159 iPd    13 07.40  -7.1X
                i       13 10.20
WRA    14.69 160 P      13 08.80  -6.4X
       1.2s   134.30nm          5.4mb
WR2    14.70 160 iPd    13 08.00  -7.3X
       0.4s   157.70nm          5.9mb
                iS      15 43.90
WWKK   14.82  81 eP     13 13.20  -3.6X
SRDI   14.89 260 P      13 17.00  -0.7
TSM    15.16 313 ePd    13 22.80   1.5
YYYY   16.91  91 eP     13 45.20   1.3
MAP    17.08 343 ePd    13 46.00   0.1
MBL    17.36 210 iPd    13 45.20  -4.2X
KKM    17.56 313 ePc    13 55.70   3.7X
       1.0s   475.10nm          5.6mb
                e       14 04.00
PLP    17.63 347 ePd    13 54.00   1.2
QIS    17.67 145 eP     13 48.40  -4.9X
                iS      16 54.00
ASPA   18.07 165 iPc    13 53.80  -4.5X
       1.5s  1721.30nm          6.0mb
     Z  18s   106.30um
                eS      17 01.20
PMG    18.32 101 eP     13 59.00  -2.3
WARB   20.06 186 iPc    14 08.80 -12.9X
       0.5s   108.00nm
GQP    20.93 342 ePc    14 32.00   1.3
PGP    21.06 338 ePc    14 33.00   0.9
LEM    21.22 267 ePd    14 34.00   0.1
       1.5s   472.22nm          5.7mb
                e(S)    18 28.00
SINI   21.34 266 P      14 33.80  -1.3
TPI    21.51 278 ePc    14 36.00  -0.6
                e       25 30.00
CTA    21.78 131 iPc+   14 39.00  -0.4
                i       15 10.00
                i       15 22.00
                eS      18 11.00
                e(sS)   18 35.00
                eScP    20 56.00
                e(ScS)  25 10.00
CTAO   21.78 131 ePc    14 39.57   0.2
       2.1s  5745.21nm          6.6mb
PACI   21.92 268 P      14 39.50  -1.4
KVG    22.06  82 eP     14 42.40   0.2
QCP    22.07 339 eP     14 47.00   4.8X
QVP    22.08 339 eP     14 45.00   2.7
KALI   22.18 266 P      14 40.70  -2.8
MEEK   22.66 205 iPd    14 45.40  -2.6
       0.5s   178.00nm          5.8mb
PULI   22.85 268 P      14 48.00  -2.2
RAB    23.18  86 iPc+   14 54.00   0.7
       1.2s  1625.00nm          6.4mb
                iS      19 00.00
PASI   23.24 267 P      14 50.60  -3.2X
PENI   23.68 270 P      14 59.00   0.9
BAG    23.88 340 iPc+   15 01.50   1.3
       1.3s   769.23nm          6.1mb
                eS      19 12.00
FORT   24.53 182 iPd    15 06.20   0.0
       0.5s   197.00nm          6.0mb
CVP    24.71 344 iPd    15 08.50   0.5
GUA    25.15  39 eP     15 12.90   0.6
       1.2s  1437.50nm          6.5mb
GUMO   25.16  39 eP     15 13.93   1.6
       1.2s  1263.50nm          6.5mb
                e       15 16.40   9km
                eS      19 34.20
PJG    25.16  39 eP     15 13.20   0.8
COOL   25.70 196 iPd    15 16.20  -1.1
       1.0s   674.00nm          6.3mb
MRWA   26.03 207 iPd    15 19.60  -0.8
       1.0s   952.00nm          6.4mb
KGM    26.86 287 ePc    15 28.10   0.0
BAL    26.94 204 eP     15 28.10  -0.6
       1.0s  1177.00nm          6.5mb
KLB    27.42 201 iPd    15 32.20  -0.9
       1.0s   419.00nm          6.1mb
STK    28.21 157 iPc    15 39.00  -1.3
       1.0s    52.70nm          5.3mb
                eS      20 39.20
MUN    28.35 203 iPd    15 40.20  -1.3
       1.0s   300.00nm          6.0mb
NWAO   28.81 201 ePd    15 44.67  -1.0
       1.0s   258.00nm          6.0mb
                ed      15 47.57  10km
IPM    29.86 290 ePd    15 54.20  -1.1
       0.9s    65.00nm          5.5mb
ADE    30.07 164 iPd    15 57.30   0.2
MRPI   30.58 284 P      16 00.00  -1.9
BRS    30.97 136 iPc    16 04.00  -1.1
       0.9s   110.00nm          5.7mb
                ipP     16 14.00  36kmX
                e       16 38.00
                ePP     17 15.00
                eS      21 04.00
                e(SS)   22 18.00
HUTI   31.10 285 P      16 06.80   0.3
SNG    31.22 295 eP     16 06.50  -0.8
       1.5s   322.22nm          6.0mb
                eS      21 10.00
SIMI   31.23 285 P      16 05.00  -2.7
QIZ    31.31 323 P      16 08.00   0.0
     N  15s    16.30um
     E  17s    12.90um
                S       21 12.50
AEKI   31.54 284 P      16 08.50  -1.8
SEMI   31.70 285 P      16 07.00  -4.8X
TATO   31.76 347 eP     16 19.25   7.3X
       0.8s    99.86nm          5.8mb
SIBI   31.81 286 P      16 14.40   1.6
LARI   32.04 285 P      16 12.50  -2.2
ARMA   32.21 141 iPd    16 15.80  -0.2
       1.0s   100.00nm          5.7mb
QZH    32.49 342 P      16 17.50  -0.8
     Z  40s    29.20um          5.7MszX
     N  13s     7.86um
                S       21 30.00
GZH    32.81 333 P      16 20.00  -1.1
     Z  24s    14.20um          5.6MszX
     N  13s     9.99um
     E  12s     8.07um
                S       21 32.00
BWA    33.41 150 iPc    16 27.60   1.3
                i       16 38.70  40kmX
CAN    34.41 150 eP     16 35.10   0.1
                i       16 45.70  38kmX
                i       17 05.90
                eS      21 49.20
                e       22 06.20
CNB    34.59 150 eP     16 37.30   0.8
       1.0s   190.00nm          6.0mb
TOO    34.73 157 iPc    16 38.80   1.1
       0.4s   101.00nm          6.1mb
                i       18 03.00 464kmX
LOE    35.65 311 iPc    16 45.90   0.2
NST    35.84 308 eP     16 47.50   0.2
KHT    36.59 305 iPc    16 54.30   0.7
KAGJ   37.15   3 eP     16 58.40   0.3
BDT    37.63 309 eP     17 01.50  -0.8
       0.8s   176.50nm          5.9mb
SSE    37.75 349 ePc    17 01.39  -1.8
       1.0s    21.00nm          4.9mb X
     Z  24s    15.30um          5.7MszX
     N  13s     4.00um
     E  14s     7.50um
                ec      17 05.61  14km
                PP      18 30.00
                S       22 44.00
KUMJ   38.49   3 eP     17 09.60   0.2
CHTO   38.60 311 ePc    17 10.91   0.4
                ic      17 15.05  14km
                ed      17 20.43
GYA    38.95 327 iPc    17 14.00   0.5
       1.0s   200.00nm          5.8mb
     Z  20s    10.80um          5.7Msz
     N  15s    10.30um
     E  15s     2.87um
                PP      18 53.00
                S       23 12.00
WHN    39.06 340 Pd     17 15.00   0.8
       1.0s   120.00nm          5.5mb
     Z  20s    11.90um          5.7Msz
     N  14s     3.83um
                PP      18 48.00
                iS      23 12.00
NJ2    39.17 346 Pd     17 15.00  -0.1
       1.6s    86.00nm          5.2mb
     N  12s     4.90um
     E  17s     4.55um
                S       23 14.00
DZM    39.50 117 iPc    17 17.20  -0.9
                i       23 18.00
BKM    40.02 110 iPc    17 21.50  -0.8
SHNJ   40.09   3 eP     17 21.90  -0.7
PVC    40.10 110 iP     17 22.20  -0.7
TKSJ   40.18   7 P      17 22.50  -0.9
KMI    40.20 322 ePd    17 25.05   1.1
       1.0s   240.00nm          5.8mb
     Z  20s    13.10um          5.8Msz
     N  13s     8.10um
     E  13s    11.70um
                ec      17 29.69  16km
                sP      17 37.50
SHK    40.59   5 eP     17 26.80   0.0
WKYJ   40.62   8 P      17 27.30   0.2
ENH    40.73 334 iPd    17 27.36  -0.6
                ec      17 31.34  13km
YONJ   41.31   6 P      17 33.00   0.3
TSRJ   41.97   9 P      17 38.00   0.0
CHJJ   43.00  12 P      17 45.40  -1.1
MTMJ   43.29  10 P      17 48.10  -0.9
MAJO   43.32  11 iPd    17 47.61  -1.5
       2.1s   660.93nm          6.0mb
                ec      17 51.08  12km
MAT    43.32  11 iPd    17 47.50  -1.6
       1.2s    51.56nm          5.2mb
     Z  20s     9.57um          5.7Msz
                eS      24 10.00
KAKJ   43.40  13 P      17 49.80   0.0
TIA    43.56 346 eP     17 49.40  -1.7
       2.0s    74.00nm          5.1mb
     Z  38s    19.60um          5.7MszX
     E  13s     5.36um
                S       24 08.00
CD2    44.02 328 eP     17 53.60  -1.4
       1.0s   160.00nm          5.8mb
     Z  19s    24.60um          6.1Msz
     N  12s    11.80um
                PP      19 42.00
                S       24 22.00
NIIJ   44.15  12 P      17 56.70   0.9
XAN    44.23 336 P      17 55.00  -1.5
       1.2s    86.00nm          5.5mb
     Z  32s    19.20um          5.8MszX
```

05d 05h

```
     N  18s    22.30um
     E  18s    12.10um
                 pP    18 05.00  34kmX
                 sP    18 09.00
                 PP    19 36.00
                 ScS   27 51.00
YAMJ   45.26  12 eP    18 05.60    0.8
DL2    45.32 352 eP    18 05.00   -0.2
       1.0s    89.00nm          5.7mb
     Z  18s     6.77um          5.6Msz
     N  12s     8.66um
     E  12s    13.40um
                 S     24 38.00
TIY    46.26 342 eP    18 11.80   -0.9
     Z  36s    21.90um          5.8MszX
     N  12s     3.95um
                 S     24 53.00
OFUJ   46.50  14 eP    18 18.40   3.9X
BJI    47.43 347 eP    18 20.00   -1.8
       2.0s   130.00nm          5.7mb
     Z  24s     7.64um          5.6MszX
     N  16s     6.34um
                 ePP   20 08.00
SHL    47.86 313 iP    18 25.40   -0.3
                 iS    25 18.00
SNY    47.98 355 iPd   18 24.00   -2.1
     Z  21s    14.30um          5.9Msz
     E  16s     6.04um
                 PP    20 20.00
                 iS    25 14.00
                 iSS   28 45.00
LZH    48.16 333 Pd    18 26.70   -1.2
       2.0s   370.00nm          6.1mb
     Z  30s    21.10um          5.9MszX
     N  12s     5.23um
                 sP    18 42.00
                 S     25 24.00
                 SS    28 52.00
VLA    49.09   3 iPd   18 35.00    0.4
       2.0s   513.00nm          6.2mb
     N  14s     3.00um
     E  13s     2.00um
                 i     18 50.00  57kmX
                 i     20 25.00
                 iPPP  21 15.00
                 iS    25 38.00
                 iPS   25 55.00
                 i     28 18.00
                 iSSS  30 24.00
HHC    49.41 343 Pd    18 36.20   -1.1
       1.4s    74.00nm          5.5mb
     Z  39s    18.70um          5.8MszX
     N  14s     4.60um
     E  12s     4.19um
                 S     25 43.00
                 sS    25 55.00
MRRJ   49.57  12 eP    18 39.40    1.1
BTO    49.66 341 P     18 38.50   -0.8
     N  15s     4.05um
     E  13s     1.02um
                 PP    20 39.00
                 iS    25 42.00
                 SS    29 08.00
CN2    49.80 357 eP    18 38.90   -1.2
       1.2s    36.00nm          5.2mb
     Z  22s     8.60um          5.7Msz
     N  15s     4.01um
     E  15s     2.41um
                 esP   18 57.00
                 eS    25 44.00
                 eSS   29 14.00
HOOJ   50.01  14 eP    18 41.80    0.0
OUZ    50.19 132 eP    18 44.20    0.9
                 e     18 53.50  31kmX
MDJ    50.52   1 iPd   18 45.23   -0.3
       2.3s  1040.00nm          6.4mb
     Z  46s    32.10um          6.0MszX
                 ec    18 48.54   11km
                 eS    25 58.00
                 SS    29 23.00
LSA    50.86 317 eP    18 49.16    0.1
       1.1s    21.30nm          5.0mb
                 ic    18 53.13   13km
                 PP    20 48.50
                 S     26 02.00
KUSJ   51.04  15 eP    18 49.60    0.0
ASAJ   51.52  13 eP    18 56.00    2.8
```

```
QRZ    51.99 138 P     18 57.70    0.8
                 e     19 07.60  33kmX
MHZ    52.25 145 eP    18 59.00    0.0
LRCZ   52.29 145 eP    18 59.00   -0.3
KUZ    52.38 132 P     18 59.70   -0.2
THZ    52.69 139 eP    19 01.10   -1.2
GTA    52.72 332 Pd    19 01.50   -1.1
       1.0s    62.00nm          5.5mb
     Z  30s    21.10um          6.0MszX
     N  15s     4.92um
                 pP    19 18.00  63kmX
                 SS    29 57.00
TUZ    52.97 145 P     19 03.40   -0.8
MQZ    53.52 141 eP    19 08.00   -0.2
GUN    53.61 311 P     19 08.60   -1.0
SNZO   53.66 138 ePc   19 07.34   -1.9
                 e     19 17.00  32kmX
                 S     26 39.00
                 (ScS) 28 32.00
PKI    53.78 311 P     19 09.60   -1.2
KOD    53.80 287 eP    19 10.80   -0.3
                 eS    26 44.00
KUR    53.87  16 eP    19 10.00   -0.6
       1.0s   260.00nm          6.2mb
     Z  16s     2.80um          5.4MszX
     N  16s     2.20um
     E  16s     5.60um
                 iS    26 42.00
MNG    53.87 137 eP    19 09.70   -1.1
KKN    53.99 311 P     19 11.40   -0.8
URZ    54.00 134 eP    19 10.70   -1.1
DMN    54.03 311 P     19 11.60   -0.9
WAHZ   54.07 135 P     19 11.70   -0.7
PAHZ   54.21 134 eP    19 13.10   -0.3
YSS    54.30  12 (P)   19 12.68   -1.2
     Z  18s     5.60um          5.7Msz
     N  18s     3.20um
     E  16s     3.50um
                 ec    19 15.33    9km
                 e     21 22.00
                 eS    26 44.00
PGZ    54.41 137 eP    19 13.10   -1.7
HBZ    54.61 132 eP    19 16.10   -0.3
PUZ    54.76 133 eP    19 16.30   -1.2
GBA    54.78 291 Pd    19 17.30   -0.6
       1.4s    17.50nm          4.9mb
NOZ    54.81 134 eP    19 17.10   -0.7
HIA    55.75 353 iPd   19 23.84   -0.6
                 ed    19 28.23   14km
AFI    58.74 102 eP    19 44.00   -2.2
                 eS    28 00.00
                 eLR   38 00.00
CIT    59.38 349 eP    19 50.00    0.0
     Z  18s     9.07um          5.9Msz
     N  18s     6.30um
     E  18s    11.37um
                 eS    28 00.00
POO    59.60 296 iPd   19 52.00   -0.1
                 iS    27 24.00
ZAK    60.51 341 iPd-  19 57.00   -0.7
       2.6s   623.00nm          6.3mb
                 e     20 47.00 218kmX
                 e     22 15.50
                 eS    28 06.00
NDI    60.64 308 iPc   19 55.20  -3.8X
       0.7s    34.25nm          5.6mb
                 eS    28 06.00
CSY    61.41 188 eP    20 02.70   -1.0
       0.5s    24.00nm          5.6mb
                 i     20 14.60  41kmX
IRK    61.86 343 ePd   20 06.00   -0.9
       2.0s   197.00nm          5.9mb
                 e     20 23.00  64kmX
                 e     20 40.20
                 iS    28 30.00
WMQ    62.11 327 ePd   20 07.94   -0.9
       1.5s    87.00nm          5.7mb
     Z  22s     9.63um          5.9Msz
     N  13s     1.47um
     E  15s     3.38um
                 PcP   20 49.00
                 pP    22 30.00 786kmX
                 ScP   24 47.00
                 PcS   24 47.50
                 S     28 27.00
                 ScS   29 56.00
PET    64.06  19 eP    20 21.00   -0.4
```

```
       1.1s   200.00nm          6.2mb
                 eS    28 56.00
                 eSS   33 00.00
UER    64.77 337 iPd   20 25.00   -1.0
       2.5s   440.00nm          6.2mb
                 e     21 00.00 146kmX
                 PPP   24 30.00
                 iS    29 04.00
                 SS    33 18.00
PAF    65.32 218 eP    20 37.00   7.4X
                 eS    29 29.00
                 eSS   33 45.00
KSH    66.65 318 P     20 39.40    0.9
     Z  22s     9.52um          6.0Msz
     N  12s     5.60um
     E  12s     4.49um
                 pP    20 50.00  34kmX
                 sP    20 54.00
                 PcP   21 08.00
                 PP    23 05.00
                 ScP   25 08.00
                 PcS   25 09.00
                 S     29 21.00
                 ScS   30 28.00
YAK    67.95   0 iPd   20 42.00  -4.0X
                 epP   21 17.00 144kmX
                 iS    29 36.00
                 i     30 26.00
                 iSSS  37 05.00
FRU    69.24 320 eP    20 55.00    0.4
                 e     21 06.00  36kmX
                 iS    30 00.00
SMY    69.98  27 P     21 10.00  11.2X
     Z  21s    13.02um          6.1Msz
RAR    70.35 110 eP    21 00.21   -1.5
       1.2s   138.45nm          6.0mb
ADK    73.98  32 (P)   21 26.48   3.9X
       1.6s   174.18nm          5.8mb
SBA    74.33 172 iPd   21 25.80    1.5
MAW    75.38 201 iPd   21 30.20   -0.3
       1.1s    75.00nm          5.7mb
     Z  18s     7.50um          6.0Msz
                 ipP   21 42.30  41kmX
                 iS    31 09.90
HON    76.57  66 P     21 50.00  12.0X
     Z  20s     4.13um          5.7Msz
CRZF   76.70 224 eP    21 36.00   -2.3
                 iS    31 29.00
MAIO   77.34 309 eP    21 42.00   -0.2
       0.9s    19.18nm          5.2mb
                 eSn   31 36.00
TIK    77.61 360 iPc   21 43.00    0.3
       2.0s   164.00nm          5.8mb
     Z  18s     9.00um          6.1Msz
                 i     21 52.00  29kmX
                 iS    31 31.00
ASH    78.70 310 eP    21 50.00    0.5
       2.4s   940.00nm          6.4mb
     N  18s     4.95um
     E  18s     4.35um
                 e     24 51.00
                 S     31 48.00
                 i     31 54.00
                 e     32 06.00
                 PS    32 32.00
ABKT   78.87 310 eP    21 51.06    0.5
AFR    79.86 107 iPc   21 58.00    1.8
       1.4s   777.20nm          6.5mb
PAE    80.05 107 iPc   21 59.10    2.0
       1.4s   486.20nm          6.3mb
PPT    80.06 107 iPc   21 59.10    1.9
       1.2s   397.50nm          6.3mb
     Z  43s  *******um          9.0MszX
PPN    80.19 107 iPc   22 00.00    2.1
       1.7s  1170.50nm          6.6mb
TVO    80.35 107 iPc   22 00.90    2.0
       1.8s  1671.10nm          6.7mb
NRI    80.39 346 iPd-  21 56.60   -1.4
       1.6s   128.00nm          5.7mb
     Z  20s    36.00um          6.7Msz
     E  22s    41.00um
                 e     22 03.00   20km
                 e     24 57.00
                 iS    31 59.00
                 ePS   32 40.00
SHI    81.33 301 eP    22 03.00   -1.0
PMO    81.83 104 iPc   22 08.40    1.9
```

```
        1.7s  1405.70nm          6.8mb
VAH    82.07 104 iPc   22 10.00   2.2
        1.8s  1001.30nm          6.6mb
TPT    82.10 104 iPc   22 10.00   2.1
        1.5s   708.30nm          6.5mb
RUV    82.31 104 iPc   22 11.20   2.2
        1.3s   495.30nm          6.5mb
ILT    82.43  18 iPd   22 09.00   0.3
        1.8s   420.00nm          6.3mb
                  i    22 19.00  32kmX
                  i    25 13.00
                  iPPP 27 12.00
                  iS   32 22.00
                  iPS  33 04.00
                  iSSS 41 10.00
DHR    82.75 297 eP    22 12.00   0.8
SVE    83.49 329 iPc   22 15.00   0.7
        2.1s   360.00nm          6.2mb
                  e    25 23.00
                  eS   32 31.00
                  eSS  38 08.00
SPA    83.91 180 iPd   22 15.90  -0.7
        1.0s   155.00nm          6.2mb
                  i    22 16.10   1kmX
SDN    84.13  33 ePc   22 17.53  -0.1
        0.8s   129.31nm          6.2mb
     Z  21s     8.27um           6.1Msz
RYD    85.63 295 eP    22 26.80   1.0
BAK    85.66 311 iPc   22 32.00   6.4X
     Z  18s     7.65um           6.1Msz
     N  20s     7.98um
     E  20s    10.64um
                  iS   33 00.00
KMSA   86.95 291 eP    22 33.00   0.6
MJMA   86.98 296 iPc   22 34.00   1.5
ARO    87.43 282 eP+   22 37.00   2.2
DHJN   87.55 288 eP    22 37.33   1.7
TAB    87.97 308 eP    22 38.00   0.9
                  i    22 43.00  16km
SVW    88.34  28 eP    22 39.58   1.3
        1.4s   199.65nm          6.2mb
QASM   88.58 296 eP    22 42.27   2.1
AFIF   88.64 294 eP    22 42.67   2.1
TTA    88.67  26 eP    22 40.37   0.5
        0.7s    12.26nm          5.3mb
KDC    89.06  32 (P)   22 41.73   0.1
        1.3s    45.72nm          5.6mb
GRO    89.30 314 eP    22 43.00  -0.1
                  iS   33 12.00
UQSK   89.59 296 eP    22 46.33   1.3
MTA    89.69 312 eP    22 46.00   1.0
                  eS   33 36.00
                  ePS  34 50.00
ERE    89.70 310 iP    22 47.00   1.8
                  iS   33 36.00
CP2    89.97  28 (P)   22 48.24   2.1
CRP    90.01  28 (P)   22 45.85  -0.5
IMA    90.46  23 eP    22 48.24   0.0
        1.3s    37.26nm          5.5mb
                  epP  22 58.95  33kmX
SLKM   90.78  29 eP    22 48.69  -1.0
AAE    91.14 279 eP    22 58.00   5.4X
PYA    91.28 314 eP    22 53.00   0.7
     Z  18s     4.00um           5.9Msz
                  iS   33 20.00
                  iPS  33 50.00
PMR    91.50  28 eP    22 51.22  -1.7
        1.2s    28.24nm          5.5mb
     Z  20s     5.55um           6.0Msz
NAI    92.01 269 PDIF  23 04.00   7.4X
                  PP   27 16.00
                  PS   35 12.00
                  PPS  36 00.00
                  SS   40 16.00
COL    92.64  25 eP    22 56.72  -1.4
        1.3s    39.34nm          5.7mb
FBA    92.64  25 eP    22 57.05  -1.1
        1.4s    42.21nm          5.7mb
NVL    92.88 197 eP    23 00.00   0.8
        2.0s   261.00nm          6.3mb
     Z  18s    10.00um           6.3Msz
     N  18s     2.00um
     E  18s     7.50um
                  e    24 59.00 535kmX
                  e    25 18.00
                  e    25 45.00
                  ePP  26 50.00
                  ePPP 28 39.00
                  e    30 36.00
                  eSKS 33 30.00
                  eS   34 00.00
                  ePS  35 17.00
                  e    36 50.00
                  e    39 16.00
                  eSS  40 24.00
                  eSSS 44 05.00
                  e    50 56.00
TOA    92.97  28 eP    23 00.60   0.8
KLU    93.01  29 eP    23 00.71   0.7
SOC    93.63 313 eP    23 08.00   4.9X
     Z  20s     2.50um           5.7Msz
     N  20s     1.00um
     E  20s     1.50um
                  e    33 30.00
                  eS   34 12.00
                  eSS  40 28.00
                  eSSS 44 08.00
BALM   94.68  29 (P)   23 07.73   0.0
BFT    95.36 244 eP    23 12.00   0.2
MOS    95.78 325 eP    23 11.00  -1.7
                  e    27 12.00
                  ePPP 29 18.00
                  e    33 43.00
                  eS   34 32.00
BHL    96.12 303 P     23 16.00   1.1
OBN    96.34 325 eP    23 14.50  -0.8
        2.0s   128.00nm          6.1mb
     Z  23s     4.50um           5.9MszX
     N  26s     5.10um
     E  22s     4.20um
                  e    27 17.00
                  e    33 52.00
                  iS   34 32.00
                  ePS  35 52.00
                  iSS  41 04.00
SLR    96.92 243 eP    23 10.50  -8.3X
        0.8s    14.93nm          5.6mb
     Z  22s    15.56um           6.4Msz
GRM    96.93 235 eP    23 23.50   4.9X
        1.3s    92.00nm          6.2mb
SEK    97.03 241 iPc   23 21.70   2.5
        0.8s    13.00nm          5.6mb
LVZ    97.27 338 (P)   23 16.44  -2.9
                  ec   23 17.60   4kmX
                  ed   23 21.07
BUL    97.56 249 eP    23 22.30   0.6
                  iS   34 54.00
SIM    97.72 314 eP    23 32.00  10.2X
                  e    27 26.00
                  e    33 56.00
                  e    34 44.00
                  e    36 45.00
BLF    98.11 240 eP    23 15.00  -9.1X
SIT    98.22  33 P     23 30.00   6.4X
     Z  19s     2.45um           5.7Msz
INK    98.44  22 eP    23 24.50   0.0
        1.0s     7.00nm          5.2mb
LSZ    98.72 254 eP    23 28.00   1.0
                  i    23 36.00  25kmX
                  i    26 59.00
                  i    27 14.00
MBC   101.01  13 ePdiff23 41.00   5.1X
                  PP   27 43.30
MNK   101.64 324 ePdiff23 39.00  -0.2
                  e    34 16.00
UZH   105.58 319 ePdiff24 00.00   3.1X
                  e    28 26.00
                  e    35 16.00
                  iSP  37 37.00
                  iSPP 38 35.00
GMW   106.80  42 (Pdiff24 03.72   1.3
PSZ   107.28 318 e(PKP)28 25.10  11.4X
YKA   107.42  26 ePKP 28 25.20  11.8X
        0.9s     2.70nm
HFS   107.71 332 ePdiff24 04.60  -1.5
        0.4s     1.10nm          5.3mb
WDC   108.00  49 PKP  28 20.00   4.8X
     Z  20s     4.50um           6.0Msz
NRA0  108.51 333 ePdiff24 19.70  10.1X
NB2   108.54 333 Pdiff 24 05.80  -4.0X
        1.2s     3.60nm          5.4mb
KSP   108.97 322 ePdiff24 29.00  17.1X
                  e    28 13.00
SAO   109.33  53 PKP  28 30.00  12.2X
     Z  19s     7.10um           6.2Msz
CMB   110.00  52 PKP  28 30.00  10.9X
     Z  19s     4.33um           6.0Msz
PTJ   110.32 317 ePKP 28 11.50  -8.0X
NEW   110.38  41 PKP  28 30.00  10.5X
     Z  22s    11.30um           6.4Msz
BRG   110.40 322 e(PKP)28 06.80 -12.6X
        1.6s    56.00nm
                  i    29 16.40
BCAO  110.74 272 iPdiff24 36.00  15.3X
        1.5s    25.00nm
                  i    27 47.20
GEC2  111.10 320 PKP  28 25.60   4.7X
        1.0s     2.07nm
                  e    28 31.90
                  e    28 35.10
                  e    28 40.90
                  e    28 53.50
LJU   111.26 317 ePKP 28 07.00 -14.2X
                  e    28 36.00
                  eSDIF 36 48.00
                  e    40 36.00
                  eSS  44 44.00
                  e    51 10.00
VOY   111.69 317 ePKP 28 40.00  17.9X
                  ePP  28 57.00
KBA   111.80 318 ePKP 28 29.00   6.6X
                  e    29 12.00
                  e    29 39.00
GRF   112.41 322 ePKP 28 42.00  18.8X
                  e    29 12.00
TPNV  113.42  52 PKP  28 40.00  14.2X
     Z  18s     4.27um           6.1Msz
LRM   114.11  42 ePKP 28 24.30  -2.7X
DUG   115.36  48 PKP  28 40.00  10.6X
     Z  18s     2.39um           5.8Msz
BSF   115.79 321 ePKP 28 34.10   4.1X
HAU   116.01 321 ePKP 28 34.90   4.7X
     Z  23s     4.15um           6.0MszX
MSU   116.25  50 ePKP 28 32.44   1.1
LPG   116.63 318 ePKP 28 36.40   4.5X
        0.8s     3.10nm
LPL   116.64 318 ePKP 28 36.30   4.5X
        0.8s     3.75nm
EMUT  116.95  48 (PKP) 28 32.81   0.2
SRU   117.35  49 ePKP 28 33.47   0.2
                  ePP  29 53.76
EDI   117.60 332 Pdiffc24 36.50 -13.7X
        3.0s   714.00nm
     Z  20s     6.00um           6.2Msz
     N  20s     5.00um
     E  20s     3.00um
                  e    26 02.00
LBF   117.88 321 ePKP 28 38.40   4.5X
        1.0s     8.20nm
SMF   118.10 320 ePKP 28 38.30   4.1X
SSF   118.15 321 ePKP 28 39.00   4.7X
        1.1s    16.85nm
AVF   118.35 321 ePKP 28 39.70   5.0X
PV09  118.56  49 ePKP 28 35.76   0.0
                  ePP  29 56.76
PV10  118.67  49 ePKP 28 36.40   0.5
TUC   118.73  57 ePKP 28 34.56  -1.4
     Z  19s     6.74um           6.3Msz
RSSD  120.30  42 ePKP 28 37.51  -1.3
                  PP   30 06.45
GOL   120.98  47 PKP  28 50.00   9.7X
     Z  21s     5.77um           6.2Msz
GLD   121.07  47 PKP  28 50.00   9.6X
     Z  21s     5.84um           6.2Msz
ALQ   121.61  53 PKP  28 50.00   8.5X
     Z  18s     3.52um           6.0Msz
ULM   122.28  32 ePKP 28 44.00   2.0X
WMOK  127.65  50 PKP  29 00.00   7.0X
     Z  19s     4.92um           6.2Msz
MEO   127.78  50 iPKPc 29 06.80  13.6X
JAQ   128.41  18 ePKP 29 05.50  11.7X
UYO   131.16  49 iPKPc 29 00.40   0.8
MIAR  131.65  48 ePKPc 29 01.55   1.0
     Z  21s     5.36um           6.2Msz
                  e    29 15.50
                  ePP  31 23.38
                  eSKP 32 25.95
                  e    32 48.31
                  SS   49 37.62
SLM   132.02  42 PKP  29 10.00   8.9X
     Z  20s     2.05um           5.8Msz
```

05d 05h

```
TIO   132.16 307 iPKP  29 16.50  14.7X
FVM   132.24  43 ePKP  29 00.56  -1.0
     Z  21s     8.39um          6.4Msz
ELC   133.42  43 ePKP  29 02.04  -1.8
KIC   133.99 273 ePKP  28 57.30  -8.3X
       1.4s    33.50nm
                ePP   31 39.00
                ePKS  32 39.00
GAC   135.24  24 ePKP  29 20.00  13.0X
YSNY  136.38  30 PKP   29 20.00  10.7X
     Z  21s     4.70um          6.2Msz
CBM   136.77  17 PKP   29 20.00  10.1X
     Z  19s     2.51um          6.0Msz
BINY  137.81  28 PKP   29 20.00   7.9X
     Z  21s     3.85um          6.1Msz
LBNH  137.86  22 PKP   29 20.00   7.9X
     Z  22s     4.38um          6.2Msz
MYNC  138.07  42 ePKP  29 12.51  -0.3
     Z  21s     3.47um          6.1Msz
RTCB  138.93 157 e(PKP)29 05.50  -9.0X
MRA   139.21 161 e(PKP)29 06.00  -8.8X
LSCT  139.46  26 PKP   29 20.00   5.0X
     Z  20s     4.50um          6.2Msz
HRV   139.47  24 PKP   29 20.00   5.0X
     Z  21s     3.56um          6.1Msz
CVL   139.68  34 (PKP) 29 20.06   4.5X
PAL   139.71  27 (PKP) 29 14.50  -0.9
PRM   139.83  42 (PKP) 29 16.50   0.6
CBN   140.12  33 ePKP  29 30.00  13.7X
                e     32 13.00
JSC   140.44  41 ePKP  29 09.49  -7.5X
TCA   140.55 162 e(PKP)29 10.10  -7.3X
LHS   140.61  40 ePKP  29 16.94  -0.3
CEH   140.75  37 ePKP  29 18.45   0.9
     Z  18s     3.03um          6.1Msz
SGS   141.60  42 ePKP  29 19.11   0.0
ANT   144.83 148 iPKP  29 24.80  -0.1
FSA   144.83 156 ePKPd 29 24.20  -0.6
MBO   145.51 286 iPKPd 29 27.90   1.7
SLA   146.25 156 ePKP  29 27.00  -0.5
                i     29 29.10
HJA   147.63 155 iPKPd 29 32.70   3.2X
YJA   148.51 154 ePKPd 29 33.00   1.4
BRU   148.64  83 ePKPd 29 37.41   5.4X
NNA   148.65 125 iPKPd 29 36.40   5.0X
       1.4s   116.28nm
DVD   148.76  84 ePKP  29 37.62   6.1X
RSTA  149.34 184 ePKP  29 34.30   2.1X
                e     29 38.10
                e     29 52.00
VAO   150.78 188 e(PKP)29 40.00   5.5X
                e     29 41.10
                e     29 44.40
                epPKP 29 50.90
                e     29 51.90
                e     29 53.40
                e     30 05.00
CNCB  151.71 144 PKP  29 38.70   2.0X
                PP    33 14.60
                SS    52 50.40
LPB   151.86 143 PKP  29 38.90   2.2X
     Z  19s     4.17um          6.3Msz
                LR    18 30.00
PPD   152.01 179 ePKP 29 36.90   0.6
                e     29 47.10
LPAZ  152.03 143 PKP  29 38.50   1.3
CACB  152.04 189 ePKP 29 43.00   6.5X
                e     29 47.00
                e     29 52.70
CCH   152.28 148 PKP  29 39.00   1.8
SIV   155.88 156 PKP  29 42.60   0.8
BDF   158.13 188 PKPd 29 45.00   0.3
                i     30 24.30
                i     30 30.80
                i     30 51.20
                i     31 09.00
                i     34 19.70
SDV   160.38  81 ePKP 29 47.40   0.1
TOV   161.07  78 ePKP 29 44.00  -3.8X
SOB1  161.72 214 ePKP 29 50.00   1.6
CAR   163.69  73 iPKP 29 32.00 -18.5X
     S.D. = 1.2  on 245 of 343 obs.
-----------------------------------
   OCT  05, 1993  05h 37m 32.43± 0.42s
   41.238 N ± 3.7km  141.976 E ± 3.5km
   DEPTH =  67.8 ±  4.0 km
   5.0mb ( 83 obs.)
```

```
 HOKKAIDO, JAPAN  REGION          (224)
MRRJ    1.37 331 iPd   37 55.60  -0.3
                eS    38 13.90
AOMJ    1.39 241 P     37 56.30   0.1
HOOJ    1.51  40 iPd   37 58.20   0.4
                eS    38 17.40
SAP     1.88 345 eP    38 03.00   0.1
                eS    38 26.00
OFUJ    2.17 186 P     38 05.00  -1.9
                eS    38 31.10
KUSJ    2.75  47 iPd   38 13.30  -1.8
                S     38 44.10
ASAJ    2.92   9 iP+   38 18.00   0.6
YAMJ    3.41 207 P     38 24.70   0.4
NIIJ    4.61 211 P     38 40.70  -0.5
KAKJ    5.22 196 eP    38 46.20  -3.5X
MAT     5.53 213 iPc   38 54.10  -0.1
         0.9s    67.23nm         4.9mb
                (S)    39 54.00
MTMJ    5.67 216 P     38 56.80   0.7
CHJJ    5.68 205 P     38 54.10  -2.1
YSS     5.80   5 iPc   38 57.20  -0.6
         0.9s    60.00nm         4.9mb
KUR     5.87  45 iPc   38 57.50  -1.3
         0.6s   530.00nm         6.1mb X
                eS    40 00.50
IIDJ    6.57 210 eP    39 10.50   1.8
TSRJ    7.38 221 P     39 21.90   2.1
                eS    40 55.00
VLA     7.72 287 iPd   39 24.00  -0.5
         1.0s    50.00nm         5.2mb
WKYJ    8.64 218 P     39 39.70   2.6
YONJ    9.02 231 P     39 43.60   1.3
TKSJ    9.59 223 P     39 49.00  -1.1
MDJ     9.69 295 Pc    39 53.40   1.9
         1.3s   160.00nm         5.9mb
CN2    12.46 287 eP    40 31.40   2.7
         1.2s    24.00nm         5.0mb
SNY    13.80 279 Pc    40 48.80   2.6
                sP    41 04.00
DL2    15.75 268 P     41 14.00   2.6
         1.0s    89.00nm         4.9mb
SSE    19.56 245 Pd    41 56.00  -1.3
         1.0s    38.00nm         4.6mb
BJI    19.60 275 eP    41 54.50  -3.2X
         1.2s    16.00nm         4.2mb
MGD    19.66  13 eP    41 56.00  -2.3
TIA    20.00 264 eP    41 59.80  -2.2
NJ2    20.65 251 Pd    42 05.20  -3.4X
CIT    22.12 309 eP    42 21.00  -2.3
HHC    22.89 279 Pc    42 29.00  -2.0
         1.2s    22.00nm         4.5mb
TIY    23.02 271 eP    42 30.40  -1.9
BTO    24.09 279 eP    42 41.00  -1.7
BOD    24.27 323 iP    42 45.00   1.0
         0.8s    31.00nm         4.8mb
IRK    27.76 306 eP    43 16.00  -0.4
         1.2s    37.00nm         4.9mb
ZAK    28.20 302 iPc   43 20.00  -0.3
         1.2s    28.00nm         4.8mb
ADK    29.97  55 (P)   43 38.88   2.7
         1.1s    24.22nm         4.8mb
LZH    30.05 273 eP    43 35.50  -1.8
         1.5s    34.00nm         4.9mb
TIK    31.17 352 eP    43 45.00  -1.5
         1.0s    95.00nm         5.5mb
                e     44 08.00
GTA    31.97 281 eP    43 53.00  -1.1
         1.2s    14.00nm         4.7mb
                pP    44 04.50  43kmX
                sP    44 10.00
CD2    32.34 264 eP    43 56.00  -1.2
GYA    32.57 254 P     43 57.60  -1.8
         1.0s    14.00nm         4.7mb
ILT    34.04  25 iPd   44 09.00  -2.6
         1.2s    73.00nm         5.5mb
KMI    36.22 256 Pc    44 24.50  -6.3X
         1.5s    70.00nm         5.4mb
WMQ    39.49 292 iPc   44 58.20   0.4
         1.0s    35.00nm         5.2mb
NRI    39.51 333 iPd   44 55.80  -1.7
         1.2s    49.00nm         5.3mb
                e     45 10.00
NVS    40.36 310 eP    45 03.50  -1.2
SVW    41.95  40 eP    45 12.80  -5.0X
LSA    42.42 271 P     45 22.30  -0.2
```

```
         1.2s    28.00nm         4.9mb
IMA    42.88  33 eP    45 25.51   0.1
         0.7s     6.47nm         4.5mb
CHTO   42.89 252 ePc   45 25.70  -0.1
         1.0s    12.75nm         4.7mb
CP2    43.58  40 eP    45 32.87   1.6
CRP    43.62  40 ePd   45 32.04   0.5
PMR    45.04  39 (P)   45 42.67   0.0
         0.9s    25.58nm         5.1mb
FBA    45.35  34 ePc   45 45.36   0.2
         0.8s    26.19nm         5.2mb
TOA    46.37  38 eP    45 59.20   5.9X
KLU    46.58  39 eP    45 54.44  -0.5
BALM   48.36  39 eP    46 09.03   0.1
KSH    49.22 291 eP    46 16.00   0.2
         0.5s    20.00nm         5.4mb
     Z  20s     1.49um          5.0Msz
     N  17s     4.15um
     E  17s     3.12um
                pP    46 25.00  30kmX
INK    50.47  29 eP    46 24.50  -0.3
         0.9s    10.00nm         4.8mb
SVE    52.35 317 ePc   46 39.00  -0.2
         2.0s    80.00nm         5.4mb
                e     46 55.00
RES    58.43  15 eP    47 22.00  -0.8
         0.9s    17.00nm         5.2mb
YKA    59.98  31 eP    47 31.50  -2.1
         1.1s     3.20nm         4.4mb
WRA    61.28 188 P     47 40.50  -2.4
         0.8s     5.00nm         4.7mb
WR2    61.28 188 eP    47 39.80  -3.1X
         0.7s     9.20nm         5.0mb
                i     47 57.60
DAG    61.64 355 eP    47 44.00  -0.7
POO    61.70 270 iPc   47 46.00   0.0
GBA    62.05 264 P     47 47.00  -1.2
BMW    64.47  50 ePd   48 04.24   0.4
RMW    64.73  48 ePd   48 05.79   0.2
ASPA   65.01 188 iPc   48 05.40  -2.0
         0.8s     7.40nm         4.7mb
OBN    65.01 322 iPc   48 06.00  -1.1
         1.0s    49.00nm         5.4mb
                e     48 20.00
SHW    65.19  50 (P)   48 09.52   0.9
LGPM   67.87  55 eP    48 26.45   0.7
LBFM   68.19  54 eP    48 28.36   0.5
WDC    68.25  55 ePd   48 28.22   0.3
         1.0s    14.89nm         4.9mb
ORV    69.50  55 ePd   48 35.15  -0.4
MNK    69.82 325 eP    48 34.00  -3.2X
HFS    70.45 335 eP    48 39.80  -1.2
         0.8s    19.70nm         5.1mb
NB2    70.49 337 P     48 40.40  -0.9
         0.9s    21.70nm         5.1mb
LRM    70.86  45 eP    48 43.60  -0.5
                e     49 02.90
CMB    71.11  56 eP    48 45.85   0.4
         1.0s    12.23nm         4.8mb
BONR   72.45  55 eP    48 54.06   0.3
HHAI   72.53  47 eP    48 54.97   1.0
FRB    72.59  14 eP    48 52.50  -1.2
         0.9s    11.00nm         4.8mb
HVU    73.29  49 ePd   48 59.11   0.7
DUG    74.30  50 ePd   49 04.76   0.5
         0.9s     9.52nm         4.7mb
TPNV   74.35  55 (P)   49 05.40   0.7
         1.1s    30.28nm         5.1mb
BW06   74.43  46 ePc   49 04.69  -0.4
         0.9s    12.67nm         4.8mb
DAU    75.05  49 eP    49 08.60  -0.3
KAS    75.23 312 iPd   49 10.30   0.8
EMUT   75.70  49 eP    49 12.98   0.5
PEC    75.74  57 (P)   49 12.14  -0.4
         0.7s     5.80nm         4.6mb
ULM    75.77  34 eP    49 32.00  19.7X
MSU    75.78  51 ePc   49 13.44   0.5
OJC    75.80 326 iPd   49 12.90   0.4
         0.9s    68.00nm         5.6mb
SRU    76.34  50 ePc   49 15.99   0.0
SPC    76.39 325 eP    49 15.70  -0.3
RSSD   76.42  43 eP    49 14.87  -1.5
         0.8s    11.78nm         4.9mb
KSP    76.77 328 iPc   49 18.10   0.2
         0.9s    22.00nm         5.1mb
                e     49 30.30
PSZ    77.50 324 ePc   49 22.80   0.7
```

```
PV09   77.56  49 eP    49 23.08   0.2
CLL    77.67 330 iPc   49 22.30  -0.5
       1.1s    26.00nm          5.1mb
                i      49 36.50
PV10   77.69  50 iPc   49 24.11   0.6
GLA    77.77  57 (P)   49 24.37   0.6
PV08   77.78  49 ePd   49 24.52   0.4
PRU    78.13 328 iPc   49 25.70   0.3
       0.9s    20.60nm          5.1mb
                e      49 40.50
SRO    78.27 325 iP    49 27.50   1.3
ZST    78.49 326 eP    49 28.50   1.1
GLD    78.88  46 eP    49 30.73   0.8
       1.3s    22.37nm          4.9mb
KHC    79.20 328 Pc    49 31.60   0.3
       1.0s    14.00nm          4.8mb
                e      49 49.00
                e      50 10.60
                e      52 19.50
                e      55 36.00
EKA    79.32 341 Pd    49 32.20   0.4
       1.2s    16.10nm          4.8mb
GEC2   79.38 328 P     49 32.30   0.0
       1.1s     4.96nm          4.4mb
WET    79.46 329 iPc   49 33.30   0.6
       1.0s    21.00nm          5.0mb
GRF    79.65 330 iPc   49 34.50   0.8
       1.1s    43.00nm          5.3mb
                e      49 51.80
                e      50 08.90
RZN    79.84 317 iP    49 35.00  -0.1
VTS    79.94 319 iP    49 36.00   0.5
MMB    80.42 318 iPc   49 38.00   0.0
BHG    80.61 328 iPc   49 39.70   0.9
       1.0s    28.00nm          5.1mb
TUC    80.79  55 ePd   49 41.95   1.8
       0.9s     3.87nm          4.3mb
KBA    80.93 327 iPc   49 40.90   0.1
       1.3s    35.10nm          5.1mb
                i      49 56.00
SKO    81.27 319 iPc   49 43.50   1.1
WATA   81.44 328 iPc   49 43.50   0.2
                i      49 58.00
WTTA   81.47 328 iPc   49 43.90   0.3
       0.8s    10.10nm          4.8mb
MOTA   81.62 329 iPc   49 44.40   0.1
       0.9s    26.70nm          5.2mb
                i      50 02.20
SQTA   81.68 329 iPc   49 44.90   0.4
       1.0s    19.50nm          5.0mb
CDF    82.17 331 iPc   49 47.10   0.1
       1.4s    28.75nm          5.0mb
BSF    82.83 331 eP    49 50.20  -0.3
HAU    82.85 332 iPc   49 50.20  -0.3
       0.9s     9.00nm          4.7mb
LOR    84.35 333 iPc   49 58.00  -0.1
       1.2s    42.25nm          5.4mb
LDF    84.49 336 iPc   49 58.60  -0.2
       1.1s    25.40nm          5.2mb
LBF    84.55 333 iPc   49 59.10  -0.1
       0.9s    15.05nm          5.0mb
SSF    84.65 333 iPc   49 59.70   0.1
       1.2s    22.90nm          5.1mb
LPL    84.81 330 iPc   50 01.20   0.5
       1.0s    28.20nm          5.3mb
LPG    84.82 330 iPc   50 01.30   0.4
       0.8s    19.75nm          5.2mb
SMF    84.89 333 iPc   50 01.20   0.4
       1.2s    34.50nm          5.3mb
GRR    84.90 336 eP    50 01.10   0.3
       1.0s    30.60nm          5.3mb
AVF    84.94 333 iPc   50 01.30   0.3
       1.1s    43.00nm          5.4mb
LPF    85.27 336 eP    50 03.20   0.5
       1.0s    20.40nm          5.1mb
MAF    85.70 333 iPc   50 05.70   0.8
       0.8s    35.75nm          5.5mb
TCF    85.76 333 iPc   50 05.80   0.6
       1.0s    15.60nm          5.0mb
NOZ    86.02 152 eP    49 49.80 -16.4X
LSF    86.03 334 iPc   50 06.90   0.4
       1.1s    70.35nm          5.7mb
WMOK   86.04  46 eP    50 06.67  -0.1
       0.8s     4.38nm          4.6mb
MFF    86.26 335 iPc   50 08.20   0.6
       0.9s    29.65nm          5.4mb
WAHZ   86.42 154 eP    50 08.30   0.0
RJF    86.86 333 iPc   50 11.20   0.6
       1.0s    19.40nm          5.2mb
MNG    86.97 155 eP    50 19.50   8.6X
CAF    87.00 333 iPc   50 12.30   1.0
       1.1s    38.10nm          5.5mb
GAC    87.20  25 eP    50 11.50  -0.7
PGZ    87.22 155 eP    50 17.00   5.0X
LFF    87.44 334 iPc   50 14.40   1.0
       1.0s    43.20nm          5.6mb
LPO    87.52 333 iPc   50 14.60   0.8
       1.4s    46.20nm          5.4mb
ELC    88.90  38 ePc   50 20.79   0.3
MIAR   88.94  43 ePc   50 20.83   0.1
       0.8s     5.57nm          4.9mb
LPAZ  144.06  55 PKP   56 59.80  -3.1X
LPB   144.26  55 ePKP  57 02.00  -1.0
       1.0s    14.00nm
CNCB  144.55  56 ePKP  57 01.00  -2.7X
CCH   146.12  54 PKP   57 07.30   1.3
SIV   147.91  45 PKP   57 08.50   0.0
     S.D. = 1.1  on 147 of 161 obs.
-----------------------------------
*  OCT  05, 1993  06h 04m 04.89± 1.32s
   37.264 N ±14.2km   28.482 E ± 9.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)

CIN     0.46 317 iPd   04 14.00  -0.2
ELL     1.25 114 ePn   04 28.00  -0.3
KHL     1.34  38 ePn   04 29.50  -0.1
IZM     1.49 320 ePn   04 32.00   0.3
BCK     1.69  83 ePn   04 35.00   0.3
     S.D. = 0.4  on   5 of   5 obs.
-----------------------------------
%  OCT  05, 1993  06h 26m 52.33± 1.11s
   28.011 S ± 7.7km   65.549 W ±23.9km
   DEPTH =  33.0km  (normal)
 SANTIAGO DEL ESTERO PROV., ARG. (132)

CYA     0.48 207 iPd   27 02.50  -0.2
                 S     27 10.00
FSA     1.96 348 iPd   27 23.90   0.0
                 S     27 47.00
RTPR    2.43 200 ePd   27 31.20   0.6
                 S     28 05.00
SLA     3.27   1 e(P)  27 51.50   8.9X
TCA     3.42 166 iPc   27 45.00   0.3
                (S)    28 39.00
MRA     4.39 182 ePd   27 57.70  -0.6
     S.D. = 0.7  on   5 of   6 obs.
-----------------------------------
%  OCT  05, 1993  08h 01m 51.58± 1.26s
   39.130 N ± 7.8km   27.722 E ±15.5km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.8 (ISK).

IZM     0.81 206 ePg   02 07.40   0.0
                 eSg   02 21.20
EDC     1.22   5 ePn   02 14.00  -0.3
BNT     1.23   7 ePn   02 15.00   0.5
EZN     1.28 303 iPn   02 15.50   0.1
MFT     1.69 349 ePn   02 21.00  -0.3
     S.D. = 0.5  on   5 of   5 obs.
-----------------------------------
%  OCT  05, 1993  08h 02m 16.95± 1.10s
   40.373 N ± 7.8km   23.257 E ± 9.5km
   DEPTH =   5.0km  (geophysicist)
 GREECE                            (364)
      ML 1.8 (THE).

SOH     0.45   9 iPg   02 26.48   0.4
                 iSg   02 32.64
PAIG    0.55 144 ePg   02 27.74  -0.2
                 eSg   02 37.41
OUR     0.56  94 ePg   02 28.50   0.4
                 eSg   02 36.72
SRS     0.79  19 iPg   02 31.80  -0.9
                 eSg   02 42.00
GRG     0.87 312 ePg   02 34.44   0.2
     S.D. = 0.8  on   5 of   5 obs.
-----------------------------------
*  OCT  05, 1993  08h 33m 15.02± 0.50s
   18.820 N ± 7.4km  145.252 E ±10.8km
   DEPTH = 598.2 ±  8.4 km
   4.7mb (  8 obs.)
 MARIANA ISLANDS                   (216)
GUMO    5.22 184 eP    34 49.80  -0.2
       0.8s   153.30nm          5.0mb
                eS    36 05.40
PJG     5.22 184 eP    34 50.30   0.3
GUA     5.26 184 eP    34 50.20  -0.2
       0.7s    87.67nm          4.8mb
IIDJ   17.82 340 P     36 50.30   0.2
KAKJ   17.89 347 P     36 51.40   0.8
KAGJ   17.90 316 P     36 51.70   0.9
CHJJ   18.03 343 P     36 52.00   0.0
TSRJ   18.56 336 P     36 57.50   0.6
MAT    18.71 342 eP    36 57.00  -1.4
       1.0s    16.00nm          4.5mb
                eS    40 01.00
KUMJ   18.83 319 P     36 59.40   0.0
MTMJ   18.87 341 P     36 59.40  -0.5
NIIJ   19.15 345 P     37 02.50   0.1
SHNJ   19.78 323 P     37 07.60  -0.6
KMI    39.80 287 Pd    40 00.00   0.2
       1.5s    60.00nm          4.9mb
LZH    40.23 304 iPd   40 04.00   1.0
       1.5s   119.00nm          5.2mb
CHTO   43.73 278 eP    40 30.10  -0.5
SDN    54.60  35 (P)   41 49.70  -0.5
       0.5s    16.60nm          4.6mb
NDI    62.33 293 iPd   42 41.40  -1.0
KLU    63.55  30 eP    42 49.62  -0.1
GBA    65.00 277 P     42 58.30  -1.1
       0.6s     5.50nm          4.2mb
POO    67.18 283 iP    43 14.00   1.2
DAG    84.13 356 eP    44 45.70   1.2
KAF    86.13 336 iP    44 52.90  -1.5
       0.8s     7.50nm          4.5mb
LPAZ  148.10  91 PKPc  51 53.90   0.9
LPB   148.17  91 PKPc  51 55.00   2.2X
CCH   150.15  92 PKP   52 03.00   7.3X
     S.D. = 0.8  on  24 of  26 obs.
-----------------------------------
?  OCT  05, 1993  09h 26m 36.46± 5.74s
   40.686 N ±16.8km   30.554 E ±37.0km
   DEPTH =   5.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.8 (ISK).

EYL     0.32 249 iPg   26 43.40   0.4
                 eSg   26 47.70
GPA     0.44 205 iPg   26 45.10  -0.2
                 iSg   26 53.10
HRT     0.69 282 ePg   26 49.60  -0.6
                 eSg   26 58.60
ISK     1.20 289 ePn   26 59.60   0.4
     S.D. = 0.8  on   4 of   4 obs.
-----------------------------------
%  OCT  05, 1993  09h 58m 25.58± 0.82s
   37.046 N ± 7.2km    5.435 W ± 7.1km
   DEPTH =  10.0km  (geophysicist)
 SPAIN                             (377)
      mbLg 2.8 (MDD).

EPRU    0.18 116 iPd   58 28.14  -1.5
                 e     58 30.70
EJIF    0.59 183 eP    58 37.65   0.1
                 e     58 45.90
EHOR    0.79  11 iPc   58 40.58  -0.3
                 e     58 51.40
ELUQ    1.06  61 eP    58 45.95   0.3
EVAL    1.18 298 eP    58 47.63   0.1
                 e     59 04.10
ECOG    1.51  81 eP    58 53.86   1.1
                 e     59 14.40
EGUA    1.51  97 eP    58 53.97   1.2
                 e     59 13.60
EBAN    1.72  49 eP    58 54.84  -0.9
                 e     59 18.20
     S.D. = 1.1  on   8 of   8 obs.
-----------------------------------
*  OCT  05, 1993  10h 03m 35.45± 1.36s
   14.319 N ±10.9km   93.603 W ± 9.4km
   DEPTH =  43.6 ± 11.6 km
   4.4mb ( 10 obs.)
 NEAR COAST OF CHIAPAS, MEXICO    ( 69)

TPX     1.42  66 iP    04 00.00   0.8
                 iS    04 20.00
SCX     2.58  21 iP    04 18.00   2.3
                 iS    04 49.00
OXX     4.07 313 iP    04 35.00  -2.1
```

05d 10h

```
                (S)   05 32.00
IIT     6.49 317 (P)  05 29.00  17.7X
PPM     6.74 315 iP   05 15.00   0.0
III     6.93 306 iP   05 16.00  -1.2
UNM     7.31 314 (P)  05 32.00   9.3X
CRX     7.71 312 iP   05 29.50   1.2
MRX     9.02 307 (P)  05 45.00  -1.1
LTX    17.61 330 eP   07 39.62   0.3
UYO    19.78 358 iPc  08 03.10  -1.8
MIAR   20.14   0 eP   08 07.05  -1.6
        0.9s   19.39nm        4.4mb
OXF    20.46  10 (P)  08 10.02  -2.0
WMOK   20.86 348 ePd  08 14.98  -1.2
        0.9s   12.11nm        4.3mb
MEO    20.87 348 iPc  08 15.00  -1.2
ACO    22.83 348 iPc  08 32.50  -3.3X
ELC    23.20   9 ePd  08 38.09  -1.3
TUC    23.81 322 eP   08 47.78   2.4
        1.0s   10.45nm        4.3mb
PV08   27.58 334 eP   09 22.11   1.2
PV10   27.58 333 eP   09 20.64  -0.2
PV09   27.73 333 eP   09 24.17   2.0
PEC    28.89 317 (P)  09 35.81   3.3X
ARUT   29.27 327 eP   09 37.47   1.5
DAU    30.23 333 eP   09 46.34   1.6
RSSD   31.01 345 eP   09 49.62  -1.7
BW06   31.51 337 eP   09 56.47   0.6
        1.5s   10.77nm        4.4mb
HVU    32.01 332 eP   10 01.11   1.0
BONR   32.15 322 (P)  10 03.38   1.9
LRM    35.20 337 eP   10 28.70   1.0
ULM    35.88 358 eP   10 34.00   0.9
LPAZ   39.47 139 P    11 05.60   1.3
LPB    39.68 140 eP   11 05.00  -0.8
CNCB   39.96 140 eP   11 07.00  -1.3
SIV    44.05 132 P    11 41.00  -0.1
YKA    50.37 348 eP   12 29.00  -1.0
        0.8s    6.10nm        4.7mb
FRB    52.36  14 eP   12 44.50  -0.6
        1.0s   11.00nm        4.8mb
INK    59.70 344 eP   13 37.50  -0.1
        0.7s    2.00nm        4.4mb
FBA    62.34 337 eP   13 54.13  -1.4
        0.8s    3.22nm        4.5mb
NB2    84.60  28 P    16 07.80   2.4
        1.0s   12.10nm        5.0mb
GEC2   90.34  39 P    16 32.00  -1.5
        1.0s    1.44nm        4.3mb
                e     16 44.40
                e     16 50.90
GBA   150.87  18 PKPd 23 26.70   6.9X
        0.8s    3.00nm
     S.D. = 1.5  on  36 of  41 obs.
-----------------------------------
%  OCT  05, 1993  10h 29m 17.30± 1.05s
   26.889 S ± 6.9km   26.692 E ± 9.5km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA        (584)
      ML 2.5 (PRE).

BFS     0.08  96 iPc   29 19.90   0.6
                S     29 20.40
PRY     0.70  93 eP    29 30.60  -0.7
                S     29 39.50
KSR     1.04  10 eP    29 37.60   0.1
SEK     1.65 150 iPc   29 47.70   0.5
                S     30 08.00
SLR     1.83  52 iPc   29 49.70  -0.1
                S     30 13.00
BLF     2.26 191 eP    29 55.60  -0.4
                S     30 23.00
     S.D. = 0.6  on   6 of   6 obs.
-----------------------------------
   OCT  05, 1993  11h 17m 44.30± 0.78s
   44.936 S ± 8.9km  166.706 E ± 6.2km
   DEPTH =  33.0km  (normal)
   4.3mb (  2 obs.)
 OFF W. COAST OF S. ISLAND, N.Z. (161)

MSZ     0.91  74 eP    18 00.80   0.1
                eS    18 16.70
TLC     1.70  99 P     18 12.00  -0.1
MHZ     1.83  95 Pd    18 14.60   0.5
CMCZ    1.83  98 P     18 14.30   0.2
SBCZ    1.85  96 P     18 14.90   0.5
LRCZ    1.88  95 Pd    18 15.40   0.6
LSCZ    1.90  96 Pd    18 15.40   0.4
MSCZ    1.93  96 eP    18 15.90   0.5
TUZ     2.30 117 P     18 18.60  -2.0
                eS    18 46.10
BWZ     2.30  81 P     18 21.50   0.9
ODZ     2.80  94 P     18 26.80  -0.9
                eS    19 01.10
MQZ     4.44  76 eP    18 50.10  -1.0
                eS    19 40.80
LTZ     4.56  64 eP    18 53.40   0.6
DSZ     4.90  51 eP    18 57.10  -0.4
THZ     5.52  57 eP    19 06.40   0.0
TCW     6.68  59 P     19 23.00   0.5
MRW     6.93  60 P     19 27.90   1.8
                S     20 47.00
MOZ     8.82  46 eP    19 51.10  -1.4
OUZ    11.04  31 eP    20 21.80  -1.1
CNB    16.35 300 iPc   21 38.80   5.9X
                eTT   36 53.00
TOO    17.54 287 eP    21 48.90   1.1
        0.9s   22.00nm        4.3mb
WR2    36.56 302 eP    24 48.10  -0.7
        1.0s    5.10nm        4.4mb
KAF   151.47 321 iPKP  37 34.70   6.0X
        0.6s    3.90nm
NUR   152.73 318 ePKP  37 23.50  -7.1X
     S.D. = 1.0  on  21 of  24 obs.
-----------------------------------
?  OCT  05, 1993  11h 27m 21.86± 0.96s
   40.759 S ±17.6km   90.497 E ±15.5km
   DEPTH =  10.0km  (geophysicist)
   4.7mb (  6 obs.)  5.0Msz (  1 obs.)
 SOUTHEAST INDIAN RIDGE          (435)

CSY    27.94 163 eP    33 14.10   0.2
        0.8s    4.70nm        4.3mb
ASPA   40.04  78 iPc   34 58.50  -0.3
        0.7s    9.40nm        4.6mb
     Z  20s    2.00um        5.0Msz
WR2    42.63  74 eP    35 18.60  -1.4
        1.2s    9.50nm        4.4mb
SPA    49.43 180 iPc   36 13.00  -0.7
        1.0s   20.00nm        5.1mb
ARMA   49.88  98 iPc   36 18.20   0.7
        0.8s   14.00nm        5.0mb
CTA    51.41  84 iP    36 30.00   0.9
BRS    52.28  96 iP    36 36.00   0.3
                e     42 24.00
BCAO   79.36 285 iPd   39 30.00   0.3
        0.7s    9.00nm        4.9mb
                i     39 44.00
     S.D. = 0.9  on   8 of   8 obs.
-----------------------------------
%  OCT  05, 1993  11h 58m 06.27± 1.11s
   26.880 S ± 7.2km   26.652 E ±10.0km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA        (584)
      ML 2.3 (PRE).

BFS     0.12  99 iPc   58 09.50   0.6
                S     58 09.90
PRY     0.73  94 eP    58 20.10  -0.9
                S     58 31.10
KSR     1.03  12 eP    58 26.50   0.1
SEK     1.68 149 iPd   58 37.20   0.6
                S     58 56.90
SLR     1.85  52 eP    58 39.10   0.0
                S     59 03.50
BLF     2.26 190 eP    58 44.50  -0.5
                S     59 12.00
     S.D. = 0.8  on   6 of   6 obs.
-----------------------------------
   OCT  05, 1993  12h 35m 58.22± 0.46s
   38.170 N ± 4.4km   28.702 E ± 4.1km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 3.7 (ISK). Felt at Denizli.

KHL     0.66  76 iPg   36 09.50  -2.0
CIN     0.75 221 iPc   36 13.00   0.1
IZM     1.16 282 ePg   36 20.00   0.1
                eSg   36 36.00
ALT     1.41  51 iPn   36 24.60   0.5
BCK     1.65 115 ePn   36 27.50   0.0
ELL     1.71 146 iPn   36 29.00   0.6
IZI     2.24  15 ePn   36 36.00   0.0
BNT     2.27 345 ePn   36 36.60   0.3
EDC     2.27 344 iPn   36 36.00  -0.3
GPA     2.46  30 ePn   36 39.20   0.2
EZN     2.48 312 iPn   36 39.60   0.3
EYL     2.64  25 ePn   36 41.60  -0.2
HRT     2.75  15 ePn   36 44.70   1.5
MFT     2.83 338 ePn   36 43.60  -0.8
ISK     2.90   5 ePn   36 46.00   0.7
ITU     2.94   5 iPc   36 52.00   6.2X
CTT     2.98 356 ePn   36 48.00   1.6
DMK     3.72 349 iPn   36 57.00   0.1
RZN     4.66 320 iP    37 10.00  -0.5
PLD     4.98 323 iP    37 15.00   0.2
KAS     5.04  49 eP    37 31.00  15.2X
MMB     5.13 313 iP    37 17.00   0.1
PGB     5.58 323 iPc   37 15.00  -8.3X
PVL     5.65 334 iP    37 23.00  -1.3
KKB     5.68 312 iP    37 24.00  -0.7
MLR     7.60 345 eP    37 51.00  -0.7
     S.D. = 0.8  on  23 of  26 obs.
-----------------------------------
*  OCT  05, 1993  13h 43m 40.25± 1.21s
   10.372 S ±13.4km  161.461 E ±13.7km
   DEPTH =  92.4 ± 14.3 km
   4.5mb (  2 obs.)
 SOLOMON ISLANDS                 (193)

HNR     1.76 302 eP    44 10.00   0.1
                eS    44 30.00
BKM     9.79 139 iPd   45 59.50  -0.6
                iS    47 42.50
DZM    12.58 158 iPd   46 37.60   0.4
                iS    48 53.00
CTA    17.55 235 iPc   47 44.50   4.0X
                e     47 47.00
BRS    18.80 205 iPc   47 56.00   0.6
WR2    27.79 247 eP    49 21.90  -0.8
        0.4s    2.60nm        4.2mb
                i     49 44.70
ASPA   29.41 240 eP    49 58.80  21.5X
        1.0s    5.90nm
YKA    96.32  28 eP    56 59.60   0.3
        0.5s    1.70nm        4.8mb
BCAO  142.79 264 iPKPc 03 02.10  -3.5X
        0.8s    7.00nm
     S.D. = 0.9  on   6 of   9 obs.
-----------------------------------
?  OCT  05, 1993  13h 54m 29.82± 8.11s
   32.545 S ±40.9km   70.566 W ±55.1km
   DEPTH =  33.0km  (normal)
 CHILE-ARGENTINA BORDER REGION   (127)

RTCB    1.83  55 iPc   54 59.80   0.2
                S     55 14.50
RTCV    1.85  69 ePd   55 00.20   0.4
                S     55 18.00
ZON     1.89  59 eP    55 01.00   0.6
                eS    55 15.00
RTLL    2.16  56 iPc   55 02.80  -1.4
                S     55 16.00
CFA     2.19  65 ePd   55 04.40  -0.2
                S     55 22.20
RTRS    2.55  22 ePd   55 09.80   0.1
                S     55 30.70
MRA     4.11  89 iPc   55 31.70  -0.1
                S     56 11.00
     S.D. = 0.8  on   7 of   7 obs.
-----------------------------------
%  OCT  05, 1993  14h 08m 52.16± 0.93s
   39.693 N ± 7.7km   29.500 E ±10.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.8 (ISK).

ALT     0.79 143 ePg   09 07.60  -0.1
                eSg   09 19.60
EYL     1.01  30 ePn   09 11.60   0.3
HRT     1.13   6 ePn   09 13.00  -0.4
ISK     1.41 346 ePn   09 18.00   0.1
EDC     1.42 298 ePn   09 18.00   0.1
     S.D. = 0.4  on   5 of   5 obs.
-----------------------------------
   OCT  05, 1993  14h 09m 05.30± 0.86s
   41.552 N ±10.1km   22.332 E ± 8.4km
   DEPTH =  10.0km  (geophysicist)
 NORTHWESTERN BALKAN REGION      (383)
      ML 2.3 (THE).

KNT     0.58 132 ePg   09 16.50  -0.5
```

```
                 eSg   09 25.74
GRG     0.60 175 ePg   09 16.86  -0.5
                 iSg   09 28.14
SKO     0.79 302 ePg   09 20.50  -0.1
                 iSg   09 27.70
                 Lg    09 32.00
SRS     1.04 114 ePg   09 25.38   0.4
                 eSg   09 38.62
SOH     1.06 133 iPg   09 25.10  -0.2
                 iSg   09 41.18
LIT     1.45 175 ePb   09 32.38   0.7
                 eSb   09 51.70
OUR     1.74 134 ePb   09 35.54  -0.2
PAIG    1.92 147 ePn   09 38.82   0.5
     S.D. = 0.6  on   8 of   8 obs.
-----------------------------------
*  OCT  05, 1993  14h 12m 02.38± 1.52s
   40.795 N ± 8.6km   23.985 E ±17.0km
   DEPTH =  10.0km  (geophysicist)
 GREECE                              (364)

SRS     0.44 317 ePg   12 12.22   0.9
                 eSg   12 17.26
PAIG    0.90 195 iPg   12 19.94   0.4
GRG     1.21 278 iPg   12 24.42  -0.5
                 eSg   12 38.86
HFS    20.39 345 eP    16 41.70  -0.1
       0.1s     0.40nm
NRA0   21.39 343 eP    17 08.06  16.1X
ESK    23.07 318 P     17 08.06  -0.6
     S.D. = 0.9  on   5 of   6 obs.
-----------------------------------
?  OCT  05, 1993  15h 13m 43.73± 2.44s
   37.833 N ± 7.4km   30.714 E ±28.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
     ML 3.2 (ISK).

BCK     0.38 195 iPg   13 51.00  -0.6
                 eSg   13 56.50
KHL     1.06 298 iPn   14 03.50  -0.3
ELL     1.26 211 ePn   14 08.00   0.8
ALT     1.31 339 ePn   14 08.10   0.1
CIN     2.10 264 eP    14 23.00   3.7X
     S.D. = 1.1  on   4 of   5 obs.
-----------------------------------
*  OCT  05, 1993  15h 25m 22.98± 0.63s
   40.200 S ±12.6km   78.227 E ±14.6km
   DEPTH =  10.0km  (geophysicist)
   5.0mb (  9 obs.)  5.3Msz (  1 obs.)
 MID-INDIAN RIDGE                    (429)
     Mw 5.3 (HRV).
     CENTROID, MOMENT TENSOR     (HRV)
     Data Used: GDSN
     L.P.B.: 15S, 23C
     Centroid Location:
     Origin Time        15:25:27.5 0.6
     Lat 39.95S 0.12 Lon  78.06E 0.10
     Dep  15.0 FIX Half-duration  1.2
     Moment Tensor;   Scale 10**16 Nm
       Mrr= 0.49 0.81  Mtt=-8.72 1.06
       Mff= 8.22 0.51  Mrt=-3.37 1.77
       Mrf= 4.13 2.17  Mtf= 3.50 0.87
      Principal Axes:
       T  Val= 10.22  Plg=21  Azm=277
       N        0.74      60      146
       P      -10.96      21       15
     Best Double Couple:Mo=1.1*10**17
      NP1:Strike= 56 Dip=60 Slip=   0
      NP2:       146     90     -150

NVL    44.91 205 iPc   33 39.50   0.5
       2.0s   112.00nm          5.4mb
BUL    46.66 280 iPd   33 53.50  -0.2
       1.3s    24.04nm          5.1mb
ASPA   49.26  88 eP    34 15.60   1.8
       1.2s     7.00nm          4.6mb
SPA    49.99 180 iPd   34 19.00  -0.1
       1.2s    28.17nm          5.1mb
     Z  21s     3.43um          5.3Msz
                i      41 27.00
KOD    50.18 359 eP    34 21.60   0.5
STK    50.95 102 eP    34 25.20  -1.4
       2.0s     6.00nm          4.2mb
GBA    53.53 359 Pd    34 45.10  -0.8
       1.0s     7.00nm          4.6mb
POO    58.57 355 iPc   35 24.00   1.8
```

```
KMI    68.88  24 Pc    36 30.00  -0.1
       1.8s    40.00nm          5.3mb
                pP     36 40.00  32kmX
BCAO   70.37 294 iPd   36 38.90  -0.3
       0.9s    23.00nm          5.3mb
                i      36 45.50
LZH    79.49  21 eP    37 29.50  -1.7
       1.2s    20.00nm          5.0mb
INK   147.03  21 ePKP  45 06.50   2.3X
       1.0s     4.00nm
     S.D. = 1.3  on  11 of  12 obs.
-----------------------------------
?  OCT  05, 1993  15h 29m 34.31± 1.75s
   14.439 N ±43.2km   91.983 W ±13.7km
   DEPTH =  96.9 ± 22.4 km
   4.5mb (  1 obs.)
 GUATEMALA                           ( 70)
     MD 4.2 (GCG).

PCG     1.33  92 ePd   29 58.51  -0.5
GCG     1.41  84 eP    30 00.52   0.6
IXG     1.51 100 eP    30 00.66  -0.4
                eS     30 21.39
YUP     2.13  96 ePd   30 09.41   0.2
SCX     2.37 345 iP    30 14.20   2.0X
                iS     30 45.00
OXX     5.27 301 iP    30 55.80   3.5X
                (S)    31 47.00
IISM    6.87 312 (P)   31 15.50   1.4X
III     8.18 300 iP    31 32.40   0.1
UYO    19.77 354 iPd   33 58.80  -0.4
YKA    50.60 347 eP    38 25.20   0.2
       0.4s     2.20nm          4.5mb
GBA   150.23  21 PKPd  49 18.60   7.6X
       0.8s     4.50nm
     S.D. = 0.6  on   7 of  11 obs.
-----------------------------------
   OCT  05, 1993  16h 32m 00.50± 0.69s
   26.422 S ± 6.1km   27.376 E ± 8.3km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA            (584)
     ML 3.3 (PRE).

PRY     0.51 170 eP    32 11.80   1.0
                S      32 18.40
KSR     0.70 322 eP    32 17.00   2.4
BFS     0.71 228 eP    32 18.30   3.6X
                S      32 28.40
SLR     1.06  50 iPd   32 20.60  -0.5
                S      32 32.90
SEK     1.91 173 iPd   32 36.80   2.7X
                S      33 01.10
BFT     2.51  74 iPc   32 42.90   0.1
                S      33 10.10
BLF     2.88 201 iPc   32 49.90   1.9
                S      33 25.50
FRS     3.78 208 eP    33 05.00   4.3X
HVD     4.48 201 eP    33 11.20   0.4
                S      34 01.50
PKA     5.21 231 eP    33 19.70  -1.4
                S      34 20.50
BUL     6.35  11 iPn   33 36.70  -0.6
                eSn    34 40.00
                iSg    35 15.40
GRM     6.90 186 eP    33 44.00  -0.9
                S      34 41.00
SUR     8.25 222 iPc   34 03.00  -0.8
                S      35 31.80
KRI     9.77  13 iPn   34 19.80  -5.1X
                iSn    36 01.00
                iSg    36 55.60
CER     9.85 223 eP    34 40.00  14.2X
                S      36 21.00
WIN    10.11 290 eP    34 28.00  -1.7
                S      36 15.00
     S.D. = 1.5  on  11 of  16 obs.
-----------------------------------
&  OCT  05, 1993  17h 27m 21.15s
   32.390 N          115.060 W
   DEPTH =   6.0km  (geophysicist)
 CALIF.-BAJA CALIF. BORDER REGION( 45)
     <PAS-P>. ML 2.8 (PAS).

GLA     0.69  17 eP    27 33.33  -1.6
PLM     1.79 303 eP    27 50.76  -2.3
       2 obs. associated
-----------------------------------
```

```
?  OCT  05, 1993  17h 30m 13.49± 2.59s
   31.525 S ±24.9km   68.552 W ±24.0km
   DEPTH = 103.3 ± 23.7 km
 SAN JUAN PROVINCE, ARGENTINA        (137)

RTLL    0.21  20 iPc   30 28.50  -0.1
                S      30 40.00
RTCB    0.22 280 iPd   30 28.50  -0.2
                S      30 40.00
CFA     0.28 107 ePd   30 29.10   0.2
                S      30 41.00
RTCV    0.34 178 ePc   30 29.00   0.1
                S      30 41.10
RTRS    1.56 330 ePd   30 41.10   0.1
MRA     2.57 111 ePc   30 54.20  -0.1
     S.D. = 0.3  on   6 of   6 obs.
-----------------------------------
&  OCT  05, 1993  17h 40m 11.28s
   63.186 N          150.755 W
   DEPTH = 137.6km
 CENTRAL ALASKA                      (  1)
     <AEIC>.

TRF     0.34  38 iP    40 30.53   1.4
                eS     40 45.59
KTH     0.38 349 iP    40 30.52   1.3
                eS     40 44.45
HUR     0.55 112 iP    40 31.19  -0.6
                eS     40 46.52
CUT     0.82 164 iP    40 33.20  -0.4
                eS     40 50.58
RND     0.89  75 iP    40 33.69  -0.6
MCK     0.98  55 eP    40 34.66  -0.4
BWN     1.14  30 eP    40 36.58   0.1
SKT     1.26 197 iP    40 37.09  -0.7
                eS     40 57.06
DHY     1.54  93 iP    40 40.48  -0.4
NEA     1.58  27 eP    40 40.30  -0.9
PWA     1.59 165 P     40 41.20  -0.1
GHO     1.65 148 iP    40 41.60  -0.5
                eS     41 05.15
SUA     1.73 180 eP    40 43.54   0.5
                eS     41 06.84
WRH     1.75  41 iP    40 42.36  -0.7
PLRM    1.77 154 eP    40 42.30  -1.0
PMR     1.77 154 (P)   40 41.20  -2.1
                eS     41 06.02
SML     1.78 140 iP    40 42.60  -0.9
                eS     41 07.58
NCG     1.91 201 eP    40 44.73  -0.3
CCB     1.96  40 iP    40 44.81  -0.8
CGLM    1.97 198 eP    40 46.02   0.1
PMS     2.03 163 P     40 46.00  -0.5
CRP     2.03 199 eP    40 45.94  -0.7
                eS     41 13.72
CP2     2.05 201 eP    40 47.20   0.3
BGL     2.08 202 eP    40 47.15   0.0
KNK     2.08 148 eP    40 46.35  -0.7
                eS     41 13.85
CKN     2.08 199 eP    40 47.14   0.0
HDA     2.08  52 eP    40 46.30  -0.8
SCM     2.09 129 iP    40 46.61  -0.7
MDM     2.10  31 eP    40 46.81  -0.5
SPU     2.10 197 eP    40 46.93  -0.5
CKT     2.11 199 eP    40 47.35  -0.1
CKL     2.13 201 eP    40 47.50  -0.3
FBA     2.16  36 (P)   40 47.04  -1.0
BKG     2.24 199 eP    40 48.70  -0.4
THY     2.27  82 eP    40 49.93   0.5
IL1     2.33  45 eP    40 49.11  -1.1
GLM     2.34  38 eP    40 49.66  -0.6
TOA     2.38 115 P     40 50.50  -0.3
TTA     2.41 266 P     40 51.00  -0.2
PAX     2.42  93 iP    40 50.82  -0.5
                eS     41 20.98
CFI     2.45 144 eP    40 50.92  -0.7
SDG     2.48 103 eP    40 51.69  -0.4
PWL     2.60 153 eP    40 52.48  -1.1
SLKM    2.70 174 eP    40 54.34  -0.6
TZL     2.72 113 eP    40 54.64  -0.4
RDT     2.74 197 eP    40 55.63   0.2
MPA     2.79 166 eP    40 55.30  -0.6
KLU     2.82 125 iP    40 54.98  -1.6
                eS     41 30.06
REF     2.86 200 eP    40 57.25   0.1
RDW     2.88 201 eP    40 58.61   1.2
RS2     2.89 200 eP    40 58.53   1.0
```

05d 17h

```
VLZ      2.93 133 eP    40 56.13  -1.6
DOT      3.05  78 eP    40 58.23  -1.1
IM3      3.09 337 iP    40 59.01  -0.9
CNPM     3.68 184 eP    41 06.77  -1.0
GLB      3.68 115 iP    41 06.84  -1.0
SGAM     3.76 133 eP    41 09.40   0.6
BC3      4.07  88 iP    41 11.35  -1.7
       58 obs. associated
-------------------------------------
*  OCT  05, 1993  17h 52m 57.22± 1.86s
   7.400 S ±12.4km  147.676 E ±22.1km
   DEPTH =  85.6 ± 14.8 km
   4.1mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY     2.05 304 eP    53 29.40  -1.2
PMG      2.06 194 iPc   53 31.00   0.4
                  eS    54 03.00
MNDI     4.18 287 e(P)  54 00.00  -0.1
WWKK     5.51 313 eP    54 19.80   1.3
CTA     12.69 186 iP    55 56.00   0.1
WR2     17.95 225 eP    57 02.70  -0.1
                  i     57 05.90
                  eS    00 15.90
BRS     20.46 167 iPc   57 30.00  -0.3
ASPA    20.89 218 iPd   57 34.90   0.3
        0.5s     8.10nm          4.3mb
                  i     57 45.70
                  iS    01 24.80
STK     25.01 192 eP    58 14.30  -0.4
        0.7s     3.40nm          3.9mb
     S.D. = 0.9  on   9 of   9 obs.
-------------------------------------
*  OCT  05, 1993  18h 05m 34.76± 0.95s
   31.193 S ±15.7km   68.173 W ±12.1km
   DEPTH =  33.0km  (normal)
 SAN JUAN PROVINCE, ARGENTINA     (137)

RTLL     0.29 242 eP    05 42.00  -0.4
                  (S)   05 50.00
CFA      0.42 188 ePc   05 44.10  -0.1
                  S     05 50.50
ZON      0.56 231 iPd   05 46.60   0.3
                  eS    05 54.60
RTCB     0.61 241 iPd   05 47.20   0.2
                  S     05 56.20
RTPR     1.68  59 eP    06 02.30   0.0
     S.D. = 0.4  on   5 of   5 obs.
-------------------------------------
*  OCT  05, 1993  18h 35m 39.16± 1.48s
   36.649 N ±13.8km   29.792 E ± 8.8km
   DEPTH =  37.4 ±  8.1 km
   4.1mb (  5 obs.)
 TURKEY                           (366)
      ML 4.1 (ISK).

ELL      0.14  43 iPg   35 46.00   0.1
BCK      1.03  38 iPn   35 57.60   0.2
CIN      1.66 305 iPd   36 07.00   0.7
KHL      1.68 353 iPn   36 06.50  -0.3
ALT      2.42   6 ePn   36 17.60   0.4
IZM      2.66 312 iPn   36 20.50  -0.2
GPA      3.66   6 ePn   36 35.00   0.2
EYL      3.92   4 ePn   36 38.50  -0.1
BNT      3.98 339 ePn   36 39.80   0.4
EDC      3.99 338 ePn   36 39.00  -0.5
HRT      4.17 359 ePn   36 41.70  -0.3
EZN      4.18 320 ePn   36 41.70  -0.5
ITU      4.49 352 eP    37 01.00  14.5X
MFT      4.57 335 ePn   36 46.50  -1.3
KAS      5.64  32 eP    37 33.50  30.7X
RZN      6.39 323 iP    37 12.00  -1.5
SKO      8.37 312 ePn   37 40.80  -0.2
GEC2    16.93 321 P     39 36.90   2.0
        0.8s     1.98nm          3.3mb
                  e     39 41.10
                  e     39 47.00
KHC     17.18 322 eP    39 39.00   1.1
                  e     40 37.50
PRU     17.30 325 eP    39 42.50   3.2X
BRG     18.20 326 e(P)  39 52.40   2.0
GRF     18.73 320 eP    39 57.40   0.4
CLL     18.93 326 e(P)  40 00.00   0.7
LPL     19.46 304 eP    40 15.00   9.2X
CDF     20.25 313 eP    40 13.60  -0.4
        1.2s    29.15nm          4.5mb
BSF     20.29 311 eP    40 13.20  -1.2
        1.0s    11.20nm          4.2mb
HAU     20.63 311 eP    40 17.20  -0.7
        1.0s    23.20nm          4.5mb
DOU     22.58 314 P     40 37.60   0.2
HFS     25.68 341 eP    41 05.70  -1.3
        0.7s     1.10nm          3.6mb
     Z  16s      0.09um          3.4MszX
                  LR    51 30.00
     S.D. = 1.0  on  25 of  29 obs.
-------------------------------------
?  OCT  05, 1993  18h 41m 46.01± 6.61s
   47.989 N ±12.1km    8.161 E ±48.3km
   DEPTH =  10.0km  (geophysicist)
 SWITZERLAND                      (544)
      ML 1.9 (LDG).

FEL      0.15 221 ePg   41 49.60   0.0
CDF      0.73 306 Pg    42 00.40   0.0
                  Sg    42 09.30
                  Sn    42 11.10
BSF      0.93 261 Pg    42 04.00   0.1
                  Sg    42 16.40
HAU      1.22 271 Pg    42 08.60  -0.1
                  Sg    42 25.20
LOR      3.00 258 Pg    42 41.70   7.3X
                  Sg    43 19.60
SSF      3.29 255 Pg    42 45.50   6.9X
     S.D. = 0.1  on   4 of   6 obs.
-------------------------------------
?  OCT  05, 1993  19h 18m 51.48± 6.32s
   31.428 S ±21.0km   68.670 W ±43.2km
   DEPTH = 108.4 ± 48.7 km
 SAN JUAN PROVINCE, ARGENTINA     (137)

ZON      0.12 183 iPd   19 07.60   0.6
                  eS    19 17.60
RTCB     0.13 242 iPd   19 06.80  -0.3
                  S     19 15.00
RTLL     0.20  60 iPc   19 06.80  -0.4
                  S     19 15.00
CFA      0.41 116 iPc   19 08.00   0.1
                  S     19 19.70
RTPR     2.17  59 eP    19 27.20   0.1
                  S     19 53.70
MRA      2.70 112 ePc   19 34.00  -0.1
                  S     20 05.50
     S.D. = 0.6  on   6 of   6 obs.
-------------------------------------
&  OCT  05, 1993  19h 28m 33.43s
   60.272 N          141.680 W
   DEPTH =   8.3km
 SOUTHEASTERN ALASKA              ( 19)
      <AEIC>. ML 3.8 (AEIC), 3.8
      (PMR).

YAH      0.10 341 iPd   28 36.43   0.3
                  eS    28 38.90
CHX      0.35 126 iP    28 40.24  -0.4
WAX      0.61 288 eP    28 45.53  -0.2
                  eS    28 53.97
CTGM     0.72  14 iPd   28 47.20  -0.6
                  eS    28 57.13
PCA      0.73 103 iP    28 47.54  -0.5
TGL      0.75 311 iPd   28 47.34  -1.0
                  eS    28 57.18
BALM     0.83 337 iPd   28 48.83  -1.0
CRQM     0.87 305 iPd   28 48.96  -1.5
                  eS    29 02.71
BCPM     1.07 106 iP    28 52.61  -1.2
                  eS    29 08.22
YKU      1.22 125 P     28 55.50  -0.7
HMT      1.29 274 iPc   28 56.48  -1.0
                  eS    29 12.87
PNL      1.30 117 eP    28 55.73  -1.9
                  eS    29 14.44
KAIM     1.41 257 eP    28 57.11  -2.3
RAGM     1.49 276 iPc   28 59.76  -0.8
                  eS    29 19.50
GLB      1.57 319 iPd   29 00.39  -1.3
                  eS    29 20.26
HQN      1.64 119 eP    29 00.25  -2.3
SGAM     1.77 279 ePc   29 03.64  -0.8
                  eS    29 24.80
CVA      2.04 280 ePc   29 07.06  -1.3
HIN      2.40 275 eP    29 11.47  -2.2
                  eS    29 39.45
KLU      2.41 302 iPc   29 12.97  -0.8
                  eS    29 42.47
VLZ      2.44 293 iPc   29 12.88  -1.3
                  eS    29 42.26
MID      2.50 252 P     29 14.80  -0.1
TZL      2.54 316 eP    29 15.86   0.3
BC3      2.80 359 ePc   29 19.45   0.0
TOA      2.85 312 P     29 20.00   0.0
SDG      2.93 322 eP    29 20.99  -0.1
CFI      3.13 290 eP    29 22.47  -1.3
                  eS    30 00.87
TMW      3.13 349 eP    29 22.93  -0.9
SCM      3.16 302 eP    29 22.87  -1.6
PAX      3.26 328 eP    29 24.83  -1.0
PWL      3.34 283 eP    29 24.92  -2.0
KNK      3.51 292 eP    29 27.89  -1.4
                  eS    30 10.08
DOT      3.57 343 P     29 30.30   0.1
SML      3.58 298 eP    29 28.87  -1.6
MPA      3.82 277 eP    29 30.68  -3.0
GHO      3.83 296 eP    29 32.61  -1.4
PLRM     3.87 293 eP    29 32.62  -1.8
PMR      3.87 293 (P)   29 32.31  -2.1
SEW      3.88 271 eP    29 32.02  -2.6
DHY      3.91 319 eP    29 35.14   0.0
PMS      3.99 288 P     29 34.20  -1.9
PWA      4.23 293 P     29 38.50  -1.0
SLKM     4.25 277 eP    29 36.76  -3.0
                  eS    30 27.53
SUA      4.59 289 eP    29 43.03  -1.7
SIT      4.63 131 eP    29 41.51  -3.6
RND      4.63 316 eP    29 44.38  -0.9
CUT      4.66 301 eP    29 44.62  -1.0
HDA      4.82 332 eP    29 47.26  -0.7
CNPM     4.87 265 eP    29 46.91  -1.8
HOM      5.04 267 eP    29 49.99  -1.1
SKT      5.07 294 eP    29 49.12  -2.4
IL1      5.12 334 eP    29 50.14  -2.0
ILB      5.12 334 eP    29 50.12  -2.0
CGLM     5.17 286 eP    29 50.01  -2.9
TRF      5.17 312 eP    29 51.66  -1.4
SPU      5.17 285 eP    29 49.35  -3.6
CCB      5.23 330 eP    29 52.61  -1.1
CRP      5.23 286 eP    29 50.10  -3.8
CKN      5.24 285 P     29 53.70  -0.2
CKT      5.25 285 eP    29 51.35  -2.7
NCG      5.25 287 eP    29 51.36  -2.8
BKG      5.27 283 eP    29 51.30  -3.0
CP2      5.27 285 eP    29 49.72  -4.8
CKL      5.31 285 eP    29 51.62  -3.4
RDT      5.32 278 eP    29 51.63  -3.5
BGL      5.34 285 eP    29 52.84  -2.6
FBA      5.43 331 eP    29 55.02  -1.6
        0.7s     5.96nm          4.4mb X
                  Lg    31 27.88
DFR      5.46 278 eP    29 53.08  -4.0
KTH      5.47 311 eP    29 55.81  -1.4
REF      5.47 277 eP    29 53.40  -4.0
RS2      5.50 277 eP    29 54.45  -3.3
RED      5.51 276 eP    29 55.79  -2.0
RDW      5.53 277 eP    29 55.80  -2.3
NCT      5.58 278 eP    29 56.27  -2.6
ILIM     5.63 273 eP    29 56.92  -2.6
INE      5.69 273 eP    29 58.34  -2.0
OPT      5.84 269 eP    30 00.68  -1.6
AUE      5.97 266 eP    30 02.60  -1.5
AUP      5.99 266 eP    30 02.78  -1.8
AUL      6.00 267 eP    30 03.30  -1.2
AGU      6.00 266 eP    30 03.21  -1.4
AUI      6.00 266 eP    30 02.98  -1.6
AUH      6.00 266 eP    30 03.23  -1.5
AUW      6.02 266 eP    30 03.60  -1.2
KDC      6.13 250 (P)   30 02.38  -4.0
        0.5s     6.37nm          4.7mb X
CDD      6.22 263 iPc   30 05.27  -2.4
PDB      6.29 271 eP    30 06.46  -2.2
SVW      6.90 283 eP    30 12.91  -4.4
BM3      7.29 351 eP    30 21.17  -1.6
TTA      7.33 297 P     30 20.30  -3.1
IM3      7.91 322 eP    30 25.05  -6.3
IMA      7.94 322 eP    30 29.16  -2.8
       92 obs. associated
-------------------------------------
*  OCT  05, 1993  19h 37m 35.86± 3.12s
   36.877 N ±29.1km   29.022 E ± 9.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 3.7 (ISK).
```

```
CIN     1.04 314 eP    37 55.00  -0.4
BCK     1.38  65 iPn   38 01.10  -0.1
KHL     1.50  15 ePn   38 03.50   0.6
IZM     2.06 318 ePn   38 11.50   0.5
ALT     2.34  21 ePn   38 15.10   0.1
EYL     3.79  13 ePn   38 35.00  -0.7
     S.D. = 0.7  on   6 of   6 obs.
-----------------------------------
   OCT  05, 1993  19h 50m 24.62± 0.35s
   46.453 N ± 3.1km    3.145 E ± 3.5km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                            (538)
      ML 2.8 (LDG).

BGF     0.23 297 Pg    50 30.40   0.8
                Sg    50 33.40
AVF     0.37  23 Pg    50 32.30   0.1
                Sg    50 36.80
AGO     0.40 181 Pg    50 33.64   0.8
                Sg    50 39.36
MAF     0.46 240 Pg    50 34.60   0.6
                Sg    50 40.40
SMF     0.52  68 Pg    50 35.10   0.0
                Sg    50 42.10
PLDF    0.59 145 Pg    50 36.96   0.4
                Sg    50 45.02
SSF     0.66  22 Pg    50 37.50  -0.2
                Sg    50 45.50
TCF     0.67 256 Pg    50 38.10   0.2
                Sg    50 46.70
PYM     0.71 188 Pg    50 39.16   0.5
                Sg    50 48.61
LBF     0.78  47 Pg    50 39.80  -0.1
                Sg    50 50.50
HYF     0.89 337 Pg    50 41.80   0.2
                Sg    50 53.40
LOR     0.95  31 Pg    50 42.70   0.0
                Sg    50 54.50
COLF    1.01 158 Pn    50 43.65  -0.2
                Pg    50 44.49
                Sg    50 58.25
LSF     1.14 260 Pg    50 46.50   0.6
                Sg    51 00.80
RJF     1.62 225 Pn    50 52.10  -1.2
                Pg    50 55.00
                Sg    51 15.30
CAF     1.71 207 Pn    50 53.20  -1.4
                Pg    50 56.60
                Sg    51 18.20
LPO     2.24 219 Pg    51 06.90   4.6X
                Sg    51 35.70
LFF     2.27 229 Pg    51 07.40   4.7X
                Sg    51 36.40
MFF     2.28 275 Pn    51 01.70  -1.1
                Pg    51 06.50
                Sg    51 34.90
HAU     2.68  53 Pg    51 15.20   6.6X
                Sg    51 49.50
BSF     2.85  60 Pg    51 18.10   7.1X
                Sn    51 40.40
                Sg    51 54.40
CDF     3.42  54 Pg    51 29.10  10.0X
                Sg    52 13.40
EPF     3.96 211 Pg    51 35.70   8.9X
                Sg    52 31.10
     S.D. = 0.7  on  17 of  23 obs.
-----------------------------------
   OCT  05, 1993  20h 59m 10.61± 0.49s
   47.969 N ± 3.8km    8.126 E ± 4.8km
   DEPTH =  10.0km  (geophysicist)
 SWITZERLAND                       (544)
      ML 2.6 (LDG), 2.1 (STR).

FEL     0.12 219 ePg   59 14.10   0.4
SLE     0.32 129 iP    59 16.40  -0.9
ZLA     0.52 160 iPd   59 20.90  -0.2
BBS     0.65 220 Pg    59 23.95   0.3
                Sg    59 32.93
MOF     0.68 260 Pg    59 24.30   0.2
                Sg    59 34.25
WLS     0.68 311 Pg    59 23.50  -0.7
                Sg    59 32.50
ECH     0.69 291 Pg    59 24.04  -0.3
                Sg    59 33.27
CDF     0.72 308 Pg    59 24.50  -0.4
                Sg    59 34.10
BSF     0.91 262 Pg    59 28.00  -0.1
                Sg    59 40.90
HOFF    0.98 354 Pg    59 28.32  -0.9
LANF    1.03 348 Pg    59 29.18  -1.0
LOMF    1.07 235 Pg    59 30.20  -0.7
                Sg    59 45.97
HAU     1.19 272 Pg    59 33.20   0.3
                Sg    59 49.60
LLS     1.25 151 eP+   59 34.80   0.8
TOD     1.70  15 ePg   59 31.40  -9.1X
RUP     1.87 338 ePg   59 44.60   1.6
ABH     1.95 349 ePg   59 45.70   1.6
LOR     2.97 258 Pg    00 06.70   8.0X
                Sg    00 43.90
LBF     2.98 252 Pg    00 06.80   8.0X
                Sg    00 45.50
SMF     3.20 247 Pg    00 10.60   8.7X
                Sg    00 52.10
SSF     3.26 256 Pg    00 12.10   9.3X
                Sg    00 53.90
KHC     3.80  70 ePn   00 15.50   4.9X
                e     00 19.50
                e     00 40.00
                eSg   01 08.30
GEC2    3.82  75 Pg    00 19.90   9.1X
                Sg    01 09.80
     S.D. = 0.9  on  16 of  23 obs.
-----------------------------------
*  OCT  05, 1993  21h 12m 57.18± 1.99s
   20.282 S ±10.3km  176.677 W ±19.7km
   DEPTH = 272.5 ± 14.9 km
   4.6mb (  6 obs.)
 FIJI ISLANDS REGION               (181)

SVA     5.08 294 iPd   14 15.50   0.3
VUN     5.12 295 iP    14 15.00  -0.7
DZM    15.84 261 iPd   16 30.10   2.2
                i     19 30.40
KUZ    17.70 200 eP    16 48.30   1.0
PUZ    18.27 193 eP    16 53.10  -0.1
URZ    18.71 195 eP    16 55.40  -2.2
MOZ    19.60 200 eP    17 08.50   1.9
MNG    21.35 197 eP    17 22.20  -1.6
QRZ    22.45 202 eP    17 35.40   1.0
THZ    23.16 200 eP    17 42.20   0.9
LTZ    24.29 200 eP    17 50.30  -1.3
WVZ    25.07 202 eP    17 58.30  -0.4
CTA    34.75 264 iPc   19 24.50   0.7
        0.5s    47.54nm        5.3mb
                e     20 12.00
STK    39.00 244 eP    20 00.10   0.9
        0.4s     2.90nm        4.1mb
ASPA   45.78 256 iPc   20 53.40  -0.5
        0.5s    24.60nm        4.8mb
                i     27 18.40
WR2    45.84 262 iPc   20 52.80  -1.6
        0.4s    10.10nm        4.5mb
                iPcP  21 39.90
                eS    27 18.80
WRA    45.86 262 P     20 53.80  -0.8
        0.4s     4.30nm        4.1mb
MTN    50.40 270 eP    21 28.00  -1.5
CSY    64.69 205 eP    23 08.60   0.7
        0.5s    23.10nm        5.2mb
CHTO   91.34 289 eP    25 33.00  -0.6
NRI   110.64 338 ePKPd 31 10.00  11.9X
        0.7s    38.00nm
                e     33 38.00
KSP   147.83 344 iPKP  32 08.60   0.8
CLL   148.11 348 iPKP  32 08.90   0.7
        1.2s    16.00nm
BRG   148.34 347 e(PKP)32 10.20   1.6
PRU   149.04 346 ePKP  32 17.00   7.3X
GRF   149.99 350 ePKP  32 19.50   8.3X
ZST   150.01 341 ePKP  32 13.30   2.1X
                e     32 19.90
KHC   150.07 346 ePKP  32 13.50   2.1X
        1.1s     6.30nm
                e     32 20.00
                e     33 17.00
                e     33 28.50
GEC2  150.31 346 PKP   32 10.40  -1.4
        1.2s     5.49nm
                e     32 20.70
FLN   151.42   5 ePKP  32 16.50   3.2X
GRR   151.76   6 ePKP  32 17.30   3.5X
LPF   152.09   6 ePKP  32 17.90   3.6X
        0.5s     8.90nm
HAU   152.24 356 ePKP  32 18.50   3.9X
        0.5s     2.50nm
     S.D. = 1.3  on  24 of  33 obs.
-----------------------------------
   OCT  05, 1993  21h 28m 06.40± 0.15s
   77.727 N ± 3.1km  126.454 E ± 2.6km
   DEPTH =  33.3km  ( 25 depth phases)
   5.0mb ( 68 obs.)
 LAPTEV SEA                        (655)
      Mw 5.2 (HRV).
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 15S, 21C
      Centroid Location:
      Origin Time       21:28: 6.0 0.8
      Lat 78.32N 0.08 Lon 125.93E 0.33
      Dep  15.0 FIX Half-duration  1.0
      Moment Tensor;   Scale 10**16 Nm
        Mrr=-5.56 0.39  Mtt=-1.30 0.52
        Mff= 6.86 0.44  Mrt=-0.32 1.37
        Mrf= 3.24 1.76  Mtf= 2.53 0.47
       Principal Axes:
        T  Val=  8.24  Plg=13  Azm=284
        N       -1.72      14      191
        P       -6.53      71       55
      Best Double Couple:Mo=7.4*10**16
       NP1:Strike= 32 Dip=35 Slip= -65
       NP2:        183     59     -106

YAK    15.83 174 iPc   31 48.60   0.7
        1.0s    50.00nm        4.6mb
     Z  19s     2.80um
     N  17s     1.30um
     E  13s     0.90um
ILT    18.04  93 iPc   32 15.00  -0.6
        1.0s   270.00nm        5.3mb
                iS    35 44.00
DAG    24.48 342 eP    33 24.00   1.2
IMA    24.88  73 eP    33 27.90   1.0
        0.7s     8.10nm        4.4mb
RES    25.97  24 eP    33 37.50   0.6
CIT    26.27 198 eP    33 39.50  -0.4
INK    26.75  54 eP    33 50.00   5.9X
        1.0s     3.00nm        3.9mb X
IRK    26.82 211 eP    33 44.00  -1.0
        1.6s    31.00nm        4.7mb
     Z  14s     0.99um        4.5MszX
     N  14s     0.75um
     E  14s     1.04um
                e     38 10.00
FBA    27.09  69 eP    33 51.73   4.4X
        1.0s     6.64nm        4.2mb
SDF    27.55 305 eP    33 51.00  -0.4
ZAK    28.80 212 eP    34 02.80   0.0
        1.8s    24.00nm        4.6mb
                e     38 55.00
                e     44 46.00
SVW    28.88  80 eP    34 01.74  -1.8
        0.6s    13.70nm        4.8mb
PWA    29.58  74 eP    34 09.70  -0.1
PMR    29.79  73 eP    34 10.75  -0.8
        0.8s    12.79nm        4.7mb
TOA    29.93  70 eP    34 11.30  -1.6
PMS    30.02  74 eP    34 13.50  -0.2
        0.4s    15.60nm        5.2mb
SVE    30.23 265 ePd   34 16.00   0.5
        2.1s    80.00nm        5.1mb
                e     35 20.20 339kmX
KLU    30.53  71 eP    34 18.30   0.0
SLKM   30.55  75 ePd   34 17.27  -1.1
YSS    31.47 158 eP    34 26.70   0.2
     Z  14s     1.10um        4.7MszX
     N  14s     0.50um
     E  14s     0.80um
KAF    32.39 300 iP    34 33.50  -1.0
        1.0s    18.40nm        4.9mb
NUR    34.18 300 eP    34 48.60  -1.4
        0.7s     6.70nm        4.7mb
YKA    35.20  45 eP    34 58.00  -0.7
        0.8s     5.70nm        4.6mb
NB2    36.01 312 P     35 04.90  -0.7
        1.2s    15.40nm        4.8mb
SNY    36.03 184 eP    35 05.30  -0.6
     Z  14s     1.30um        4.9MszX
                pP    35 15.20  33km
UPP    36.05 306 iP    35 04.60  -1.3
                i     35 14.00  32km
```

05d 21h

```
MOS    36.09 286 eP    35 08.00   1.7
        2.0s   200.00nm          5.7mb
                e      36 48.00 563kmX
HFS    36.46 309 eP    35 08.00  -1.3
        0.6s     9.10nm          4.8mb
     Z  16s     0.38um          4.3MszX
                LR     47 41.00
OBN    36.90 287 eP    35 11.00  -2.0
        1.6s    72.00nm          5.3mb
     Z  16s     1.20um          4.8MszX
     N  15s     1.00um
     E  18s     0.60um
                i      36 36.00 446kmX
                eS     41 00.00
WMQ    37.37 228 P     35 17.40   0.2
     Z  14s     1.56um          5.0MszX
     N  12s     1.02um
     E  11s     0.96um
HHC    37.50 199 Pc    35 19.60   1.2
        1.2s     8.10nm          4.5mb
     Z  14s     1.65um          5.0MszX
     N  12s     1.89um
     E  11s     0.47um
BTO    37.87 201 eP    35 21.00  -0.4
     N  14s     0.77um
     E  12s     0.32um
BJI    38.04 193 eP    35 23.00   0.2
        1.6s    24.00nm          4.8mb
     Z  16s     1.75um          5.0MszX
     N  13s     1.33um
FRB    38.46  11 eP    35 26.00   0.0
DL2    38.98 186 eP    35 31.50   0.8
MNK    39.84 294 eP    35 32.00  -5.6X
GTA    40.02 213 eP    35 39.50   0.0
        1.8s    16.00nm          4.5mb
     Z  16s     1.43um          4.9MszX
     E  12s     0.57um
                PP     37 20.00
TIY    40.57 197 eP    35 44.70   0.8
     Z  14s     1.43um          5.0MszX
     E  15s     1.60um
MUD    40.70 311 iP    35 44.90   0.2
        0.9s    21.00nm          4.9mb
LZH    42.88 207 P     36 03.00   0.1
        1.5s    32.00nm          4.8mb
     Z  14s     1.02um          4.9MszX
     N  11s     0.80um
                sP     36 14.00
EKA    43.64 320 Pc    36 09.00   0.3
        0.9s    13.00nm          4.7mb
XAN    44.47 201 P     36 15.00  -0.7
        1.1s    11.00nm          4.6mb
     Z  16s     1.47um          5.0MszX
     N  12s     0.92um
     E  12s     0.72um
                sP     36 24.00
OJC    44.83 299 eP    36 19.00   0.6
KSP    44.87 302 iPd   36 18.60  -0.1
        1.1s    39.00nm          5.2mb
                e      36 25.20  22kmX
                e      37 59.60
CLL    45.01 305 iP    36 19.10  -0.7
        1.4s    40.00nm          5.1mb
                i      36 29.20  34km
BRG    45.26 305 iP    36 21.70  -0.1
        1.0s    20.00nm          5.0mb
                i      36 32.20  36km
WTS    45.39 311 eP    36 24.00   1.3
        1.1s    25.90nm          5.1mb
                e      36 34.00  34km
SPC    45.73 298 eP    36 23.70  -2.1
UZH    45.87 296 iPd   36 27.50   0.9
        1.0s    35.00nm          5.2mb
                e      38 18.00 632kmX
NJ2    45.90 189 Pc    36 26.60  -0.4
PRU    46.01 304 P     36 28.30   0.6
                e      36 37.00  29km
                e      38 18.50
PYA    46.02 275 iP    36 30.00   2.1
GRO    46.12 273 iPc   36 31.00   2.4
        1.5s   160.00nm          5.7mb
HOF    46.16 306 iPc   36 29.90   0.9
ENN    46.72 311 eP    36 33.50   0.2
        1.2s    25.90nm          5.1mb
                e      36 40.50  23km
SSE    46.78 186 Pc    36 44.20  10.2X
        1.2s    30.00nm
     Z  20s     0.50um          4.5Msz
GRF    46.88 306 iPd   36 35.50   0.9
        1.4s    49.00nm          5.3mb
     Z  19s     0.30um          4.3Msz
                e      36 41.80  21kmX
                e      36 45.70
KHC    47.01 304 P     36 36.00   0.3
        1.0s    10.50nm          4.8mb
                e      36 46.40  35km
                e      36 57.10
                e      38 30.00
                e      39 11.60
PSZ    47.02 298 ePd   36 36.90   1.1
WET    47.11 305 iPc   36 37.70   1.2
        1.0s    23.00nm          5.1mb
GEC2   47.26 304 e(P)  36 38.50   0.7
        0.7s     5.10nm          4.6mb
ZST    47.27 301 e(P)  36 38.20   0.5
WHN    47.59 194 eP    36 40.00  -0.4
VRI    47.66 291 eP    36 50.00   9.2X
SOP    47.86 301 eP    36 43.00   0.6
CD2    48.01 206 P     36 43.80   0.0
JAQ    48.02  18 eP    36 42.50  -1.0
GMW    48.15  58 eP    36 45.63   1.0
FUR    48.34 306 eP    36 47.00   0.9
RMW    48.41  57 eP    36 47.07   0.3
NEW    48.46  53 ePd   36 48.07   1.0
        1.0s    57.59nm          5.6mb
UZD    48.54 299 eP    36 48.80   1.2
CMP    48.57 293 iPc   36 50.00   2.1
ASH    48.60 258 eP    36 49.50   1.3
DPW    48.65  54 (P)   36 48.99   0.4
                e      36 57.68  29km
CDF    48.78 309 eP    36 49.20  -0.4
        1.1s    27.35nm          5.2mb
BZS    48.90 296 eP    36 42.50  -7.9X
KBA    49.03 304 iPd   36 52.80   1.2
        1.2s    46.70nm          5.4mb
                i      36 58.90  20kmX
WATA   49.09 305 iPd   36 52.30   0.3
                i      37 02.40  34km
LON    49.10  58 eP    36 52.61   0.6
                e      37 01.21  29km
WTTA   49.15 305 iPd   36 53.30   0.8
        1.0s    23.40nm          5.2mb
                i      37 03.60  35km
MOTA   49.16 306 iPd   36 52.70   0.1
        1.0s    10.70nm          4.8mb
SQTA   49.27 306 iPd   36 53.80   0.4
        1.2s    22.20nm          5.1mb
HAU    49.33 310 eP    36 53.00  -0.7
        1.1s    17.60nm          5.0mb
     Z  19s     0.28um          4.2Msz
ERE    49.40 272 iP    36 54.00  -0.4
BSF    49.42 310 eP    36 53.70  -0.8
        1.1s    19.55nm          5.0mb
OGA    49.64 306 iPc   36 57.40   1.1
ULM    49.65  35 eP    36 58.00   1.9
PTJ    49.69 301 iP    36 57.20   0.6
LJU    49.81 302 eP    36 58.00   0.6
VOY    49.94 303 eP    36 57.50  -1.0
MAIO   49.95 256 eP    37 00.00   1.3
                eSn    44 16.00
LOR    50.45 312 eP    37 01.20  -1.0
        1.5s    53.80nm          5.3mb
     Z  21s     0.20um          4.1Msz
VGB    50.48  57 eP    37 03.27   0.7
HYF    50.64 313 eP    37 03.00  -0.7
LSA    50.70 221 P     37 05.40   0.5
        1.2s    14.00nm          4.8mb
LBF    50.70 312 eP    37 03.00  -1.2
        1.3s    44.40nm          5.3mb
SSF    50.70 312 eP    37 03.20  -1.0
        1.3s    34.30nm          5.2mb
AVF    50.99 312 eP    37 05.30  -1.0
BGF    51.30 313 eP    37 07.70  -1.0
LRM    51.61  50 iPd   37 11.80   0.4
TCF    51.66 313 eP    37 10.30  -1.2
        1.6s    53.50nm          5.3mb
LPL    51.68 309 eP    37 11.60  -0.3
        1.2s    18.45nm          4.9mb
LPG    51.70 309 eP    37 11.80  -0.3
        1.3s    30.35nm          5.1mb
LSF    51.80 314 eP    37 11.20  -1.4
GYA    52.17 203 P     37 15.20  -0.4
SKO    52.45 295 iP    37 17.00  -0.4
KMI    53.84 207 Pc    37 26.50  -1.6
        1.5s    50.00nm          5.3mb
                pP     37 37.50  37km
NDI    53.90 235 eP    37 27.00  -1.3
HHAI   54.08  50 eP    37 30.65   1.0
                e      37 41.50  37km
LGPM   54.56  60 iPd   37 34.12   1.0
RSSD   54.57  43 eP    37 33.06  -0.3
        1.3s    34.76nm          5.2mb
                e      37 43.86  36km
WDC    54.93  60 eP    37 36.20   0.4
        1.2s    20.51nm          5.0mb
BW06   55.04  48 iPd   37 36.57  -0.3
        1.3s    24.94nm          5.1mb
                e      37 46.88  34km
GAC    56.10  18 eP    37 43.00  -1.1
ORV    56.12  60 eP    37 44.16  -0.2
LMN    56.50   9 eP    37 46.50  -0.5
DUG    57.03  52 eP    37 51.50   0.5
        0.8s    10.95nm          4.9mb
DAU    57.08  50 eP    37 52.43   0.8
LBNH   57.78  16 ePc   37 56.01   0.0
        0.8s    24.35nm          5.3mb
                e      38 07.21  38km
ARN    58.25  60 ePd   38 00.63   1.1
BONR   58.25  57 ePd   38 01.05   1.2
COE    58.31  60 eP    38 00.70   0.8
TNP    58.32  56 iPc   38 01.14   0.9
        0.6s     9.94nm          5.1mb
SRU    58.47  50 eP    38 00.49  -0.7
GLD    58.68  45 ePc   38 03.69   1.1
        1.3s    47.53nm          5.4mb
                e      38 13.68  33km
GOL    58.70  45 eP    38 02.67  -0.3
        1.3s    54.41nm          5.5mb
MSU    58.78  52 ePc   38 03.33  -0.1
                e      38 14.41  38km
SAO    58.83  60 ePc   38 03.85   0.3
        1.0s    15.34nm          5.1mb
                e      38 13.02  30km
YSNY   59.09  21 (P)   38 03.49  -1.8
        0.4s     6.61nm          5.1mb
PV10   59.42  49 iPc   38 08.75   0.8
BINY   59.55  19 eP    38 18.58  10.1X
TPNV   59.60  56 iPc   38 09.42   0.4
        0.6s     8.27nm          5.0mb
CHTO   60.47 210 eP    38 13.20  -1.7
BCH    60.62  60 ePc   38 17.04   1.1
                e      38 26.60  31km
GSC    61.10  57 ePd   38 19.87   0.7
ABL    61.11  59 ePd   38 19.68   0.3
SSK    62.01  58 eP    38 26.34   0.9
                e      38 36.55  33km
FVM    62.39  32 (P)   38 24.72  -3.0X
PLM    62.99  57 (P)   38 32.32   0.4
ALQ    63.19  47 ePd   38 33.16  -0.1
        1.1s    28.99nm          5.3mb
GLA    63.65  55 eP    38 36.93   0.9
BLA    64.16  24 eP    38 37.81  -1.6
        1.0s    14.49nm          5.0mb
                e      38 47.81  32km
KHT    64.49 210 eP    38 40.50  -1.1
MEO    64.51  40 iPc   38 41.00  -0.7
WMOK   64.53  40 ePd   38 41.19  -0.6
        0.9s   105.83nm          5.9mb
TUC    65.07  52 eP    38 46.20   0.8
        1.3s    20.81nm          5.1mb
                e      38 57.28  37km
UYO    65.67  37 iPd   38 48.20  -0.9
LHS    66.84  24 eP    38 54.18  -2.3
JSC    66.99  25 ePd   38 55.94  -1.6
                e      39 06.45  34km
PRM    67.09  26 eP    38 56.43  -1.7
SGS    68.14  24 eP    39 14.35   9.7X
GBA    68.61 232 Pc    39 08.00   0.2
LTX    69.12  46 iPd   39 10.40  -0.6
BCAO   89.46 288 iPd   41 00.90  -0.1
        0.3s     5.00nm          5.3mb
WRA    97.58 173 P     41 37.50  -0.4
        0.8s     0.90nm          4.4mb
     S.D. = 1.0  on 147 of 156 obs.
-----------------------------------
&  OCT  05, 1993  22h 33m 07.77s
   62.684 N          148.766 W
   DEPTH =  60.5km
 CENTRAL ALASKA                    (  1)
     <AEIC>. ML 2.5 (AEIC).
```

```
HUR      0.50 307 eP    33 19.92   0.1
                eS    33 29.79
RND      0.73 357 eP    33 22.28  -0.3
                eS    33 33.72
DHY      0.75  58 eP    33 22.66  -0.3
                eS    33 35.11
CUT      0.75 249 eP    33 22.48  -0.3
                eS    33 34.35
SML      0.90 167 iP    33 24.36  -0.4
                eS    33 37.87
GHO      0.92 185 eP    33 24.71  -0.3
TRF      1.04 319 eP    33 26.34  -0.3
MCK      1.06 356 eP    33 26.68  -0.1
                eS    33 40.72
SCM      1.09 141 eP    33 27.26   0.0
                eS    33 43.32
PLRM     1.11 189 eP    33 27.17  -0.2
PMR      1.11 189 eP    33 26.47  -0.9
PWA      1.16 207 P     33 28.30   0.2
KNK      1.28 173 eP    33 29.95   0.1
                eS    33 47.86
KTH      1.31 313 eP    33 30.52   0.2
                eS    33 48.29
TOA      1.34 115 P     33 31.10   0.4
                S     33 51.10
SKT      1.47 243 eP    33 32.70   0.3
                eS    33 52.06
PMS      1.49 195 P     33 33.00   0.3
SDG      1.50  95 iP    33 33.01   0.2
BWN      1.53 348 eP    33 32.47  -0.7
SUA      1.54 218 eP    33 34.02   0.6
                eS    33 55.48
PAX      1.54  78 eP    33 33.23  -0.2
CFI      1.58 162 eP    33 33.77  -0.1
TZL      1.69 111 eP    33 35.95   0.6
KLU      1.79 130 eP    33 36.36  -0.6
WRH      1.82   9 eP    33 36.27  -1.0
PWL      1.84 173 eP    33 37.22  -0.4
NEA      1.91 356 eP    33 37.21  -1.2
HDA      1.91  24 eP    33 38.41  -0.1
VLZ      1.94 142 eP    33 37.71  -1.1
                eS    34 01.08
CCB      2.02  12 eP    33 38.97  -1.0
NCG      2.05 233 eP    33 40.64   0.1
CGLM     2.06 229 eP    33 41.64   1.0
CRP      2.14 230 eP    33 40.66  -1.2
SPU      2.17 227 eP    33 42.72   0.6
CP2      2.17 231 eP    33 41.97  -0.4
MPA      2.22 188 eP    33 43.62   0.8
CKL      2.25 230 eP    33 44.91   1.5
ILB      2.26  21 eP    33 41.90  -1.4
IL1      2.26  21 eP    33 41.95  -1.4
                eS    34 09.37
SLKM     2.29 198 eP    33 44.28   0.4
MDM      2.30   6 eP    33 42.82  -1.1
BKG      2.32 227 eP    33 45.52   1.3
HIN      2.54 154 eP    33 45.99  -1.3
CVA      2.58 145 eP    33 47.03  -0.9
GLB      2.65 116 eP    33 48.75  -0.1
RDT      2.74 221 eP    33 49.93  -0.3
SGAM     2.77 141 eP    33 49.98  -0.7
RAGM     3.02 138 eP    33 55.64   1.4
HMT      3.20 135 eP    33 54.76  -1.9
BC3      3.22  80 eP    33 55.35  -1.7
BALM     3.46 116 eP    33 58.70  -1.8
IM3      3.96 329 eP    34 05.29  -2.0
       52 obs. associated
-----------------------------------
?  OCT  05, 1993  22h 36m 45.59± 6.27s
   48.002 N ±12.6km    8.161 E ±46.0km
   DEPTH =  10.0km  (geophysicist)
 GERMANY                          (543)
      ML 2.0 (LDG).

FEL      0.16 218 ePg   36 49.40   0.0
CDF      0.72 305 Pg    36 59.80   0.0
                Sg    37 09.40
BSF      0.94 260 Pg    37 03.30  -0.2
                Sg    37 16.20
HAU      1.22 271 Pg    37 08.50   0.2
                Sg    37 25.00
     S.D. = 0.3  on   4 of   4 obs.
-----------------------------------
   OCT  05, 1993  23h 14m 00.86± 0.81s
   26.893 S ± 6.3km   26.632 E ± 9.0km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA         (584)
      ML 3.2 (PRE).

BFS      0.14  92 iPc   14 04.60   0.8
                S     14 05.10
PRY      0.75  93 eP    14 15.00  -1.1
                S     14 23.10
KSR      1.05  13 eP    14 21.50   0.2
SEK      1.68 148 iPd   14 33.00   1.9
                S     14 53.50
SLR      1.88  52 iPd   14 34.40   0.4
                S     14 56.50
BLF      2.24 190 iPd   14 41.40   2.1X
                S     15 09.20
FRS      3.07 202 iPc   14 50.80  -0.1
                S     15 27.40
BFT      3.29  69 e(P)  14 53.00  -1.3
                S     15 31.50
HVD      3.83 195 eP    15 02.00   0.1
                S     15 47.00
GRM      6.40 180 eP    15 37.00  -1.2
BUL      6.96  16 iPn   15 46.50   0.3
                iSn   16 55.50
                iSg   17 35.30
SUR      7.45 221 eP    15 57.00   3.9X
                S     17 22.50
CER      9.05 223 e(P)  16 37.50  22.3X
                S     18 13.50
     S.D. = 1.1  on  10 of  13 obs.
-----------------------------------
%  OCT  05, 1993  23h 33m 38.23± 0.91s
   36.973 N ± 7.6km    5.508 W ± 7.6km
   DEPTH =  10.0km  (geophysicist)
 STRAIT OF GIBRALTAR              (385)
      mbLg 2.6 (MDD).

EPRU     0.22  92 iPd   33 41.65  -1.4
                e     33 45.20
EJIF     0.52 177 eP    33 48.33  -0.5
                e     33 55.50
EHOR     0.87  14 iPc   33 54.12  -0.9
                e     34 05.00
ELUQ     1.15  59 eP    33 59.97   0.2
                e     34 14.30
EVAL     1.16 302 eP    34 00.27   0.3
                e     34 16.30
EGUA     1.56  95 eP    34 07.64   1.5
                e     34 26.90
ECOG     1.58  78 iPd   34 07.15   0.7
                e     34 27.80
     S.D. = 1.2  on   7 of   7 obs.
-----------------------------------
*  OCT  06, 1993  00h 05m 17.77± 0.91s
   15.442 N ±15.1km   94.683 W ± 8.7km
   DEPTH =  33.0km  (normal)
   4.3mb (  4 obs.)
 NEAR COAST OF OAXACA, MEXICO     ( 66)

SCX      2.35  57 iPd   06 00.46   5.6X
                iS    06 36.20
TPX      2.40 103 iP    05 55.61   0.0
OXX      2.55 310 iPc   05 56.83  -1.1
                iS    06 27.17
BVA      3.98 101 eP    06 18.52   0.2
IXG      4.28 107 eP    06 22.76   0.3
                eS    07 13.14
IISM     4.37 324 (P)   06 28.46   5.0X
YUP      4.88 104 eP    06 29.82  -1.1
IIT      4.97 316 iP    06 33.22   0.9
PPM      5.21 314 (P)   06 34.00  -2.0
IIA      5.29 315 iP    06 37.31   0.7
III      5.43 303 iP    06 37.74  -1.0
                (S)   07 38.09
UNM      5.78 313 (P)   07 09.00  25.2X
CRX      6.19 310 (P)   06 52.00   2.4X
MRX      7.52 305 (P)   07 07.47  -0.4
LTX     16.12 331 iPd   09 03.68   0.1
UYO     18.65   1 iPc   09 34.80  -0.2
MEO     19.58 350 iPc   09 44.70  -1.4
ACO     21.54 350 iPc   10 03.10  -3.2X
PRM     21.63  29 eP    10 07.51   0.3
MYNC    21.73  24 iPc   10 07.57  -0.6
         0.8s     6.63nm          4.1mb
TUC     22.28 322 iPc   10 16.01   2.2
         1.2s    16.03nm          4.3mb
FVM     22.77   9 eP    10 22.57   4.1X
         1.4s    14.08nm          4.3mb
PV08    26.12 335 (P)   10 52.43   1.5
DAU     28.76 333 eP    11 16.03   1.1
LRM     33.76 337 ePd   11 59.10   0.3
NB2     84.11  28 P     17 46.80   0.2
         1.0s     5.40nm          4.7mb
     S.D. = 1.1  on  20 of  26 obs.
-----------------------------------
   OCT  06, 1993  00h 22m 35.36± 0.63s
   37.032 N ± 6.6km   29.653 E ± 6.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 3.6 (ISK).

BCK      0.86  60 iPg   22 51.60  -0.4
                eSg   23 05.50
KHL      1.29 355 iPn   22 59.50   0.1
CIN      1.37 295 eP    23 01.00   0.5
ALT      2.05  10 ePn   23 10.70   0.3
IZM      2.34 306 iPn   23 14.10  -0.4
PPCY     3.06 134 eP    23 24.50  -0.1
EYL      3.55   6 ePn   23 32.00   0.3
CSS      3.63 124 eP    23 33.00   0.2
EZN      3.82 318 iPn   23 34.90  -0.6
     S.D. = 0.4  on   9 of   9 obs.
-----------------------------------
*  OCT  06, 1993  00h 34m 09.68± 0.76s
   19.544 N ± 9.6km  108.862 W ±12.2km
   DEPTH =  10.0km  (geophysicist)
   4.2mb (  5 obs.)
 REVILLA GIGEDO ISLANDS REGION    ( 53)

LTX     10.83  25 eP    36 47.99   0.1
TUC     12.83 353 eP    37 16.56   1.6
         1.1s    23.45nm          5.3mb X
GLA     14.47 340 eP    37 36.61   0.1
PEC     16.09 334 eP    38 00.53   3.0X
         1.5s    43.78nm          4.4mb
GSC     17.19 338 eP    38 12.69   1.0
WMOK    17.57  29 eP    38 14.73  -1.6
         0.9s     9.02nm          3.9mb
BCH     18.47 330 ePc   38 27.80   0.3
TPNV    18.51 341 (P)   38 30.78   2.7X
ARUT    18.61 349 eP    38 30.96   1.6
MSU     19.12 352 eP    38 37.31   1.7
UYO     19.39  38 iPc   38 38.00  -0.7
MEMM    20.08 336 eP    38 46.24   0.1
BONR    20.10 338 eP    38 45.31  -1.4
SAO     20.40 330 eP    38 47.22  -2.2
         1.8s    48.44nm          4.5mb
ARN     20.91 331 eP    38 54.09  -0.7
CMB     20.98 334 eP    38 54.27  -1.2
         1.2s    12.26nm          4.1mb
ORV     22.73 334 eP    39 13.62   0.7
INK     51.14 349 eP    43 14.00  -0.5
         1.0s     3.00nm          4.2mb
LPAZ    53.58 129 P     43 34.10  -0.1
                LR    02 22.00
LPB     53.76 129 Pd    43 36.00   0.8
                LR    03 00.00
CNCB    54.03 129 P     43 38.50   1.2
CCH     55.75 128 eP    43 49.00  -0.6
     S.D. = 1.2  on  20 of  22 obs.
-----------------------------------
%  OCT  06, 1993  01h 02m 41.44± 0.80s
   36.973 N ± 6.8km    5.488 W ± 6.8km
   DEPTH =  10.0km  (geophysicist)
 STRAIT OF GIBRALTAR              (385)
      mbLg 2.8 (MDD).

EPRU     0.21  92 iPd   02 44.92  -1.0
                e     02 48.30
EJIF     0.52 178 eP    02 51.68  -0.3
EHOR     0.87  13 iPc   02 57.38  -0.8
                e     03 08.40
ELUQ     1.14  59 eP    03 03.08   0.3
                e     03 17.50
EVAL     1.18 302 eP    03 03.66   0.3
                e     03 19.70
EGUA     1.55  95 eP    03 09.95   0.9
                e     03 29.70
ECOG     1.57  78 eP    03 10.13   0.7
                e     03 30.60
     S.D. = 0.9  on   7 of   7 obs.
-----------------------------------
   OCT  06, 1993  01h 10m 45.20± 0.81s
   14.118 N ±10.3km   91.788 W ± 4.1km
   DEPTH =  59.2 ±  5.1 km
   4.7mb ( 24 obs.)
```

06d 01h

```
 GUATEMALA                                  ( 70)
      MD 4.4 (GCG).

TPX      0.91 330 iPc    11 00.75   -1.3
                  iS     11 15.00
TER      1.09  80 eP     11 04.55    0.0
                  eS     11 22.72
PCG      1.18  76 eP     11 06.63    0.6
BVA      1.24  64 eP     11 08.46    1.6
                  eS     11 26.50
IXG      1.29  87 eP     11 06.89   -0.6
                  eS     11 26.00
GCG      1.30  69 eP     11 09.23    1.6
                  eS     11 32.68
YUP      1.93  87 eP     11 16.76    0.4
                  eS     11 42.66
SCX      2.73 343 iP     11 31.22    3.8X
                  iS     12 00.04
OXX      5.59 302 iP     12 07.29   -0.7
                  iS     13 07.00
LVVM     7.15 322 (P)    12 27.51   -2.0
IISM     7.22 313 iP     12 28.52   -2.0
                  (S)    13 38.30
IIT      7.93 309 (P)    12 41.50    0.9
PPM      8.20 308 (P)    12 45.46    1.0
ACX      8.25 290 iP     12 42.23   -2.5
IIA      8.27 308 iPd    12 46.11    1.1
III      8.50 301 iP     12 47.77   -0.7
UNM      8.78 307 (P)    13 04.00   11.7X
CRX      9.21 306 (P)    12 15.50  -42.7X
MRX     10.57 303 iP     13 16.51   -0.1
LTX     18.71 326 iPc    15 00.96   -0.7
UYO     20.11 354 iPd    15 16.20   -0.5
MIAR    20.40 356 eP     15 18.69   -1.1
        0.8s    37.45nm          4.8mb
OXF     20.42   6 ePd    15 19.00   -0.9
MEO     21.47 345 iPc    15 29.50   -1.2
WMOK    21.48 344 eP     15 29.58   -1.2
        0.6s    32.83nm          4.9mb
                  e      19 28.12
PRM     21.63  22 eP     15 32.36    0.1
MYNC    21.98  17 eP     15 37.52    1.8
        0.7s    47.60nm          5.0mb
JSC     22.22  24 eP     15 39.12    1.1
LST     22.39   4 eP     15 40.35    0.7
GBTN    22.51  16 eP     15 41.51    0.6
LHS     22.57  24 eP     15 42.30    0.8
ELC     23.18   5 ePd    15 47.27   -0.2
ACO     23.43 345 iPc    15 46.60   -3.3X
FVM     23.80   3 (P)    15 52.44   -1.0
        0.6s     7.32nm          4.3mb
CEH     24.49  25 eP     16 00.42    0.3
        0.9s    14.81nm          4.5mb
ALQ     24.60 330 iPc    16 02.76    1.3
        0.8s    40.77nm          5.0mb
TUC     25.08 319 eP     16 07.59    1.7
        0.8s    12.59nm          4.5mb
NAV     25.10  21 eP     16 05.72   -0.2
CBN     27.18  25 eP     16 41.00   15.9X
GLA     28.19 316 eP     16 35.10    0.8
PV08    28.56 332 eP     16 38.68    0.7
PV10    28.59 331 eP     16 38.32    0.2
PV09    28.73 331 eP     16 40.13    0.7
PLM     29.76 314 eP     16 48.86    0.3
SRU     29.88 330 (P)    16 50.77    1.2
MSU     30.26 327 eP     16 54.07    1.0
                  ePcP   19 52.86
ARUT    30.42 325 eP     16 55.96    1.6
EMUT    30.57 330 eP     16 56.58    0.9
DAU     31.25 331 eP     17 02.62    0.8
TPNV    31.51 321 (P)    17 05.03    1.0
        0.6s     4.13nm          4.4mb
RSSD    31.68 343 eP     17 04.57   -0.9
        0.6s     7.87nm          4.7mb
                  ePcP   19 55.37
DUG     31.84 329 eP     17 07.81    1.0
        1.1s     9.72nm          4.5mb
                  ePcP   19 56.25
BW06    32.41 335 eP     17 11.70   -0.1
        0.7s     2.41nm          4.1mb
                  ePcP   19 58.74
HVU     33.03 331 eP     17 17.97    0.8
BONR    33.41 320 ePc    17 22.34    1.6
RSNY    33.70  22 eP     17 21.67   -1.1
        0.8s    11.25nm          4.8mb
GAC     34.37  20 eP     17 27.50   -0.9
ARN     35.14 317 eP     17 36.38    1.1
LRM     36.09 335 ePd    17 44.50    1.1
                  e      20 09.30
LBFM    37.68 322 eP     17 57.61    0.9
FHC     38.65 320 eP     18 06.03    1.4
        0.6s    22.71nm          5.2mb
LMN     38.96  30 eP     18 06.50   -0.6
VGB     39.73 328 eP     18 15.27    1.6
DPW     40.16 332 eP     18 17.72    0.6
LON     41.10 328 ePc    18 25.47    0.7
JAQ     41.57  14 eP     18 27.00   -1.5
BMW     41.65 327 eP     18 30.29    0.9
                  ePcP   20 26.68
GMW     42.13 329 eP     18 33.45    0.3
MCW     42.91 330 eP     18 39.98    0.4
YKA     50.96 347 eP     19 41.20   -1.3
        0.6s     9.50nm          5.0mb
FRB     52.15  13 eP     19 49.00   -2.5
        0.9s     5.00nm          4.5mb
BALM    59.22 334 ePc    20 42.83    0.3
INK     60.38 343 ePd    20 50.40    0.2
        0.7s     5.00nm          4.8mb
KLU     60.96 334 ePc    20 54.41    0.0
                  ePcP   21 37.63
TOA     61.34 334 eP     20 57.20    0.2
PMR     62.40 333 eP     21 03.11   -0.8
        0.7s    11.48nm          5.1mb
SLKM    62.49 332 eP     21 03.93   -0.7
FBA     63.22 337 iPc    21 08.51   -0.8
        0.9s    12.26nm          5.0mb
                  ePcP   21 44.62
CP2     63.68 332 eP     21 11.99   -0.7
SVW     65.19 331 ePc    21 21.30   -0.9
        0.7s    21.30nm          5.2mb
IMA     65.94 337 eP     21 25.79   -1.3
        0.8s     2.97nm          4.3mb
EKA     77.75  36 Pd     22 35.50   -1.8
        0.7s     8.50nm          4.8mb
NB2     83.94  28 P      23 08.00   -2.0
        1.0s     3.50nm          4.3mb
HFS     85.40  29 eP     23 15.80   -1.4
        0.6s     1.90nm          4.4mb
      Z  16s     0.10um          4.3MszX
                  LR     56 16.00
GEC2    89.38  40 PKP    23 35.10   -1.8
        0.9s     1.02nm          4.1mb
WRA    135.62 256 PKP    30 01.00   -0.4
        0.7s     0.60nm
POO    144.60  24 ePKP   30 18.50    0.9
CHG    145.61 342 iPKPc  30 19.00   -0.3
        1.0s    20.50nm
BDT    147.07 341 ePKP   30 24.00    2.4X
        0.7s    30.10nm
NST    148.14 338 ePKP   30 26.00    2.6X
GBA    150.46  22 PKPd   30 32.80    5.8X
        0.8s    11.00nm
NNT    151.11 336 ePKP   30 24.00   -4.0X
     S.D. = 1.1  on  83 of  92 obs.
-----------------------------------
%  OCT  06, 1993  01h 41m 17.87± 0.83s
   37.033 N ± 7.5km    5.459 W ± 7.1km
   DEPTH =  10.0km  (geophysicist)
 SPAIN                              (377)
      mbLg 2.6 (MDD).

EPRU     0.19 110 iPd    41 20.91   -1.3
                  e      41 23.30
EJIF     0.58 181 eP     41 29.50   -0.1
EHOR     0.81  12 iPd    41 32.56   -0.9
                  e      41 43.70
ELUQ     1.09  61 eP     41 38.80    0.5
                  e      41 53.20
EVAL     1.17 299 eP     41 39.94    0.3
                  e      41 55.60
EGUA     1.53  97 eP     41 46.41    1.1
                  e      42 06.70
ECOG     1.53  80 eP     41 45.87    0.5
                  e      42 06.40
     S.D. = 1.0  on   7 of   7 obs.
-----------------------------------
?  OCT  06, 1993  02h 16m 39.77± 8.86s
    6.817 S ±72.5km  129.237 E ±63.1km
   DEPTH = 200.6 ± 24.8 km
   4.4mb (  1 obs.)
 BANDA SEA                          (280)

SLKI     2.35 120 iPd    17 22.30   -0.1
                  iS     17 53.80
MTN      6.28 163 iPd    18 12.10    0.8
                  iS     19 22.00
KNA      8.89 183 eP     18 45.20   -0.3
                  eS     20 22.60
WR2     13.97 160 eP     19 49.70   -0.8
                  i      19 53.90
                  eS     22 21.30
ASPA    17.34 166 iPd    20 31.70    0.5
        0.4s     7.00nm          4.4mb
                  eS     23 38.40
     S.D. = 1.3  on   5 of   5 obs.
-----------------------------------
%  OCT  06, 1993  02h 57m 40.56± 0.84s
   36.981 N ± 7.4km    5.411 W ± 7.5km
   DEPTH =  10.0km  (geophysicist)
 STRAIT OF GIBRALTAR                (385)
      mbLg 2.7 (MDD).

EPRU     0.14  96 iPd    57 43.74   -0.2
                  e      57 45.90
EJIF     0.53 185 eP     57 51.22   -0.1
                  e      58 01.50
EHOR     0.85   9 eP     57 56.22   -0.7
                  e      58 07.10
ELUQ     1.08  57 eP     58 01.01    0.1
                  e      58 15.70
EVAL     1.22 300 eP     58 03.65    0.3
                  e      58 18.90
EGUA     1.49  95 eP     58 06.12   -1.2
                  e      58 28.50
ECOG     1.50  78 eP     58 09.52    1.8
                  e      58 29.80
     S.D. = 1.2  on   7 of   7 obs.
-----------------------------------
*  OCT  06, 1993  03h 23m 03.88± 0.85s
   33.107 N ±18.4km  142.624 E ±11.8km
   DEPTH =  33.0km  (normal)
   4.4mb (  3 obs.)
 OFF EAST COAST OF HONSHU, JAPAN (229)

MAT      4.99 315 eP     24 19.00    0.5
                  iS     25 17.10
GUN     48.67 280 P      31 47.00   -0.3
PKI     49.18 280 P      31 52.80    1.6
KKN     49.20 280 P      31 50.80   -0.5
CP2     49.72  35 eP     31 55.29    0.5
WRA     53.34 190 P      32 17.40   -4.8X
        0.6s     1.40nm          4.1mb
INK     57.45  26 eP     32 51.50    0.1
GBA     62.00 268 P      33 23.00   -0.4
HFS     78.07 337 eP     34 59.90   -0.7
        0.6s     2.90nm          4.5mb
NB2     78.19 338 P      35 00.80   -0.5
        0.9s     4.50nm          4.5mb
CLL     85.00 331 eP     35 36.00   -1.0
                  e      35 47.00
LPAZ   147.59  66 PKP    42 46.50    1.6
                  LR     08 34.00
LPB    147.76  67 ePKP   42 44.00   -0.9
CNCB   148.01  67 PKP    42 48.70    3.2X
     S.D. = 1.0  on  12 of  14 obs.
-----------------------------------
*  OCT  06, 1993  03h 24m 17.58± 0.81s
   21.739 S ± 7.2km   68.865 W ±12.0km
   DEPTH =  33.0km  (normal)
 CHILE-BOLIVIA BORDER REGION        (124)

ANT      2.42 216 eP     24 55.80    0.1
                  iS     25 26.60
HJA      3.52 115 ePd    25 11.20   -0.1
CNCB     4.97  10 P      25 33.00    0.6
CCH      5.04  31 P      25 33.50    0.3
LPB      5.23   8 eP     25 35.00   -1.0
LPAZ     5.47   7 P      25 39.60    0.1
     S.D. = 0.7  on   6 of   6 obs.
-----------------------------------
?  OCT  06, 1993  04h 08m 44.80± 2.81s
   14.009 N ±37.3km   91.693 W ±12.3km
   DEPTH =  33.0km  (normal)
 GUATEMALA                          ( 70)
      MD 3.9 (GCG).

TPX      1.05 328 iP     09 03.30    0.1
                  iS     09 16.50
PCG      1.12  70 eP     09 04.50    0.0
                  eS     09 24.42
                  e      09 24.63
```

```
IXG     1.21  82 eP    09 05.22  -0.5
                eS    09 18.40
BVA     1.21  57 ePc   09 06.26   0.5
                eS    09 24.64
GCG     1.26  63 ePc   09 07.01   0.6
                eS    09 24.67
YUP     1.85  84 eP    09 14.62  -0.2
                eS    09 37.68
SCX     2.86 342 iP    09 33.50   4.4X
                iS    10 07.50
OXX     5.73 303 (P)   10 16.00   6.0X
PPM     8.34 308 iP    10 48.50   1.6
LTX    18.85 326 iPc   13 02.62  -2.2
     S.D. = 1.3  on   8 of  10 obs.
-------------------------------------
   OCT  06, 1993  04h 10m 30.19± 0.81s
   51.594 N ± 5.1km   16.295 E ± 8.1km
   DEPTH =  10.0km  (geophysicist)
 POLAND                              (548)
      ML 3.5 (VIE), 3.5 (GRF).

KSP     0.75 180 iPd   10 44.70  -0.2
       0.7s   124.00nm
                iS    10 53.70
BRG     1.64 245 iPn   10 59.30   0.1
                iPg   11 00.80
                iSg   11 20.90
PRU     1.95 215 Pn    11 03.50  -0.2
       0.6s    88.20nm
                iPg   11 05.20
                Sn    11 22.30
                Sg    11 29.10
CLL     2.08 263 iPn   11 05.60   0.1
                iPg   11 09.60
                iSg   11 35.10
KHC     3.02 216 Pn    11 19.00   0.1
                ePg   11 25.00
                eSn   11 53.00
                eSg   12 04.50
HOF     3.07 247 ePn   11 19.70   0.0
GEC2    3.22 212 Pn    11 21.70  -0.1
                Pg    11 28.40
                Sn    11 59.80
                Sg    12 07.90
WET     3.28 223 iPnc  11 22.40  -0.3
VKA     3.33 180 ePn   11 24.00   0.6
                iPg   11 32.60
                iSn   12 01.00
                iSg   12 16.00
ZST     3.44 171 e(Pn) 11 34.40   9.5X
                e(Sn) 12 17.60
                e     43 58.00
SPC     3.49 132 e(Pn) 11 34.40   8.6X
                e     12 20.20
                i     12 32.80
                e     43 35.10
GRF     3.75 241 ePn   11 29.50   0.2
                ePg   11 42.20
                eSn   12 15.70
                eSg   12 27.50
SOP     3.92 177 e(P)  12 32.00  60.3X
KBA     4.91 204 iPnc  11 45.60  -0.4
                i     11 54.40
                iSg   12 56.90
WTTA    5.29 217 iPnd  11 51.60   0.3
                iSg   13 12.60
HFS     8.68 351 eP    12 38.60  -0.1
       0.1s     0.20nm          4.3mb X
     S.D. = 0.3  on  13 of  16 obs.
-------------------------------------
? OCT  06, 1993  04h 30m 23.40± 3.60s
   37.172 S ±11.5km  179.928 E ±32.1km
   DEPTH =  33.0km  (normal)
   4.0mb (  1 obs.)
 OFF E. COAST OF N. ISLAND, N.Z. (160)
      ML 4.0 (WEL).

HBZ     1.36 251 P     30 46.30   0.0
PUZ     1.60 235 P     30 51.00   1.2
                eS    31 07.50
NOZ     2.08 225 P     30 57.90   1.3
URZ     2.48 243 P     31 03.10   0.7
                eS    31 28.80
PAHZ    2.83 233 eP    31 07.60   0.4
KUZ     3.40 276 P     31 14.20  -1.2
TTH     3.40 225 eP    31 15.50   0.2
TEHZ    3.72 220 P     31 18.90  -1.1
WAHZ    3.77 227 eP    31 19.10  -1.6
NGZ     3.95 238 eP    31 22.90  -0.5
CNZ     4.00 238 eP    31 23.90  -0.1
OUZ     5.48 289 P     31 45.20   0.4
WR2    43.10 281 eP    38 22.50   0.2
       0.6s     2.00nm          4.0mb
     S.D. = 1.0  on  13 of  13 obs.
-------------------------------------
* OCT  06, 1993  04h 34m 23.01± 0.55s
    8.037 N ±10.7km   58.914 E ±10.2km
   DEPTH =  10.0km  (geophysicist)
   4.9mb (  7 obs.)  4.4Msz (  3 obs.)
 CARLSBERG RIDGE                     (421)

KOD    18.45  82 eP    38 40.00  -0.9
GBA    19.01  71 P     38 56.00   8.5X
SHI    22.32 345 eP    39 22.00  -0.6
MAIO   28.14   1 eP    40 18.00   0.6
                eSn   45 16.00
BCAO   40.29 267 iPc   42 01.30  -1.1
       0.9s    18.00nm          4.8mb
                i     42 07.60
BUL    40.90 226 iPd   42 07.70   0.2
       1.1s     8.23nm          4.4mb
SLR    44.88 221 iPd   42 39.10  -0.7
       1.2s    23.44nm          5.0mb
     Z  22s     3.70um          5.3Msz
SKO    47.26 322 eP    43 10.50  12.1X
OBN    50.19 343 eP    43 31.00  10.2X
     Z  20s     0.30um          4.3Msz
                e     43 38.00
                e     44 07.00
                LR    00 00.00
KSP    55.29 329 eP    43 43.00 -15.9X
BRG    56.54 328 e(P)  44 21.00  13.1X
CLL    57.27 328 e(P)  44 14.00   0.9
                e     44 51.00
BJI    59.99  48 eP    44 32.00  -0.2
     Z  24s     0.70um          4.7MszX
KIC    63.12 273 P     44 58.76   5.0X
       1.1s    21.50nm          5.2mb
LIC    63.42 273 P     45 00.34   4.6X
       1.1s    19.50nm          5.2mb
     Z  20s     0.13um          4.1Msz
LKO    63.68 277 P     45 02.36   4.9X
       1.0s    15.00nm          5.1mb
WRA    79.20 112 P     46 31.10   0.7
       0.9s     1.90nm          4.1mb
NVL    84.70 194 (P)   46 59.00   1.1
     S.D. = 0.9  on  10 of  18 obs.
-------------------------------------
& OCT  06, 1993  04h 51m 50.39s
   36.792 N          121.311 W
   DEPTH =   9.3km
 CENTRAL CALIFORNIA                  ( 39)
      <GM-P>. MD 2.8 (GM).

HMR     1.41 344 eP    52 19.35   3.1
CMB     1.44  30 ePd   52 15.53  -1.2
                S     52 33.70
MMPM    2.00  65 eP    52 24.86  -0.1
                eS    52 51.69
MEMM    2.08  65 eP    52 27.05   1.2
                S     52 54.47
MTUM    2.27  75 eP    52 28.85   0.1
                S     52 58.49
MRCM    2.40  68 eP    52 33.08   2.4
                S     53 03.04
BONR    2.66  63 eP    52 37.88   3.4
                S     53 14.85
ORV     2.76 357 eP    52 34.90  -0.7
       8 obs. associated
-------------------------------------
   OCT  06, 1993  05h 20m 39.96± 1.32s
    6.085 S ± 8.3km  129.154 E ± 8.7km
   DEPTH =  37.2 ± 15.9 km
   4.7mb (  6 obs.)
 BANDA SEA                           (280)

SLKI    2.84 132 iPd   21 25.30   1.3
SWI     5.60  22 ePc   22 02.00  -1.0
                eS    23 04.00
MTN     7.00 164 eP    22 20.00  -2.7
KNA     9.61 182 eP    22 54.20  -4.8X
                eS    24 38.50
MKS     9.68 275 iPc   23 01.60   1.7
WR2    14.68 160 eP    23 58.80  -8.2X
                epP   24 12.20
                eS    26 35.40
QIS    17.60 146 eP    24 45.00   0.8
                ipP   24 55.00
                eS    27 46.00
ASPA   18.07 166 iPc   24 44.90  -5.1X
       0.4s    33.10nm          4.8mb
                eS    27 59.70
PMG    18.14 102 eP    24 51.00   0.1
LEM    21.41 267 ePd   25 27.50   0.4
CTA    21.67 132 iPd   25 31.00   1.4
       1.0s    30.00nm          4.7mb
MEEK   22.78 205 eP    25 39.90  -0.6
COOL   25.79 196 eP    26 08.20  -1.2
MRWA   26.15 207 eP    26 12.20  -0.5
       0.3s     8.00nm          4.8mb
BAL    27.05 204 eP    26 22.20   1.2
KLB    27.53 201 eP    26 24.60  -0.7
STK    28.18 157 iPd   26 30.70  -0.4
       0.5s     5.50nm          4.5mb
ADE    30.06 164 eP    26 47.30  -0.8
BRS    30.87 136 iPc   27 04.50   9.2X
       0.9s     7.00nm          4.4mb
BWA    33.36 150 eP    27 24.40   7.5X
CAN    34.36 151 eP    27 27.30   1.7
                i     27 36.90
BJI    47.43 346 eP    29 12.00  -0.8
       1.5s    14.00nm          4.7mb
GBA    54.94 291 P     30 10.00   0.0
CNCB  151.63 144 ePKP  40 34.00   6.9X
LPB   151.78 143 ePKP  40 35.00   7.8X
LPAZ  151.95 143 PKP   40 40.00  12.3X
                LR    33 13.00
PPD   152.05 179 ePKP  40 34.40   7.5X
CCH   152.22 147 ePKP  40 42.00  14.3X
     S.D. = 1.3  on  18 of  28 obs.
-------------------------------------
% OCT  06, 1993  05h 42m 26.91± 1.02s
   40.451 N ± 7.5km   23.195 E ± 9.3km
   DEPTH =  10.0km  (geophysicist)
 GREECE                              (364)
      ML 1.6 (THE).

SOH     0.39  18 ePg   42 35.08   0.2
                eSg   42 41.40
OUR     0.61 101 ePg   42 39.64   0.4
                eSg   42 49.72
PAIG    0.64 144 ePg   42 39.48  -0.3
                eSg   42 50.04
SRS     0.73  24 ePg   42 40.80  -0.5
                iSg   42 51.08
GRG     0.79 310 ePg   42 42.40   0.2
                eSg   42 54.56
     S.D. = 0.5  on   5 of   5 obs.
-------------------------------------
   OCT  06, 1993  06h 00m 15.92± 0.56s
   49.260 N ± 5.7km    6.958 E ± 5.2km
   DEPTH =  10.0km  (geophysicist)
 GERMANY                             (543)
      ML 2.9 (BNS), 2.6 (UCC).

RUP     0.45   9 ePg   00 25.00  -0.1
WLF     0.66 308 iPd   00 29.04  -0.1
                iS    00 38.76
                i     00 39.81
BGG     0.98  14 iPd   00 35.43   0.9
       1.1s   179.00nm
                id    00 36.41
                iS    00 50.35
STB     1.34 357 iPc   00 40.36  -0.2
       1.0s   120.00nm
                ic    00 43.87
                eS    00 59.11
TNS     1.37  44 ePnd  00 40.30  -0.7
                ePb   00 42.60
                iSn   01 01.60
MEM     1.48 336 iPd   00 42.51  -0.1
                id    00 44.87
                iS    01 06.55
ENN     1.65 337 iPnd  00 45.10   0.1
       0.7s     6.80nm
                iPgc  00 47.70
                eSn   01 11.00
                eSg   01 13.50
BNS     1.71   5 iPd   00 49.18   3.3X
       0.6s   106.00nm
                iS    01 11.64
```

06d 06h

```
DOU     1.75 300 iP     00 46.00  -0.5
                 i      00 48.30
                 iS     01 11.20
SNF     2.14 307 iP     00 52.40   0.3
                 ic     00 55.69
GRF     2.81  80 e(Pg)  01 10.30   8.5X
                 eSg    01 45.00
OGA     3.63 130 iPc    01 13.90   0.4
WTTA    3.71 121 iPnc   01 14.60   0.0
                 e      01 55.00
                 e      02 16.00
KHC     4.34  89 ePn    01 24.50   1.0
                 e      01 38.50
                 e      02 13.00
                 eSg    02 29.00
CLL     4.39  60 ePg    01 40.00  16.0X
                 eSg    02 40.00
GEC2    4.45  93 Pn     01 23.70  -1.4
                 Pg     01 44.30
                 Sn     02 14.20
                 Sg     02 40.30
BRG     4.78  68 iPg    01 49.00  19.3X
                 eSg    02 53.70
KBA     4.80 115 iPnd   01 30.30   0.2
                 i      01 49.20
                 e      02 24.00
                 e      02 53.00
PRU     4.98  79 ePg    01 53.00  20.5X
                 Sg     02 55.00
KSP     6.22  72 e(P)   02 16.70  26.8X
                 eS     03 29.00
     S.D. = 0.7  on  14 of  20 obs.
-------------------------------------
*  OCT  06, 1993  07h 06m 19.07± 0.63s
   15.914 N ±22.0km   93.858 W ±12.4km
   DEPTH =  33.0km  (normal)
 NEAR COAST OF CHIAPAS, MEXICO    ( 69)

SCX     1.43  55 iP     06 58.80  15.9X
                 iS     07 15.00
TPX     1.84 123 iP     06 47.30  -1.6
                 iS     07 09.30
OXX     2.98 293 iP     07 05.80   0.4
                 iS     07 35.00
BVA     3.35 111 eP     07 12.40   1.8
                 eS     07 58.34
IXG     3.71 117 ePc    07 15.08  -0.6
                 eS     08 00.75
YUP     4.27 113 ePc    07 24.11   0.5
                 eS     08 22.42
LVVM    4.53 327 iP     07 25.80  -1.4
                 (S)    08 20.00
IISM    4.54 313 (P)    07 30.00   2.7X
IIT     5.25 307 iP     07 41.50   3.9X
PPM     5.53 305 iP     07 42.50   0.8
                 (S)    08 32.50
ACX     5.84 280 (P)    07 45.00  -0.7
III     5.90 295 iP     07 46.50  -0.2
                 (S)    08 48.00
UNM     6.11 305 eP     07 44.00  -5.8X
MRX     7.94 299 iP     08 16.00   0.9
     S.D. = 1.2  on  10 of  14 obs.
-------------------------------------
*  OCT  06, 1993  09h 00m 09.62± 2.74s
   36.661 N ±26.5km   29.076 E ±11.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
     ML 3.3 (ISK).

ELL     0.67  82 iPg    00 23.00  -0.1
                 eSg    00 33.00
CIN     1.23 320 eP     00 32.00  -0.4
KHL     1.70  12 ePn    00 39.00  -0.5
IZM     2.25 321 ePn    00 48.00   0.4
ALT     2.53  19 ePn    00 52.00   0.6
     S.D. = 0.7  on   5 of   5 obs.
-------------------------------------
%  OCT  06, 1993  09h 16m 51.85± 0.82s
   40.356 N ± 7.0km   23.334 E ± 6.9km
   DEPTH =  10.0km  (geophysicist)
 GREECE                            (364)

THE     0.39 315 eP     16 58.62  -1.3
                 eS     17 05.26
SOH     0.47   2 eP     17 00.10  -1.2
                 eS     17 08.34
OUR     0.50  92 eP     17 01.94   0.0
                 eS     17 10.50
PAIG    0.50 148 iP     17 01.73  -0.3
                 eS     17 10.18
LIT     0.69 249 eP     17 05.73   0.1
                 eS     17 16.14
SRS     0.79  14 eP     17 08.46   1.3
                 eS     17 18.94
GRG     0.93 311 eP     17 10.98   1.4
                 eS     17 23.50
     S.D. = 1.3  on   7 of   7 obs.
-------------------------------------
   OCT  06, 1993  09h 18m 44.63± 1.04s
    4.083 S ± 4.1km  129.668 E ± 5.6km
   DEPTH =  28.2 ±  7.9 km
   5.1mb ( 20 obs.)
 BANDA SEA                         (280)
      Mw 4.9 (HRV).
      CENTROID, MOMENT TENSOR    (HRV)
      Data Used: GDSN
      L.P.B.: 10S, 13C
      Centroid Location:
      Origin Time        09:18:46.2 1.4
      Lat  4.20S 0.13 Lon 129.38E 0.24
      Dep  15.0 FIX Half-duration  1.0
      Moment Tensor;   Scale 10**16 Nm
        Mrr= 2.00 1.00  Mtt=-3.04 0.65
        Mff= 1.04 1.61  Mrt= 0.15 1.78
        Mrf=-0.39 1.33  Mtf= 1.04 0.49
       Principal Axes:
        T  Val=  2.15  Plg=68  Azm= 97
        N        1.14      22      283
        P       -3.29       2      193
      Best Double Couple:Mo=2.7*10**16
       NP1:Strike=261 Dip=47 Slip=  59
       NP2:        123      51      119

AAI     1.52 285 ePd    19 08.50  -1.7
                 eS     19 25.50
SWI     3.57  26 ePd    19 40.00   0.5
                 iS     20 25.00
SLKI    4.20 157 ePd    19 48.00  -0.4
MNI     7.31 319 ePd    20 30.50  -1.8
MTN     8.83 171 eP     20 54.00   0.6
MKS    10.23 263 ePd    21 13.70   1.0
WSI    10.84 239 e(P)   21 33.00  11.9X
KNA    11.63 184 eP     21 30.00  -1.8
KHKI   14.61 252 eP     22 13.50   2.1
                 e      24 50.20
WR2    16.42 164 eP     22 28.50  -6.3X
                 eS     25 22.00
KKM    16.78 307 ePd    22 42.00   2.5
TRT    17.32 257 ePd    22 47.50   1.4
PMG    18.15 108 eP     22 57.00   0.5
SJI    18.17 258 ePc    22 57.80   1.1
        1.1s     3.10nm          3.4mb X
PGP    19.50 334 ePd    23 13.70   1.0
ASPA   19.89 169 iPc    23 15.10  -1.9
        0.5s    59.40nm          5.2mb
     Z  22s     0.80um          4.6MszX
                 eS     26 59.70
LEM    22.12 262 ePc    23 45.00   5.2X
WARB   22.17 187 eP     23 28.60 -11.5X
        1.0s   155.00nm
CTA    22.68 136 iPc    23 45.50   0.3
        1.5s   152.78nm          5.3mb
                 e      24 15.00
CVP    22.99 341 eP     23 50.00   1.7
KGM    27.02 282 ePc    24 26.40  -0.1
STK    29.83 159 eP     24 50.30  -1.5
        3.9s     4.60nm          3.6mb X
IPM    29.88 286 ePd    24 51.20  -1.2
        0.8s    93.80nm          5.6mb
ADE    31.85 166 iPd    25 09.20  -0.4
ARMA   33.41 144 eP     25 23.40   0.2
BWA    34.85 152 iPc    25 36.00   0.4
                 e      25 56.20
NST    35.21 305 eP     25 34.00  -4.8X
CAN    35.86 152 iPc    25 43.70  -0.4
                 i      26 05.30
CNB    36.03 152 eP     25 46.60   1.0
TOO    36.34 159 eP     25 49.00   0.8
BDT    36.96 306 eP     25 53.00  -0.5
        0.7s    38.70nm          5.4mb
WHN    37.42 338 eP     25 57.50   0.3
                 pP     26 07.00  32kmX
KMI    39.08 319 Pc     26 12.00   0.5
        1.5s    90.00nm          5.3mb
                 pP     26 22.00  34kmX
IIDJ   40.11  10 eP     26 19.70   0.0
CHJJ   40.87  12 P      26 24.90  -0.9
MTMJ   41.16  10 P      26 28.20  -0.2
MAT    41.19  10 iPc    26 27.70  -0.8
        0.8s    15.67nm          4.8mb
NIIJ   42.02  11 P      26 35.00  -0.2
XAN    42.68 334 P      26 40.00  -0.8
        1.2s    13.00nm          4.5mb
                 pP     26 47.00  23kmX
                 sP     26 50.70
CD2    42.69 326 eP     26 39.40  -1.5
YAMJ   43.13  12 P      26 45.70   1.4
TIY    44.56 340 eP     26 56.00  -0.1
BJI    45.63 345 eP     27 04.50   0.1
        1.5s    17.00nm          4.7mb
SNY    46.03 354 iPd    27 07.80   0.3
        1.0s    25.00nm          5.1mb
                 pP     27 15.50  26kmX
LZH    46.70 331 eP     27 13.40   0.3
        1.5s    72.00nm          5.4mb
                 pP     27 23.00  32kmX
                 sP     27 28.00
HHC    47.69 341 eP     27 21.00   0.2
        1.2s    12.00nm          4.8mb
CN2    47.82 356 Pd     27 21.60   0.0
        1.0s    14.00nm          4.9mb
                 epP    27 27.50  20kmX
MDJ    48.48 360 eP     27 26.50  -0.2
LSA    49.90 315 iPd    27 37.40  -1.1
        1.0s    27.00nm          5.2mb
GTA    51.28 330 Pc     27 47.50  -0.9
        1.0s    24.00nm          5.1mb
                 pP     27 57.50  33kmX
                 sP     28 03.00
KOD    53.90 286 eP     27 51.00 -17.5X
GBA    54.73 290 Pd     28 11.60  -2.6
        0.8s     9.00nm          4.9mb
POO    59.38 294 eP     28 44.00  -3.3X
IRK    60.13 342 eP     28 52.00   0.2
        1.5s    22.00nm          5.1mb
                 e      29 01.80
                 e      29 18.00
WMQ    60.79 326 P      28 56.00  -0.6
        1.0s    42.00nm          5.5mb
CSY    63.53 189 iPd    29 13.50  -0.9
        0.7s    10.10nm          5.1mb
YAK    65.91   0 iPc    29 29.00  -0.8
        1.0s    75.00nm          5.8mb
                 i      29 37.00
MAIO   76.61 309 iPc    30 34.00  -0.8
NVL    95.03 197 (P)    32 05.00  -0.7
INK    96.29  22 eP     32 11.00  -0.5
        1.0s     3.00nm          4.7mb
UYO   129.29  48 iPKPc  37 53.40   0.8
FSA   146.38 154 ePKPd  38 25.90   1.9
SLA   147.79 153 ePKPd  38 29.60   3.1X
HJA   149.14 152 ePKPd  38 34.30   5.9X
NNA   149.18 122 ePKP   38 34.30   5.5X
CNCB  152.88 140 ePKP   38 36.00   1.1
                 i      38 43.00
LPB   153.02 140 PKP    38 36.00   1.1
        1.1s    20.25nm
LPAZ  153.18 139 PKPd   38 36.30   0.9
                 i      38 43.60
CCH   153.57 144 PKP    38 44.50   9.0X
     S.D. = 1.1  on  58 of  69 obs.
-------------------------------------
%  OCT  06, 1993  09h 23m 50.41± 0.92s
   31.710 S ±10.3km   68.016 W ± 6.5km
   DEPTH =  10.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA     (137)

CFA     0.22 298 iPd    23 56.00   0.9
                 S      23 59.90
RTCV    0.47 251 iPc    23 59.60  -0.3
RTLL    0.54 314 iPc    24 00.20  -1.2
                 S      24 06.00
RTPR    1.91  43 ePd    24 23.00  -0.2
                 S      24 47.20
RTRS    1.97 321 ePc    24 25.00   0.8
MRA     2.08 110 e(P)   24 25.80   0.1
                 (S)    24 52.10
     S.D. = 1.0  on   6 of   6 obs.
-------------------------------------
*  OCT  06, 1993  09h 31m 07.10± 1.38s
    5.189 S ±10.5km  153.193 E ±11.2km
```

```
   DEPTH =  41.1 ± 15.6 km
   4.1mb (  2 obs.)
 NEW IRELAND REGION, P.N.G.          (190)

RAB     1.43 314 iPd   31 31.00   0.1
       0.5s   901.41nm
                iS    31 51.00
KVG     3.51 317 eP    32 00.60   0.0
PMG     7.31 235 eP    32 54.00  -0.1
BKM    19.25 131 iP    35 31.00  -0.2
DZM    21.12 144 iPd   35 50.80  -0.1
WR2    23.47 230 eP    36 13.00  -1.0
       1.6s     4.40nm          3.7mb
                e     36 20.50
ASPA   26.14 223 eP    36 40.60   1.2
       0.5s     6.50nm          4.5mb
TRT    40.37 264 ePd   38 32.50 -10.5X
GEC2  124.59 329 PKP   50 03.00  -0.9
       0.6s     1.09nm
CNCB  133.80 119 ePKP  50 24.00   0.9
LPAZ  133.89 118 PKP   50 27.20   3.9X
     S.D. = 0.9  on   9 of  11 obs.
-----------------------------------
*  OCT  06, 1993  09h 49m 34.66± 1.35s
   40.476 N ±13.9km   21.946 E ±10.8km
   DEPTH =  33.0km  (normal)
 GREECE                              (364)
     ML 1.9 (THE).

FNA     0.53 306 iPg   49 45.40  -0.4
                eSg   49 57.12
LIT     0.56 132 ePg   49 46.84   0.7
                eSg   49 57.48
GRG     0.59  36 ePg   49 48.20   1.6
                eSg   49 56.96
THE     0.79  78 ePg   49 49.24  -0.1
                eSg   50 00.76
KNT     1.00  46 ePg   49 52.32   0.0
                eSg   50 06.60
SOH     1.13  72 ePg   49 52.44  -1.8
                eSg   50 09.76
     S.D. = 1.4  on   6 of   6 obs.
-----------------------------------
   OCT  06, 1993  10h 32m 35.68± 0.93s
   38.319 N ± 7.6km   22.354 E ±10.0km
   DEPTH =  10.0km  (geophysicist)
 GREECE                              (364)
     ML 3.1 (ATH), 2.7 (THE).

AGG     0.70 359 ePg   32 48.04  -1.5
ATH     1.13 107 ePb   32 58.50   1.7
                eSb   33 16.00
VLI     1.66 164 ePb   33 03.50  -1.5
LIT     1.78   3 ePg   33 06.00  -0.7
                eSg   33 20.12
PAIG    1.91  32 iPb   33 08.08  -0.4
OUR     2.38  32 ePb   33 14.68  -0.6
                eSb   33 37.28
KEK     2.43 306 ePn   33 17.00   1.0
SOH     2.62  17 ePb   33 19.48   0.7
                iSb   33 45.16
GRG     2.63   1 ePb   33 19.40   0.4
                eSb   33 43.84
KNT     2.87   8 ePn   33 22.32   0.0
                iSn   33 50.16
OHR     3.04 337 ePn   33 25.70   1.0
     S.D. = 1.2  on  11 of  11 obs.
-----------------------------------
   OCT  06, 1993  10h 49m 14.39± 0.53s
   38.958 N ± 5.1km   28.039 E ± 5.8km
   DEPTH =   5.0km  (geophysicist)
 TURKEY                              (366)
     ML 3.1 (ISK).

IZM     0.83 228 ePg   49 30.20  -0.7
                eSg   49 42.00
KHL     1.32 118 ePn   49 40.00   0.6
CIN     1.36 178 ePg   49 40.00   0.1
                iSg   49 56.00
EDC     1.39 354 iPn   49 40.00  -0.5
BNT     1.40 356 iPn   49 41.00   0.4
EZN     1.59 304 ePn   49 44.00   0.8
ALT     1.62  86 ePn   49 43.50  -0.2
MFT     1.92 343 ePn   49 48.00  -0.1
EYL     2.29  45 ePn   49 53.00  -0.5
     S.D. = 0.6  on   9 of   9 obs.
-----------------------------------
?  OCT  06, 1993  10h 55m 49.65± 1.60s
   3.646 S ±13.8km  136.284 E ±17.3km
   DEPTH =  24.6km  (  3 depth phases)
   5.0mb (  8 obs.)
 IRIAN JAYA, INDONESIA               (201)
     Felt in the Nabire area.

SWI     5.73 299 ePc   57 15.50   0.1
                iS    58 13.00
SLKI    6.57 229 iPd   57 41.30  14.1X
MTN    10.47 209 eP    58 21.00  -0.3
                eS    00 10.00
KNA    14.12 211 iPd   59 10.10  -0.2
WR2    16.31 186 iPc   59 39.60   0.8
       0.6s     9.90nm          4.1mb
                i     59 48.90
                eS    02 30.20
QIS    17.12 169 eP    59 57.40   8.4X
                eS    02 57.40
CTA    19.02 150 iPd   00 25.50  13.0X
                e     00 34.00
                e     02 07.00
                eS    03 16.00
                e(S)  03 41.00
ASPA   20.04 186 iPc   00 30.10   6.2X
       0.6s    69.70nm          5.2mb
                i     00 37.50
                eS    04 01.70
WARB   24.24 202 eP    01 00.10  -5.8X
BRS    28.39 148 iP    01 44.00  -0.3
                e     01 55.00
                e     11 10.00
MRWA   31.90 215 iPd   02 19.40   3.9X
       0.8s    24.00nm          5.2mb
XAN    45.51 328 P     04 15.70   6.6X
       0.8s     8.00nm          4.7mb
                pP    04 23.00  24km
                sP    04 27.00
TIY    46.73 334 eP    04 26.40   7.7X
BJI    47.23 339 eP    04 30.00   7.4X
       1.3s    14.00nm          4.8mb
MDJ    48.42 354 eP    04 47.00  15.2X
HHC    49.72 335 eP    04 50.30   8.3X
       1.2s    24.00nm          5.1mb
LZH    49.82 325 eP    04 50.00   7.1X
       1.2s    30.00nm          5.2mb
                pP    04 57.50  25km
GTA    54.42 326 iPd   05 24.50   7.2X
       1.0s    12.00nm          4.9mb
                pP    05 32.00  25km
GUN    57.76 306 P     05 47.00   5.2X
KKN    58.19 306 P     05 49.60   5.0X
DMN    58.26 306 P     05 50.20   5.0X
MAIO   81.55 307 eP    08 14.00   6.9X
CNCB  148.57 131 iPKP  15 51.10  17.1X
LPB   148.65 130 PKP   15 45.90  11.9X
LPAZ  148.78 130 PKP   15 51.00  16.6X
CCH   149.57 134 PKP   15 54.00  18.8X
     S.D. = 0.7  on   5 of  26 obs.
-----------------------------------
*  OCT  06, 1993  11h 32m 28.26± 1.17s
   38.271 N ± 8.6km   22.214 E ±13.1km
   DEPTH =  10.0km  (geophysicist)
 GREECE                              (364)
     ML 3.1 (ATH), 3.1 (THE).

ATH     1.22 104 iPbd  32 51.80   0.8
VLI     1.65 159 ePb   32 57.00  -0.4
LIT     1.84   7 ePb   33 01.90   1.7
                eSb   33 21.74
IGT     1.93 311 ePn   33 09.82   8.3X
PAIG    2.01  34 iPb   33 01.46  -1.1
                eSb   33 23.30
KZN     2.06 351 ePn   33 04.50   1.1
OUR     2.48  33 iPn   33 08.82  -0.4
                iSn   33 36.06
FNA     2.59 346 ePn   33 14.22   3.2X
                eSn   33 45.18
GRG     2.69   3 ePn   33 15.26   2.9X
                eSn   33 43.86
SOH     2.70  19 ePn   33 11.90  -0.6
                eSn   33 43.26
SRS     3.04  20 ePn   33 17.38   0.2
                eSn   33 49.02
OHR     3.04 339 ePn   33 17.70   0.4
                i     33 27.00
                i     33 56.50
                Lg    34 11.00
SKO     3.74 351 ePn   33 25.60  -1.7
     S.D. = 1.2  on  10 of  13 obs.
-----------------------------------
%  OCT  06, 1993  11h 41m 44.17± 0.41s
   39.736 N ± 3.9km   29.073 E ± 3.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
     ML 3.1 (ISK).

ALT     1.05 130 ePn   42 03.90  -0.2
BNT     1.08 305 iPn   42 05.00   0.5
GPA     1.10  59 iPn   42 05.00   0.2
EDC     1.11 304 iPn   42 05.00   0.0
EYL     1.17  45 ePn   42 06.00  -0.2
HRT     1.18  23 iPn   42 06.50   0.4
ISK     1.33 360 ePn   42 09.00   0.4
KHL     1.45 166 ePn   42 10.50  -0.1
CTT     1.49 341 ePn   42 11.00   0.0
MFT     1.73 308 ePn   42 14.00  -0.5
IZM     1.94 227 ePn   42 18.00   0.4
EZN     2.12 273 ePn   42 20.00  -0.1
DMK     2.31 335 ePn   42 22.00  -0.8
     S.D. = 0.4  on  13 of  13 obs.
-----------------------------------
*  OCT  06, 1993  11h 43m 35.46± 2.70s
   60.445 N ± 6.9km    5.112 E ±24.4km
   DEPTH =   5.0km  (geophysicist)
 SOUTHERN NORWAY                     (535)
     MD 1.4 (BER).

ASK     0.06  47 eP    43 36.83  -0.2
                eS    43 38.01
BER     0.13 119 eP    43 38.14   0.0
                eS    43 41.05
EGD     0.18 162 eP    43 39.21   0.0
                eS    43 42.22
HYA     0.90  36 eP    43 53.26   0.2
                eS    44 05.64
NRA0    3.19  82 ePn   44 27.06  -0.1
                ePg   44 32.16
                eSn   45 17.81
                eLg   45 21.71
     S.D. = 0.2  on   5 of   5 obs.
-----------------------------------
%  OCT  06, 1993  12h 03m 31.48± 1.07s
   39.152 N ± 6.9km   27.603 E ±13.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
     ML 2.8 (ISK).

IZM     0.80 200 ePg   03 47.00   0.0
                eSg   04 00.00
EZN     1.20 305 iPn   03 54.10   0.3
EDC     1.21   9 ePn   03 54.00   0.0
BNT     1.23  11 ePn   03 55.00   0.7
KGT     1.32 350 iPn   03 55.50  -0.3
MFT     1.65 351 ePn   04 00.00  -0.7
     S.D. = 0.6  on   6 of   6 obs.
-----------------------------------
&  OCT  06, 1993  12h 34m 45.73s
   60.774 N          151.713 W
   DEPTH =  73.8km
 KENAI PENINSULA, ALASKA             ( 14)
     <AEIC>.

NKA     0.24  97 iP    34 58.49   1.4
RDT     0.40 240 iP    34 57.71  -0.6
                eS    35 07.79
BKG     0.40 318 iP    34 57.77  -0.5
                eS    35 08.14
SPU     0.44 338 iP    34 57.96  -0.7
                eS    35 08.18
CKT     0.49 331 iP    34 58.46  -0.6
                eS    35 08.59
CKN     0.51 333 eP    34 58.80  -0.4
DFR     0.51 250 iP    34 58.60  -0.7
                eS    35 09.15
CKL     0.52 325 iP    34 58.78  -0.6
                eS    35 09.85
CRP     0.54 337 eP    34 58.66  -1.0
                eS    35 09.50
CGLM    0.55 345 iP    34 58.94  -0.8
CP2     0.56 333 eP    34 59.17  -0.7
                eS    35 10.19
REF     0.56 240 iP    34 59.36  -0.6
                eS    35 10.32
```

06d 12h

BGL	0.59	326	iP	34 59.53	-0.6
RSO	0.60	239	eP	34 59.73	-0.6
RS2	0.60	239	iP	34 59.79	-0.5
RDW	0.61	242	iP	34 59.80	-0.6
RED	0.63	236	iP	34 59.86	-0.6
			eS	35 11.17	
NCT	0.64	251	iP	34 59.71	-0.8
NCG	0.67	341	iP	35 00.19	-0.7
SLKM	0.78	109	eP	35 01.74	-0.4
SUA	0.84	34	iP	35 02.34	-0.5
			eS	35 16.42	
ILIM	0.93	222	iP	35 03.07	-0.8
			eS	35 17.15	
INE	0.98	224	eP	35 03.61	-1.0
			eS	35 19.01	
INW	1.00	225	iP	35 03.99	-0.8
			eS	35 18.39	
HOM	1.12	178	eP	35 06.60	0.4
PMS	1.15	65	P	35 06.40	-0.2
MPA	1.19	103	iP	35 06.60	-0.5
SKT	1.21	4	iP	35 06.42	-1.0
			eS	35 22.91	
PWA	1.25	44	P	35 07.60	-0.3
CNPM	1.27	169	iP	35 07.76	-0.5
SEW	1.31	120	eP	35 09.05	0.4
OPT	1.36	215	eP	35 09.01	-0.3
PLRM	1.50	56	eP	35 10.60	-0.5
PMR	1.50	56	eP	35 09.37	-1.8
			eS	35 30.92	
PDB	1.58	232	eP	35 10.34	-2.0
AUL	1.64	212	eP	35 13.02	-0.1
PWL	1.66	86	eP	35 12.00	-1.4
AUH	1.66	212	eP	35 13.81	0.4
AUW	1.66	213	eP	35 13.21	-0.2
GHO	1.68	52	iP	35 12.49	-1.2
AUI	1.68	212	eP	35 12.21	-1.4
KNK	1.71	67	eP	35 12.80	-1.3
CUT	1.78	22	eP	35 14.70	-0.2
SML	1.93	56	eP	35 15.81	-1.4
CFI	1.97	76	eP	35 15.56	-2.0
CDD	2.09	209	eP	35 19.68	0.4
SCM	2.37	61	eP	35 21.60	-1.6
VLZ	2.65	80	eP	35 24.68	-2.3
TRF	2.77	13	eP	35 28.30	-0.6
KLU	2.90	73	eP	35 28.16	-2.4
TOA	2.98	61	P	35 30.50	-1.2
KDC	3.06	188	(P)	35 46.78	14.1
ILB	4.58	27	eP	35 52.15	-1.9
IL1	4.58	27	eP	35 52.06	-2.0
BC3	5.22	60	eP	36 00.17	-2.9
IM3	5.31	351	eP	36 01.99	-2.2

56 obs. associated

---

* OCT 06, 1993 13h 27m 54.13± 1.35s
42.696 N ±10.3km 24.054 E ±14.0km
DEPTH = 5.0km (geophysicist)
BULGARIA (359)
ML 3.0 (THE).

SRS	1.62	192	iPb	28 21.80	-1.6
			eSb	28 43.60	
KNT	1.76	210	ePb	28 24.88	-0.6
			iSb	28 48.96	
SOH	1.94	196	ePb	28 28.08	-0.1
			eSb	28 54.36	
SKO	2.07	250	ePn	28 32.50	2.5
GRG	2.13	216	iPn	28 30.84	-0.1
			eSn	28 59.40	
THE	2.22	202	ePn	28 31.00	-1.1
			eSn	28 59.88	
ALN	2.33	140	ePn	28 35.00	1.2
			eSn	29 04.48	
OUR	2.36	181	ePn	28 35.32	1.2
			eSn	29 03.80	
PAIG	2.78	186	ePn	28 39.52	-0.6
			eSn	29 15.16	
BZS	3.41	330	ePc	28 48.00	-1.0

S.D. = 1.4 on 10 of 10 obs.

& OCT 06, 1993 13h 44m 25.72s
34.984 N 116.977 W
DEPTH = 5.2km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 3.1 (PAS), 2.9 (GS).
Felt (III) at Hinkley and Yermo.
Also felt at Barstow and
Newberry Springs.

GSC	0.35	24	iPd	44 32.08	-0.7
SSK	0.97	218	eP	44 43.55	-1.2
PEC	1.10	188	iPd	44 45.80	-1.1
			eS	45 00.14	
PLM	1.63	177	ePn	44 54.26	-1.0
			eS	45 17.17	
ABL	1.85	267	ePn	44 57.51	-1.0
TPNV	2.05	17	ePn	44 59.92	-1.4
BCH	2.56	275	ePn	45 07.62	-1.0
GLA	2.63	137	ePn	45 07.58	-2.0
			eS	45 49.96	
MTUM	2.69	332	ePn	45 09.65	-1.0
TNP	3.10	356	ePn	45 14.91	-1.4
MMPM	3.10	328	ePn	45 15.77	-0.7
			ePg	45 22.85	
			eS	46 03.28	
BONR	3.15	341	(Pn)	45 18.35	1.2

12 obs. associated

% OCT 06, 1993 13h 49m 11.80± 0.65s
38.506 N ± 6.5km 1.273 W ± 5.9km
DEPTH = 10.0km (geophysicist)
SPAIN (377)
mbLg 3.1 (MDD). Felt (III) in
the Jumilla area.

EALH	0.66	190	iPd	49 24.50	-0.4
			e	49 32.90	
ACU	0.68	89	iPc	49 25.11	-0.2
			e	49 35.70	
EVIA	0.97	278	eP	49 31.10	0.7
			e	49 45.30	
ECHE	1.11	12	iPc	49 33.29	0.7
			e	49 49.10	
EHUE	1.25	237	iPc	49 36.24	1.2
			e	49 53.30	
ENIJ	1.70	206	eP	49 41.63	-0.1
			e	50 03.00	
EBAN	2.01	261	iPc	49 45.91	-0.2
			e	50 10.60	
ECOG	2.19	237	eP	49 49.80	0.9
			e	50 14.50	
ELUQ	2.55	249	ePc	49 53.70	-0.2
EHOR	3.21	259	iPc	50 01.86	-1.3
			e	50 40.00	
EPLA	4.04	294	eP	50 13.86	-1.2

S.D. = 0.9 on 11 of 11 obs.

& OCT 06, 1993 14h 29m 53.95s
60.476 N 152.509 W
DEPTH = 105.3km
SOUTHERN ALASKA (2)
<AEIC>.

REF	0.10	278	eP	30 08.10	0.7
			eS	30 20.10	
RDT	0.11	27	iPc	30 08.25	1.0
			eS	30 20.46	
RSO	0.12	264	eP	30 08.50	1.0
RS2	0.12	264	eP	30 08.54	1.1
RED	0.14	246	eP	30 08.12	0.8
DFR	0.15	323	iPc	30 08.18	0.8
			eS	30 19.97	
RDW	0.15	273	eP	30 08.48	1.0
NCT	0.23	293	eP	30 08.55	1.0
			eS	30 20.21	
ILIM	0.46	210	iPd	30 09.44	-0.9
			eS	30 22.26	
INE	0.50	214	iPd	30 09.83	-0.9
			eS	30 22.82	
INW	0.51	217	iPd	30 09.94	-0.8
			eS	30 23.24	
BKG	0.61	11	iPc	30 10.59	-0.8
NKA	0.68	66	ePc	30 13.06	1.2
CKL	0.73	7	iPc	30 11.68	-0.8
CKT	0.74	11	iPc	30 11.66	-0.9
SPU	0.74	17	iPc	30 11.61	-0.9
CKN	0.77	12	iPc	30 12.14	-0.6
BGL	0.79	4	iPc	30 12.43	-0.6
CP2	0.80	9	iPc	30 12.28	-1.0
CRP	0.81	12	iPc	30 11.81	-1.5
CGLM	0.87	16	iPc	30 12.88	-0.9
OPT	0.90	204	iPd	30 13.50	-0.6
			eS	30 28.95	
HOM	0.93	152	eP	30 14.22	-0.1
NCG	0.95	10	ePc	30 13.70	-0.9
PDB	1.09	231	iPd	30 14.80	-1.2

XLV	1.10	159	eP	30 15.27	-0.9
SLKM	1.13	87	iPc	30 15.85	-0.7
CNPM	1.15	146	eP	30 16.16	-0.6
			eS	30 33.94	
AUL	1.19	203	eP	30 16.42	-0.8
AUE	1.20	202	eP	30 16.78	-0.5
AUP	1.21	203	eP	30 17.26	-0.2
AUH	1.21	203	eP	30 16.79	-0.7
AUW	1.21	204	eP	30 16.65	-0.7
AUI	1.23	202	eP	30 17.21	-0.5
SUA	1.31	40	iPc	30 18.11	-0.6
			eS	30 37.17	
MPA	1.56	88	iPc	30 20.47	-1.1
SEW	1.57	102	iPc	30 20.55	-1.1
			eS	30 41.31	
SKT	1.58	17	eP	30 20.70	-1.2
			eS	30 41.50	
PMS	1.64	61	P	30 21.80	-0.8
SVW	1.65	294	eP	30 19.55	-3.3
CDD	1.65	201	eP	30 21.42	-1.4
PWA	1.74	46	P	30 23.00	-0.8
			S	30 47.90	
PLRM	1.99	54	eP	30 25.31	-1.7
PMR	1.99	54	eP	30 24.46	-2.6
			eS	30 42.86	
PWL	2.09	78	eP	30 26.31	-2.1
GHO	2.17	52	eP	30 27.72	-1.8
KNK	2.19	63	eP	30 27.58	-2.2
			eS	30 54.69	
CUT	2.21	28	eP	30 28.97	-1.0
SML	2.43	55	eP	30 30.94	-2.0
CFI	2.43	71	eP	30 30.11	-2.7
KDC	2.74	180	eP	30 33.55	-3.4
SCM	2.86	59	eP	30 36.71	-2.0
HIN	2.98	89	eP	30 38.86	-1.5
VLZ	3.10	75	eP	30 39.22	-2.6
TRF	3.16	18	eP	30 40.96	-2.0
KTH	3.18	13	eP	30 40.86	-2.2
MID	3.28	106	P	30 44.20	-0.1
CVA	3.34	86	eP	30 43.70	-1.5
KLU	3.37	70	eP	30 42.92	-2.7
			eS	31 20.91	
RND	3.41	29	eP	30 44.28	-1.9
TOA	3.47	59	P	30 45.40	-1.6
DHY	3.57	41	eP	30 46.70	-1.8
SGAM	3.61	86	eP	30 47.20	-1.7
RAGM	3.88	88	eP	30 50.65	-2.0
GLB	4.35	73	P	30 56.20	-2.8
CRQM	4.63	82	eP	31 01.06	-1.9
HDA	4.71	31	eP	31 01.60	-2.4
CCB	4.72	25	eP	31 01.37	-2.6
TGL	4.78	82	eP	31 02.89	-2.1
FBA	4.94	24	eP	31 03.75	-3.4
BALM	5.02	79	eP	31 05.61	-2.7
IL1	5.03	29	eP	31 05.37	-3.0
ILB	5.03	29	eP	31 05.36	-3.0
GLM	5.10	25	eP	31 06.71	-2.7
YAH	5.34	87	eP	31 10.74	-2.1
CTGM	5.51	80	eP	31 13.13	-2.0
IM3	5.56	355	eP	31 12.30	-3.3
BC3	5.71	58	eP	31 15.36	-2.5
PRP	5.97	29	eP	31 18.65	-2.9
BM3	7.78	23	eP	31 41.94	-4.2

80 obs. associated

? OCT 06, 1993 14h 56m 31.59± 5.67s
33.103 S ±13.4km 72.461 W ±42.2km
DEPTH = 12.1 ± 4.2 km
OFF COAST OF CENTRAL CHILE (134)
MD 4.0 (SAN).

IHA	0.69	84	iPc	56 45.40	0.3
			iS	56 52.50	
LCCH	0.83	117	iP+	56 47.55	0.0
			iS	56 56.93	
LNV	1.22	134	iPd	56 54.15	0.1
			iS	57 08.37	
ROCH	1.23	84	iPd	56 53.91	-0.4
			iS	57 08.32	
TACH	1.39	114	iP	56 56.37	-0.4
			iS	57 12.61	
PEL	1.49	92	iP+	56 58.42	0.2
			iS	57 16.11	
SAN	1.55	104	eP	56 58.88	-0.1
JACH	1.63	76	(P)	57 00.15	-0.1
PCH	1.71	108	iPd	57 01.51	0.1
			iS	57 22.78	

```
FCH     1.83  98 iPd   57 03.68   0.2
                iS    57 25.85
     S.D. = 0.3  on  10 of  10 obs.
-----------------------------------
   OCT  06, 1993  15h 19m 26.40± 1.72s
   26.304 N ± 9.3km  102.284 E ±26.3km
   DEPTH =  10.0km  (geophysicist)
 SICHUAN, CHINA                    (307)
      ML 4.1 (BJI).

KMI     1.25 161 Pgd   19 49.50  -0.2
                Sg    20 12.00
CD2     4.77  15 iPnc  20 39.40  -0.7
                Sg    21 57.50
BDT     9.52 199 eP    22 09.00  22.5X
XAN     9.61  35 P     21 45.50  -2.3
                S     23 33.70
LZH     9.84   7 eP    22 20.00  28.9X
GTA    13.23 352 eP    22 37.50   0.5
       1.5s     12.00nm          4.8mb
TIY    14.25  35 eP    22 51.40   1.0
BTO    15.64  22 eP    23 04.20  -4.3X
TIA    16.06  48 eP    23 15.40   1.5
HHC    16.42  26 eP    23 18.80   0.2
     S.D. = 1.5  on   7 of  10 obs.
-----------------------------------
?  OCT  06, 1993  15h 54m 19.59± 3.27s
   42.019 N ±29.3km   23.951 E ±11.4km
   DEPTH =  10.0km  (geophysicist)
 BULGARIA                          (359)

SRS     0.94 197 eP    54 37.94   0.4
                eS    54 50.50
KNT     1.16 223 eP    54 40.02  -1.3
                eS    54 55.98
SOH     1.28 201 eP    54 42.54  -0.8
                iS    55 01.86
THE     1.57 209 iP    54 47.30  -0.2
GRG     1.58 228 eP    54 48.86   1.2
                eS    55 07.94
ALN     1.93 125 eP    54 52.26  -0.5
PAIG    2.10 186 eP    54 56.62   1.4
LIT     2.21 210 eP    54 56.78  -0.1
                eS    55 25.74
     S.D. = 1.1  on   8 of   8 obs.
-----------------------------------
&  OCT  06, 1993  16h 46m 32.34s
   58.156 N          154.291 W
   DEPTH =  59.5km
 ALASKA PENINSULA                  ( 12)
     <AEIC>. ML 3.1 (AEIC).

CDD     0.85  23 iP    46 47.77  -0.8
                eS    47 00.96
KDC     1.04 112 ePc   46 49.54  -1.5
AUI     1.27  20 eP    46 53.12  -1.0
                eS    47 09.15
AGU     1.29  20 eP    46 54.03  -0.5
AUH     1.29  20 eP    46 53.67  -0.8
AUW     1.29  19 eP    46 53.62  -0.8
AUP     1.29  20 eP    46 53.19  -1.4
AUE     1.30  21 eP    46 53.80  -0.7
AUL     1.31  20 eP    46 53.94  -0.8
OPT     1.60  20 eP    46 57.65  -1.1
                eS    47 17.10
PDB     1.64   2 eP    46 58.09  -1.2
                eS    47 17.23
HOM     2.04  41 eP    47 04.23  -0.6
                eS    47 27.67
ILIM    2.05  19 eP    47 03.33  -1.7
CNPM    2.10  48 eP    47 03.40  -2.3
                eS    47 26.92
RED     2.40  18 eP    47 07.38  -2.6
RS2     2.44  18 eP    47 09.41  -1.3
RDW     2.45  17 eP    47 09.17  -1.7
REF     2.48  19 eP    47 09.58  -1.6
                eS    47 37.46
DFR     2.58  18 eP    47 11.12  -1.4
RDT     2.61  21 eP    47 11.20  -1.7
                eS    47 40.13
SVW     3.04 348 P     47 18.60  -0.4
SLKM    3.15  40 eP    47 17.70  -2.9
SPU     3.24  20 eP    47 19.51  -2.4
CP2     3.29  18 eP    47 17.60  -5.1
CRP     3.30  18 eP    47 21.28  -1.6
NCG     3.43  17 eP    47 23.62  -1.0
SUA     3.77  27 eP    47 27.70  -1.7
PMS     3.92  36 P     47 28.00  -3.4
PWL     4.07  46 eP    47 29.21  -4.3
SKT     4.08  19 eP    47 30.53  -3.1
MID     4.33  70 P     47 33.70  -3.4
KNK     4.40  40 eP    47 33.96  -4.2
HIN     4.58  57 eP    47 36.41  -4.3
CUT     4.71  23 eP    47 40.75  -1.7
TTA     4.87 351 eP    47 42.58  -2.2
CVA     4.98  58 eP    47 41.54  -4.8
VLZ     5.02  50 eP    47 42.57  -4.2
SGAM    5.21  59 eP    47 44.08  -5.5
KLU     5.39  48 eP    47 47.57  -4.5
RAGM    5.41  62 eP    47 47.68  -4.7
HMT     5.59  63 P     47 50.20  -4.7
BALM    6.72  60 eP    48 04.69  -5.9
       42 obs. associated
-----------------------------------
%  OCT  06, 1993  16h 48m 53.96± 0.57s
   40.663 N ± 6.0km   29.903 E ± 5.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 3.1 (ISK).

EYL     0.22 117 iPg   48 58.70   0.0
HRT     0.24 312 iPg   48 59.00  -0.1
IZI     0.46 225 iPg   49 03.80   0.4
                iSg   49 10.00
GPA     0.49 140 iPg   49 03.90   0.1
ISK     0.76 302 iPg   49 09.00   0.3
                iSg   49 19.00
CTT     1.22 294 iPn   49 16.50  -0.1
EDC     1.59 259 ePn   49 22.00  -0.2
ALT     1.61 174 ePn   49 22.50  -0.2
DMK     1.99 306 ePn   49 28.30   0.3
KGT     1.99 265 iPn   49 27.50  -0.5
     S.D. = 0.3  on  10 of  10 obs.
-----------------------------------
*  OCT  06, 1993  17h 28m 42.90± 2.17s
   49.089 N ±20.3km   6.898 E ±13.4km
   DEPTH =  10.0km  (geophysicist)
 GERMANY                           (543)
      ML 2.2 (UCC).

RUP     0.62  10 ePg   28 54.20  -1.3
WLF     0.75 320 iPd   28 56.83  -0.8
                iS    29 06.28
TNS     1.52  41 ePnc  29 11.30   1.1
                ePgc  29 14.10
                eSn   29 30.00
                eSg   29 33.20
MEM     1.63 340 iPc   29 11.73   0.1
                iS    29 32.45
ENN     1.79 340 ePn   29 15.50   1.4
       0.5s     9.40nm
                eSn   29 39.00
KHC     4.39  87 ePn   29 50.50  -0.6
                e     30 05.00
                e     30 40.00
                eSg   31 03.60
GEC2    4.49  91 Pn    29 52.60   0.0
                Sn    30 42.60
                Sg    31 06.40
     S.D. = 1.2  on   7 of   7 obs.
-----------------------------------
?  OCT  06, 1993  18h 11m 54.62± 1.70s
   10.876 N ±17.7km  125.940 E ±18.6km
   DEPTH =  33.0km  (normal)
   4.1mb (  1 obs.)
 LEYTE, PHILIPPINE ISLANDS         (256)

PLP     0.99 287 iPc   12 11.80  -0.4
                iS    12 28.20
MAP     2.00 254 iPd   12 27.00   0.2
                iS    12 51.00
BIP     2.65 173 ePd   12 43.50   7.5X
                eS    13 21.00
GQP     4.55 312 eP    13 03.20   0.2
WR2    31.73 165 eP    18 17.90   0.0
       0.8s     2.20nm          4.1mb
     S.D. = 0.5  on   4 of   5 obs.
-----------------------------------
&  OCT  06, 1993  18h 14m 54.81s
   60.495 N          141.108 W
   DEPTH =  24.8km
 SOUTHEASTERN ALASKA               ( 19)
     <AEIC>. ML 3.0 (AEIC).

YAH     0.34 248 iPc   15 02.15  -0.5
                eS    15 08.05
CHX     0.43 181 iP    15 03.80  -0.2
                eS    15 11.45
CTGM    0.48 347 iPd   15 04.42  -0.4
                eS    15 12.01
PCA     0.58 133 iP    15 05.45  -1.0
BALM    0.81 312 iPd   15 08.86  -1.5
                eS    15 20.02
WAX     0.86 268 eP    15 10.52  -0.6
                eS    15 22.70
TGL     0.89 288 iPc   15 10.10  -1.5
BCPM    0.91 126 iP    15 10.24  -1.7
                eS    15 24.42
CRQM    1.04 286 iPc   15 12.25  -1.7
                eS    15 25.59
YKU     1.17 143 eP    15 14.93  -0.7
                eS    15 30.39
PNL     1.19 133 eP    15 14.26  -1.7
HQN     1.53 132 eP    15 19.39  -1.5
HMT     1.57 266 ePd   15 21.39   0.0
GLB     1.62 307 eP    15 21.44  -0.8
                eS    15 42.91
KAIM    1.75 252 eP    15 21.46  -2.5
                eS    15 42.97
RAGM    1.77 268 eP    15 24.06  -0.3
                eS    15 45.96
SGAM    2.03 272 iPd   15 27.42  -0.6
CVA     2.30 273 eP    15 30.82  -0.9
KLU     2.55 295 eP    15 35.27  -0.3
BC3     2.60 353 iPc   15 36.11  -0.1
                eS    16 07.71
TZL     2.60 309 eP    15 34.32  -1.8
VLZ     2.64 286 eP    15 35.94  -0.7
HIN     2.68 270 eP    15 35.37  -1.9
TOA     2.93 306 P     15 41.50   0.7
       24 obs. associated
-----------------------------------
   OCT  06, 1993  18h 16m 44.41± 0.94s
    3.442 N ± 4.0km  127.035 E ± 8.0km
   DEPTH =  52.1 ±  9.4 km
   4.8mb ( 15 obs.)
 TALAUD ISLANDS, INDONESIA         (263)

MNI     2.96 228 ePc   17 32.00   2.0
                iS    18 12.00
CTB     4.68 323 eP    17 59.50   5.2X
BIP     4.81 351 ePd   17 54.50  -1.7
                eS    18 31.00
SWI     6.01 135 ePd   18 12.50  -0.5
MAP     7.48 336 eP    18 32.00  -1.5
PLP     7.94 345 ePd   18 41.50   1.6
WSI    14.66 207 ePc   20 13.30   2.9X
CVP    15.07 341 ePd   20 21.00   5.3X
KHKI   16.35 224 eP    20 34.00   1.9
                e     22 12.00
MTN    16.69 166 eP    20 35.50  -0.8
TRT    18.14 232 ePc   20 54.70   0.4
SJI    18.85 234 ePc   21 03.20   0.1
KNA    19.15 175 eP    21 05.80  -0.7
WR2    24.33 163 iPc   21 58.30  -0.4
                ipP   22 06.80  30kmX
                eS    26 04.10
QIS    26.85 153 eP    22 25.00   2.8X
ASPA   27.76 166 iPd   22 29.70  -0.8
       0.5s     9.80nm          4.7mb
                eS    27 09.30
SSE    28.05 349 Pc    22 35.50   2.6X
       1.0s    11.00nm          4.4mb
WARB   29.45 181 eP    22 34.50 -11.1X
NJ2    29.48 346 Pd    22 46.00   0.2
KHT    30.21 294 eP    22 51.50  -1.0
MEEK   30.99 195 iPd   22 59.10  -0.2
       0.5s     8.00nm          4.7mb
CHG    31.43 301 eP    23 01.90  -1.3
TIA    33.87 346 eP    23 24.30   0.1
MRWA   34.16 197 eP    23 26.20  -0.6
       0.8s    24.00nm          5.2mb
COOL   34.59 189 eP    23 30.00  -0.5
XAN    34.81 333 P     23 31.00  -1.4
       0.6s     6.00nm          4.7mb
CD2    35.05 324 eP    23 34.10  -0.4
BAL    35.27 196 eP    23 36.20   0.0
TIY    36.64 340 eP    23 49.00   1.2
MUN    36.70 195 eP    23 48.80   0.5
NWAO   37.34 194 eP    23 51.30  -2.4
BJI    37.73 346 eP    23 57.50   0.6
```

06d 18h

```
        1.0s    12.00nm          4.8mb
STK    37.76 160 iPd   23 57.10  -0.1
        0.7s    11.50nm          4.9mb
SNY    38.34 356 eP    2: 02.20   0.2
BRS    39.45 143 eP    [illegible] .4.00   2.5X
ADE    39.75 165 eP       .5.40   1.5
HHC    39.76 342 eP    2  .5.20   1.2
BTO    40.05 340 eP    24 16.40   0.0
CN2    40.21 358 eP    24 17.00  -0.5
        0.5s     5.80nm          4.7mb
MDJ    41.07   3 eP    24 24.40  -0.1
LSA    42.86 311 Pc    24 39.80  -0.1
        1.0s    11.00nm          4.5mb
GTA    43.50 329 eP    24 44.80   0.2
        1.0s     7.00nm          4.4mb
                 PcP   26 33.00
GBA    49.98 285 Pd    25 35.00  -0.8
WMQ    53.13 325 P     25 59.00  -0.2
YAK    58.47   1 iPc   26 36.70  -0.4
        1.6s    88.00nm          5.6mb
MAIO   69.93 307 eP    27 42.00 -10.5X
CSY    70.58 187 iPd   27 58.50   2.8X
        0.7s    22.80nm          5.2mb
TTA    81.02  27 eP    28 56.50   1.5
IMA    82.52  24 eP    29 04.60   1.7
        0.6s     4.40nm          4.7mb
PMR    84.05  29 eP    29 10.40  -0.1
TOA    85.47  28 eP    29 19.70   1.9
OBN    87.45 325 eP    29 25.00  -2.4
        0.8s    29.00nm          5.6mb
                 i     29 43.50
                 e     30 08.00
KAF    91.99 332 eP    29 50.40   1.8
NB2    99.18 334 P     30 20.60  -0.9
        0.9s     2.60nm          4.8mb
LPAZ  160.37 132 PKP   36 49.50   8.6X
CCH   161.06 138 PKP   36 49.20   8.1X
     S.D. = 1.2  on  45 of  56 obs.
-----------------------------------
%  OCT  06, 1993  18h 18m 29.32± 1.16s
   18.146 N ±13.4km   67.081 W ±11.2km
   DEPTH =  33.0km  (normal)
 MONA PASSAGE                        ( 89)

MGP     0.14 183 P     18 35.50   0.2
                 S     18 38.60
MCP     0.27 354 P     18 36.60  -0.2
PORP    0.43 102 P     18 38.20  -0.7
SJG     0.89  92 iP    18 45.30  -0.1
CPD     1.11  95 P     18 49.00   0.3
LPR     1.16  82 P     18 49.90   0.5
                 S     19 03.13
     S.D. = 0.6  on   6 of   6 obs.
-----------------------------------
   OCT  06, 1993  22h 27m 13.07± 0.54s
   31.631 S ± 6.7km   69.297 W ± 7.5km
   DEPTH = 119.2 ±  9.7 km
 SAN JUAN PROVINCE, ARGENTINA      (137)
     MD 4.1 (SAN).

RTCB    0.45  71 ePd   27 30.50  -0.5
                 S     27 43.00
ZON     0.53  81 iPc   27 31.70   0.2
                 eS    27 42.70
RTCV    0.69 110 iPc   27 32.90   0.3
RTLL    0.77  67 iPc   27 33.00  -0.2
                 S     27 46.50
CFA     0.90  89 iPd   27 34.60   0.2
                 S     27 45.20
RTRS    1.46 354 iPc   27 40.90   0.6
JACH    1.52 226 iPd   27 41.50   0.4
                 iS    28 04.07
FCH     1.89 206 iPd   27 47.02   1.1
                 iS    28 12.86
PEL     1.91 218 iPd   27 45.98   0.1
                 iS    28 11.36
ROCH    1.97 227 eP    27 46.59  -0.3
PCH     2.23 207 eP    27 50.65   0.6
                 iS    28 20.83
TACH    2.45 214 iP    27 52.72   0.0
                 iS    28 23.88
LCCH    2.66 226 iP+   27 54.81  -0.7
CACH    2.71 204 iP+   27 57.09   0.8
RTPR    2.74  62 iPd   27 56.20  -0.3
LNV     2.92 217 eP    27 56.54  -2.4
                 iS    28 32.78
MRA     3.15 105 iPc   28 02.50   0.6
                 S     28 38.40
CYA     4.39  45 iPd   28 17.20  -1.7
                 S     29 06.00
CNCB   14.80   5 Pd    30 38.90   0.8
LPAZ   15.31   4 Pc    30 45.00   0.4
     S.D. = 0.9  on  20 of  20 obs.
-----------------------------------
%  OCT  06, 1993  23h 20m 59.49± 1.72s
   44.627 N ± 6.8km    6.805 E ±15.4km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                              (538)
     ML 2.2 (GEN).

PZZ     0.24 120 P     21 04.84   0.1
                 S     21 08.59
RRL     0.29 357 P     21 05.80   0.1
                 S     21 10.01
BHB     0.39  56 P     21 07.58   0.1
                 S     21 12.84
STV     0.53 136 P     21 10.33   0.0
                 S     21 17.70
ENR     0.60 132 P     21 11.52  -0.1
                 S     21 19.25
RSP     0.62  31 P     21 11.84  -0.1
                 S     21 20.03
     S.D. = 0.1  on   6 of   6 obs.
-----------------------------------
&  OCT  06, 1993  23h 30m 12.30s
   34.212 N          116.814 W
   DEPTH =   1.1km
 SOUTHERN CALIFORNIA                 ( 43)
     <PAS-P>. ML 2.5 (PAS).

PEC     0.43 222 iPc   30 20.65  -0.2
SSK     0.73 270 ePc   30 26.22  -0.6
PLM     0.86 183 ePd   30 28.45  -1.0
GSC     1.09   0 eP    30 32.73  -0.9
                 eS    30 47.04
GLA     2.02 124 (P)   30 46.72  -1.2
ABL     2.09 288 eP    30 46.63  -2.4
TPNV    2.77   9 eP    30 57.47  -1.3
        7 obs. associated
-----------------------------------
   OCT  07, 1993  00h 35m 35.15± 0.95s
    5.568 S ± 5.0km  151.778 E ± 6.9km
   DEPTH =  50.1 ±  8.2 km
   5.1mb ( 13 obs.)  4.6Msz (  2 obs.)
 NEW BRITAIN REGION, P.N.G.          (192)

RAB     1.42  16 iPd   35 59.00   0.1
                 iS    36 19.00
KVG     3.11 342 eP    36 24.90   1.9
KDB     6.00 229 eP    37 04.00   0.4
CTA    15.40 200 iPc   39 15.50   4.6X
        0.9s    10.50nm          4.0mb
     Z  18s     8.25um          5.3Msz
                 e     39 29.00
QIS    19.02 217 eP    39 55.00  -1.0
BKM    20.09 128 iPc   40 06.50  -1.0
GUA    20.17 340 e(P)  40 09.00   0.7
        0.8s   232.84nm          5.6mb
                 e     40 17.80
GUMO   20.23 340 e(P)  40 06.30  -2.6
PJG    20.23 340 e(P)  40 07.10  -1.8
MTN    21.61 249 eP    40 24.00   1.0
DZM    21.69 141 iPc   40 22.80  -1.0
BRS    21.72 178 iPd   40 24.50   0.4
                 i     40 29.00
                 i     40 33.50
                 ePP   40 39.00
                 eS    44 24.00
WR2    22.16 228 iPc   40 27.80  -0.7
        0.6s    36.10nm          5.0mb
                 i     40 42.10
                 iS    44 29.70
WRA    22.18 228 P     40 27.39  -1.2
        1.5s    18.70nm          4.3mb
KNA    24.74 244 eP    40 53.20  -0.4
ASPA   24.90 222 iPd   40 54.90  -0.2
        0.4s    58.90nm          5.5mb
     Z  20s     1.20um          4.4Msz
                 iS    45 26.90
STK    27.86 199 eP    41 22.80   0.6
        1.0s     2.50nm          3.8mb X
GQP    34.95 304 ePd   42 25.80   1.1
TIA    52.74 325 eP    44 45.70  -1.6
KMI    56.58 305 Pd    45 16.00   0.3
        1.6s    70.00nm          5.4mb
CD2    58.47 311 iPc   45 29.00   0.3
LZH    61.08 317 eP    45 45.00  -1.7
        1.2s    35.00nm          5.4mb
     Z  16s     0.34um          4.6MszX
GTA    65.53 318 eP    46 15.50  -0.4
WMQ    75.62 318 P     47 16.80   0.0
GBA    76.19 285 P     47 21.00   0.6
PMS    80.45  25 eP    47 42.40  -0.5
PMR    80.80  25 (P)   47 43.19  -1.5
        0.7s     7.65nm          4.7mb
IMA    81.52  20 (P)   47 48.42  -0.1
        0.8s     3.10nm          4.3mb
KLU    82.10  25 eP    47 51.38  -0.2
KSH    82.64 311 P     47 57.20   2.3
        1.0s    31.00nm          5.3mb
FBA    82.97  22 eP    47 55.14  -0.8
        0.8s     9.62nm          4.9mb
BALM   83.46  27 eP    47 57.26  -1.4
MAW    84.47 203 P     48 05.09   1.6
SIT    85.46  32 eP    48 08.94   0.4
        1.3s    11.59nm          4.9mb
LGPM   90.13  49 eP    48 32.96   1.4
LBFM   90.89  49 (P)   48 36.52   1.3
RMW    91.64  43 eP    48 38.83   0.5
BONR   93.32  52 (P)   48 48.03   1.5
NEW    94.85  42 eP    48 53.79   0.8
        1.0s    16.50nm          5.4mb
APO   116.65 338 ePKP  54 13.30  -1.9
        0.4s     1.60nm
BRG   122.82 330 iPKP  54 27.30   0.1
CLL   123.02 330 iPKPd 54 27.70   0.2
OHR   123.80 317 e(PKP)54 28.80  -0.7
KHC   124.06 328 ePKP  54 30.00   0.2
                 e     54 42.00
GEC2  124.17 328 PKP   54 29.20  -0.9
        0.6s     2.52nm
                 e     54 34.60
GRF   124.92 330 ePKP  54 30.40  -0.9
     Z  20s     0.20um          4.8Msz
CDF   127.72 331 ePKP  54 36.60  -0.3
        1.3s     9.75nm
BSF   128.35 330 iPKPd 54 38.00  -0.1
        1.2s    23.20nm
HAU   128.45 331 iPKPd 54 38.20   0.0
        1.1s    10.75nm
LPL   129.95 328 ePKP  54 47.10   5.7X
        0.9s     7.85nm
LOR   130.16 332 iPKPd 54 41.90   0.4
        1.2s    17.25nm
SSF   130.48 332 ePKP  54 42.70   0.6
        1.0s     8.80nm
AVF   130.74 332 ePKP  54 43.40   0.8
        1.2s    10.70nm
GRR   131.38 336 ePKP  54 44.50   0.8
        1.0s    25.80nm
LPF   131.74 336 ePKP  54 45.00   0.6
        1.1s    29.30nm
MFF   132.48 334 ePKP  54 46.20   0.3
        1.0s    20.00nm
CNCB  134.84 120 ePKP  54 46.00  -5.9X
                 i     54 53.10
LPB   134.86 120 ePKP  54 47.00  -4.8X
LPAZ  134.94 119 PKP   54 52.10  -0.1
PPD   144.45 141 ePKP  54 49.10 -19.4X
TNF   145.70 324 iPKP  55 11.50   1.2
AVE   146.29 328 iPKP  55 12.00   0.7
TIO   148.00 325 iPKP  55 17.00   2.8X
CIA   148.36 327 ePKP  55 18.00   3.4X
KIC   156.63 273 PKP   55 38.42  11.5X
        1.1s    24.00nm
     S.D. = 1.0  on  57 of  65 obs.
-----------------------------------
%  OCT  07, 1993  00h 44m 43.17± 0.65s
   39.804 N ± 6.9km   29.321 E ± 4.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
     ML 3.0 (ISK).

GPA     0.90  57 iPg   45 01.10   0.7
ALT     0.97 141 iPg   45 01.50  -0.1
                 iSg   45 14.50
EYL     0.99  40 ePg   45 01.40  -0.7
BNT     1.21 298 ePn   45 05.90   0.2
EDC     1.24 296 ePn   45 06.00  -0.3
ISK     1.28 351 ePn   45 07.00   0.2
MFT     1.84 303 ePn   45 15.00  -0.2
```

```
EZN     2.31 271 ePn   45 22.00   0.2
     S.D. = 0.5  on   8 of   8 obs.
-------------------------------------
*  OCT  07, 1993  01h 15m 00.35± 2.53s
   36.656 N ±24.3km   29.054 E ±10.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
     ML 3.3 (ISK).

ELL     0.69  82 iPg   15 14.00  -0.1
                 eSg   15 25.00
CIN     1.22 321 ePg   15 23.00   0.0
                 iSg   15 38.00
BCK     1.47  56 iPn   15 27.20   0.3
KHL     1.71  12 ePn   15 30.50   0.1
IZM     2.25 321 ePn   15 38.20   0.0
ALT     2.54  19 ePn   15 42.00  -0.3
     S.D. = 0.3  on   6 of   6 obs.
-------------------------------------
*  OCT  07, 1993  01h 20m 50.72± 1.39s
   36.936 N ±15.1km   29.197 E ± 9.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
     ML 3.2 (ISK).

ELL     0.60 108 iPg   21 03.00   0.1
                 eSg   21 14.00
CIN     1.11 307 eP    21 12.00   0.5
KHL     1.41  10 ePn   21 17.00   0.5
IZM     2.12 314 ePn   21 26.00  -0.7
ALT     2.24  19 ePn   21 28.00  -0.4
     S.D. = 0.8  on   5 of   5 obs.
-------------------------------------
   OCT  07, 1993  02h 00m 21.77± 0.70s
   39.711 N ± 7.1km   20.490 E ± 5.7km
   DEPTH =  10.0km  (geophysicist)
 GREECE-ALBANIA BORDER REGION      (392)
     ML 2.8 (THE).

IGT     0.22 214 ePg   00 25.74  -0.7
SRN     0.41 294 ePg   00 31.00   0.8
                 iSg   00 40.00
KBN     0.94  14 ePn   00 37.00  -2.7
                 iSn   00 54.50
VLO     1.07 315 ePn   00 42.40   0.4
FNA     1.27  32 ePb   00 45.58   0.2
                 eSb   01 05.10
OHR     1.42   9 ePn   00 48.20   0.6
                 i     00 51.20
                 i     01 10.50
                 i     01 13.50
                 Lg    01 18.50
AGG     1.58 115 iPb   00 49.22  -0.7
                 eSb   01 10.94
LIT     1.59  75 ePb   00 50.94   0.9
                 eSb   01 13.42
TIR     1.70 344 ePn   00 58.00   6.4X
GRG     1.92  49 ePb   00 57.94   3.1X
                 eSb   01 24.26
SKO     2.37  17 ePn   01 04.00   2.7X
SOH     2.46  62 ePn   01 02.70   0.1
                 iSn   01 35.26
PAIG    2.47  84 ePn   01 03.02   0.4
                 eSn   01 34.66
OUR     2.75  76 ePn   01 07.42   0.7
                 eSn   01 43.02
     S.D. = 1.2  on  11 of  14 obs.
-------------------------------------
&  OCT  07, 1993  02h 18m 27.80s
   64.387 N          148.051 W
   DEPTH =  17.4km
 CENTRAL ALASKA                    (  1)
     <AEIC>. ML 2.9 (AEIC), 3.2
     (PMR).

WRH     0.09 349 iPd   18 31.57   0.2
CCB     0.28  22 iPd   18 34.14   0.1
HDA     0.48  87 iPc   18 37.73   0.3
NEA     0.48 294 iPc   18 37.48   0.0
                 eS    18 43.66
FBA     0.53  12 iPd   18 38.12  -0.1
MDM     0.58 352 iPd   18 39.30   0.2
                 iS    18 46.89
IL1     0.63  52 iPc   18 40.40   0.3
ILB     0.63  52 iPc   18 40.37   0.3
                 eS    18 48.50
BWN     0.65 251 ePc   18 39.47  -0.9
GLM     0.67  25 iPd   18 40.96   0.3
                 eS    18 49.58
MCK     0.76 211 iPd   18 42.65   0.4
RND     1.05 200 eP    18 47.54   0.4
                 eS    19 01.24
DJE     1.10 108 eP    18 48.73   0.8
                 eS    19 03.94
MLY     1.32 300 eP    18 50.61  -0.9
DHY     1.35 167 eP    18 52.81   0.9
                 eS    19 11.05
TRF     1.36 227 eP    18 51.77  -0.4
THY     1.41 133 eP    18 54.42   1.8
                 eS    19 13.12
KTH     1.52 238 eP    18 54.34   0.1
                 eS    19 15.21
PRP     1.56  42 eP    18 54.89  -0.1
                 eS    19 16.90
HUR     1.58 207 eP    18 56.83   1.7
                 eS    19 17.02
PAX     1.83 140 eP    18 59.32   0.5
                 eS    19 22.46
DOT     1.91 111 eP    19 01.84   2.0
                 eS    19 27.38
SDG     2.18 148 eP    19 04.59   0.8
CUT     2.23 208 eP    19 05.73   1.3
TOA     2.44 159 P     19 09.10   1.5
TMW     2.48 113 eP    19 09.97   1.9
FYU     2.48  27 eP    19 07.62  -0.4
SCM     2.58 172 eP    19 11.77   2.1
SML     2.59 183 eP    19 11.41   1.7
GHO     2.66 189 eP    19 10.16  -0.5
PMR     2.85 190 eP    19 17.96   4.7
PWA     2.87 198 P     19 13.80   0.3
SKT     2.88 215 eP    19 14.08   0.3
IMA     2.91 308 eP    19 17.24   3.0
KNK     2.99 184 eP    19 16.09   0.8
KLU     3.06 161 eP    19 17.81   1.4
BC3     3.09 113 eP    19 15.14  -1.5
CFI     3.22 178 eP    19 20.24   1.7
PMS     3.23 193 P     19 20.20   1.5
BM3     3.36  23 ePd   19 19.34  -1.2
NCG     3.53 214 eP    19 22.65  -0.5
PWL     3.54 182 eP    19 23.56   0.4
CGLM    3.58 212 eP    19 24.21   0.4
CRP     3.65 213 (P)   19 31.06   6.2
CP2     3.68 213 eP    19 26.31   1.1
TTA     3.84 251 eP    19 37.57  10.2
BALM    4.27 139 (P)   19 34.99   1.5
SVW     4.79 230 (P)   19 54.54  13.7
       48 obs. associated
-------------------------------------
?  OCT  07, 1993  02h 23m 45.14±10.80s
   47.229 N ±20.4km   10.510 E ±68.6km
   DEPTH =  10.0km  (geophysicist)
 AUSTRIA                           (546)
     ML 2.0 (VIE).

MOTA    0.42  74 iPgc  23 54.00   0.2
                 iSg   23 59.40
SQTA    0.48  91 iPgc  23 54.80  -0.1
                 iSg   24 00.40
OGA     0.51 136 iPgd  23 55.50   0.1
WATA    0.73  81 iPgc  23 59.60  -0.1
                 iSg   24 09.00
WTTA    0.77  87 iPgc  24 00.10  -0.2
                 iSg   24 10.40
KBA     1.94  93 iPgc  24 23.20   4.6X
                 iSg   24 48.90
     S.D. = 0.2  on   5 of   6 obs.
-------------------------------------
&  OCT  07, 1993  02h 45m 43.87s
   32.382 N          115.059 W
   DEPTH =   6.0km  (geophysicist)
 CALIF.-BAJA CALIF. BORDER REGION( 45)
     <PAS-P>. ML 2.9 (PAS).

GLA     0.70  16 eP    45 56.11  -1.7
PLM     1.80 303 eP    46 15.09  -0.8
PEC     2.32 311 (P)   46 24.65   1.4
SSK     2.86 310 (P)   46 31.31   0.2
GSC     3.25 334 eP    46 37.97   1.4
MSU     6.55  20 (P)   47 23.87   0.4
       6 obs. associated
-------------------------------------
   OCT  07, 1993  03h 26m 58.91± 0.20s
   38.214 N ± 4.6km   88.726 E ± 3.1km
   DEPTH =  11.3km  (  9 depth phases)
   5.0mb ( 57 obs.)
 SOUTHERN XINJIANG, CHINA          (321)

WMQ     5.66 352 Pn    28 25.60   0.7
                 Sn    29 32.00
LSA     8.73 166 iPc   29 14.00   5.6X
      1.4s    81.00nm          5.8mb
      E  10s     0.84um
GTA     8.74  79 eP    29 07.00  -1.2
      1.0s    36.00nm          5.6mb
                 pP    29 11.00
                 sP    29 14.00
                 S     30 44.00
KSH    10.02 281 P     29 27.50   1.6
      0.3s    50.00nm          6.4mb X
                 S     31 30.30
FRU    11.68 298 eP    29 49.00   0.5
      2.0s    40.00nm          5.4mb
LZH    12.25  95 eP    29 53.00  -3.3X
      1.5s    95.00nm          5.8mb
      Z  10s     0.85um          3.8Msz
                 PP    30 06.50
                 eS    32 09.00
SHL    12.89 167 iP    30 05.50   0.6
                 eS    34 08.00
ZAK    15.98  36 eP    30 43.60  -1.4
      1.4s    23.00nm          4.1mb
BTO    16.63  75 eP    30 52.00  -1.5
      1.0s    33.00nm          4.4mb
      E  10s     0.27um
XAN    16.83  98 P     30 52.00  -4.1X
      0.7s     7.00nm          3.9mb X
      Z  16s     0.71um          4.2MszX
                 pP    30 57.70
                 sP    31 01.00
KMI    17.65 134 Pd    31 08.00   1.5
      1.4s    50.00nm          4.5mb
IRK    17.78  33 eP    31 09.80   2.1
HHC    17.81  74 eP    31 06.00  -2.2
      0.8s    30.00nm          4.5mb
TIY    18.69  84 Pc    31 18.10  -1.1
      Z  10s     1.02um
      N  12s     0.83um
GYA    19.12 123 P     31 24.20  -0.3
      1.0s    22.00nm          4.4mb
CHTO   21.28 152 eP    31 49.00   1.4
BJI    21.34  76 eP    31 48.00   0.0
      1.0s    22.00nm          4.5mb
WHN    22.44 102 eP    32 00.00   0.9
      0.7s    35.00nm          4.9mb
                 pP    32 09.50  35kmX
MAIO   23.31 274 eP    32 11.00   3.3X
POO    23.52 218 eP    32 14.50   4.8X
ASH    23.86 279 eP    32 13.00   0.1
NJ2    25.33  95 Pd    32 28.00   0.9
      1.0s    12.00nm          4.5mb
SVE    26.27 324 ePd   32 38.00   2.4
GBA    26.48 205 Pd    32 37.10  -0.8
      0.8s     5.00nm          4.3mb
SNY    26.82  71 eP    32 40.80   0.0
SSE    27.53  95 Pd    32 48.00   0.6
      1.0s    21.00nm          4.8mb
NRI    31.25 360 eP    33 20.00  -0.2
      1.4s    13.00nm          4.6mb
YAK    34.55  33 eP    33 52.50   3.5X
MOS    38.02 314 eP    34 19.00   0.6
                 e     35 48.00 486kmX
OBN    38.55 313 eP    34 24.00   1.1
      1.0s    17.00nm          4.7mb
TIK    39.18  19 eP    34 29.50   1.6
      0.6s    12.00nm          4.7mb
                 i     34 32.50  10km
VRI    45.65 300 ePd   35 22.50   1.5
UPP    48.65 321 iP    35 44.60   0.3
SPC    49.12 306 iP    35 49.30   0.9
OJC    49.15 308 eP    35 49.30   0.9
PSZ    49.67 305 ePc   35 56.90   4.4X
HFS    50.57 321 eP    35 58.60  -0.5
      0.4s     6.00nm          4.9mb
OHR    51.16 296 e(P)  36 02.00  -1.9
KSP    51.16 309 iP    36 04.30   0.6
ZST    51.39 306 eP    36 05.50   0.0
NB2    51.61 323 P     36 06.60  -0.4
      0.6s     7.70nm          4.8mb
PRU    52.48 308 iPc   36 13.80   0.1
      0.6s     8.10nm          4.8mb
                 i     36 17.20  11km
```

07d 03h

```
BRG     52.58 310 eP     36 11.80  -2.6
                i        36 42.50 131kmX
PTJ     52.85 303 eP     36 16.00  -0.6
CLL     53.02 310 iP     36 17.10  -0.6
        1.1s    11.00nm          4.7mb
KHC     53.34 308 P      36 20.50   0.4
        1.0s     5.40nm          4.5mb
                e        36 37.60  66kmX
GEC2    53.35 307 P      36 20.60   0.3
        0.7s     4.07nm          4.5mb
                e        36 24.20  12km
WET     53.77 308 iPd    36 24.00   0.8
KBA     54.16 305 iPc    36 25.40  -0.9
        0.6s     4.00nm          4.6mb
                i        36 28.90  12km
GRF     54.61 309 iPc    36 30.40   1.0
        1.3s    37.00nm          5.3mb
                epPd     36 33.60  10km
                esP      36 35.50
FUR     55.10 307 eP     36 33.80   0.8
        0.6s    19.00nm          5.3mb
WTTA    55.19 306 iPc    36 33.40  -0.5
        0.8s    13.60nm          5.0mb
                i        36 37.10  12km
WATA    55.20 306 iPc    36 33.40  -0.5
                i        36 37.10  12km
SQTA    55.47 306 iPc    36 35.40  -0.5
        0.7s     5.20nm          4.7mb
                i        36 38.90  11km
MOTA    55.50 306 iPc    36 35.50  -0.6
        0.9s    13.70nm          5.0mb
                i        36 39.00  11km
OGA     55.72 306 iPd    36 37.40  -0.3
OSS     56.35 306 ePc    36 41.80  -0.5
VDL     56.85 306 ePc    36 45.40  -0.5
SLE     56.98 308 ePc    36 46.40  -0.2
LLS     57.01 306 ePc    36 46.10  -0.9
TMA     57.38 306 ePc    36 48.40  -1.2
CDF     57.49 309 iPc    36 49.80  -0.5
        0.9s    11.30nm          4.9mb
MMK     57.98 306 P      36 53.30  -0.6
BSF     58.02 308 iPc    36 53.40  -0.5
        0.9s    20.45nm          5.2mb
HAU     58.22 308 eP     36 54.80  -0.5
        0.9s    12.30nm          5.0mb
DIX     58.33 306 ePc    36 56.30   0.0
DOU     58.46 311 P      36 39.20 -17.6X
EMS     58.64 306 ePc    36 58.00  -0.4
LPG     58.99 306 iPc    37 01.10   0.1
        0.9s    40.45nm          5.6mb
LPL     58.99 306 iPc    37 01.00   0.1
        0.9s    48.30nm          5.6mb
LOR     60.06 308 eP     37 07.00  -1.0
        1.0s    11.20nm          4.9mb
LBF     60.11 308 iPc    37 07.50  -0.9
        0.9s    16.70nm          5.2mb
SMF     60.34 308 iPc    37 09.30  -0.6
        0.9s    31.95nm          5.5mb
SSF     60.37 308 eP     37 09.30  -0.8
        1.1s    14.40nm          5.0mb
AVF     60.58 308 iPc    37 10.80  -0.7
        1.0s    22.80nm          5.3mb
EKA     60.61 319 Pc     37 12.50   0.9
        0.9s    12.50nm          5.0mb
BGF     60.99 308 eP     37 13.50  -0.9
        1.1s    15.15nm          5.0mb
MAF     61.32 308 iPc    37 16.50  -0.1
        1.0s    20.60nm          5.2mb
TCF     61.51 308 iPc    37 17.50  -0.4
        0.9s    28.15nm          5.4mb
MFF     62.81 309 eP     37 26.60   0.0
        1.4s    37.45nm          5.4mb
LFF     63.04 307 eP     37 27.90  -0.2
        0.8s    18.00nm          5.3mb
IMA     65.57  23 eP     37 44.05  -0.4
        1.0s    11.49nm          5.0mb
FBA     68.17  23 eP     38 00.57  -0.2
        0.8s    13.16nm          5.2mb
INK     69.20  16 eP     38 07.00   0.0
        1.0s     8.00nm          4.8mb
CRP     69.26  27 (P)    38 08.75   1.0
PMR     70.09  26 eP     38 12.25  -0.3
        1.0s    14.25nm          5.1mb
TOA     70.70  24 eP     38 16.80   0.4
WRA     71.97 135 P      38 24.20  -0.3
        0.7s    13.60nm          5.1mb
WR2     71.99 135 iPd    38 23.90  -0.7
        0.6s    25.50nm          5.5mb
BALM    72.71  23 eP     38 28.73   0.2
ASPA    74.74 138 iPc    38 40.20  -0.4
        0.7s    10.90nm          5.0mb
YKA     77.89  11 eP     38 57.50  -0.2
        0.8s    15.00nm          5.1mb
SIT     78.08  23 eP     38 59.69   0.9
        1.1s    11.51nm          4.9mb
STK     85.37 137 eP     39 37.00  -0.2
        1.1s     1.90nm          4.2mb
GMW     90.10  21 eP     40 01.11   1.0
RMW     90.46  20 eP     40 02.68   0.9
NEW     90.88  17 eP     40 04.09   0.4
        1.1s    11.73nm          5.1mb
LON     91.10  20 eP     40 05.86   1.1
RSSD    97.24   9 eP     40 34.04   0.9
        0.9s     4.88nm          5.1mb
CCH    149.75 306 PKP    46 52.00   5.8X
LPAZ   150.15 311 PKP    46 46.90  -0.3
LPB    150.32 310 PKP    46 47.00  -0.2
        1.9s    52.63nm
CNCB   150.47 310 PKP    46 48.20   0.6
NNA    150.88 330 ePKP   46 53.00   5.4X
        0.6s     6.67nm
     S.D. = 0.9  on  94 of 104 obs.
-----------------------------------
%  OCT  07, 1993  03h 27m 26.10± 1.51s
   38.491 S ±10.6km  175.712 E ± 8.6km
   DEPTH = 212.1 ± 14.1 km
 NORTH ISLAND, NEW ZEALAND        (159)

NGZ      0.69 187 P      27 55.70  -0.1
CNZ      0.72 190 P      27 55.80  -0.1
URZ      1.12  79 P      27 57.70  -0.5
                  S      28 16.90
WAHZ     1.31 158 P      27 59.70   0.1
                  S      28 20.40
TTH      1.36 141 eP     27 59.70  -0.3
BSZ      1.44 205 P      28 01.10   0.5
TEHZ     1.72 151 eP     28 03.20   0.0
PUZ      2.05  79 eP     28 06.80   0.5
                  eS     28 33.20
MNG      2.13 185 P      28 07.30   0.1
                  S      28 33.80
PGZ      2.17 169 P      28 07.70   0.2
KIW      2.45 194 P      28 10.60   0.0
CAW      2.66 191 P      28 13.00   0.1
MTW      2.67 183 P      28 12.70  -0.3
DIW      2.69 210 eP     28 13.50   0.2
MRW      2.85 195 P      28 14.90  -0.1
                  eS     28 48.20
BLW      2.88 184 P      28 15.30  -0.1
TCW      2.94 202 P      28 16.10   0.1
QRZ      3.39 225 eP     28 21.30  -0.1
LTZ      5.02 210 eP     28 41.40  -0.3
     S.D. = 0.3  on  19 of  19 obs.
-----------------------------------
?  OCT  07, 1993  03h 39m 30.68± 7.02s
   45.158 S ±23.5km  166.477 E ±56.1km
   DEPTH =  10.0km  (geophysicist)
 OFF W. COAST OF S. ISLAND, N.Z. (161)
      ML 3.8 (WEL).

MSZ      1.14  65 P      39 51.50  -0.5
                  S      40 06.90
TLC      1.84  92 P      40 02.30  -0.3
MMCZ     1.89  86 P      40 04.00   0.7
CMCZ     1.98  91 P      40 04.90   0.2
                  eS     40 27.10
MHZ      1.99  88 P      40 04.80   0.0
SBCZ     2.01  89 P      40 05.00   0.0
LRCZ     2.03  88 P      40 05.60   0.1
LSCZ     2.05  90 P      40 05.90   0.3
SIZ      2.07 147 eP     40 05.80   0.0
TUZ      2.36 111 eP     40 09.10  -0.9
BWZ      2.50  77 P      40 12.00   0.0
ODZ      2.95  89 P      40 17.10  -1.4
     S.D. = 0.6  on  12 of  12 obs.
-----------------------------------
&  OCT  07, 1993  03h 48m 06.57s
   37.566 N          118.872 W
   DEPTH =   7.2km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      <GM-P>. MD 2.8 (GM).

MEMM     0.11 332 ePd    48 09.35   0.2
MMPM     0.13 290 ePd    48 09.50  -0.2
MRCM     0.31  70 ePc    48 12.79  -0.2
MTUM     0.32 131 ePd    48 12.98  -0.3
BONR     0.60  49 eP     48 18.09  -0.5
CMB      1.29 292 eP     48 29.99  -0.7
                  eS     48 46.37
TNP      1.41  68 eP     48 31.84  -1.0
ARN      2.13 265 eP     48 43.48   0.5
BCH      2.57 203 (P)    48 48.77  -0.6
GSC      2.81 143 (P)    48 55.55   2.8
     10 obs. associated
-----------------------------------
*  OCT  07, 1993  04h 51m 32.76± 1.15s
   31.053 S ±21.1km   69.448 W ±19.7km
   DEPTH = 122.8 ± 22.3 km
 SAN JUAN PROVINCE, ARGENTINA     (137)
      MD 3.9 (SAN).

RTCB     0.70 128 ePc    51 52.00  -0.8
ZON      0.82 127 iPd    51 54.30   0.6
                  eS     52 06.30
RTLL     0.88 108 ePd    51 53.80  -0.5
CFA      1.17 118 ePd    51 57.00  -0.1
                  S      52 12.00
JACH     1.89 211 iPd    52 06.83   1.2
                  iS     52 31.14
ROCH     2.33 214 iPd    52 11.51   0.3
                  iS     52 39.64
PEL      2.33 206 iP+    52 11.40   0.3
                  iS     52 39.96
FCH      2.38 197 iP+    52 13.02   1.1
                  iS     52 42.56
RTPR     2.64  74 iPd    52 15.00   0.0
                  S      52 45.70
PCH      2.71 199 iPd    52 16.48   0.4
                  iS     52 49.35
TACH     2.88 206 iP     52 17.70  -0.6
LCCH     3.01 216 iPd    52 19.23  -0.7
CACH     3.21 197 eP     52 22.98   0.3
                  iS     53 00.13
LNV      3.34 209 iP+    52 22.38  -1.9
                  iS     52 59.31
CYA      4.11  52 iPc    52 35.00   0.3
                  S      53 21.20
     S.D. = 0.9  on  15 of  15 obs.
-----------------------------------
*  OCT  07, 1993  05h 08m 28.35± 0.72s
    6.189 N ± 7.2km  126.430 E ±14.1km
   DEPTH = 127.8 ±  9.1 km
   4.7mb (  6 obs.)
 MINDANAO, PHILIPPINE ISLANDS     (259)

BIP      2.03 355 iPd    09 02.50  -0.5
                  iS     09 29.00
CTB      2.43 295 ePd    09 09.00   0.9
                  iS     09 34.00
MNI      4.97 199 eP     09 36.50  -5.6X
                  eS     10 40.00
PLP      5.15 344 ePd    09 44.30  -0.1
TNE      5.43 170 iPd    09 47.80  -0.4
KNA     21.92 174 iPd    13 14.60   2.3X
LEM     22.79 236 iPc    13 23.50   2.5X
WRA     27.11 163 P      14 01.90   0.6
        0.6s     2.80nm          4.0mb
WR2     27.12 163 iPd    14 01.40   0.0
        0.3s     4.10nm          4.5mb
ASPA    30.56 166 eP     14 32.10   0.1
        1.0s     7.30nm          4.4mb
WARB    32.18 180 eP     14 36.40  -9.7X
        0.6s    25.00nm          5.2mb
MEEK    33.50 193 iPd    14 57.20  -0.4
BJI     34.94 346 eP     15 10.50   0.8
        1.0s    21.00nm          4.9mb
MRWA    36.61 195 iPc    15 24.00   0.1
        0.8s    57.00nm          5.4mb
BAL     37.75 194 iPc    15 33.80   0.3
GBA     48.75 283 Pd     17 01.00  -1.3
     S.D. = 0.7  on  12 of  16 obs.
-----------------------------------
   OCT  07, 1993  05h 58m 52.11± 0.70s
   45.926 N ± 4.1km  116.459 W ± 9.0km
   DEPTH =   5.0km  (geophysicist)
 WESTERN IDAHO                     ( 33)
      ML 2.9 (GS).

LVRI     0.98 180 P      59 11.24  -0.1
TPOR     1.00 206 P      59 11.48  -0.3
BDID     1.17 195 P      59 14.18  -0.3
```

```
LGOR    1.29 237 P     59 16.50  -0.1
SPVI    1.36 189 P     59 17.75   0.0
LIME    1.59 201 P     59 21.14   0.0
CPI     2.06 177 P     59 28.04   0.2
DPW     2.28 329 ePn   59 30.92  -0.2
NEW     2.38 349 ePn   59 32.43  -0.1
                eS     00 07.41
WPI     2.64 185 P     59 36.45   0.3
VGB     3.05 264 (P)   59 42.43   0.5
     S.D. = 0.3  on  11 of  11 obs.
-----------------------------------
   OCT  07, 1993  06h 03m 09.54± 0.42s
   32.295 S ±12.4km   69.772 W ±11.4km
   DEPTH = 130.0km  (geophysicist)
 MENDOZA PROVINCE, ARGENTINA     (139)
      MD 3.8 (SAN).

JACH    0.79 241 iPd   03 31.25   0.2
                iS     03 46.76
FCH     1.12 203 iP    03 34.37   0.1
                iS     03 52.48
RTCV    1.13  68 iPd   03 33.60  -0.5
                S      03 50.00
PEL     1.14 222 iP+   03 34.34   0.1
                iS     03 51.75
RTCB    1.15  46 ePd   03 34.50   0.1
                S      03 52.30
ROCH    1.24 237 iP+   03 35.50   0.1
                iS     03 54.29
PCH     1.46 205 iP+   03 37.62   0.0
RTLL    1.47  49 ePd   03 38.00   0.3
                S      03 54.50
CFA     1.47  63 ePc   03 37.50  -0.2
                S      03 57.60
TACH    1.67 216 iPd   03 40.02   0.0
                iS     04 02.52
LCCH    1.92 232 iPd   03 42.80  -0.1
CACH    1.95 201 iPd   03 44.08   0.7
                iS     04 09.33
LNV     2.15 219 iPd   03 44.89  -0.9
                iS     04 11.34
RTPR    3.43  55 ePd   04 02.50   0.1
                S      04 40.40
     S.D. = 0.4  on  14 of  14 obs.
-----------------------------------
   OCT  07, 1993  08h 55m 37.98± 1.17s
   31.032 N ± 9.3km  131.527 E ± 6.5km
   DEPTH =  39.3 ± 11.4 km
   4.6mb ( 17 obs.)
 KYUSHU, JAPAN                   (235)

KAGJ    0.57 286 iPd   55 49.80   0.2
                S      55 57.40
KUMJ    1.61 339 iP+   56 05.50   1.1
                S      56 29.00
SHNJ    3.10 354 eP    56 25.40  -0.2
TKSJ    3.63  35 P     56 33.60   0.4
YONJ    4.45  21 P     56 44.30  -0.5
WKYJ    4.68  46 P     56 46.80  -1.3
TSRJ    5.84  39 P     57 04.10  -0.3
MAT     7.82  44 eP    57 31.00  -1.1
      0.8s    10.45nm          4.9mb
                eS     00 00.00
SSE     8.87 273 P     57 47.00   0.4
      0.6s    17.00nm          5.3mb
    Z 16s      2.00um          4.2MszX
                pP     57 53.50
                sP     57 58.00
NJ2    10.86 279 eP    58 13.00  -0.9
    Z 16s      1.18um
SNY    12.52 332 eP    58 38.00   1.7
    Z 14s      1.94um
TIA    13.06 297 eP    58 46.30   2.8
      1.2s    51.00nm          5.4mb
CN2    13.62 341 eP    58 54.60   3.8X
      0.8s     9.40nm          4.7mb
    Z 16s      1.78um          4.6MszX
MDJ    13.65 354 eP    59 00.30   9.2X
BJI    15.38 310 eP    59 18.00   4.3X
      1.2s    41.00nm          4.5mb
    Z 12s      1.75um          4.1Msz
    E 12s      0.84um
TIY    17.10 298 Pd    59 39.50   3.8X
    Z 16s      1.66um
HHC    18.86 307 P     59 57.80   0.3
      1.2s    28.00nm          4.4mb
    Z 12s      1.20um          4.3MszX
XAN    19.29 285 P     00 01.00  -1.5
      1.0s    18.00nm          4.3mb
    Z 16s      1.47um          4.2MszX
    E 14s      1.10um
BTO    19.84 305 eP    00 07.00  -1.4
GTA    27.12 297 eP    01 17.40  -1.9
      1.0s    12.00nm          4.5mb
    Z 12s      0.96um          4.6MszX
CHTO   31.84 255 ePd   02 00.40  -1.1
      1.0s    19.25nm          4.9mb
NNT    34.58 245 eP    02 12.80 -12.4X
LEM    44.05 215 iPd   03 45.50   1.4
WRA    50.75 177 P     04 36.20   0.0
      1.0s     8.00nm          4.7mb
WR2    50.76 177 eP    04 35.40  -0.9
      0.7s     7.40nm          4.8mb
GBA    52.45 263 Pd    04 49.00  -0.3
CTA    52.76 163 eP    04 46.00  -5.4X
                e      04 52.00
ASPA   54.43 177 eP    05 04.20   0.5
      0.8s     5.80nm          4.7mb
STK    63.29 170 iPc   06 05.20   0.2
      3.0s     3.00nm          3.9mb
INK    63.34  24 eP    06 05.50   0.5
      0.6s     2.00nm          4.4mb
RES    70.29  12 eP    06 49.00   0.2
      1.0s     9.00nm          4.7mb
HFS    75.91 333 eP    07 19.90  -2.0
      0.4s     1.70nm          4.3mb
    Z 17s      0.14um          4.3MszX
                LR     39 51.00
GEC2   83.08 324 P     08 00.10  -0.8
      0.9s     1.58nm          4.1mb
ULM    88.84  28 eP    08 38.00   8.9X
PV10   90.83  43 iPd   08 41.33   2.3
PV08   90.92  43 (P)   08 41.81   2.3
     S.D. = 1.3  on  29 of  36 obs.
-----------------------------------
*  OCT  07, 1993  09h 15m 22.54± 0.90s
   20.741 S ±14.1km  168.889 E ±17.8km
   DEPTH =  33.0km  (normal)
   4.5mb (  7 obs.)
 LOYALTY ISLANDS                 (188)

DZM     2.63 239 iPd   16 01.90  -1.9
                iS     16 34.10
BKM     3.12 349 iP    16 11.80   1.3
                iS     16 49.50
BRS    16.13 243 ePd   19 11.50   3.0X
                e      19 15.00
                epP    19 36.50
ARMA   18.29 235 iPd   19 37.20   1.6
      0.9s    13.00nm          4.1mb
CTA    21.22 268 eP    20 10.00   2.1
                e      20 34.00
CNB    22.48 226 eP    20 24.00   3.6X
      1.0s    31.00nm          4.7mb
BWA    22.64 229 eP    20 20.90  -1.1
CAN    22.72 226 eP    20 23.70   0.8
TOO    26.32 225 eP    20 59.00   1.8
      0.5s     9.00nm          4.6mb
STK    26.79 240 eP    21 04.40   2.8X
WR2    32.35 265 eP    21 50.10  -1.1
      0.5s     2.60nm          4.4mb
                e      21 53.90
WRA    32.37 265 P     21 50.70  -0.7
      0.6s     2.10nm          4.2mb
ASPA   32.48 258 eP    21 51.70  -0.7
      0.6s    20.00nm          5.2mb
BJI    77.89 321 eP    27 17.00  -1.7
      0.6s     3.00nm          4.5mb
CHTO   78.98 295 eP    27 25.00  -0.1
MAIO  117.30 301 ePKP  34 04.00  -2.6X
BRG   144.06 333 ePKP  34 54.20  -2.0
                i      35 07.80
CLL   144.12 334 ePKP  34 55.00  -1.3
PRU   144.44 331 ePKP  34 56.00  -0.9
SKO   145.38 315 ePKP  34 58.50  -0.3
KHC   145.49 331 ePKP  34 59.40   0.6
      1.0s     8.90nm
                e      35 08.40
GEC2  145.64 331 PKP   34 59.70   0.5
      1.4s    13.63nm
GRF   146.10 334 ePKP  35 01.50   1.7
BCAO  146.94 245 iPKPc 35 03.70   1.5
      0.8s    11.00nm
LPL   151.26 333 ePKP  35 25.60  17.4X
      1.4s    17.00nm
LPG   151.26 333 ePKP  35 24.40  16.1X
      1.2s    14.90nm
     S.D. = 1.4  on  20 of  26 obs.
-----------------------------------
%  OCT  07, 1993  09h 25m 50.36± 1.18s
   40.568 N ±14.0km   21.796 E ± 9.6km
   DEPTH =  33.0km  (normal)
 GREECE                          (364)
      ML 2.2 (THE).

FNA     0.39 304 iPg   25 59.21  -0.1
                eSg    26 08.00
GRG     0.60  50 ePg   26 03.20   0.7
                eSg    26 17.32
LIT     0.71 131 ePg   26 04.24   0.3
                eSg    26 17.40
SOH     1.21  77 ePb   26 10.08  -1.0
                iSb    26 31.92
SRS     1.47  67 ePb   26 14.88   0.1
                eSb    26 36.72
     S.D. = 0.9  on   5 of   5 obs.
-----------------------------------
?  OCT  07, 1993  09h 29m 00.15± 1.88s
   39.136 N ±10.6km   27.679 E ±42.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.7 (ISK).

IZM     0.81 204 ePg   29 15.80   0.0
                eSg    29 27.80
BNT     1.23   9 ePn   29 23.00  -0.1
KGT     1.35 348 ePn   29 24.70  -0.2
MFT     1.68 350 ePn   29 30.00   0.3
     S.D. = 0.3  on   4 of   4 obs.
-----------------------------------
%  OCT  07, 1993  09h 33m 18.26± 0.64s
   43.082 N ± 7.6km    0.643 W ± 5.4km
   DEPTH =  10.0km  (geophysicist)
 PYRENEES                        (378)
      ML 1.0 (STR).

ATE     0.04 275 Pg    33 20.33  -0.1
                Sg     33 21.89
ESCF    0.05  94 Pg    33 20.36  -0.1
                Sg     33 21.76
ISSF    0.12 244 Pg    33 21.53   0.1
                Sg     33 24.06
MADF    0.14 296 Pg    33 21.63   0.0
                Sg     33 24.26
OGE     0.15  55 Pg    33 21.89   0.1
LHE     0.17 175 Pg    33 22.18   0.0
     S.D. = 0.1  on   6 of   6 obs.
-----------------------------------
*  OCT  07, 1993  09h 51m 26.19± 0.70s
   42.626 N ±10.6km  148.217 E ± 8.3km
   DEPTH =  33.0km  (normal)
   4.5mb ( 10 obs.)
 OFF COAST OF HOKKAIDO, JAPAN    (225)

KUSJ    2.62 282 iPd   52 05.90  -1.2
                eS     52 34.30
HOOJ    3.65 268 iPd   52 23.50   1.8
                S      53 04.10
ASAJ    4.33 292 P     52 32.60   1.2
MRRJ    5.28 270 P     52 45.70   0.9
                eS     53 42.90
OFUJ    6.10 237 P     52 55.70  -0.7
                S      54 00.90
YAMJ    7.66 237 P     53 16.60  -1.7
NIIJ    8.89 236 P     53 35.00  -0.3
CHJJ    9.70 230 P     53 45.40  -1.1
                S      55 28.40
MAT     9.82 235 eP    53 48.00  -0.2
      0.8s     8.21nm          5.0mb X
                eS     55 36.00
CN2    16.64 282 eP    55 15.60  -2.7
      0.6s     6.80nm          4.0mb
SNY    18.25 276 Pc    55 39.70   1.3
SSE    24.39 251 eP    56 47.30   4.8X
      1.0s    17.00nm          4.6mb
TIA    24.77 265 eP    56 48.00   1.9
XAN    31.76 268 eP    57 50.00   0.5
                pP     57 56.70  23kmX
IMA    39.18  33 eP    58 58.30   5.9X
      0.6s     3.20nm          4.3mb
RES    55.82  17 eP    01 07.50   5.5X
```

07d 10h

```
        1.0s     4.00nm          4.4mb
WR2    63.56 195 eP    01 56.40   0.7
        0.9s     3.10nm          4.4mb
WRA    63.56 195 P     01 57.00   1.3
        0.5s     3.10nm          4.7mb
LRM    66.51  49 eP    02 14.40  -0.5
GBA    66.80 267 Pd    02 17.50   0.7
        0.7s     6.00nm          4.8mb
NB2    70.93 339 P     02 41.20  -0.6
        0.7s     4.30nm          4.6mb
HFS    71.03 338 eP    02 40.80  -1.5
        0.5s     4.10nm          4.7mb
     Z  15s     0.04um          3.7MszX
                  LR    32 18.00
RSSD   72.18  46 eP    02 49.25  -0.5
        0.5s     2.46nm          4.5mb
PV10   73.19  53 iPc   02 56.55   0.7
     S.D. = 1.3  on  21 of  24 obs.
-----------------------------------
%  OCT  07, 1993  09h 55m 19.02± 1.96s
   38.152 S ± 9.1km  176.150 E ± 8.9km
   DEPTH = 219.3 ± 20.1 km
 NORTH ISLAND, NEW ZEALAND          (159)

WLZ     0.52 303 eP    55 48.20  -0.3
                eS    56 06.20
URZ     0.76  98 Pc    55 48.80  -0.9
                S     56 06.80
PAHZ    1.00 135 P     55 51.10   0.0
NGZ     1.11 203 P     55 51.80  -0.2
CNZ     1.15 204 P     55 51.90  -0.3
KUZ     1.44 346 Pd    55 55.20   1.0
WAHZ    1.55 174 Pc    55 55.50   0.2
NOZ     1.55 108 eP    55 56.50   1.3
PUZ     1.66  88 Pc    55 56.80   0.6
                eS    56 20.40
HBZ     1.79  73 P     55 55.60  -1.7
BSZ     1.90 210 P     55 58.60   0.3
TEHZ    1.91 165 P     55 59.00   0.6
PGZ     2.47 178 Pd    56 04.40   0.3
MNG     2.52 192 P     56 04.70   0.0
                eS    56 34.00
KIW     2.87 199 P     56 08.50  -0.1
MTW     3.04 189 P     56 10.30  -0.3
CAW     3.07 195 P     56 10.90   0.0
BLW     3.25 189 P     56 12.80  -0.2
MRW     3.27 199 P     56 13.00  -0.2
                eS    56 51.00
TCW     3.38 205 eP    56 14.50   0.0
     S.D. = 0.7  on  20 of  20 obs.
-----------------------------------
?  OCT  07, 1993  10h 06m 56.56± 2.19s
   40.948 N ±22.4km   29.723 E ±16.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)
     ML 2.7 (ISK).

HRT     0.13 198 ePg   06 59.80   0.0
EYL     0.50 139 iPg   07 06.80   0.0
                iSg   07 14.00
ISK     0.52 283 iPg   07 06.80  -0.2
                iSg   07 14.00
CTT     1.00 282 ePn   07 15.70   0.2
     S.D. = 0.3  on   4 of   4 obs.
-----------------------------------
%  OCT  07, 1993  10h 33m 38.09± 1.13s
   39.096 N ± 7.4km   27.614 E ±14.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)
     ML 2.7 (ISK).

IZM     0.75 202 ePg   33 52.80   0.0
                eSg   34 05.80
EZN     1.24 307 ePn   34 01.20   0.2
EDC     1.26   9 ePn   34 02.00   0.4
BNT     1.28  11 ePn   34 01.80   0.0
KGT     1.38 350 iPn   34 02.70  -0.6
     S.D. = 0.5  on   5 of   5 obs.
-----------------------------------
   OCT  07, 1993  10h 52m 57.00± 0.42s
   51.217 N ±10.7km  179.224 E ± 4.4km
   DEPTH =  33.0km  (normal)
   4.5mb ( 18 obs.)  4.4Msz (  1 obs.)
 RAT ISLANDS, ALEUTIAN ISLANDS      (  6)
     ML 4.5 (PMR).

ADK     2.64  74 eP    53 38.36   0.2
SMY     3.51 298 eP    53 52.50   2.0
SDN    12.81  63 eP    55 57.72  -1.5
KDC    17.60  57 (P)   56 57.99  -2.9X
TTA    17.71  39 (P)   57 03.32   0.9
CP2    18.62  46 eP    57 14.81   1.1
PMS    19.85  48 eP    57 27.70   0.0
PMR    20.14  47 (P)   57 29.71  -1.0
IMA    20.24  32 eP    57 31.83  -0.1
        0.6s     7.69nm          4.2mb
KLU    21.61  48 eP    57 46.37   0.6
TOA    21.63  46 eP    57 47.30   1.3
FBA    21.84  39 eP    57 48.20   0.2
INK    28.31  35 eP    58 49.50   0.5
        0.5s     2.00nm          4.1mb
YKA    36.24  46 eP    59 58.40   0.1
        0.4s     2.30nm          4.4mb
RMW    37.72  72 eP    00 12.28   1.3
LON    38.05  73 eP    00 14.02   0.2
NEW    40.10  68 eP    00 30.01  -0.8
        0.6s    10.05nm          4.8mb
LBFM   40.86  80 eP    00 38.81   1.5
BJI    44.19 281 eP    01 04.50   0.3
        1.0s     6.00nm          4.4mb
BONR   45.10  82 (P)   01 13.00   1.0
TNP    45.69  81 eP    01 17.34   0.8
        1.0s     7.02nm          4.5mb
TIA    45.95 276 eP    01 18.30   0.0
HVU    46.19  74 eP    01 20.71   0.3
HHC    46.54 285 P     01 24.00   0.9
        1.2s    16.00nm          4.9mb
DUG    47.11  76 eP    01 27.54  -0.1
        0.5s     3.18nm          4.6mb
BTO    47.62 286 eP    01 32.00   0.3
TIY    47.92 281 eP    01 34.80   0.8
DAU    47.93  74 (P)   01 34.68   0.4
MSU    48.54  77 eP    01 40.70   1.8
SRU    49.17  75 eP    01 43.67  -0.1
PV09   50.40  75 eP    01 52.86  -0.5
PV10   50.54  75 eP    01 54.09  -0.2
GOL    51.91  72 eP    02 04.78   0.1
        0.6s     5.53nm          4.7mb
XAN    52.47 280 P     02 08.40  -0.3
        1.0s     7.00nm          4.6mb
LZH    54.23 285 eP    02 22.00   0.2
        1.5s    40.00nm          5.2mb
GTA    54.47 291 eP    02 22.70  -0.8
        1.0s    12.00nm          4.9mb
     Z  20s     0.35um          4.4Msz
WMOK   59.13  72 eP    02 55.67  -0.9
        0.3s     1.25nm          4.5mb
LTX    59.90  80 eP    03 02.70   0.7
MIAR   62.34  69 (P)   03 17.09  -1.2
KAF    64.99 346 iP    03 33.30  -2.0
        0.2s     0.60nm          4.3mb
NB2    67.68 354 P     03 51.20  -1.3
        0.6s     2.70nm          4.5mb
HFS    68.39 352 eP    03 54.70  -2.1
        0.5s     2.10nm          4.5mb
     Z  17s     0.12um          4.2MszX
                  LR    29 36.00
JSC    69.53  61 (P)   04 02.91  -1.3
LHS    69.62  60 (P)   04 02.37  -2.4
WR2    81.04 222 eP    05 03.60  -6.3X
        0.9s     1.50nm          4.0mb
                  e    05 08.70
WRA    81.05 222 P     05 08.90  -1.0
        0.7s     0.90nm          3.9mb
GBA    86.74 288 P     05 39.00   0.1
     S.D. = 1.0  on  45 of  47 obs.
-----------------------------------
   OCT  07, 1993  11h 00m 30.42± 1.00s
   40.481 N ± 6.7km   21.294 E ± 8.6km
   DEPTH =   5.0km  (geophysicist)
 GREECE                             (364)
     ML 2.3 (THE).

FNA     0.31  12 ePg   00 36.68   0.0
                iSg   00 41.72
OHR     0.73 329 iPg   00 45.00  -0.1
                iSg   00 58.40
GRG     0.97  60 ePg   00 48.48  -0.8
                eSg   01 05.12
LIT     0.99 112 iPg   00 49.33  -0.4
                eSg   01 05.48
KNT     1.39  60 ePb   00 57.12   0.6
                eSb   01 18.60
SOH     1.60  77 ePb   01 00.04   0.5
                eSb   01 23.92
AGG     1.66 151 ePb   01 00.28  -0.1
                eSb   01 25.24
PAIG    1.91 106 ePn   01 04.12   0.2
                eSn   01 32.68
     S.D. = 0.5  on   8 of   8 obs.
-----------------------------------
%  OCT  07, 1993  12h 13m 47.07± 0.77s
   26.860 S ± 7.1km   26.853 E ± 7.5km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA           (584)
     ML 2.5 (PRE).

BFS     0.07 238 eP    13 49.80   0.9
                S     13 50.20
PRY     0.56  97 eP    13 58.50   0.2
                S     14 08.50
KSR     0.99   2 eP    14 06.00  -0.5
SEK     1.61 155 eP    14 16.50   0.1
                S     14 36.00
SLR     1.70  49 eP    14 18.10   0.4
                S     14 39.00
BLF     2.32 195 eP    14 25.50  -1.1
                S     14 51.50
     S.D. = 0.9  on   6 of   6 obs.
-----------------------------------
%  OCT  07, 1993  12h 30m 10.43± 3.19s
   39.750 N ±25.4km   29.445 E ±13.2km
   DEPTH =   5.0km  (geophysicist)
 TURKEY                             (366)
     ML 2.8 (ISK).

EYL     0.98  34 iPn   30 29.70   0.1
HRT     1.08   9 ePn   30 31.00  -0.3
BNT     1.32 298 ePn   30 35.00  -0.3
ISK     1.35 347 ePn   30 36.00   0.3
EDC     1.35 297 ePn   30 36.00   0.1
KGT     1.79 294 ePn   30 42.20   0.1
     S.D. = 0.3  on   6 of   6 obs.
-----------------------------------
*  OCT  07, 1993  13h 58m 22.55± 0.93s
   17.355 S ±22.4km  178.990 W ±15.9km
   DEPTH = 536.1 ± 11.2 km
   4.7mb ( 13 obs.)
 FIJI ISLANDS REGION                (181)

VUN     2.51 255 eP    59 35.80   1.7
AFI     7.75  65 eP    00 16.00  -2.4
BKM    12.18 267 iP    01 05.00   1.3
DZM    14.49 249 iPc   01 27.10   0.0
BRS    27.90 244 iPc   03 32.00   0.9
                ipP   03 46.00  57kmX
CTA    32.99 260 iPd   04 14.50  -0.2
        1.0s    20.00nm          4.7mb
CNB    33.33 231 iPd   04 17.80   0.4
        0.4s    36.00nm          5.3mb
CAN    33.60 232 iPd   04 19.40  -0.3
BWA    33.70 233 iPd   04 18.10  -2.4
TOO    37.09 230 iPd   04 49.00   0.5
        0.8s    78.00nm          5.4mb
STK    38.42 240 iPd   04 59.80   0.4
        0.4s    16.90nm          5.0mb
WR2    44.17 259 iPc   05 44.10  -1.3
        0.4s     9.70nm          4.7mb
WRA    44.19 259 P     05 44.50  -1.1
        0.8s     4.20nm          4.0mb
ASPA   44.41 254 iPd   05 46.80  -0.5
        0.7s    87.60nm          5.4mb
                eS    11 40.00
MTN    48.26 268 iPc   06 16.10  -0.7
        0.9s    93.00nm          5.3mb
WARB   50.95 250 iPd   06 24.50 -12.0X
        0.5s    14.00nm
MBL    57.58 256 iPd   07 22.40  -0.9
        0.2s     5.00nm          4.5mb
CSY    66.41 205 eP    08 20.70   1.0
        1.1s     8.60nm          4.2mb
BONR   79.16  45 iPc   09 34.95   1.7
PMR    82.20  14 (P)   09 48.44   0.5
        0.5s     5.44nm          4.3mb
RMW    82.33  35 eP    09 50.43   1.4
FBA    85.39  13 eP    10 00.86  -2.8
        0.4s     2.32nm          4.2mb
YKA    94.06  25 eP    10 44.50   0.6
        0.8s     1.90nm          4.3mb
CLL   144.80 347 iPKPc 17 00.40   0.9
        1.3s    17.00nm
```

```
BRG   145.00 346 iPKP  17 01.20   1.4
       1.2s     12.00nm
GEC2  146.94 345 PKP   17 06.80   3.6X
       0.6s      1.97nm
                  e     17 10.20
     S.D. = 1.4  on  24 of  26 obs.
-------------------------------------
%  OCT  07, 1993  14h 33m 45.38± 0.96s
   38.452 S ± 7.6km  175.727 E ± 5.9km
   DEPTH = 221.2 ±  9.1 km
 NORTH ISLAND, NEW ZEALAND        (159)

MOZ     0.73 266 P     34 16.30   0.2
NGZ     0.73 188 P     34 16.20  -0.1
CNZ     0.76 191 P     34 16.20  -0.2
URZ     1.10  80 P     34 17.30  -0.9
                eS     34 37.00
PAHZ    1.12 112 P     34 18.30  -0.1
WAHZ    1.34 159 Pc    34 20.10   0.1
                S      34 42.00
TTH     1.38 142 P     34 20.10  -0.2
BSZ     1.48 204 P     34 21.60   0.5
TEHZ    1.75 152 P     34 23.70   0.2
NOZ     1.82  96 P     34 24.50   0.4
MAHZ    1.84 114 eP    34 24.50   0.2
PUZ     2.03  80 eP    34 25.90  -0.2
                eS     34 52.10
MNG     2.17 185 P     34 27.60   0.1
                S      34 55.10
HBZ     2.20  68 P     34 28.30   0.5
PGZ     2.20 169 P     34 27.90   0.1
KIW     2.49 194 P     34 30.80  -0.1
CAW     2.70 191 P     34 33.20   0.0
MTW     2.71 184 P     34 32.90  -0.4
DIW     2.73 210 P     34 33.70   0.2
MRW     2.89 196 P     34 35.30   0.1
                S      35 09.40
BLW     2.92 184 eP    34 35.60   0.0
WEL     2.92 194 eP    34 35.80   0.1
TCW     2.98 202 P     34 36.40   0.2
QRZ     3.42 225 P     34 41.10  -0.4
                eS     35 21.80
THZ     3.95 212 eP    34 48.60   0.7
LTZ     5.06 210 P     35 01.50  -0.2
MQZ     5.74 203 P     35 09.20  -1.0
                S      36 10.60
ODZ     7.60 208 eP    35 34.60   0.4
     S.D. = 0.4  on  28 of  28 obs.
-------------------------------------
&  OCT  07, 1993  14h 35m 14.08s
   60.219 N          152.551 W
   DEPTH =  98.7km
 SOUTHERN ALASKA                  (  2)
     <AEIC>.

RED     0.23 331 eP    35 28.08   1.1
                eS     35 38.54
ILIM    0.25 236 iP    35 27.89   0.9
                eS     35 39.03
RS2     0.27 337 eP    35 28.40   1.2
REF     0.28 345 iP    35 28.24  -0.6
                eS     35 39.35
RDW     0.29 334 iP    35 28.39  -0.6
INE     0.30 238 iP    35 28.05  -0.9
                eS     35 39.77
INW     0.33 243 iP    35 28.27  -0.7
                eS     35 39.94
RDT     0.36  11 eP    35 28.33  -0.8
OPT     0.66 211 iP    35 30.70  -0.6
HOM     0.72 141 eP    35 31.67  -0.1
NKA     0.84  50 eP    35 33.99   1.1
BKG     0.87   9 eP    35 32.41  -0.9
BRLK    0.95 118 eP    35 32.05  -2.2
                eS     35 48.25
CNPM    0.96 136 iP    35 33.44  -0.8
                eS     35 48.95
AGU     0.97 208 eP    35 34.00  -0.5
AUW     0.97 209 eP    35 33.59  -0.8
CKL     0.99   6 iP    35 33.77  -0.9
                eS     35 49.87
SPU     1.00  14 iP    35 33.73  -1.0
                eS     35 49.67
CKT     1.00  10 eP    35 33.75  -1.0
CKN     1.02  10 eP    35 34.39  -0.6
BGL     1.05   4 iP    35 34.60  -0.8
CP2     1.06   8 iP    35 34.84  -0.8
CRP     1.07  10 ePc   35 34.20  -1.5
CGLM    1.12  14 iP    35 35.30  -0.9
SLKM    1.19  75 eP    35 35.68  -1.3
NCG     1.20   9 eP    35 36.55  -0.6
SUA     1.53  35 iP    35 40.43  -0.7
                eS     36 01.25
SEW     1.56  93 iP    35 39.61  -1.7
MPA     1.61  79 eP    35 40.74  -1.3
SVW     1.76 302 eP    35 42.19  -1.8
PMS     1.79  54 P     35 43.50  -1.0
                S      36 06.40
SKT     1.84  15 eP    35 43.70  -1.3
PWA     1.94  41 P     35 45.20  -1.1
PLRM    2.17  49 eP    35 47.51  -1.8
PWL     2.18  71 eP    35 47.15  -2.4
                eS     36 13.74
KNK     2.34  57 eP    35 49.27  -2.3
GHO     2.36  47 eP    35 49.89  -2.0
CUT     2.45  26 eP    35 51.85  -1.3
CFI     2.54  66 eP    35 53.49  -0.8
                eS     36 22.35
SML     2.60  50 iP    35 52.99  -2.2
SCM     3.01  55 eP    35 58.28  -2.6
KLU     3.49  66 eP    36 04.50  -2.8
        42 obs. associated
-------------------------------------
&  OCT  07, 1993  14h 53m 27.66s
   40.437 N          124.452 W
   DEPTH =   9.7km
 NEAR COAST OF NORTHERN CALIF.    ( 35)
      <GM-P>. MD 3.2 (GM). ML 3.5
      (BRK).

KMPM    0.25  94 ePd   53 33.36   0.3
FHC     0.51  44 iPc   53 38.50   0.5
                eS     53 43.41
LGPM    1.32  68 eP    53 50.37  -1.8
WDC     1.46  84 eP    53 52.25  -1.9
LBFM    2.14  64 eP    54 02.94  -1.3
MIN     2.18  92 eP    54 02.85  -1.8
LMEM    2.20  86 eP    54 03.54  -1.5
BBOR    2.78  28 P     54 12.02  -1.3
DBO     2.83  18 P     54 12.08  -1.7
HBO     3.76  24 P     54 26.10  -1.0
        10 obs. associated
-------------------------------------
   OCT  07, 1993  16h 35m 49.53± 0.17s
   14.117 S ± 3.9km   75.779 W ± 5.1km
   DEPTH =  44.9km  ( 49 depth phases)
   5.5mb ( 39 obs.)
 NEAR COAST OF PERU               (115)
      Mw 5.4 (HRV). Felt (V) at Ica;
      (IV) at Chincha and Pisco; (III)
      at Palpa and Lima.
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 17S, 23C
      Centroid Location:
      Origin Time        16:35:54.4 0.5
      Lat 13.51S 0.05 Lon  75.48W 0.11
      Dep  54.1 7.6 Half-duration  1.0
      Moment Tensor;   Scale 10**16 Nm
        Mrr=-0.29 0.83  Mtt=-6.06 0.76
        Mff= 6.35 1.48  Mrt=-6.80 0.69
        Mrf= 8.25 1.13  Mtf= 3.18 0.72
       Principal Axes:
        T  Val= 12.01  Plg=36  Azm=264
        N        1.39      33      146
        P      -13.40      37       27
      Best Double Couple:Mo=1.3*10**17
       NP1:Strike= 55 Dip=33 Slip=  -1
       NP2:       146     89     -123

NNA     2.36 334 iPd   36 27.50   0.9
       0.6s   366.67nm
LPAZ    7.69 107 Pd    37 44.70   2.3
       1.3s    90.00nm          5.5mb
     Z 25s    98.80um          5.0Msz
                LR     41 08.00
LPB     7.79 109 iPd   37 46.30   2.7
                i      38 04.40
                iS     39 14.00
                LR     40 50.00
CNCB    7.98 111 Pd    37 44.70  -1.7
                i      37 47.20
                S      39 14.10
CCH     9.84 111 P     38 12.10   0.4
YJA    12.63 131 e(P)  38 48.00  -1.6
HJA    13.35 134 ePd   38 59.70   1.0
SLA    14.33 139 ePc   39 12.60   1.0
PSO    15.29 354 eP    39 26.50   2.1
RTRS   17.01 161 ePc   39 47.20   1.4
CYA    17.01 149 iPd   39 47.00   1.1
RTPR   18.23 154 ePd   40 00.40  -0.6
RTLL   18.40 160 ePc   40 02.50  -0.6
RTCB   18.44 161 iPc   40 02.50  -1.1
ZON    18.53 161 eP    40 04.70   0.0
BOG    18.70   5 iP    40 10.00   2.9X
                eS     43 30.00
CFA    18.73 160 ePd   40 06.80  -0.3
RTCV   18.87 161 ePc   40 07.80  -1.0
PEL    19.50 167 iP+   40 14.80  -1.2
       1.0s   480.00nm          5.7mb
MDZ    19.72 162 eP    40 18.00  -0.4
                eS     40 37.20
MRA    20.40 155 ePc   40 24.20  -1.2
SDV    23.42  13 iPc   40 56.90   1.1
TOV    24.48  14 ePc   41 06.80   0.9
                iPP    41 09.30
PPD    24.53 112 eP    41 06.50   0.1
CAR    25.99  20 iP    41 20.00  -0.2
BAO    26.89  97 eP    41 28.00  -0.6
                e      41 30.90  10kmX
                i      41 36.80
                i      42 11.20
                e      50 46.70
BDF    26.98  97 eP    41 30.70   1.4
       1.2s     0.65nm          3.1mb X
                e      49 57.20
RSTA   27.27 117 eP    41 32.60   0.8
VAO    28.66 112 eP    41 46.10   1.6
                e      41 50.50
                e(pP)  41 57.00  41km
                e(S)   46 27.00
VAO2   29.09 112 eP    41 41.60  -6.8X
SJG    33.40  17 eP    42 24.67  -1.5
       0.9s    79.60nm          5.6mb
SOB1   34.49  86 eP    42 35.50  -0.2
PPM    39.92 325 iP    43 26.30   4.5X
PRM    48.34 353 eP    44 27.41  -1.3
MYNC   49.56 351 eP    44 36.84  -1.3
       2.2s   144.17nm          5.6mb
     Z 20s     0.47um          4.5Msz
CEH    49.83 356 eP    44 39.14  -1.0
       0.9s    32.32nm          5.4mb
OXF    50.07 345 eP    44 40.40  -1.5
GBTN   50.15 351 eP    44 41.12  -1.5
LTX    50.90 328 eP    44 47.72  -0.8
                epPd   45 00.45  46km
UYO    51.20 340 iPc   44 50.50  -0.1
MIAR   51.27 341 eP    44 50.40  -0.7
       0.8s    42.27nm          5.5mb
     Z 20s     0.20um          4.1Msz
                epP    45 02.77  45km
                e      46 15.54
                S      52 03.15
                P'P'   15 43.51
NAV    51.37 355 eP    44 50.61  -1.3
                epP    45 03.22  46km
CVL    51.88 357 (P)   44 54.19  -1.5
ELC    52.67 347 (P)   44 59.25  -2.4
TUL    53.24 340 iP    45 05.10  -0.7
MEO    53.24 337 iPd   45 04.70  -1.2
WMOK   53.27 336 eP    45 04.73  -1.4
       1.8s   213.08nm          5.9mb
     Z 21s     0.25um          4.2Msz
FVM    53.62 346 eP    45 07.17  -1.4
       0.9s    31.49nm          5.3mb
     Z 18s     0.57um          4.7Msz
GMTN   54.74   1 iP    45 16.60  -0.1
GPD    54.87   1 eP    45 16.76  -0.9
TBR    55.00   1 eP    45 18.29  -0.3
                epP    45 31.14  46km
ACO    55.14 337 e(P)  45 14.70  -5.1X
LSCT   55.56   2 eP    45 22.32  -0.4
       1.4s    85.78nm          5.6mb
     Z 20s     0.79um          4.8Msz
BINY   56.03 360 eP    45 25.48  -0.6
       1.6s   175.24nm          5.8mb
     Z 20s     0.53um          4.6Msz
YSNY   56.37 358 eP    45 27.55  -1.0
       1.0s    81.84nm          5.7mb
     Z 20s     0.30um          4.4Msz
HRV    56.47   4 P     45 40.00  10.8X
     Z 18s     0.30um          4.4Msz
```

07d 16h

ALQ	56.82	330	eP	45 31.89	-0.2
	1.6s	146.17nm			5.8mb
	Z 21s	0.22um			4.2Msz
			epP	45 44.75	46km
			ePcP	46 28.09	
TUC	57.04	325	ePc	45 34.23	0.6
	1.3s	51.24nm			5.4mb
	Z 21s	0.44um			4.5Msz
LBNH	58.18	3	P	45 50.00	8.8X
	Z 20s	0.51um			4.6Msz
RSNY	58.39	1	eP	45 40.93	-1.8
	0.9s	29.47nm			5.4mb
			epP	45 53.65	45km
GAC	59.54	0	eP	45 50.00	-0.6
GLA	59.92	322	eP	45 54.45	0.9
			epP	46 06.42	42km
GLD	60.20	334	iPc	46 08.57	13.0X
GOL	60.22	334	eP	45 55.04	-0.7
	1.6s	140.96nm			5.8mb
	Z 21s	0.47um			4.6Msz
			epP	46 07.54	44km
LMN	60.50	9	eP	45 57.50	0.2
			pP	46 10.00	44km
PV08	60.78	331	eP	46 00.72	1.0
			epP	46 12.50	41km
			ePcP	46 57.15	
PV10	60.80	330	eP	45 59.77	0.0
			epP	46 11.87	42km
CBM	61.15	6	P	46 10.00	8.4X
	Z 20s	0.42um			4.6Msz
PLM	61.35	321	eP	46 04.08	0.6
PEC	61.90	321	(P)	46 07.63	0.6
	1.3s	81.28nm			5.7mb
			epP	46 20.58	46km
SRU	62.10	330	ePd	46 08.15	-0.3
			epPc	46 21.27	46km
			esP	46 26.53	
SSK	62.44	321	(P)	46 11.25	0.5
			epP	46 24.50	47km
MSU	62.46	328	eP	46 11.00	0.1
			ipP	46 24.00	46km
			ePcP	47 04.21	
ARUT	62.57	327	ePd	46 12.35	0.8
			ipPc	46 25.47	46km
GSC	62.66	323	eP	46 13.36	1.3
			epP	46 25.68	42km
EMUT	62.79	330	(P)	46 12.92	-0.1
RSSD	63.43	338	eP	46 17.45	0.3
	1.4s	70.98nm			5.6mb
			ipP	46 29.59	42km
DAU	63.46	330	eP	46 17.49	-0.1
			ipP	46 31.02	48km
TPNV	63.50	324	eP	46 17.89	0.2
	1.0s	50.97nm			5.6mb
			epP	46 31.21	47km
ABL	63.80	321	eP	46 20.55	0.8
			epP	46 31.61	37km
ISA	63.90	322	eP	46 20.41	0.2
	1.7s	115.02nm			5.7mb
	Z 20s	0.20um			4.3Msz
			epP	46 33.72	47km
DUG	64.06	329	eP	46 21.19	-0.1
	1.2s	42.94nm			5.4mb
	Z 20s	0.26um			4.4Msz
BCH	64.55	321	eP	46 24.74	0.2
			ipP	46 38.09	47km
TNP	64.84	325	eP	46 26.73	0.2
	0.6s	14.44nm			5.2mb
			ipP	46 40.34	48km
HVU	65.25	330	eP	46 28.62	-0.3
			ipP	46 41.92	47km
BONR	65.37	324	eP	46 30.65	0.7
			epP	46 43.73	45km
MEMM	65.54	323	eP	46 32.43	1.8
			epP	46 45.60	46km
MMPM	65.55	323	eP	46 31.18	0.0
			ipP	46 45.16	50km
PTI	65.90	331	eP	46 33.62	0.5
			ipP	46 46.39	44km
ULM	66.48	346	eP	46 43.00	6.5X
CMB	66.63	323	ePc	46 38.34	0.6
	1.6s	49.83nm			5.3mb
	Z 20s	0.16um			4.2Msz
ARN	66.86	322	eP	46 39.63	0.4
			ipP	46 53.02	47km
COE	66.88	321	eP	46 40.61	1.3
			epP	46 53.13	43km

JAQ	67.64	0	eP	46 44.00	0.3
LRM	68.23	333	eP	46 48.30	0.4
			e	47 00.70	42km
ORV	68.29	323	ePc	46 48.69	0.6
			ipP	47 02.13	47km
WDC	69.56	324	P	47 10.00	14.1X
	Z 19s	0.21um			4.4Msz
LBFM	69.70	325	eP	46 57.15	0.1
			ipP	47 10.05	44km
LGPM	69.95	324	ePc	46 58.27	-0.1
			epP	47 11.67	47km
KMPM	70.38	323	(P)	47 01.34	0.3
FHC	70.54	323	eP	47 04.11	2.2
	1.1s	116.53nm			5.8mb
			ipP	47 15.65	38km
VIPM	71.16	328	P	47 20.09	14.3X
SNA	71.24	160	iPc	47 04.00	-1.6
	1.0s	44.00nm			5.4mb
JBO	71.43	329	P	47 21.76	14.6X
CROR	71.68	328	P	47 23.30	14.5X
VGB	71.94	328	(P)	47 10.73	0.5
			ipP	47 24.71	49km
VBEM	72.04	328	P	47 25.43	14.4X
NEW	72.16	332	eP	47 11.32	-0.2
	1.1s	63.82nm			5.5mb
			ipP	47 25.09	48km
WAH2	72.21	330	P	47 25.92	14.2X
SSOR	72.36	327	P	47 26.36	13.5X
DPW	72.36	332	eP	47 13.61	0.9
			ipP	47 27.00	46km
ASR	72.79	329	P	47 29.85	14.5X
SAW	72.80	331	P	47 29.41	14.1X
EBG	72.80	330	P	47 30.12	14.8X
LIC	73.03	79	P	47 17.92	0.7
	1.1s	16.50nm			4.9mb
	Z 22s	0.98um			5.0Msz
WTV	73.06	331	P	47 31.03	14.2X
SHW	73.15	328	eP	47 19.98	2.5
LON	73.31	329	eP	47 19.49	1.2
			epP	47 31.37	40km
			esP	47 38.08	
KIC	73.34	79	P	47 16.48	-2.6
	0.8s	14.50nm			5.0mb
KMOR	73.42	327	P	47 33.32	14.3X
LKO	73.48	75	P	47 19.06	-0.8
	1.0s	15.50nm			4.9mb
RMW	73.79	329	(P)	47 21.49	0.4
			ipP	47 34.71	46km
BMW	73.84	328	eP	47 21.94	0.5
			ipP	47 35.83	49km
GMW	74.34	329	eP	47 24.97	0.8
			ipP	47 38.23	46km
JCW	74.36	330	P	47 37.47	13.2X
MCW	75.13	330	eP	47 29.08	0.3
			ipP	47 42.87	48km
STW	75.19	329	P	47 44.09	15.1X
SPA	75.98	180	iPc	47 32.30	-1.2
	1.1s	225.00nm			6.0mb
NVL	75.99	160	iPc	47 33.00	-0.3
	1.6s	103.00nm			5.5mb
			iPcP	47 47.00	
			ePP	50 30.00	
			ePPP	52 20.00	
			e	53 25.00	
			eS	57 13.00	
			e	57 37.00	
			e	57 51.00	
			e	58 03.00	
FRB	77.82	3	eP	47 55.00	11.6X
	1.0s	9.00nm			
AVE	80.38	52	iP	47 56.00	-2.0
			i	48 28.50	128kmX
SBA	81.83	191	eP	48 06.20	1.4
YKA	82.17	343	eP	48 06.90	0.2
	1.2s	6.80nm			4.6mb
EVAL	82.61	48	eP	48 10.00	0.4
EJIF	83.10	50	eP	48 12.00	-0.1
EPRU	83.47	49	eP	48 19.20	5.2X
EHOR	83.80	49	eP	48 16.80	1.2
MAL	83.99	50	iPd	48 19.50	2.9X
HON	88.01	292	P	48 50.00	13.4X
	Z 20s	0.36um			4.8Msz
RES	89.43	355	eP	48 40.50	-1.8
	1.0s	6.00nm			4.9mb
EPF	89.66	45	eP	48 58.40	14.2X
	1.3s	23.10nm			
AKU	90.33	20	iP	48 41.40	-5.3X

	1.8s	127.27nm			6.0mb
LPF	90.47	40	eP	49 01.00	13.3X
	1.1s	22.20nm			
MFF	90.55	42	eP	49 01.60	13.5X
	1.2s	23.80nm			
LFF	90.57	44	eP	49 01.70	13.5X
	1.1s	39.30nm			
GRR	90.71	40	eP	49 01.90	13.1X
	1.2s	29.75nm			
LPO	90.79	44	eP	49 02.70	13.4X
	1.1s	17.85nm			
FLN	91.08	40	eP	49 03.90	13.4X
	1.1s	26.60nm			
	Z 25s	0.45um			4.8MszX
LDF	91.24	40	eP	49 04.70	13.5X
	0.9s	17.70nm			
CAF	91.46	44	eP	49 05.80	13.4X
	1.1s	14.40nm			
LSF	91.52	43	eP	49 06.00	13.4X
	1.0s	19.40nm			
INK	91.86	342	eP	48 54.50	0.8
	1.0s	6.00nm			5.0mb
			pP	49 08.00	45km
TCF	91.98	43	eP	49 09.00	14.2X
	1.0s	11.20nm			
MAF	92.20	43	eP	49 09.10	13.4X
	1.0s	17.60nm			
AVF	92.89	43	eP	49 11.90	13.0X
	1.1s	9.30nm			
SSF	93.07	42	eP	49 12.70	13.0X
	0.8s	6.70nm			
KLU	93.13	333	(P)	49 00.42	0.7
			ipP	49 13.25	42km
MAW	93.17	165	iPd	48 59.40	-0.5
	0.9s	17.40nm			5.5mb
	Z 21s	0.70um			5.1Msz
			ipP	49 13.20	46km
			eS	00 07.40	
SMF	93.17	43	eP	49 13.40	13.2X
	0.8s	10.50nm			
MBC	93.85	350	ePd	49 03.80	1.1
			PcP	49 04.70	
			pP	49 17.70	47km
			SP	49 21.20	
			PP	52 50.90	
PMR	94.58	333	P	49 20.00	13.7X
	Z 18s	0.25um			4.7Msz
LPL	94.79	44	eP	49 22.20	14.3X
	1.1s	11.70nm			
LPG	94.79	44	eP	49 22.40	14.3X
	1.4s	26.55nm			
BCAO	95.24	87	ePd	49 11.50	1.0
	0.7s	9.00nm			5.3mb
			i	49 43.50	122kmX
FBA	95.25	336	eP	49 07.02	-2.3
	1.1s	16.91nm			5.4mb
			ipP	49 23.11	56kmX
CDF	95.89	42	eP	49 26.00	13.2X
	0.9s	5.10nm			
IMA	97.95	336	eP	49 20.46	-1.3
	1.4s	10.61nm			5.2mb
BUL	98.26	113	iPc	49 39.20	15.1X
WTTA	98.49	43	iP	49 35.00	10.4X
	1.1s	34.60nm			
			i	49 39.30	13kmX
GRF	98.70	41	ePDIF	49 41.50	16.2X
KBA	99.60	44	iP	49 37.60	7.9X
			i	49 50.10	
KHC	100.11	42	ePdiff	49 46.50	14.6X
	1.0s	5.40nm			
			e	50 23.70	
			e	50 50.50	
GEC2	100.14	42	Pdiff	49 32.40	0.3X
	1.0s	2.32nm			4.7mb
BRG	100.64	40	ePdiff	49 48.20	14.1X
OBN	114.24	36	ePKP	54 26.00	0.3
	Z 24s	0.40um			4.9MszX
	E 26s	0.40um			
			e	54 41.00	
SVE	126.08	28	ePKP	54 46.80	-1.5
YAK	128.81	345	ePKP	54 52.40	-0.9
			i	55 07.00	
ASPA	132.54	218	iPKPd	55 00.70	-1.0
MAIO	134.40	53	ePKP	55 06.00	1.1
WR2	135.00	222	ePKP	55 04.70	-1.7
	0.8s	10.60nm			
WRA	135.02	222	PKP	55 04.30	-2.1X

```
       0.7s    10.10nm
WB5   135.04 222 ePKP  55 05.20  -1.3
                 ipPKP 55 21.00
MAT   142.33 313 ePKP  55 28.00   8.6X
ZAK   143.82   1 ePKP  55 19.00  -2.4X
       1.4s    16.00nm
                 e     55 33.00
KSH   144.60  39 ePKP  55 24.00   0.7
    Z  24s     0.67um          5.3MszX
CN2   145.28 333 ePKP  55 21.80  -2.4X
                 epPKP 55 36.40
WKYJ  145.29 311 ePKP  55 38.60  14.0X
TLE   145.55 237 ePKPc 55 26.20   0.7
YONJ  146.35 314 ePKP  55 40.60  14.4X
TKSJ  146.53 311 ePKP  55 41.30  14.8X
WMQ   147.19  22 PKP   55 27.50   0.1
                 pPKP  55 44.00
SNY   147.69 332 ePKP  55 28.50   0.4
                 sPKP  55 44.90
POO   150.55  77 ePKP  55 41.50   8.2X
DL2   150.92 331 ePKP  55 38.50   5.3X
NDI   151.07  56 ePKP  55 40.00   6.3X
BJI   152.13 340 ePKP  55 41.00   6.1X
HHC   152.61 348 PKP   55 37.00   1.2
BTO   153.14 350 ePKP  55 43.40   6.9X
KOD   153.57  95 ePKP  56 01.00  22.9X
GBA   153.99  88 PKP   55 46.00   7.8X
GTA   154.51   8 ePKP  55 39.20   0.7
TIA   155.14 335 ePKP  55 40.00   0.8
SSE   157.01 320 PKPd  55 54.50  12.7X
       1.6s    50.00nm
                 sP    56 08.50
XAN   159.71 349 PKP   55 45.00   0.1
                 sPKP  55 59.50
LSA   160.34  36 PKPc  55 48.40   2.1X
WHN   161.18 332 ePKP  55 47.50   1.1
CD2   163.28   1 PKP   55 50.80   2.2X
KMI   168.96   7 PKPd  55 54.50   1.0
                 sPKP  56 08.50
CHTO  173.11  47 ePKPd 55 55.00  -0.3
     S.D. = 1.1  on 138 of 209 obs.
-----------------------------------
?  OCT  07, 1993  16h 39m 17.69± 1.74s
   61.205 N ±13.9km    7.205 E ±17.4km
   DEPTH =   5.0km  (geophysicist)
 SOUTHERN NORWAY                  (535)
      MD 1.8 (BER).

HYA     0.49 266 eP    39 27.62   0.0
ASK     1.22 235 eP    39 40.75  -0.1
EGD     1.35 227 eP    39 43.12   0.1
                 eS    40 02.19
MOL     1.38   7 eP    39 43.54   0.0
                 eS    40 02.42
     S.D. = 0.1  on   4 of   4 obs.
-----------------------------------
*  OCT  07, 1993  17h 01m 41.56± 1.03s
   31.162 S ±18.5km   68.467 W ±12.4km
   DEPTH = 100.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA     (137)

RTLL    0.17 181 iPd   01 56.00  -0.2
                 S     02 06.00
ZON     0.42 205 iPd   01 56.70  -0.4
                 eS    02 07.70
RTCB    0.43 221 iPd   01 57.50   0.3
                 S     02 08.00
CFA     0.49 156 iPc   01 57.90   0.4
                 S     02 10.00
RTPR    1.89  64 iPc   02 13.20   0.0
MRA     2.66 119 ePc   02 23.30  -0.1
                 S     02 50.50
     S.D. = 0.4  on   6 of   6 obs.
-----------------------------------
   OCT  07, 1993  17h 29m 56.64± 0.58s
   41.196 N ± 6.2km   21.977 E ± 4.0km
   DEPTH =   5.0km  (geophysicist)
 NORTHWESTERN BALKAN REGION       (383)
      ML 2.2 (THE).

GRG     0.40 126 iPg   30 04.73   0.0
                 eSg   30 10.52
FNA     0.61 228 iPg   30 08.84  -0.1
KNT     0.70  92 ePg   30 10.08  -0.5
                 eSg   30 20.00
SKO     0.87 333 ePg   30 14.20   0.3
                 i     30 26.00
OHR     0.89 265 ePg   30 14.00  -0.3
                 eSg   30 28.50
SOH     1.11 109 iPg   30 18.24   0.3
                 eSg   30 33.16
LIT     1.16 160 ePb   30 19.08   0.3
                 eSb   30 36.52
SRS     1.22  93 ePb   30 19.80  -0.1
     S.D. = 0.3  on   8 of   8 obs.
-----------------------------------
*  OCT  07, 1993  17h 58m 49.34± 2.32s
   37.831 S ±16.0km  176.281 E ± 9.4km
   DEPTH = 224.7 ± 17.8 km
 NORTH ISLAND, NEW ZEALAND        (159)

UTU     0.35 191 P     59 18.80  -0.2
TAZ     0.44 156 P     59 18.90  -0.3
PATZ    0.55 182 P     59 19.50  -0.2
URZ     0.78 123 Pc    59 19.50  -1.2
                 S     59 37.40
PAHZ    1.19 150 P     59 22.80  -0.5
NGZ     1.45 201 P     59 25.90   0.6
CNZ     1.48 203 P     59 25.90   0.4
PUZ     1.58  99 P     59 26.00  -0.3
                 S     59 48.40
NOZ     1.59 120 P     59 26.70   0.4
HBZ     1.62  82 P     59 27.10   0.6
TTH     1.76 166 P     59 28.40   0.6
MAHZ    1.85 138 P     59 29.10   0.5
WAHZ    1.87 178 Pc    59 28.90   0.1
TEHZ    2.19 169 P     59 32.10   0.1
BSZ     2.23 208 P     59 33.20   0.9
MNG     2.85 192 Pc    59 39.00   0.0
                 S     00 11.70
KIW     3.21 199 P     59 42.90  -0.2
MTW     3.38 190 P     59 44.60  -0.5
CAW     3.41 196 P     59 45.10  -0.3
DIW     3.49 211 eP    59 46.60   0.2
BLW     3.59 190 P     59 47.00  -0.6
MRW     3.61 199 eP    59 47.40  -0.4
                 S     00 28.30
TCW     3.72 204 P     59 49.20   0.1
     S.D. = 0.5  on  23 of  23 obs.
-----------------------------------
   OCT  07, 1993  17h 59m 38.41± 0.17s
   36.443 N ± 3.9km   70.628 E ± 2.8km
   DEPTH = 216.2km  ( 10 depth phases)
   4.9mb ( 64 obs.)
 HINDU KUSH REGION, AFGHANISTAN   (718)

KSH     5.19  53 P     00 56.10  -0.2
                 S     01 55.00
FRU     7.08  25 iPnd  01 20.00  -0.5
MAIO    8.98 272 iPnd  01 43.30  -2.0
       0.8s    82.36nm          5.0mb
                 eSn   03 11.00
NDI     9.52 142 iPd   01 50.50  -1.7
       0.5s   260.56nm          5.7mb
                 iS    03 30.00
ASH     9.91 282 iPc   01 55.50  -1.7
       0.9s   360.00nm          5.6mb
                 S     03 42.00
WMQ    14.98  55 iPd   02 59.00  -1.9
       1.5s    87.00nm          5.0mb
     Z  16s     0.52um          3.8Msz
                 pP    03 03.00
                 S     05 44.00
                 PcS   11 33.00
SHI    16.61 251 iPd   03 21.50   0.6
POO    18.07 170 iPd   03 41.30   4.9X
                 iS    07 29.00
LSA    18.45 105 iPc   03 42.00   1.3
       0.8s    34.00nm          4.9mb
TAB    19.40 282 eP    03 55.00   4.9X
DHR    20.17 246 eP    03 57.60   0.0
GRO    20.30 298 eP    04 00.00   1.2
       2.0s   240.00nm          5.4mb
MTA    20.69 293 iP    04 06.00   3.3X
       0.6s    60.00nm          5.3mb
ERE    20.81 288 eP    04 07.00   2.9
                 i     05 10.00
SHL    21.16 115 iP    04 09.00   1.4
       0.7s    42.81nm          5.1mb
                 iS    07 51.00
SVE    21.45 345 iPd   04 11.30   1.2
       2.2s   100.00nm          5.0mb
                 e     05 13.90
ARU    21.55 342 eP    04 12.50   1.5
                 e     05 16.00
PYA    22.30 298 iP    04 27.00   8.6X
       1.0s   100.00nm          5.3mb
                 i     04 52.00 122kmX
                 eS    08 11.00
UER    22.51  40 iP    04 19.60  -0.7
       1.3s    40.00nm          4.8mb
GTA    23.17  74 Pc    04 28.40   1.4
       1.0s    24.00nm          4.7mb
GBA    23.55 163 P     04 31.80   1.2
       0.6s    17.00nm          4.8mb
                 S     09 03.00
RYD    23.68 247 eP    04 32.50   0.6
MJMA   24.05 251 eP    04 35.33   0.0
QASM   25.28 254 eP    04 48.67   2.0
ANN    26.50 299 eP    04 57.00  -0.5
                 e     05 40.00 218km
LZH    26.71  81 eP    05 00.00   0.3
KOD    26.82 165 eP    05 02.00   1.1
ZAK    27.26  49 iP    05 04.50   0.3
CD2    28.03  92 eP    05 12.40   0.9
       1.0s    26.00nm          4.9mb
MOS    29.52 321 eP    05 25.00   0.7
       1.0s    80.00nm          5.4mb
                 e     06 30.00 346kmX
KMI    29.68 103 eP    05 26.00  -0.3
OBN    29.76 320 iPc   05 27.00   0.5
       0.8s    60.00nm          5.3mb
                 e     06 10.00 213km
                 e     06 32.00
CHTO   30.46 118 eP    05 33.20   0.2
BTO    30.92  70 eP    05 37.40   0.5
XAN    31.23  83 P     05 37.70  -1.9
       0.8s    10.00nm          4.5mb
BDT    31.54 120 eP    05 43.50   1.1
       0.6s    17.90nm          4.9mb
HHC    32.06  69 P     05 47.50   0.6
GYA    32.15  98 iPc   05 47.80   0.0
       1.0s    22.00nm          4.7mb
                 pP    06 30.00 205kmX
                 PcP   08 30.40
                 S     10 44.00
KHT    32.98 124 iPc   05 55.30   0.5
TIY    33.18  75 eP    05 57.10   0.6
CIT    33.94  49 eP    06 02.20  -0.6
ISR    34.13 299 eP    06 07.00   2.5
NRI    34.37  11 iPc   06 06.30   0.1
       0.9s   104.00nm          5.5mb
                 e     06 51.00 216km
                 e     07 13.00
                 e     07 26.00
MLR    34.55 299 ePc   06 09.00   0.9
NNT    35.32 125 eP    06 15.20   0.5
TIA    37.18  76 eP    06 30.40   0.3
KAF    37.51 327 iP    06 33.10   0.5
       0.3s    12.10nm          5.0mb
NUR    37.70 324 iP    06 34.60   0.4
       0.4s    48.10nm          5.4mb
SDF    39.77 335 iP    06 51.30   0.1
UPP    40.93 322 iP    07 01.00   0.2
KSP    40.94 308 ePd   07 01.90   0.9
PRU    42.09 307 P     07 11.50   1.1
IPM    42.25 131 ePc   07 12.80   0.8
       0.9s    61.40nm          5.1mb
BRG    42.42 308 iP    07 14.10   1.0
                 e     07 59.00 210km
GEC2   42.72 305 P     07 16.20   0.6
       0.9s     1.92nm          3.6mb X
                 e     07 18.30   7kmX
KHC    42.77 306 eP    07 16.50   0.5
                 e     08 06.00 234kmX
                 e     09 12.50
                 e     09 39.00
HFS    42.93 322 eP    07 16.90  -0.1
       0.5s    33.00nm          5.0mb
CLL    42.99 309 e(P)  07 17.00  -0.7
YAK    44.20  35 iPc   07 26.20  -1.0
       0.8s    41.00nm          4.9mb
                 i     08 13.00 218km
                 eS    13 43.00
NB2    44.25 323 P     07 27.00  -0.7
       0.7s    29.90nm          4.8mb
NAO    44.41 323 P     07 26.82  -2.1
KGM    45.66 131 eP    07 39.50   0.2
TIK    45.93  22 iPc   07 42.00   1.2
       1.0s   200.00nm          5.5mb
                 epP   08 28.00 213km
```

07d 18h

```
                e     08 51.00
                e     09 14.00
                e     10 27.00
                eS    14 10.00
CDF    47.00 305 eP   07 49.60   0.0
       0.6s     2.45nm          3.8mb X
PGF    47.03 297 eP   07 49.30  -0.6
       0.6s     5.25nm          4.1mb
BSF    47.42 305 iPc  07 52.50  -0.4
       0.8s    11.80nm          4.3mb
LPG    47.92 302 iPc  07 57.10   0.1
       0.6s     7.60nm          4.3mb
LPL    47.93 302 iPc  07 57.10   0.1
       0.7s     7.40nm          4.2mb
LBF    49.47 304 eP   08 07.60  -0.9
       0.7s     3.30nm          3.9mb
LOR    49.48 305 eP   08 08.40  -0.1
       0.5s     1.70nm          3.8mb X
SMF    49.64 304 iPc  08 09.30  -0.4
       0.8s     9.40nm          4.3mb
SSF    49.76 304 eP   08 09.80  -0.8
       0.9s     6.20nm          4.1mb
AVF    49.93 304 iPc  08 11.40  -0.5
       0.8s     8.20nm          4.3mb
MAF    50.59 304 iPc  08 16.90  -0.1
       0.4s     2.20nm          4.0mb
TCF    50.82 304 eP   08 18.40  -0.3
       0.6s     4.25nm          4.1mb
LSF    51.28 304 eP   08 21.30  -0.9
LDF    51.77 307 eP   08 24.80  -1.0
       0.6s     4.25nm          4.2mb
FLN    51.96 307 eP   08 26.90  -0.2
       0.8s    11.30nm          4.5mb
GRR    52.30 307 eP   08 28.70  -0.9
       0.7s     5.75nm          4.2mb
EPF    53.02 300 iPc  08 34.20  -0.8
       0.6s     3.00nm          4.0mb
YSS    53.06  55 eP   08 34.50  -0.7
DAG    54.73 344 iPd  08 47.40   0.4
       0.5s    30.28nm          5.2mb
BCAO   57.36 249 iPd  09 05.30  -1.1
       0.7s    24.00nm          5.0mb
                i     09 55.90 224km
BUL    68.87 222 iPd  10 22.60   0.9
IMA    72.27  17 iPc  10 40.70  -0.8
       0.5s     8.09nm          4.7mb
LKO    73.33 270 eP   10 46.86  -1.5
       0.2s     2.50nm          4.5mb
MBL    73.77 133 iPc  10 50.20  -0.4
       0.3s     8.00nm          4.9mb
INK    74.01   9 eP   10 51.50   0.2
       0.5s    18.00nm          5.1mb
TTA    74.18  20 ePc  10 52.70   0.1
       1.6s    72.20nm          5.2mb
LBTB   74.43 222 iPc  10 55.39   0.9
       0.4s    22.83nm          5.3mb
                epP   11 47.21 218km
KIC    74.48 266 P    10 54.03  -0.9
       0.4s     7.00nm          4.7mb
TIC    74.54 267 P    10 54.23  -1.1
       0.3s     4.50nm          4.7mb
FBA    74.61  16 ePc  10 54.51  -0.4
       0.7s    22.77nm          5.0mb
                epP   11 45.94 216km
LIC    74.79 267 P    10 55.61  -1.1
       0.4s     4.50nm          4.5mb
MTN    75.13 119 eP   10 57.60  -0.9
       0.4s    33.00nm          5.4mb
PMR    77.12  18 eP   11 08.42  -0.5
       1.0s    29.60nm          5.0mb
TOA    77.39  17 ePc  11 11.50   1.0
BOSA   77.43 220 iPc  11 12.06   1.1
       0.8s    33.27nm          5.1mb
                epP   12 04.10 217km
KLU    77.99  17 eP   11 14.09   0.3
MRWA   77.99 141 eP   11 13.20  -0.9
       0.7s    10.00nm          4.7mb
BALM   79.20  16 ePc  11 20.75   0.3
KDC    79.42  22 ePc  11 21.70   0.3
YKA    81.32   2 eP   11 31.40   0.1
       0.8s    17.30nm          4.8mb
WARB   81.64 131 eP   11 21.90 -11.6X
COOL   82.03 138 eP   11 34.20  -1.2
WRA    82.22 122 P    11 32.50  -4.2X
       0.5s    41.30nm          5.4mb
WR2    82.24 122 iPd  11 35.60  -1.2
       0.4s    73.70nm          5.8mb
SIT    84.31  14 eP   11 47.54   0.9
       0.6s     6.12nm          4.5mb
ASPA   84.47 125 iPc  11 47.10  -0.9
       0.5s    41.60nm          5.5mb
FORT   85.85 133 iPd  11 54.20  -0.4
       1.0s    92.00nm          5.6mb
CTA    90.79 114 iPc  12 17.50  -0.7
       0.8s    14.93nm          5.0mb
RMW    95.73   8 eP   12 41.48   0.7
SPA   126.26 180 iPKPd 18 13.80  -2.0
       0.8s     8.75nm
LPAZ  138.34 288 PKPc 18 40.60  -0.2
LPB   138.47 287 (PKP) 18 36.00  -4.7X
CNCB  138.54 287 PKP  18 40.20  -0.8
MRA   143.99 263 ePKPc 18 47.30  -2.2X
     S.D. = 1.0  on 109 of 117 obs.
-----------------------------------
%  OCT  07, 1993  19h 13m 23.12± 1.62s
   40.225 N ±15.8km   29.400 E ± 7.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      ML 2.6 (ISK).

IZI      0.12  26 iPg   13 26.70   0.4
                iSg   13 29.40
HRT      0.63  19 ePg   13 35.00  -0.8
EYL      0.67  59 iPg   13 36.60   0.1
ISK      0.88 343 iPg   13 40.40   0.4
                eSg   13 52.90
BNT      1.14 277 ePn   13 44.50   0.0
EDC      1.18 276 ePn   13 45.00  -0.2
     S.D. = 0.6  on   6 of   6 obs.
-----------------------------------
?  OCT  07, 1993  19h 23m 28.94± 1.11s
   52.784 N ±22.1km  171.290 E ±14.3km
   DEPTH =  33.0km  (normal)
   4.4mb (  8 obs.)
 NEAR ISLANDS, ALEUTIAN ISLANDS  (  5)

SMY      1.71  91 eP   23 55.62  -1.2
                eS    24 16.74
FBA     23.90  44 eP   28 40.82   0.8
        0.4s     4.78nm          4.4mb
INK     29.96  38 eP   30 00.50  24.7X
        1.0s     2.00nm
YKA     38.67  46 eP   30 52.50   1.9
        0.6s     1.40nm          3.9mb
NB2     65.42 349 P    34 08.40  -1.6
        0.9s     4.40nm          4.6mb
HFS     66.00 348 eP   34 11.60  -2.1
        0.4s     1.10nm          4.3mb
      Z  15s     0.04um          3.8MszX
                 LR    59 01.00
KHC     76.71 345 eP   35 18.40   0.3
GEC2    76.97 345 P    35 19.40  -0.2
        0.5s     1.51nm          4.3mb
                 e     35 25.20
                 e     35 28.50
KBA     78.75 345 i(P) 35 30.50   1.0
        0.8s     7.50nm          4.7mb
WTTA    78.83 346 iPd  35 30.40   0.5
        0.6s     3.90nm          4.6mb
WRA     79.20 215 P    35 32.50   0.5
        1.0s     0.40nm          3.4mb
     S.D. = 1.4  on  10 of  11 obs.
-----------------------------------
&  OCT  07, 1993  19h 29m 09.53s
   61.426 N          146.536 W
   DEPTH =  14.7km
 SOUTHERN ALASKA                     (  2)
      <AEIC>. ML 2.9 (AEIC), 3.2
      (PMR).

KLU      0.30  77 iPc   29 16.11  -0.1
                eS    29 21.31
VLZ      0.31 161 eP   29 16.01  -0.2
                eS    29 21.30
SCM      0.56 318 iPd  29 20.04  -0.5
                eS    29 28.18
CFI      0.64 248 iPd  29 21.38  -0.5
                eS    29 30.90
TOA      0.70  14 P    29 22.50  -0.5
                S     29 32.20
TZL      0.82  40 ePc  29 24.14  -0.8
                eS    29 35.42
KNK      0.92 270 ePc  29 25.98  -0.8
                eS    29 38.69
SML      0.94 295 iPc  29 25.61  -1.4
                eS    29 38.46
CVA      0.96 156 eP   29 26.02  -1.3
HIN      1.03 179 P    29 25.10  -3.5
PWL      1.04 238 eP   29 27.64  -1.1
                eS    29 41.98
GHO      1.19 288 eP   29 29.73  -1.7
SDG      1.20  23 eP   29 29.66  -1.8
                eS    29 44.92
PLRM     1.26 279 ePc  29 30.95  -1.4
                eS    29 47.65
PMR      1.26 279 iPc  29 30.90  -1.4
GLB      1.31  88 eP   29 30.39  -2.9
                eS    29 48.54
PMS      1.47 264 P    29 34.50  -1.0
                S     29 54.80
HMT      1.56 133 eP   29 35.27  -1.5
PWA      1.62 279 P    29 36.50  -1.1
PAX      1.63  17 eP   29 36.04  -1.8
                eS    29 57.25
MPA      1.67 237 eP   29 37.06  -1.2
DHY      1.70 347 eP   29 37.39  -1.6
                eS    29 59.07
CRQM     1.78 111 eP   29 38.76  -1.4
                eS    30 01.78
TGL      1.92 109 eP   29 40.49  -1.6
                eS    30 05.38
SEW      1.95 228 eP   29 41.59  -0.8
SLKM     2.02 244 eP   29 42.24  -1.2
                eS    30 08.93
CUT      2.02 301 ePc  29 42.77  -0.6
SUA      2.02 273 eP   29 42.63  -0.9
BALM     2.06  99 eP   29 41.65  -2.5
                eS    30 07.26
HUR      2.13 318 eP   29 44.39  -0.7
                eS    30 12.05
RND      2.26 333 eP   29 46.44  -0.6
NKA      2.39 255 eP   29 49.13   0.5
SKT      2.44 285 eP   29 48.04  -1.5
CTGM     2.56  98 eP   29 49.75  -1.6
MCK      2.57 335 eP   29 50.86  -0.4
YAH      2.57 112 eP   29 51.29  -0.3
SPU      2.67 267 eP   29 50.82  -2.0
TRF      2.68 321 eP   29 52.14  -0.9
NCG      2.70 272 eP   29 51.43  -1.9
CRP      2.71 269 eP   29 52.29  -1.2
CKT      2.74 268 P    29 54.20   0.3
CP2      2.75 269 eP   29 52.89  -1.2
BC3      2.77  51 eP   29 52.60  -1.5
KTH      2.95 318 eP   29 55.52  -1.2
RDT      2.98 256 eP   29 55.08  -2.1
CNPM     3.01 233 eP   29 55.87  -1.6
REF      3.15 255 eP   29 57.99  -1.7
RDW      3.20 256 eP   29 59.08  -1.4
RED      3.21 254 eP   29 58.60  -1.8
CCB      3.28 350 P    29 59.20  -2.2
IL1      3.36 357 eP   30 00.07  -2.5
ILIM     3.43 250 eP   30 01.15  -2.4
INW      3.51 250 eP   30 02.74  -2.0
FBA      3.53 351 ePd  30 05.10   0.1
MDM      3.63 349 P    30 06.50   0.1
AUH      4.00 242 P    30 07.30  -4.3
MLY      4.09 334 eP   30 11.99  -0.8
SVW      4.40 270 P    30 14.10  -3.2
IM3      5.58 328 eP   30 30.84  -3.2
IMA      5.63 329 ePd  30 33.10  -1.7
       60 obs. associated
-----------------------------------
%  OCT  07, 1993  19h 55m 35.93± 1.06s
   40.630 N ± 8.4km    8.172 W ±17.0km
   DEPTH =  10.0km  (geophysicist)
 PORTUGAL                            (376)
      mbLg 3.4 (MDD).

EZAM     1.57 346 eP   56 03.26  -0.6
                e     56 24.50
EPLA     1.70 109 eP   56 05.86   0.1
                e     56 29.50
ERUA     1.92  23 eP   56 08.93  -0.1
                e     56 35.10
STS      2.27 353 eP   56 14.72   0.7
                e     56 41.90
EVAL     3.24 160 eP   56 28.03   0.3
                e     57 04.90
EHOR     3.61 140 eP   56 32.68  -0.3
     S.D. = 0.6  on   6 of   6 obs.
-----------------------------------
```

```
   OCT  07, 1993  20h 37m 30.06± 0.90s
   41.377 N ± 8.5km   22.632 E ± 5.7km
   DEPTH =   5.0km  (geophysicist)
 NORTHWESTERN BALKAN REGION        (383)
      ML 2.4 (THE).

KNT      0.29 137 iPg   37 36.12   0.1
                  eSg   37 41.00
GRG      0.45 203 ePg   37 38.28  -0.9
                  eSg   37 45.92
SRS      0.77 109 ePg   37 44.80  -0.7
                  eSg   37 55.40
SOH      0.78 135 iPg   37 44.96  -0.7
                  iSg   37 55.92
THE      0.79 161 ePg   37 45.00  -0.8
                  iSg   37 55.84
SKO      1.07 304 ePn   37 50.00  -0.7
FNA      1.12 238 ePg   37 52.24   0.7
                  eSg   38 05.04
LIT      1.28 185 ePb   37 53.84  -0.4
                  eSb   38 12.24
OHR      1.41 260 ePn   37 57.00   0.6
OUR      1.46 135 ePb   37 58.16   1.1
                  eSb   38 18.92
PAIG     1.65 151 ePb   38 01.60   1.8
                  eSb   38 23.68
     S.D. = 1.0  on  11 of  11 obs.
-----------------------------------
?  OCT  07, 1993  21h 11m 08.12± 3.31s
   34.921 S ±20.6km  178.729 W ±20.3km
   DEPTH =  47.2 ± 26.3 km
   4.8mb (  4 obs.)  4.3Msz (  1 obs.)
 SOUTH OF KERMADEC ISLANDS         (179)

HBZ      3.59 221 eP    12 03.00   0.3
PUZ      3.97 217 P     12 08.40   0.3
                  S     12 54.20
NOZ      4.51 214 eP    12 14.70  -0.9
URZ      4.72 224 P     12 18.80   0.2
                  S     13 12.60
KUZ      4.86 246 eP    12 20.40  -0.2
WLZ      5.44 236 eP    12 29.30   0.5
OUZ      6.30 265 eP    12 40.60  -0.2
CTA     34.20 286 eP    17 32.00 -19.3X
ASPA    42.46 272 iPc   19 00.40   0.1
        0.7s    10.00nm          4.7mb
      Z  22s     0.40um          4.3Msz
WR2     43.83 277 iPd   19 11.30  -0.1
        0.5s    12.70nm          4.9mb
WRA     43.85 277 P     19 11.60   0.0
        0.5s     4.80nm          4.5mb
SMY     87.51 356 (P)   23 51.49   0.1
        0.7s    40.74nm          5.8mb
BCAO   145.71 212 ePKPd 30 47.90   4.3X
        1.0s     5.00nm
OBN    148.39 321 ePKP  30 53.00   6.4X
        1.2s    18.00nm
                  e     31 07.00
KAF    148.54 338 ePKP  30 52.70   6.1X
        0.5s     2.10nm
NUR    150.28 337 iPKP  30 57.60   8.3X
        0.4s     2.60nm
LIC    150.86 167 PKP   31 02.51  10.9X
        0.8s     3.50nm
KIC    151.04 168 PKP   31 01.35   9.5X
        1.3s     9.50nm
NB2    153.09 349 PKP   31 04.40  10.9X
        1.0s     2.50nm
     S.D. = 0.5  on  11 of  19 obs.
-----------------------------------
%  OCT  07, 1993  21h 21m 09.26± 2.31s
   39.416 N ± 9.0km   27.992 E ±36.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.7 (ISK).

EDC      0.93 354 ePg   21 27.00  -0.1
BNT      0.94 357 iPg   21 27.00  -0.2
                  eSg   21 40.00
KGT      1.16 333 iPn   21 30.60  -0.4
IZM      1.17 209 ePn   21 31.00  -0.1
MFT      1.47 339 iPn   21 36.60   0.7
     S.D. = 0.6  on   5 of   5 obs.
-----------------------------------
*  OCT  08, 1993  00h 27m 03.31± 1.97s
   32.262 S ±14.1km   71.502 W ±12.7km
   DEPTH =  21.1 ±  8.5 km
 NEAR COAST OF CENTRAL CHILE       (135)
      MD 4.0 (SAN).

IHA      0.77 189 eP    27 18.30   0.4
                  iS    27 34.40
ROCH     0.82 150 iPd   27 19.00   0.1
JACH     0.88 119 iP+   27 19.36  -0.4
                  iS    27 34.23
PEL      1.12 142 iP+   27 23.76   0.0
                  iS    27 42.09
LCCH     1.21 183 iPd   27 24.56  -0.5
TACH     1.47 161 iP+   27 28.88   0.2
FCH      1.47 136 iP+   27 29.18   0.1
                  iS    27 51.15
PCH      1.59 149 iPd   27 30.92   0.4
LNV      1.69 177 iP+   27 31.48  -0.4
                  iS    27 57.13
ZON      2.51  74 eP    27 43.80   0.1
     S.D. = 0.4  on  10 of  10 obs.
-----------------------------------
*  OCT  08, 1993  01h 21m 49.75± 3.51s
   39.271 N ±23.5km   20.425 E ±22.2km
   DEPTH =  10.0km  (geophysicist)
 GREECE-ALBANIA BORDER REGION      (392)
      ML 2.5 (THE).

IGT      0.27 345 iPg   21 54.70  -0.8
                  eSg   21 59.68
AGG      1.50  99 ePb   22 17.24   0.5
                  eSb   22 39.20
FNA      1.68  25 ePb   22 20.20   0.9
                  eSb   22 44.12
LIT      1.80  62 ePb   22 20.80  -0.2
                  eSb   22 45.80
OHR      1.86   9 ePn   22 22.50   0.5
KNT      2.67  44 iPn   22 34.00   0.4
SOH      2.73  55 iPn   22 34.00  -0.5
                  eSn   23 09.52
OUR      2.94  68 ePn   22 36.32  -1.0
     S.D. = 0.8  on   8 of   8 obs.
-----------------------------------
?  OCT  08, 1993  01h 47m 48.16± 5.26s
   45.074 N ± 9.8km    6.415 E ±38.5km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                            (538)
      ML 2.2 (GEN).

RRL      0.30 120 P     47 54.74   0.1
                  S     47 58.08
RSP      0.60  82 P     48 00.33  -0.1
                  S     48 06.82
BHB      0.65 111 P     48 01.01  -0.1
                  S     48 08.01
LSD      0.65  54 P     48 01.38   0.1
                  S     48 09.02
PZZ      0.75 139 P     48 02.93   0.0
                  S     48 11.17
     S.D. = 0.1  on   5 of   5 obs.
-----------------------------------
   OCT  08, 1993  02h 03m 55.98± 1.16s
   19.651 S ± 7.9km  177.355 W ± 8.0km
   DEPTH = 324.1 ± 12.4 km
   4.7mb ( 12 obs.)
 FIJI ISLANDS REGION               (181)

AFI      7.82  44 eP    05 47.00  -1.4
BKM     13.79 276 iPc   07 03.00   2.1
DZM     15.33 258 iPd   07 20.10   1.9
HBZ     18.28 191 eP    07 47.70  -1.0
PUZ     18.75 191 eP    07 54.80   1.4
URZ     19.16 193 eP    07 56.90  -0.5
WLZ     19.16 197 eP    08 01.00   3.5X
NOZ     19.32 191 eP    08 01.10   2.1
MNG     21.78 195 eP    08 22.40  -0.6
QRZ     22.81 200 eP    08 33.00   0.2
THZ     23.55 198 eP    08 39.70   0.1
LTZ     24.67 199 eP    08 48.30  -1.6
BRS     28.40 249 iPc   09 24.00   0.5
ARMA    29.99 243 iPd   09 37.90   0.4
        0.5s     8.00nm          4.4mb
CNB     33.20 235 iPc   10 06.00   0.9
        0.5s    38.00nm          5.1mb
CAN     33.49 235 eP    10 07.90   0.4
BWA     33.67 237 eP    10 07.20  -1.8
TOO     36.89 233 iPc   10 36.40   0.4
        0.6s    64.00nm          5.2mb
STK     38.71 243 iPc   10 51.30   0.2
        0.6s     6.00nm          4.1mb
WR2     45.30 261 iPd   11 43.10  -1.2
        0.4s    15.90nm          4.7mb
ASPA    45.31 256 iPc   11 43.20  -1.2
        0.6s    61.00nm          5.1mb
                  i     17 56.80
WRA     45.32 261 P     11 43.20  -1.3
        0.6s     2.90nm          3.7mb
WARB    51.67 252 eP    12 20.50 -12.3X
MBL     58.54 257 eP    13 19.50  -2.2
        0.7s    30.00nm          4.9mb
MEEK    58.77 250 iPc   13 21.00  -2.3
BCH     76.96  45 eP    15 15.39   0.4
KMPM    77.60  39 eP    15 17.77  -0.5
PLM     78.14  48 ePd   15 21.86   0.3
ISA     78.31  45 eP    15 22.72   0.4
        0.8s    12.68nm          4.8mb
ORV     78.64  41 eP    15 23.86   0.0
LGPM    78.67  39 eP    15 24.02  -0.1
GSC     79.24  46 eP    15 27.05  -0.2
LBFM    79.50  39 eP    15 28.63   0.0
BONR    79.72  44 eP    15 30.35   0.3
BMW     81.95  34 eP    15 41.23   0.1
TUC     81.98  52 eP    15 43.47   1.9
        0.8s     9.46nm          4.7mb
RMW     83.32  34 eP    15 47.94  -0.1
MSU     84.08  46 eP    15 52.80   0.5
BALM    85.20  16 eP    15 55.36  -1.8
LTX     86.09  57 eP    16 01.72  -0.4
PV09    86.15  47 eP    16 02.58   0.0
PV10    86.16  47 eP    16 02.18  -0.3
ALQ     86.40  51 eP    16 03.79   0.1
        0.9s     5.19nm          4.4mb
PV08    86.52  47 eP    16 04.34   0.0
RSSD    92.12  44 eP    16 29.90  -0.3
        0.8s     9.68nm          4.8mb
KSP    147.05 344 iPKP  23 00.70   1.3
CLL    147.37 348 iPKPc 23 01.30   1.4
BRG    147.58 347 e(PKP)23 02.00   1.7
PRU    148.28 345 PKP   23 03.70   2.3X
GRF    149.25 349 ePKP  23 06.60   3.7X
KHC    149.30 346 ePKP  23 06.30   3.2X
        1.0s     5.40nm
GEC2   149.54 346 PKP   23 06.80   3.3X
        1.1s     4.61nm
FLN    150.85   4 iPKPd 23 09.60   4.3X
        0.6s     5.50nm
LDF    151.04   4 iPKPd 23 09.90   4.3X
        0.4s     1.95nm
CDF    151.06 354 iPKPd 23 10.50   4.7X
        0.7s     4.20nm
GRR    151.19   5 iPKPd 23 10.50   4.7X
        0.6s     7.95nm
KBA    151.28 345 iPKPc 23 09.90   3.6X
        0.5s     4.30nm
WATA   151.44 347 iPKPd 23 10.90   4.4X
WTTA   151.50 347 iPKPd 23 11.40   4.8X
        0.5s     9.30nm
MOTA   151.53 348 iPKPc 23 11.30   4.7X
        0.8s     4.20nm
LPF    151.53   5 iPKPd 23 11.40   5.1X
        0.7s    15.00nm
HAU    151.56 355 iPKPd 23 11.40   4.9X
        0.6s     4.80nm
SQTA   151.62 348 iPKPc 23 11.70   5.0X
        0.6s     7.20nm
BSF    151.69 354 iPKPd 23 11.60   4.8X
        0.7s     4.95nm
VBY    152.18 341 ePKP  23 13.10   5.7X
LOR    152.43 358 iPKPd 23 13.50   5.8X
        0.6s     3.25nm
SSF    152.65 359 iPKPd 23 14.10   6.1X
        0.8s     4.85nm
LBF    152.72 358 iPKPd 23 14.20   6.0X
        0.8s     3.65nm
LPG    154.00 353 iPKPd 23 21.70  11.4X
     S.D. = 1.1  on  46 of  69 obs.
-----------------------------------
?  OCT  08, 1993  02h 44m 33.54± 3.10s
   47.828 N ±17.9km  146.445 E ±75.8km
   DEPTH = 417.8 ± 22.1 km
   3.8mb (  4 obs.)
 NORTHWEST OF KURIL ISLANDS        (220)

ASAJ     4.56 217 eP    45 53.80   1.2
KUSJ     4.88 195 P     45 56.00   0.2
                  eS    46 57.30
```

08d 02h

```
HOOJ    5.88 203 eP    46 04.90  -1.3
                eS    47 13.10
OFUJ    9.41 203 eP    46 45.30  -0.4
                eS    48 23.10
KAF    60.46 332 iP    54 01.80  -0.7
NUR    62.20 332 iP    54 13.20  -0.8
NB2    65.63 338 P     54 36.60   0.6
       0.9s     2.90nm          3.9mb
HFS    65.75 336 eP    54 36.40  -0.2
       0.4s     2.70nm          4.3mb
WRA    68.33 192 P     54 53.30   0.4
       0.6s     0.90nm          3.6mb
GEC2   75.37 330 P     55 34.60   0.9
       0.5s     0.68nm          3.6mb
                e     55 38.90
     S.D. = 1.0  on  10 of  10 obs.
-----------------------------------
%  OCT  08, 1993  02h 45m 22.93± 0.69s
   40.044 N ± 6.8km   22.661 E ± 8.1km
   DEPTH =  33.0km  (normal)
 GREECE                              (364)
     ML 1.8 (THE).

LIT     0.14 293 ePg   45 28.16  -0.9
                eSg   45 34.52
THE     0.63  21 ePg   45 36.08   0.7
PAIG    0.79  98 ePg   45 37.12  -0.5
GRG     0.93 348 ePg   45 38.56  -1.2
SOH     0.94  34 iPg   45 40.04   0.2
                eSg   45 52.32
AGG     1.05 194 ePg   45 41.92   0.5
                eSg   45 56.20
KNT     1.13   9 ePg   45 43.28   0.8
                eSg   45 57.84
FNA     1.23 307 ePb   45 44.56   0.6
                eSb   46 01.28
SRS     1.29  33 ePb   45 44.40  -0.3
                eSb   46 02.04
     S.D. = 0.8  on   9 of   9 obs.
-----------------------------------
%  OCT  08, 1993  03h 00m 26.54± 0.74s
   40.334 N ± 5.9km   23.917 E ± 5.9km
   DEPTH =   5.0km  (geophysicist)
 GREECE                              (364)
     ML 2.3 (THE).

OUR     0.05  89 iPg   00 27.94  -0.1
PAIG    0.44 204 iPg   00 35.38  -0.1
                eSg   00 42.98
SOH     0.65 319 ePg   00 39.18  -0.4
                eSg   00 47.86
THE     0.79 293 ePg   00 41.42  -0.8
                eSg   00 52.34
SRS     0.82 343 ePg   00 42.98   0.1
                iSg   00 55.22
LIT     1.12 258 iPg   00 47.50  -0.5
                eSg   01 04.70
KNT     1.13 317 ePg   00 48.18  -0.1
                eSg   01 03.78
GRG     1.31 299 ePb   00 51.54   0.3
                eSb   01 11.34
FNA     1.99 284 ePn   01 02.82   1.6
     S.D. = 0.8  on   9 of   9 obs.
-----------------------------------
%  OCT  08, 1993  03h 04m 39.46± 1.09s
   41.022 N ± 9.5km   22.333 E ± 6.5km
   DEPTH =   5.0km  (geophysicist)
 NORTHWESTERN BALKAN REGION          (383)
     ML 2.2 (THE).

GRG     0.08 142 iPg   04 41.68   0.2
KNT     0.45  72 ePg   04 49.24   0.8
                eSg   04 56.56
THE     0.62 129 ePg   04 51.40  -0.4
                eSg   04 59.24
FNA     0.76 252 ePg   04 54.68  -0.1
                eSg   05 05.64
SOH     0.80 104 ePg   04 54.80  -0.7
                eSg   05 07.04
LIT     0.93 173 iPg   04 57.64   0.0
                eSg   05 11.88
SRS     0.96  84 iPg   04 57.04  -1.1
                eSg   05 10.20
OUR     1.43 118 ePb   05 07.44   1.4
                eSb   05 26.04
     S.D. = 0.9  on   8 of   8 obs.
-----------------------------------
*  OCT  08, 1993  03h 36m 51.20± 3.22s
   45.469 N ±32.9km   12.602 E ±15.2km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                      (545)
     ML 2.8 (VIE).

VOY     1.07  58 ePn   37 10.30  -1.0
                e(Sn) 37 46.80
RIY     1.26  95 ePg   37 30.90  16.3X
                iSg   37 38.70
CEY     1.31  77 ePn   37 17.10   1.7
                e(Sn) 37 37.40
                eSg   37 47.80
KBA     1.69  17 iPnd  37 22.40   1.3X
                i     37 30.80
VBY     1.87  88 ePn   37 22.60  -0.9
WTTA    1.92 340 iPnc  37 24.80   0.4
                iPg   37 36.40
                iSn   38 02.90
                iSg   38 18.20
WATA    2.00 340 iPnd  37 26.00   0.5
                i     37 37.70
                iSn   38 06.40
                i     38 23.00
SQTA    2.00 332 iPnc  37 25.20  -0.3
                i     37 34.70
                i     38 04.10
                i     38 17.00
MOTA    2.14 332 iPnc  37 27.20  -0.4
                iSn   38 07.40
                i     38 20.40
GEC2    3.46  12 Pg    38 07.70  21.4X
                Sn    38 24.70
KHC     3.72  10 ePg   38 24.00  34.0X
                eSg   38 46.50
     S.D. = 1.2  on   7 of  11 obs.
-----------------------------------
&  OCT  08, 1993  03h 46m 03.09s
   61.893 N          152.057 W
   DEPTH = 124.4km
 SOUTHERN ALASKA                     (  2)
     <AEIC>.

SKT     0.26  70 iP    46 19.57   0.6
                eS    46 33.23
NCG     0.49 186 eP    46 20.98  -0.9
                eS    46 35.16
CGLM    0.59 178 eP    46 21.51  -0.9
CRP     0.63 184 ePd   46 21.41  -1.4
                eS    46 36.13
CP2     0.64 188 eP    46 21.87  -1.1
BGL     0.65 194 eP    46 22.20  -0.7
CKN     0.67 185 eP    46 22.65  -0.4
CKT     0.70 186 eP    46 22.17  -1.1
                eS    46 37.99
CKL     0.71 191 eP    46 22.54  -0.9
                eS    46 38.42
SPU     0.71 180 iP    46 22.26  -1.1
SUA     0.76 124 iP    46 23.58  -0.2
                eS    46 38.92
BKG     0.83 187 eP    46 23.40  -0.9
CUT     0.98  58 iP    46 24.85  -0.8
PWA     1.06 102 P     46 26.00  -0.4
                S     46 45.00
NKA     1.22 161 eP    46 28.84   0.8
RDT     1.33 187 eP    46 28.66  -0.7
PMS     1.36 117 P     46 29.00  -0.6
PLRM    1.42 101 eP    46 28.86  -1.4
                eS    46 50.36
PMR     1.42 101 iPc   46 28.48  -1.8
REF     1.44 193 eP    46 30.09  -0.6
RDW     1.46 195 iP    46 30.45  -0.5
RS2     1.47 194 iP    46 30.57  -0.5
RSO     1.48 194 eP    46 30.53  -0.6
GHO     1.49  93 eP    46 30.06  -1.1
RED     1.52 194 eP    46 30.81  -0.7
HUR     1.57  45 eP    46 30.78  -1.2
                eS    46 52.46
SLKM    1.65 147 eP    46 31.80  -1.2
KTH     1.75  17 eP    46 33.19  -1.0
                eS    46 55.45
TRF     1.76  27 eP    46 33.14  -1.4
SML     1.77  91 eP    46 33.22  -1.2
KNK     1.79 104 eP    46 33.32  -1.3
                eS    46 58.03
ILIM    1.87 194 eP    46 34.56  -1.1
SVW     1.88 247 eP    46 32.61  -3.2
INE     1.90 195 eP    46 35.36  -0.8
MPA     1.92 136 eP    46 35.56  -0.6
PWL     2.07 118 eP    46 36.70  -1.4
TTA     2.11 301 eP    46 35.89  -2.8
RND     2.12  43 eP    46 37.54  -1.3
                eS    47 04.11
CFI     2.18 107 eP    46 37.71  -1.7
SEW     2.20 144 eP    46 38.37  -1.3
SCM     2.24  89 eP    46 39.03  -1.3
HOM     2.25 175 eP    46 39.79  -0.6
OPT     2.32 195 eP    46 41.02  -0.3
PDB     2.36 207 eP    46 40.96  -0.8
CNPM    2.41 170 eP    46 40.98  -1.5
DHY     2.48  59 eP    46 42.25  -1.2
TOA     2.78  83 P     46 46.90  -0.5
VLZ     2.85 103 eP    46 46.17  -1.9
KLU     2.95  95 eP    46 47.92  -1.7
                eS    47 24.22
CDD     3.08 196 eP    46 49.78  -1.4
SDG     3.12  75 eP    46 51.16  -0.6
WRH     3.15  33 eP    46 50.32  -1.8
MLY     3.21  10 eP    46 50.66  -2.3
PAX     3.25  68 eP    46 52.52  -1.0
CCB     3.37  33 eP    46 53.38  -1.6
HDA     3.42  40 eP    46 55.13  -0.7
FBA     3.58  31 eP    46 55.30  -2.5
IL1     3.71  37 eP    46 57.63  -2.0
ILB     3.71  37 eP    46 57.40  -2.3
                eS    47 38.05
GLB     3.96  93 eP    47 01.96  -1.1
IM3     4.17 350 eP    47 03.40  -2.5
BC3     4.91  72 eP    47 13.92  -2.0
BM3     6.40  27 eP    47 33.00  -3.3
       63 obs. associated
-----------------------------------
%  OCT  08, 1993  04h 00m 39.47± 2.49s
   38.276 N ±22.1km   14.583 E ± 8.1km
   DEPTH =   5.0km  (geophysicist)
 SICILY                              (398)
     ML 2.3 (ROM).

GIB     0.52 237 P     00 48.15  -1.8
ATN     0.70  99 P     00 53.47  -0.1
MCT     0.99 230 P     01 00.58   1.8
MEU     1.20 167 P     01 02.46   0.0
FAI     1.23 216 P     01 03.27   0.5
PZI     1.27 168 P     01 03.14  -0.4
     S.D. = 1.5  on   6 of   6 obs.
-----------------------------------
*  OCT  08, 1993  04h 46m 49.62± 0.78s
   51.204 N ±16.4km  179.034 E ±10.6km
   DEPTH =  33.0km  (normal)
   4.1mb (  7 obs.)
 RAT ISLANDS, ALEUTIAN ISLANDS       (  6)

ADK     2.76  74 eP    47 33.21   0.8
                eS    48 05.14
SMY     3.41 299 eP    47 46.51   4.8X
                eS    48 29.71
CP2    18.71  46 (P)   51 09.03   1.5
IMA    20.32  33 eP    51 25.01  -0.3
       0.6s     3.27nm          3.9mb
FBA    21.93  39 eP    51 41.69   0.2
       0.6s     2.90nm          3.9mb
DUG    47.23  76 eP    55 19.97  -1.3
       0.8s     2.19nm          4.2mb
PLM    49.06  85 eP    55 35.35  -0.2
GOL    52.03  71 eP    55 58.27   0.1
       0.6s     3.01nm          4.4mb
OXF    64.90  66 eP    57 26.48  -1.2
NB2    67.68 354 P     57 45.00  -0.1
       0.8s     2.70nm          4.4mb
HFS    68.39 352 eP    57 48.20  -1.2
       0.6s     1.30nm          4.2mb
SHL    68.78 285 iP    57 53.50   0.9
WRA    80.96 222 P     59 02.80   0.8
       0.6s     0.80nm          3.9mb
     S.D. = 1.0  on  12 of  13 obs.
-----------------------------------
   OCT  08, 1993  04h 47m 07.81± 0.29s
   44.422 N ± 2.3km    7.230 E ± 3.4km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                      (545)
     ML 3.6 (GEN).

PZZ     0.12 312 Pd    47 10.90  -0.1
                S     47 12.64
```

```
STV     0.19 159 Pd    47 12.07   0.0
                S     47 14.58
ENR     0.24 145 P     47 12.87  -0.1
                S     47 16.07
BHB     0.42   3 P     47 16.40   0.0
                S     47 21.94
ROB     0.48 105 P     47 17.89   0.4
                S     47 24.53
SBF     0.58 165 Pg    47 19.30  -0.3
                Sg    47 27.80
RRL     0.59 328 P     47 19.37  -0.6
                S     47 27.28
IMI     0.70 137 P     47 21.53  -0.1
                S     47 30.82
RSP     0.73   2 P     47 21.75  -0.5
                S     47 31.22
FIN     0.73 107 P     47 22.30   0.1
                S     47 32.25
PCP     0.95  82 P     47 26.51   0.6
                S     47 38.89
FRF     0.96 206 Pg    47 26.00  -0.1
                Sg    47 38.20
LSD     1.04 357 P     47 27.89   0.3
                S     47 41.01
LPG     1.13 343 Pg    47 29.30   0.2
                Sg    47 44.50
LPL     1.15 342 Pg    47 29.70   0.2
                Sg    47 44.70
LRG     1.15 213 Pg    47 29.90   0.5
                Sg    47 45.40
LMR     1.21 206 Pg    47 30.80   0.5
                Sg    47 46.60
PGF     2.27 145 Pn    47 45.00  -1.1
                Sn    48 11.10
     S.D. = 0.5  on  18 of  18 obs.
-------------------------------------
   OCT  08, 1993  04h 47m 59.05± 0.30s
   44.425 N ± 2.4km    7.233 E ± 3.5km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                    (545)
      ML 3.6 (GEN).

PZZ     0.12 310 P     48 01.98  -0.3
                S     48 03.76
STV     0.19 160 P     48 03.32   0.0
                S     48 05.85
ENR     0.24 146 P     48 03.99  -0.2
                S     48 07.34
BHB     0.42   3 P     48 07.78   0.2
                S     48 13.14
ROB     0.48 106 P     48 09.20   0.5
                S     48 15.96
SBF     0.58 165 Pg    48 10.60  -0.3
                Sg    48 18.70
RRL     0.59 327 P     48 10.62  -0.5
                S     48 18.22
IMI     0.70 137 P     48 12.69  -0.2
                S     48 22.21
RSP     0.73   1 P     48 13.02  -0.4
                S     48 22.07
FIN     0.73 107 P     48 13.51   0.1
                S     48 22.96
PCP     0.95  82 P     48 17.75   0.6
                S     48 30.47
FRF     0.96 206 Pg    48 17.20  -0.1
                Sg    48 29.50
LSD     1.03 357 P     48 18.87   0.1
                S     48 32.11
LPG     1.13 342 Pg    48 20.60   0.2
                Sg    48 35.80
LPL     1.15 342 Pg    48 20.80   0.1
                Sg    48 36.00
LRG     1.16 213 Pg    48 21.40   0.7
                Sg    48 36.60
LMR     1.21 206 Pg    48 22.20   0.6
                Sg    48 37.00
PGF     2.27 145 Pn    48 36.10  -1.2
                Sn    49 02.20
     S.D. = 0.5  on  18 of  18 obs.
-------------------------------------
%  OCT  08, 1993  04h 49m 20.29± 0.85s
   44.436 N ± 7.8km    7.217 E ± 8.4km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                    (545)
      ML 1.8 (GEN).

PZZ     0.11 310 P     49 23.18  -0.1
                S     49 25.02
BHB     0.41   5 P     49 28.91   0.3
                S     49 34.31
ROB     0.49 106 P     49 30.23   0.0
                S     49 36.92
RRL     0.57 328 P     49 32.11   0.0
IMI     0.71 137 P     49 34.59   0.2
                S     49 43.77
RSP     0.72   2 P     49 34.27  -0.2
                S     49 43.17
FIN     0.75 107 P     49 34.75  -0.2
                S     49 44.13
     S.D. = 0.2  on   7 of   7 obs.
-------------------------------------
%  OCT  08, 1993  04h 54m 34.33± 0.66s
   44.419 N ± 5.4km    7.204 E ± 6.6km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                    (545)
      ML 2.0 (GEN).

PZZ     0.11 320 P     54 37.67   0.3
                S     54 39.46
STV     0.20 154 P     54 38.82   0.1
                S     54 41.55
BHB     0.42   6 P     54 43.12   0.1
                S     54 48.70
ROB     0.49 104 P     54 44.68   0.3
                S     54 51.36
RRL     0.58 329 P     54 46.08  -0.2
IMI     0.71 136 P     54 48.09  -0.3
                S     54 57.66
RSP     0.73   3 P     54 48.64  -0.2
FIN     0.75 106 P     54 48.87  -0.2
                S     54 58.76
PCP     0.97  82 P     54 52.81   0.0
     S.D. = 0.3  on   9 of   9 obs.
-------------------------------------
   OCT  08, 1993  05h 16m 10.17± 0.42s
    5.567 N ± 3.2km  126.517 E ± 4.8km
   DEPTH =  91.9 ±  3.6 km
   5.3mb ( 62 obs.)
 MINDANAO, PHILIPPINE ISLANDS      (259)
      Mw 5.3 (HRV).
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 29S, 41C
      Centroid Location:
      Origin Time       05:16: 8.1 0.5
      Lat  5.80N 0.05 Lon 127.36E 0.06
      Dep  71.8 4.0 Half-duration  1.0
      Moment Tensor;   Scale 10**16 Nm
        Mrr= 5.06 0.65  Mtt=-2.39 0.64
        Mff=-2.67 1.15  Mrt=-0.39 0.73
        Mrf= 3.47 0.56  Mtf=-6.63 0.80
       Principal Axes:
        T  Val=  7.50  Plg=51  Azm=234
        N        2.01      37       36
        P       -9.51       9      133
      Best Double Couple:Mo=8.5*10**16
       NP1:Strike=258 Dip=49 Slip= 144
       NP2:         14      64       47

DAV     1.78 328 iP-   16 38.00  -2.0
BIP     2.65 354 ePc   16 47.00  -4.8X
MAP     5.35 332 iPc   17 29.00  -0.2
                eS    18 05.00
PLP     5.77 345 eP    17 32.00  -2.9
                iS    17 53.00
TSM     8.70 262 ePc   18 15.80   0.6
        1.1s   668.50nm          6.3mb X
                e     19 58.50
GQP     9.20 334 ePc   18 23.50   1.4
PGP     9.60 326 ePc   18 28.00   0.5
TGY    10.11 327 ePd   18 37.50   3.1X
KKM    10.26 273 ePd   18 42.40   6.0X
        1.0s    67.90nm          5.5mb
                e     20 38.00
QCP    10.48 330 eP    18 39.50   0.2
BCP    12.24 332 eP    19 05.20   2.4
BAG    12.25 332 ePc+  19 04.00   1.1
                eS    21 27.20
MKS    12.82 213 iPc   19 08.60  -1.6
CVP    12.91 340 ePc   19 13.00   1.6
KHKI   17.60 218 e(P)  20 11.00  -0.1
                e     25 18.00
MTN    18.86 166 eP    20 22.00  -3.9X
GUMO   19.76  65 e(P)  20 37.60   2.1
        1.2s   200.80nm          5.3mb
PJG    19.76  65 e(P)  20 38.50   3.0X
GUA    19.78  65 e(P)  20 40.60   4.9X
        0.9s   134.45nm          5.3mb
TPI    20.58 247 ePc   20 44.50   0.7
                e     24 00.00
QZH    20.71 339 P     20 45.50   0.3
        1.0s    60.00nm          4.9mb
QIZ    21.05 311 P     20 48.80   0.2
     N  12s     1.00um
KNA    21.30 174 eP    20 50.20  -0.9
        0.8s   453.00nm          5.9mb
GZH    21.56 325 Pd    20 56.00   2.3
     Z  26s     1.41um          4.2MszX
                eS    24 46.00
KGM    23.41 262 ePc   21 13.30   1.4
        0.7s   208.80nm          5.6mb
IPM    25.41 269 ePc   21 30.90  -0.1
        0.6s   107.90nm          5.5mb
SSE    25.88 349 P     21 39.00   3.9X
        1.4s    89.00nm          5.1mb
     Z  20s     1.40um          4.5Msz
                pP    21 50.50  45kmX
                S     26 01.00
WRA    26.49 163 P     21 39.20  -1.6
WR2    26.50 163 eP    21 35.50  -5.4X
        0.8s    18.20nm          4.7mb
                i     21 39.50
                eS    26 19.90
LOE    26.95 298 eP    21 45.00   0.0
NJ2    27.31 346 eP    21 48.00  -0.1
     Z  20s     0.59um          4.2Msz
WHN    27.36 337 eP    21 50.00   1.4
        1.0s    30.00nm          4.8mb
     Z  24s     2.02um          4.6MszX
NST    27.77 293 eP    21 52.00  -0.5
GYA    28.12 320 P     21 57.20   1.5
     Z  24s     1.39um          4.5MszX
KHT    28.94 291 eP    22 02.30  -0.7
QIS    28.97 154 eP    22 01.70  -1.5
BDT    29.31 296 eP    22 06.00  -0.3
CHTO   29.93 299 iPc   22 11.00  -0.8
        1.3s    34.72nm          4.9mb
                i     25 13.40
                i     28 50.30
ASPA   29.94 166 iPc   22 09.70  -2.1
        0.7s    29.70nm          5.1mb
                eS    27 04.30
                iScS  32 42.10
KMI    29.96 313 Pd    22 12.50   0.2
        1.0s    40.00nm          5.1mb
     Z  30s     3.10um          4.8MszX
WARB   31.56 180 eP    22 14.70 -11.3X
TIA    31.70 345 eP    22 26.30  -0.8
        0.8s    39.00nm          5.2mb
MAT    32.64  18 (P)   22 36.00   0.6
        0.7s     7.53nm          4.6mb
XAN    32.70 332 P     22 34.00  -1.9
        0.6s    26.00nm          5.2mb
     Z  22s     1.88um          4.7Msz
CD2    33.06 322 P     22 40.20   1.1
        1.2s    48.00nm          5.2mb
TIY    34.48 340 eP    22 52.00   0.7
     Z  21s     1.52um          4.7Msz
                S     28 14.00
BJI    35.56 346 eP    22 59.00  -1.4
        1.0s    55.00nm          5.4mb
     Z  20s     0.90um          4.5Msz
                eS    28 28.00
FORT   36.17 178 iPd   23 04.80  -0.7
        0.8s    81.00nm          5.7mb
SNY    36.20 356 P     23 04.30  -1.4
        1.0s    28.00nm          5.1mb
     Z  24s     1.16um          4.6MszX
                S     28 41.00
COOL   36.61 188 iPd   23 08.20  -1.1
LZH    36.83 329 eP    23 11.50   0.2
        1.5s   200.00nm          5.8mb
     Z  25s     2.57um          4.9MszX
     E  15s     0.80um
                pP    23 29.00  71kmX
BAL    37.17 194 iPc   23 13.30  -0.7
        0.8s    12.00nm          4.9mb
HHC    37.60 341 Pd    23 18.60   1.0
        1.0s    54.00nm          5.4mb
VLA    37.70   6 iPc   23 20.00   1.7
        1.2s    53.00nm          5.3mb
```

08d 05h

```
                i     23 41.00
KLB    37.88 192 iPc   23 29.00    9.0X
BTO    37.89 339 eP    23 24.50    4.4X
CN2    38.09 359 eP    23 20.20   -1.4
       0.8s    12.00nm          4.9mb
     Z  20s     0.37um          4.2Msz
MUN    38.61 194 iPc   23 25.60   -0.4
SHL    38.64 305 iP    23 26.20   -0.5
       0.9s    31.51nm          5.2mb
                eS     29 18.00
MDJ    38.99   3 eP    23 27.00   -2.0
       1.0s    41.00nm          5.2mb
NWAO   39.28 192 iPc   23 32.50    0.9
STK    39.92 160 iPd   23 36.40   -0.4
       0.6s    52.80nm          5.6mb
LSA    41.09 310 Pc    23 47.60    0.5
       0.8s    12.00nm          4.8mb
GTA    41.43 328 eP    23 48.80   -0.5
       1.0s    28.00nm          5.0mb
     Z  26s     3.41um          5.1MszX
     E  17s     0.92um
                PcP    25 48.00
                ScP    29 31.00
                eS     29 57.00
                ScS    33 46.00
BRS    41.45 144 iPc   23 48.00   -1.5
                i      23 54.00
                i      24 19.00
ADE    41.92 165 iPd   23 54.00    0.7
ARMA   43.11 148 iPc   24 02.60   -0.6
       0.7s    47.00nm          5.4mb
YSS    43.59  16 iPc   24 06.00   -0.7
       0.7s    10.00nm          4.8mb
BWA    44.83 154 iPc   24 18.60    1.7
                ipP    24 22.50   13kmX
                e      26 11.00
CAN    45.84 154 iPc   24 25.60    0.7
                ipP    24 30.00   15kmX
                e      26 18.30
CNB    46.00 154 eP    24 27.00    0.9
TOO    46.42 159 eP    24 31.00    1.6
       0.8s    89.00nm          5.7mb
CIT    47.51 349 eP    24 39.00    1.2
DZM    47.78 126 iPc   24 40.00   -0.4
ZAK    48.73 340 eP    24 47.00   -0.2
       1.2s    18.00nm          4.9mb
                e      26 10.50
KOD    48.77 279 eP    24 49.00    0.6
GBA    48.97 283 P     24 49.00   -0.6
IRK    50.04 342 ePc   24 56.80   -0.4
       1.5s    37.00nm          5.2mb
WMQ    51.11 324 P     25 05.00   -0.6
       2.0s    22.00nm          4.8mb
     Z  12s     1.87um          5.3MszX
                ScP    30 10.00
                PcS    30 13.00
                ScS    34 48.00
NDI    51.95 302 iPc   25 10.00   -2.1
       0.5s    70.42nm          5.9mb
POO    52.90 289 eP    25 23.70    4.4X
YAK    56.38   2 iPc   25 42.50   -1.3
       0.9s   153.00nm          6.0mb
     Z  19s     0.30um          4.4Msz
     E  16s     0.20um
                eS     33 33.00
KSH    56.58 314 eP    25 46.60    0.7
       1.0s    36.00nm          5.4mb
     Z  24s     1.34um          5.0MszX
     N  15s     0.62um
     E  15s     1.16um
FRU    58.86 317 (P)   25 57.00   -4.7X
                e      26 27.00
                e      26 49.00
TIK    66.00   1 iPd   26 48.00   -0.5
       1.1s    66.00nm          5.5mb
     Z  20s     0.40um          4.6Msz
                eS     35 30.00
                ePS    35 58.00
                e      36 35.00
MAIO   68.24 307 iPc   27 02.80   -0.6
NRI    68.52 346 iPc   27 02.80   -1.6
       1.4s    55.00nm          5.3mb
     Z  20s     1.80um          5.3Msz
     E  20s     0.70um
                e      27 30.00
                e      29 45.00
                eS     36 01.00
ASH    69.41 308 eP    27 09.30   -1.1
       1.5s   120.00nm          5.5mb
ILT    72.16  19 iP    27 25.20   -1.2
SVE    72.29 328 iPd   27 28.00    0.6
       2.0s   140.00nm          5.5mb
                e      28 03.00
CSY    72.61 187 iPd   27 31.80    2.8
       0.8s    96.50nm          5.7mb
ARU    73.25 327 eP    27 33.00    0.0
                e      27 53.00
SHI    73.36 299 eP    27 33.00   -1.4
TAB    78.87 308 eP    28 05.00   -0.2
GRO    79.54 313 eP    28 09.00    0.5
       1.0s   160.00nm          5.8mb
MTA    80.14 311 iPc   28 11.60   -0.1
KDC    80.51  32 eP    28 13.48    0.2
KMSA   80.62 290 eP    28 13.33   -1.4
IMA    80.80  24 eP    28 15.19    0.2
       0.6s    10.17nm          4.9mb
CRP    80.97  29 eP    28 15.39   -0.6
PYA    81.46 314 eP    28 18.00   -0.7
       1.0s   100.00nm          5.6mb
AFIF   81.68 293 eP    28 21.20    0.9
UQSK   82.35 295 eP    28 24.33    0.6
ABHA   82.37 288 eP    28 28.50    4.3X
PMR    82.45  29 eP    28 22.75   -0.6
       0.9s    34.72nm          5.2mb
FBA    83.16  25 eP    28 26.31   -0.7
       0.9s     8.68nm          4.7mb
KLU    83.98  29 eP    28 31.57    0.2
MOS    84.82 325 eP    28 36.00    0.5
                e      31 56.00
MAW    85.39 200 P     28 39.00    0.9
       1.1s    54.35nm          5.5mb
OBN    85.43 325 eP    28 38.00   -0.6
       1.1s   117.00nm          5.8mb
     Z  22s     0.20um          4.5Msz
     E  24s     0.10um
                i      29 00.00
                i      29 08.00
                e      39 00.00
                (PS)   40 20.00
ANN    85.56 315 eP    28 39.00   -0.4
BALM   85.73  29 eP    28 40.83    0.7
GAZ    86.12 307 eP    28 42.10   -0.3
SBA    86.17 172 eP    28 43.40    1.6
INK    88.54  21 eP    28 53.00   -0.4
       1.0s     4.00nm          4.5mb
SDF    88.78 338 eP    28 54.00   -0.6
KAF    89.88 332 iP    28 59.20   -0.6
       0.5s     8.90nm          5.2mb
NUR    91.00 331 iP    29 04.60   -0.4
VRI    92.83 316 eP    29 13.00   -0.8
ISR    93.09 316 eP    29 20.00    4.9X
MLR    93.44 316 eP    29 16.00   -0.8
UPP    94.56 331 iP    29 20.60   -0.8
UZH    95.17 320 eP    29 27.30    2.9
       1.2s    60.00nm          5.9mb
DAG    95.43 352 iPd   29 25.30    0.1
       0.6s    14.67nm          5.6mb
RES    96.05  10 eP    29 28.00   -0.1
HFS    96.30 332 eP    29 28.30   -1.1
       0.8s    14.20nm          5.6mb
     Z  17s     0.14um          4.5MszX
                LR     08 43.00
PSZ    96.91 320 e(P)  29 28.70   -3.8X
NB2    97.06 334 P     29 31.40   -1.5
       0.9s     8.30nm          5.3mb
KSP    98.26 323 eP    29 36.50   -1.9
                ed     29 39.00
BUL    99.30 251 iP    29 43.80   -0.1
PRU    99.60 323 eP    29 44.00   -0.6
                e      29 47.80
BRG    99.64 324 eP    29 45.80    1.1
       1.0s    16.00nm          5.6mb
                i      30 07.10
SLR    99.80 245 eP    29 46.50    0.4
       0.8s    14.93nm          5.7mb
CLL   100.03 324 iPdiff29 47.00    0.6
       1.8s    22.00nm          5.5mb
KHC   100.50 322 ePdiff29 49.00    0.4
       1.2s     5.50nm          5.1mb
                e      30 04.50
                e      31 03.50
                e      33 45.00
GEC2  100.52 322 Pdiff 29 49.60    0.8
       0.9s     2.50nm          4.8mb
                e      29 51.80
                e      29 57.60
GRF   101.71 323 ePdiff29 54.70    0.7
                e      29 58.10
NVL   103.22 198 (Pdiff30 02.00    1.9
LBF   107.24 323 ePKP  34 28.30    0.8
       0.6s     1.25nm
BCAO  107.40 276 ePKPc 34 29.80    1.1
       0.5s     3.00nm
SSF   107.48 323 ePKP  34 28.10    0.2
       1.0s     5.60nm
WMOK  121.46  43 ePKP  34 54.81   -0.1
TUL   122.77  41 iPKP  34 58.40    1.1
UYO   124.70  41 iPKPc 35 00.70   -0.4
FVM   124.72  35 ePKP  35 00.68   -0.4
MIAR  125.04  40 ePKP  35 02.50    0.7
GAC   125.31  19 ePKP  35 01.50   -0.4
LMN   127.82  10 ePKP  35 07.00    0.2
BINY  128.23  21 ePKP  35 08.48    0.8
KIC   129.93 283 PKP   35 12.12    0.4
       0.7s    14.00nm
LKO   129.97 287 PKP   35 12.37    0.5
       0.6s    14.00nm
TIC   130.13 283 PKP   35 11.92   -0.2
       0.8s    16.00nm
LIC   130.23 283 PKP   35 12.12   -0.2
       0.8s    17.50nm
NAV   130.31  29 ePKP  35 12.70    0.8
MYNC  130.34  33 ePKP  35 12.50    0.5
                iSKP   38 32.67
                e      38 44.02
CEH   132.27  28 ePKP  35 16.38    0.8
RTCV  150.29 154 e(PKP)35 53.00    5.7X
CFA   150.63 154 e(PKP)35 49.00    1.1
CNCB  161.93 129 PKPc  36 02.30   -0.7
LPB   162.00 128 ePKPc 36 05.00    2.1X
LPAZ  162.12 128 PKPc  36 04.90    1.6
PPD   163.50 187 ePKP  36 07.20    3.4X
                e      36 57.20
     S.D. = 1.1  on 143 of 162 obs.
-----------------------------------
?  OCT  08, 1993  05h 33m 19.25± 1.21s
   44.230 N ±11.1km    8.260 E ±11.6km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                    (545)
      ML 1.4 (GEN).

FIN     0.04 241 P     33 21.43    0.0
                S      33 22.49
ROB     0.29 283 P     33 25.28    0.0
                S      33 28.76
PCP     0.37  33 P     33 26.93    0.0
                S      33 32.05
IMI     0.42 220 P     33 27.75    0.0
                S      33 33.84
     S.D. = 0.0  on   4 of   4 obs.
-----------------------------------
   OCT  08, 1993  05h 46m 32.77± 0.37s
    6.759 N ± 3.7km   72.965 W ± 3.7km
   DEPTH = 168.5 ±  4.0 km
   4.6mb ( 19 obs.)
 NORTHERN COLOMBIA                 ( 99)

FUQ     1.49 211 iPd   47 04.00   -0.4
BOG     2.39 207 iPd   47 15.50    1.2
                iS     47 46.00
SDV     3.13  47 iPnd  47 24.60    1.4
                iSn    48 02.60
TOV     4.35  46 iPnd  47 39.50    0.7
                iPP    47 40.10
                iSn    48 29.80
CEOS    5.11  64 iP    47 48.40   -0.4
MORO    6.15  48 iPd   48 02.40   -0.2
GUAC    6.58  58 iPc   48 08.20   -0.2
UPA     6.87 289 eP    48 08.02   -4.1X
                eS     50 31.18
OLLA    6.90  62 iPd   48 12.00   -0.6
CAR     7.04  58 iPc   48 14.00   -0.4
PSO     7.03 218 eP    48 15.00    0.3
LLAV    7.12  58 iPc   48 15.00   -0.5
ECO     7.15 292 eP    48 11.84   -4.0X
                eS     49 31.27
GUAN    7.91  66 iPd   48 25.20   -0.8
DVD     9.55 281 iP    48 46.97   -0.6
                eS     50 31.18
BRU     9.72 283 eP    48 49.38   -0.9
TCE    11.75  70 eP    49 25.08    8.7X
```

```
TPP     11.92  72 eP     49 28.92  10.3X
TRN     12.06  71 eP     49 27.85   7.4X
SLB     13.67  58 eP     49 44.44   3.5X
NNA     19.02 192 eP     50 42.20  -2.1
        0.6s     6.67nm          4.2mb
                  eS     54 12.50
LPAZ    23.39 168 iPd    51 28.60   0.3
                  LR     49 16.00
LPB     23.64 168 P      51 32.00   1.6
                  i      52 05.90
                  PP     55 34.00
CNCB    23.93 168 P      51 33.70   0.3
                  i      52 09.00
CCH     24.92 164 P      51 43.10   0.7
BAO     33.27 132 eP     52 57.50   1.0
UYO     33.74 327 iPc    53 00.30   0.2
TBR     34.25 358 eP     53 04.98   0.5
FVM     34.89 336 eP     53 09.86   0.0
        0.7s    24.51nm          5.0mb
PPD     35.62 144 eP     53 15.60  -0.6
LTX     36.62 312 eP     53 23.33  -1.3
WMOK    36.62 323 eP     53 23.11  -1.4
        0.6s     7.19nm          4.5mb
ACTO    37.23 351 P      53 30.88   1.4
WLVO    37.32 354 P      53 31.33   1.1
GAC     38.86 357 eP     53 44.00   1.0
LMN     39.58   9 eP     53 50.00   1.0
CBM     40.24   5 iPd    53 55.81   1.4
        0.6s    46.11nm          5.3mb
ALQ     41.66 317 eP     54 06.71   0.3
        1.2s     4.89nm          4.0mb
TUC     43.40 311 eP     54 21.76   1.3
        1.1s    11.02nm          4.4mb
GOL     43.84 323 iPc    54 24.48   0.3
        1.0s    30.72nm          4.9mb
PV08    45.18 320 eP     54 35.51   0.6
PV10    45.32 319 eP     54 35.69  -0.2
RSSD    46.07 329 eP     54 40.30  -1.4
        0.7s     3.29nm          4.0mb
SRU     46.69 319 eP     54 46.72   0.1
ULM     47.40 340 ePc    54 57.90   6.2X
MSU     47.45 318 eP     54 53.04   0.4
DAU     47.88 320 eP     54 56.27   0.3
DUG     48.76 319 eP     55 02.98   0.4
        0.8s     5.57nm          4.2mb
GSC     49.22 312 eP     55 06.14   0.1
HVU     49.59 321 eP     55 08.13  -0.8
BONR    51.43 314 eP     55 23.47   0.4
LRM     51.71 325 ePc    55 24.90  -0.1
DPW     56.13 325 eP     55 56.31  -0.7
KMPM    56.56 315 eP     56 00.30   0.2
RMW     58.03 323 eP     56 09.19  -1.1
MCW     59.21 324 eP     56 08.88  -9.5X
YKA     63.37 340 eP     56 44.90  -1.1
        0.7s    22.10nm          5.2mb
LKO     66.67  83 P      57 06.99  -1.0
        0.7s     9.00nm          4.7mb
TIC     67.43  86 P      57 11.67  -1.1
        0.7s    11.50nm          4.8mb
LIC     67.45  86 Pc     57 12.13  -0.7
        0.6s    22.00nm          5.1mb
KIC     67.72  86 P      57 14.03  -0.6
        0.7s    37.00nm          5.3mb
INK     73.14 340 eP     57 46.50   0.4
        0.6s     4.00nm          4.3mb
CRP     78.91 331 eP     58 17.76  -1.1
NB2     81.31  29 P      58 32.60   1.3
        0.7s     3.70nm          4.2mb
HFS     82.52  30 eP     58 37.40  -0.2
        0.5s     1.70nm          4.0mb
GEC2    82.77  42 P      58 39.20   0.0
        0.7s     2.88nm          4.2mb
BCAO    90.97  85 iPd    59 19.90   0.4
        0.5s    10.00nm          5.2mb
GTA    133.58   8 ePKP   05 31.80   0.5
XAN    139.39 358 PKP    05 36.50  -5.7X
SSE    140.00 341 ePKP   05 56.50  13.2X
        1.5s    50.00nm
GBA    144.32  55 PKP    05 50.00  -1.2
SHL    144.65  24 iPKP   05 50.50  -1.3
QIS    145.60 243 ePKP   05 53.20  -0.1
GYA    146.98   1 PKP    05 57.60   2.0
KMI    148.04   7 ePKP   05 56.50  -0.9
ASPA   149.20 234 iPKPc  06 03.00   3.9X
        0.6s    34.80nm
                  e      06 07.70
WR2    150.42 241 iPKPc  06 01.60   0.7
        0.5s    35.80nm
                  i      06 06.20
                  i      06 48.10
WRA    150.44 241 PKP    06 01.90   0.9
        0.5s     9.00nm
      S.D. = 0.9  on  67 of  78 obs.
-----------------------------------
   OCT  08, 1993  05h 57m 45.44± 0.65s
   46.478 N ±11.2km   13.243 E ± 9.6km
   DEPTH =  10.0km  (geophysicist)
 AUSTRIA                          (546)
      ML 2.1 (VIE). MD 2.5 (LJU).

KBA     0.60   7 iPgd   57 57.60  -0.2
                  iSg    58 06.50
VOY     0.63 134 ePg     57 56.20  -2.1
                  eSg    58 06.30
LJU     1.00 115 eP      58 04.50   0.2
                  eSg    58 19.90
CEY     1.11 131 ePg     58 07.30   1.1
                  eSg    58 22.80
WTTA    1.35 306 iPgc    58 09.80  -0.7
                  iSg    58 27.20
WATA    1.43 308 iPgc    58 11.20  -0.4
                  iSg    58 29.60
SQTA    1.58 299 iPgd    58 13.80   0.1
                  iSg    58 34.50
MOTA    1.70 301 iPgd    58 16.50   1.0
                  iSg    58 38.70
VBY     1.71 124 e(Pg)   58 16.30   0.9
                  e(Sg)  58 40.80
KHC     2.66   5 ePg     58 39.00   9.8X
                  eSg    59 10.00
      S.D. = 1.1  on   9 of  10 obs.
-----------------------------------
?  OCT  08, 1993  06h 25m 47.20± 0.94s
   44.249 N ± 8.3km    8.216 E ± 9.3km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                   (545)
      ML 1.4 (GEN).

FIN     0.04 188 P       25 49.46   0.1
                  S      25 50.56
ROB     0.25 281 P       25 52.62   0.0
                  S      25 56.79
PCP     0.38  39 P       25 54.91   0.0
                  S      25 59.90
IMI     0.41 215 P       25 55.51  -0.1
      S.D. = 0.2  on   4 of   4 obs.
-----------------------------------
*  OCT  08, 1993  06h 36m 17.64± 0.51s
   35.903 S ±17.2km  102.778 W ±12.8km
   DEPTH =  10.0km  (geophysicist)
   5.3mb (  3 obs.)  5.5Msz (  2 obs.)
 SOUTHERN PACIFIC OCEAN           (692)
      Mw 5.8 (HRV).
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 51S, **C
      Centroid Location:
      Origin Time        06:36:24.9 0.1
      Lat 35.99S 0.02 Lon 102.70W 0.02
      Dep  15.0 FIX Half-duration  1.9
      Moment Tensor;   Scale 10**17 Nm
        Mrr=-0.06 0.06  Mtt=-1.10 0.07
        Mff= 1.16 0.08  Mrt= 0.74 0.17
        Mrf=-1.29 0.22  Mtf=-4.67 0.06
      Principal Axes:
        T  Val=  5.24  Plg=15  Azm= 52
        N       -0.46      74      221
        P       -4.79       3      321
      Best Double Couple:Mo=5.0*10**17
       NP1:Strike= 96 Dip=77 Slip= 171
       NP2:       188     81       13

FSA    32.84  83 ePd    42 55.70   2.2
SLA    33.87  81 eP     43 04.70   1.9
CNCB   36.25  68 iPc    43 24.20   0.6
LPB    36.34  67 Pc     43 23.50  -0.7
       1.2s    68.75nm          5.4mb
                  S      49 08.00
                  LR     53 32.00
CCH    37.31  70 eP     43 32.00  -0.2
PPD    46.60  87 eP     44 46.10  -1.7
                  e      44 57.90
BAO    52.60  82 eP     45 33.00  -1.1
                  e      45 37.00
SDV    53.86  41 eP     45 41.20  -2.2
SPA    54.28 180 iPc    45 44.90  -1.1
       0.9s    31.82nm          5.3mb
     Z  20s     3.15um          5.4Msz
                  i      02 32.60
SBA    55.31 195 eP     45 53.60   0.5
MRW    62.41 238 (P)    46 41.50  -1.5
NVL    63.97 160 (P)    46 35.00 -17.9X
     Z  17s     1.50um          5.2MszX
     N  17s     0.50um
     E  17s     1.00um
                  e      46 51.00
                  e      47 25.00
                  ePP    49 14.00
                  ePP    51 10.00
                  e      52 57.00
                  (S)    55 35.00
                  ePS    55 51.00
                  eSS    59 43.00
                  eSSS   02 25.00
DRV    67.20 203 eP     47 15.00   1.4
                  S      56 09.00
                  SS     00 24.00
UYO    70.14   7 iPd    47 27.10  -5.0X
TUL    71.74   6 iP     47 46.30   4.6X
LRM    81.82 353 eP     48 39.70   1.6
ARMA   83.94 237 eP     48 48.60  -0.9
       1.0s    18.00nm          5.3mb
GAC    84.89  19 eP     48 53.50   0.0
BRS    85.01 240 iPc    48 56.00   1.2
ULM    86.00   4 eP     49 13.50  14.6X
WRA   102.52 234 Pdiff  50 20.20   4.3X
       0.8s     0.40nm          4.2mb X
GEC2  132.64  54 PKP    55 36.10   2.2X
       1.0s     2.32nm
                  e      55 50.30
MDJ   139.70 299 ePKP   55 48.50   1.4
NJ2   145.45 276 PKPd   55 56.50  -1.0
TIA   147.90 283 ePKP   56 02.40   1.0
WHN   148.61 271 ePKP   56 02.50  -0.2
BJI   149.18 290 ePKP   56 08.00   4.7X
     Z  24s     0.64um          5.3MszX
NST   151.30 231 ePKP   56 12.20   5.1X
LOE   151.51 236 ePKP   56 13.00   5.6X
TIY   151.85 284 ePKP   56 12.50   5.0X
     Z  22s     1.03um          5.6Msz
GTA   161.78 288 ePKP   56 23.50   3.8X
MAIO  165.66  83 ePKP   56 34.00  10.6X
KSH   176.32  15 ePKP   56 27.50  -1.1
      S.D. = 1.4  on  21 of  33 obs.
-----------------------------------
%  OCT  08, 1993  07h 55m 50.32± 1.42s
   39.229 N ± 7.6km   27.858 E ±15.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 2.7 (ISK).

IZM     0.95 209 ePg     56 08.50   0.0
                  eSg    56 23.50
EDC     1.12   0 ePn     56 11.00  -0.2
BNT     1.13   2 ePn     56 11.50   0.1
KGT     1.29 341 iPn     56 14.50   0.2
EZN     1.33 297 ePn     56 14.70  -0.1
      S.D. = 0.3  on   5 of   5 obs.
-----------------------------------
*  OCT  08, 1993  08h 21m 53.85± 0.54s
    2.061 S ± 8.5km   78.402 W ±11.5km
   DEPTH =  33.0km  (normal)
   4.6mb (  8 obs.)
 ECUADOR                          (107)
      Felt in the Riobamba area.

NNA     9.98 171 iPc    24 18.90   0.7
       0.4s    25.42nm          5.8mb X
                  eS     26 05.20
SDV    13.35  35 eP     25 03.90   0.1
TOV    14.56  36 eP     25 21.80   2.2
LPAZ   17.38 145 Pd     25 57.80   1.5
     Z  24s     9.00um
                  LR     33 48.00
LPB    17.60 145 Pd     26 02.00   3.3X
       1.0s    20.00nm          4.2mb
                  eLR    33 50.00
CNCB   17.89 146 P      26 02.00  -0.5
CCH    19.42 142 P      26 17.30  -3.6X
LTX    39.49 324 (P)    29 22.73  -0.6
ALQ    45.24 327 iPd    30 11.16   0.9
```

08d 08h

```
        0.8s     9.85nm          4.8mb
TUC     45.92 321 iPd   30 17.49   2.0
        0.8s     4.92nm          4.5mb
GOL     48.36 332 iPd   30 34.60  -0.2
        0.6s     3.45nm          4.6mb
RSSD    51.38 336 iPd   30 57.57  -0.3
        0.8s     6.06nm          4.6mb
DAU     51.83 328 eP    31 01.72   0.3
LRM     56.39 332 eP    31 33.80  -0.9
ORV     57.21 321 eP    31 40.76   0.4
RMW     62.20 328 (P)   32 12.70  -1.9
LKO     73.42  79 P     33 23.39  -1.9
        0.9s     6.50nm          4.7mb
TIC     73.75  83 P     33 26.05  -1.2
        0.9s     7.00nm          4.6mb
KIC     74.01  83 P     33 27.71  -1.0
        0.7s    10.00nm          4.9mb
LZH    146.08 357 ePKP  41 32.40   0.5
        1.0s    37.00nm
      S.D. = 1.3  on  18 of  20 obs.
-----------------------------------
*  OCT  08, 1993  08h 24m 52.42± 0.57s
   56.083 S ±10.7km   26.285 W ±12.8km
   DEPTH =  33.0km  (normal)
   5.1mb (  8 obs.)
 SOUTH SANDWICH ISLANDS REGION   (153)

SNA     17.69 153 iPc   28 57.60   0.2
        0.8s   137.31nm          5.1mb
NVL     21.96 147 iPc   29 45.00   0.5
        1.8s   135.00nm          5.1mb
                  ePP   30 17.00
                  ePPP  30 30.00
                  e     30 47.00
                  eS    33 42.00
                  eSS   34 22.00
CER     38.59  73 iPd   32 12.00  -1.8
        0.5s    36.00nm          5.4mb
PPD     38.73 321 eP    32 15.20   0.2
CNCB    50.29 304 P     33 49.00   0.8
LPAZ    50.81 304 Pc    33 51.10  -1.2
                  LR    52 08.00
LIC     64.52  24 P     35 28.55   0.5
        0.6s     9.50nm          5.1mb
KIC     64.72  24 P     35 29.71   0.4
        0.7s     9.00nm          5.0mb
TIC     64.93  23 P     35 31.03   0.3
        0.6s    10.00nm          5.1mb
LKO     67.61  22 P     35 48.28   0.4
        0.6s     9.50nm          5.1mb
BCAO    70.56  48 iPd   36 06.80   0.8
        0.2s    36.00nm          6.1mb
                   i    36 34.00
INK    146.15 320 ePKP  44 27.00  -1.0
        0.8s     6.00nm
BJI    150.68 107 ePKP  44 39.00   3.0X
      S.D. = 0.9  on  12 of  13 obs.
-----------------------------------
%  OCT  08, 1993  08h 33m 09.29± 1.18s
   39.110 N ± 7.5km   27.669 E ±14.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.7 (ISK).

IZM      0.78 204 ePg   33 24.50   0.0
                  eSg   33 38.50
EDC      1.24   7 ePn   33 32.00  -0.4
BNT      1.26   9 ePn   33 33.00   0.3
EZN      1.26 305 ePn   33 32.70   0.0
KGT      1.37 348 iPn   33 34.50   0.1
      S.D. = 0.4  on   5 of   5 obs.
-----------------------------------
%  OCT  08, 1993  09h 10m 48.53± 0.91s
   39.694 N ± 7.9km   29.477 E ± 9.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.8 (ISK).

ALT      0.80 142 ePg   11 04.20   0.0
                  eSg   11 16.00
EYL      1.02  31 ePn   11 08.00   0.2
HRT      1.14   7 ePn   11 09.50  -0.3
EDC      1.40 298 ePn   11 14.00  -0.1
CTT      1.66 332 ePn   11 18.00   0.2
      S.D. = 0.3  on   5 of   5 obs.
-----------------------------------
%  OCT  08, 1993  09h 17m 18.45± 0.91s
   39.688 N ± 7.8km   29.491 E ± 9.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.8 (ISK).

ALT      0.79 143 ePg   17 34.00   0.1
                  eSg   17 45.00
EYL      1.02  30 ePn   17 37.50  -0.2
HRT      1.14   7 ePn   17 40.00   0.2
EDC      1.41 298 ePn   17 44.00  -0.2
CTT      1.67 331 ePn   17 48.00   0.2
      S.D. = 0.3  on   5 of   5 obs.
-----------------------------------
%  OCT  08, 1993  09h 22m 08.55± 1.98s
   39.590 N ±14.4km   23.506 E ±15.0km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                      (365)

OUR      0.83  26 eP    22 24.98   0.4
                  eS    22 34.66
LIT      0.93 303 eP    22 25.82  -0.6
                  eS    22 41.90
AGG      1.07 238 eP    22 28.38  -0.4
                  eS    22 42.06
SOH      1.24 355 eP    22 30.38  -1.2
                  eS    22 48.42
SRS      1.53   2 eP    22 35.90   0.0
                  iS    22 56.98
FNA      2.02 307 iP    22 44.78   1.7
      S.D. = 1.3  on   6 of   6 obs.
-----------------------------------
*  OCT  08, 1993  09h 50m 27.13± 0.85s
   40.128 N ± 8.2km   21.318 E ± 9.0km
   DEPTH =  33.0km  (normal)
 GREECE                          (364)

FNA      0.66   4 eP    50 41.42   1.4
                  eS    50 51.22
LIT      0.90  91 eP    50 42.69  -0.7
                  eS    50 57.50
IGT      0.96 232 eP    50 43.82  -0.5
                  eS    51 00.62
OHR      1.06 338 iPn   50 51.30   5.6X
GRG      1.17  45 eP    50 44.18  -3.1X
                  eS    51 01.78
AGG      1.35 144 eP    50 50.78   0.9
                  eS    51 08.86
THE      1.36  68 iP    50 50.90   1.0
                  eS    51 05.98
KNT      1.59  49 eP    50 51.98  -1.3
                  eS    51 11.94
SOH      1.70  65 eP    50 54.70  -0.3
                  eS    51 14.06
SKO      1.84   3 e(Pn) 50 56.50  -0.5
      S.D. = 1.1  on   8 of  10 obs.
-----------------------------------
%  OCT  08, 1993  09h 58m 15.67± 0.73s
   40.206 N ± 7.3km   27.036 E ± 8.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.9 (ISK).

KGT      0.32  40 iPg   58 23.00   0.7
MFT      0.61  18 iPg   58 27.50  -0.5
EDC      0.65  77 iPg   58 28.00  -0.6
                  eSg   58 38.00
EZN      0.67 235 iPg   58 28.20  -0.7
BNT      0.69  77 ePg   58 28.50  -0.9
                  eSg   58 39.00
CTT      1.42  48 iPn   58 42.00   0.5
DMK      1.70  18 ePn   58 46.00   0.4
IZM      1.81 174 ePn   58 48.20   1.0
      S.D. = 0.9  on   8 of   8 obs.
-----------------------------------
%  OCT  08, 1993  10h 33m 29.86± 1.16s
   39.415 N ± 6.9km   27.934 E ±12.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.9 (ISK).

EDC      0.93 357 iPg   33 47.00  -0.6
                  eSg   34 00.00
BNT      0.94 359 iPg   33 47.50  -0.3
IZM      1.14 207 ePn   33 51.30   0.0
KGT      1.14 335 iPn   33 52.00   0.8
EZN      1.31 289 ePn   33 53.70  -0.3
MFT      1.46 340 ePn   33 56.50   0.2
                  eSg   34 00.50
CTT      1.77  12 ePn   34 01.00   0.3
      S.D. = 0.6  on   7 of   7 obs.
-----------------------------------
?  OCT  08, 1993  10h 36m 12.09± 1.30s
   51.094 N ±20.1km   15.708 E ± 8.2km
   DEPTH =  10.0km  (geophysicist)
 POLAND                          (548)

BRG      1.14 259 iPg   36 33.40   0.1
                  iSg   36 53.40
CLL      1.72 278 iPg   36 42.10   0.0
                  iSg   37 08.70
KHC      2.40 216 ePn   36 52.00   0.0
                  e     36 57.40
                  e     37 02.60
                  eSn   37 26.00
                  eSg   37 37.60
GEC2     2.60 211 Pn    37 02.90   8.0X
        0.8s     2.21nm
MOX      2.63 262 ePg   37 01.60   6.3X
                  iSg   37 40.90
OJC      2.75 107 eP    36 57.00   0.0
                  iS    37 30.60
      S.D. = 0.1  on   4 of   6 obs.
-----------------------------------
   OCT  08, 1993  11h 14m 01.38± 0.93s
   48.596 N ±10.7km   10.000 E ± 6.6km
   DEPTH =  10.0km  (geophysicist)
 GERMANY                         (543)
      ML 2.7 (LDG), 2.5 (VIE), 2.4
      (FUR).

FUR      0.95 116 ePg   14 18.10  -1.5
SLE      1.31 231 iPd   14 24.90  -0.7
MOTA     1.45 149 iPgd  14 28.00   0.1
                  iSg   14 48.70
FEL      1.51 242 ePn   14 31.00   2.4
SQTA     1.60 149 iPgc  14 30.90   1.0
                  iSg   14 53.30
WATA     1.65 139 iPgc  14 31.00   0.4
                  iSg   14 54.10
WTTA     1.73 140 iPgc  14 32.50   0.7
                  iSg   14 57.30
                   i    18 43.40
CDF      1.82 265 Pg    14 36.10   3.0X
                  Sg    15 01.10
LLS      1.86 202 eP    14 33.00  -0.7
ABH      2.06 310 ePn   14 37.10   0.6
BSF      2.28 252 Pn    14 37.40  -2.3
                  Pg    14 45.30
                  Sg    15 15.10
KHC      2.42  76 ePg   14 41.50  -0.2
                  eSg   15 10.50
GEC2     2.46  83 Pn    14 38.20  -4.1X
                  Sg    15 14.70
HAU      2.51 258 Pg    14 49.00   6.1X
                  Sg    15 21.60
KBA      2.72 123 iPgd  14 50.30   4.3X
                  iSg   15 26.20
      S.D. = 1.4  on  11 of  15 obs.
-----------------------------------
%  OCT  08, 1993  12h 08m 41.96± 1.17s
   39.102 N ± 7.5km   27.664 E ±14.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.8 (ISK).

IZM      0.77 204 ePg   08 57.00   0.0
                  eSg   09 09.00
EDC      1.25   7 ePn   09 05.00  -0.2
EZN      1.26 305 ePn   09 05.30  -0.1
BNT      1.27   9 ePn   09 05.50   0.0
KGT      1.38 348 iPn   09 07.50   0.3
      S.D. = 0.3  on   5 of   5 obs.
-----------------------------------
%  OCT  08, 1993  12h 16m 48.79± 0.73s
   41.189 N ± 8.4km   28.741 E ± 4.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.7 (ISK).

CTT      0.24 260 iPg   16 54.00   0.1
                  iSg   16 59.00
ISK      0.27 117 iPg   16 54.50   0.0
HRT      0.79 117 ePn   17 04.50   0.3
DMK      0.97 311 ePn   17 07.50   0.2
```

```
BNT     1.04 217 ePn   17 09.00   0.6
EDC     1.07 219 ePn   17 09.00   0.0
MFT     1.18 251 ePn   17 10.00  -0.8
EYL     1.24 120 ePn   17 11.50  -0.4
     S.D. = 0.5  on   8 of   8 obs.
-------------------------------------
&  OCT  08, 1993  13h 14m 57.12s
   37.570 N          118.872 W
   DEPTH =   7.8km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      <GM-P>. MD 3.6 (GM). ML 3.7
      (BRK), 3.5 (GS).

MEMM    0.11 331 iPd   14 59.94   0.2
MMPM    0.13 288 iPd   15 00.10  -0.2
MRCM    0.31  71 iPc   15 03.36  -0.1
MTUM    0.33 131 iPd   15 03.57  -0.3
BONR    0.59  49 iPc   15 08.62  -0.5
CMB     1.29 292 ePd   15 20.60  -0.6
                eS     15 37.66
TNP     1.41  68 iPc   15 23.52   0.3
PKEM    1.80 214 eP    15 29.53   0.8
ISA     1.93 170 iPd   15 32.18   1.5
ARN     2.13 265 ePc   15 34.45   0.9
TPNV    2.18 106 ePc   15 34.32  -0.1
SAO     2.21 249 ePc   15 35.78   1.2
MHC     2.22 265 eP    15 36.20   1.3
COE     2.25 263 eP    15 37.17   1.9
PRS     2.35 239 iP    15 37.74   1.0
HMR     2.39 285 eP    15 40.50   3.3
GCC     2.55 259 iP    15 40.40   1.0
BCH     2.57 203 iPd   15 40.53   0.6
BKS     2.68 278 eP    15 42.83   1.4
ABL     2.73 186 eP    15 43.59   1.3
GSC     2.81 143 ePnd  15 43.34   0.0
                Pg     15 49.37
JEGM    2.85 270 (P)   15 43.98   0.2
ORV     2.86 315 eP    15 48.03   4.1
NTYM    3.10 286 (P)   15 49.77   2.5
SSK     3.49 164 eP    15 54.57   1.6
PEC     3.93 159 eP    16 00.41   1.4
WDC     4.14 318 (Pn)  16 12.88  10.8
ARUT    4.31  85 (P)   16 05.32   0.6
LBFM    4.44 329 (P)   16 07.61   1.2
PLM     4.52 158 eP    16 06.83  -0.7
KMPM    4.98 306 (Pn)  16 17.82   3.8
                Pg     16 31.90
MSU     5.37  78 (P)   16 27.06   7.3
DUG     5.40  59 (P)   16 21.31   1.1
HVU     6.31  46 (P)   16 37.15   4.3
DAU     6.58  62 (P)   16 43.20   6.4
       35 obs. associated
-------------------------------------
   OCT  08, 1993  13h 57m 54.19± 0.58s
   42.588 N ± 3.4km  139.362 E ± 2.5km
   DEPTH =  24.3 ±  4.5 km
   5.0mb ( 64 obs.)  4.3Msz (  3 obs.)
 HOKKAIDO, JAPAN  REGION          (224)

MRRJ    1.27  97 eP    58 15.60  -0.9
                S      58 31.80
SAP     1.52  71 eP    58 21.00   0.9
                iS     58 40.60
AOMJ    2.16 159 P     58 27.60  -1.8
                S      58 53.30
ASAJ    2.84  56 P     58 38.80  -0.1
HOOJ    2.91  93 iPd   58 40.30   0.4
                eS     59 15.70
OFUJ    3.92 153 P     58 53.60  -0.6
KUSJ    3.97  81 eP    58 55.20   0.3
                eS     59 45.30
YAMJ    4.44 173 eP    59 00.20  -1.5
YSS     5.03  27 ePnd  59 10.70   0.7
     Z  12s     3.20um
     N  12s     3.80um
     E  12s     3.60um
NIIJ    5.35 183 eP    59 13.70  -0.8
                eS     00 08.50
VLA     5.52 278 iPnc  59 15.00  -1.9
     E  12s     5.40um
                i      00 21.00
MAT     6.10 189 eP    59 24.00  -1.2
       0.8s     8.21nm          4.5mb
                eS     00 28.00
KAKJ    6.41 174 eP    59 30.70   1.3
CHJJ    6.54 183 eP    59 35.10   3.8X
KUR     6.69  64 ePn   59 36.00   2.6
     Z  14s     5.40um
     N  14s     5.40um
     E  14s     5.40um
MDJ     7.38 289 eP    59 41.20  -1.8
       0.9s    68.00nm          5.8mb
     Z  14s     3.42um          4.4Msz
     N  12s     2.74um
YONJ    8.70 214 P     00 01.00  -0.5
WKYJ    8.86 201 P     00 09.20   5.4X
TKSJ    9.55 208 P     00 14.30   1.1
CN2    10.24 282 eP    00 22.20  -0.4
       1.0s    13.00nm          5.2mb
     Z  13s     2.92um          4.6MszX
     N  12s     2.18um
     E  12s     2.39um
                esP    00 36.00
                eS     02 19.00
SHNJ   10.64 220 eP    00 28.60   0.4
SNY    11.73 272 iPc   00 45.00   2.0
       1.3s   120.00nm          6.0mb
     Z  11s     1.18um          3.7MszX
     N  10s     1.07um
     E  11s     0.91um
                sP     00 57.50
DL2    13.94 261 eP    01 13.50   1.2
     Z  16s     1.18um
SKR    14.03  49 eP    01 15.00   1.5
       1.0s   220.00nm          5.8mb
     Z  12s     1.10um
     E  12s     1.10um
PET    16.58  44 eP    01 42.00  -4.4X
     Z  14s     1.70um
                eS     04 52.00
BJI    17.60 270 eP    01 59.00  -0.2
       1.2s    21.00nm          4.1mb
     Z  18s     1.18um          5.0MszX
TIA    18.30 257 eP    02 09.30   1.3
       1.4s   130.00nm          4.9mb
     Z  18s     1.08um          4.5Msz
SSE    18.48 238 Pd    02 13.00   2.8
       1.5s   110.00nm          4.8mb
     Z  16s     1.30um          4.3MszX
                pP     02 23.20
MGD    18.88  18 eP    02 13.00  -2.0
       1.4s   120.00nm          4.9mb
                eS     05 48.00
NJ2    19.36 244 Pd    02 21.00   0.2
     Z  20s     1.18um          5.6Msz
CIT    19.76 307 eP    02 25.00  -0.1
YAK    20.29 347 iPd   02 29.00  -1.6
       0.8s    47.00nm          4.9mb
     N  14s     1.80um
     E  14s     1.30um
                epP    02 49.00 103kmX
                i      02 54.00
                iS     06 13.00
HHC    20.79 275 P     02 37.00   0.9
       1.6s   190.00nm          5.3mb
     Z  14s     1.18um          4.4MszX
     N  10s     0.79um
     E  11s     0.71um
TIY    21.11 266 eP    02 40.40   1.1
     Z  20s     1.37um          4.3Msz
     N  11s     0.57um
                PP     03 00.00
BTO    21.99 275 eP    02 50.00   1.8
     N  10s     0.20um
     E  12s     0.32um
XAN    25.26 260 P     03 20.60   0.6
     Z  16s     0.59um          4.2MszX
                pP     03 28.00  26kmX
                sP     03 32.50
                S      07 46.00
                SS     08 39.00
                ScS    14 18.00
IRK    25.39 305 eP    03 35.00  14.0X
       1.4s    25.00nm
     Z  13s     1.24um          4.6MszX
     N  12s     0.37um
     E  12s     1.17um
ZAK    25.83 300 eP    03 29.70   4.6X
       1.2s    12.00nm          4.4mb
LZH    28.08 269 eP    03 44.50  -1.5
       1.4s    26.00nm          4.8mb
     Z  16s     0.78um          4.4MszX
                pP     03 53.50  32kmX
TIK    29.58 353 eP    04 05.00   6.1X
                e      04 12.00
                e      05 07.00
GTA    29.83 277 eP    04 01.00  -0.7
     Z  13s     1.24um          4.7MszX
     E  12s     0.63um
                pP     04 08.40  25kmX
                sP     04 12.50
                PcP    07 04.00
                sS     09 09.00
                ScP    10 43.00
                PcS    10 47.50
                ScS    14 37.50
ILT    33.70  27 iPc   04 32.20  -2.8
       1.7s    40.00nm          5.1mb
WMQ    37.18 290 eP    05 06.60   1.6
     Z  14s     2.08um          5.1MszX
     E  14s     2.39um
                PP     06 26.00
NRI    37.42 333 eP    05 04.00  -2.6
       1.2s     9.00nm          4.5mb
     Z  18s     1.40um          4.8Msz
     E  18s     1.00um
                e      07 24.00
FRU    46.49 293 (P)   06 28.00   6.9X
       2.0s    30.00nm          4.9mb
     Z  12s     0.60um          4.8MszX
     E  12s     0.80um
                e      07 55.00
KSH    46.93 289 eP    06 26.50   1.8
       1.0s    22.00nm          5.1mb
     Z  16s     1.19um          4.9MszX
     N  12s     0.74um
     E  12s     2.71um
                pP     06 32.00  18kmX
BALM   48.55  39 eP    06 36.82  -0.3
SVE    50.02 315 ePd   06 49.50   1.2
       1.3s    80.00nm          5.6mb
     Z  11s     0.40um          4.7MszX
     N  14s     0.50um
     E  14s     1.10um
                e      08 15.00
INK    50.23  29 eP    06 49.50  -0.2
       1.0s    10.00nm          4.8mb
ARU    51.22 315 eP    06 53.00  -4.4X
     Z  14s     2.00um          5.3MszX
RES    57.63  15 eP    07 43.00  -1.1
       1.0s     9.00nm          4.8mb
SDF    59.29 336 eP    07 55.00  -0.8
ASH    59.73 295 eP    07 58.40  -0.7
YKA    59.84  31 eP    07 58.70  -0.8
       0.8s    13.20nm          5.1mb
MAIO   59.84 293 eP    08 08.00   7.9X
GBA    60.30 261 P     08 03.00  -0.2
MOS    61.90 321 eP    08 14.00   0.4
     Z  14s     1.00um          5.1MszX
                e      08 21.00
WRA    62.39 185 P     08 15.40  -1.8
       0.9s    10.20nm          5.0mb
WR2    62.39 185 iPd   08 14.70  -2.5
       1.0s    17.80nm          5.2mb
KAF    62.67 331 iP    08 17.60  -1.1
       0.6s     7.30nm          5.0mb
OBN    62.74 321 iPd   08 18.80  -0.4
       1.0s    35.00nm          5.4mb
     Z  16s     0.60um          4.9MszX
     N  16s     0.10um
     E  16s     0.50um
                i      08 27.10
                e      08 54.00
MCW    64.00  47 ePc   08 27.48  -0.2
NUR    64.33 330 eP    08 28.50  -1.1
       0.6s    10.00nm          5.1mb
JCW    64.77  47 P     08 32.50  -0.2
BMW    65.07  49 P     08 35.07   0.3
RMW    65.27  48 ePc   08 36.12   0.1
KMOR   65.42  50 P     08 37.39   0.4
FMW    65.66  48 P     08 38.27  -0.4
LON    65.69  48 ePc   08 38.14  -0.6
SHW    65.79  49 eP    08 40.01   0.6
ASPA   66.11 185 iPd   08 40.40  -1.0
       0.9s    17.30nm          5.2mb
WTV    66.13  47 P     08 40.82  -0.7
ASR    66.17  49 P     08 42.17   0.3
EBG    66.28  48 P     08 42.69   0.3
SAW    66.42  46 P     08 42.87  -0.5
SSOR   66.47  50 P     08 44.14   0.4
VBEM   66.84  50 P     08 46.24   0.1
```

08d 14h

```
WAH2   66.92  47 P     08 46.31  -0.1
DPW    66.96  46 ePc   08 46.35  -0.4
VGB    67.01  49 ePc   08 47.02  -0.1
CROR   67.22  49 P     08 48.51   0.0
NEW    67.28  45 ePc   08 47.81  -0.9
       0.8s    27.16nm          5.4mb
JBO    67.57  48 P     08 50.73   0.1
MNK    67.59 324 eP    08 47.00  -3.5X
VIPM   67.72  50 P     08 51.81   0.0
FHC    68.04  54 eP    08 54.34   0.7
       0.8s    31.22nm          5.5mb
                e      08 59.26
LNOR   68.16  47 P     08 54.60   0.3
KMPM   68.20  55 eP    08 48.95  -5.7X
                i      08 55.58
HFS    68.40 334 eP    08 54.00  -1.5
       0.7s     9.70nm          5.0mb
     Z  16s     0.14um          4.3MszX
                LR     36 07.00
NB2    68.47 336 P     08 55.00  -1.0
       0.9s    11.80nm          5.0mb
LBFM   68.95  53 ePc   08 59.33  -0.2
WDC    69.04  54 eP    08 59.60  -0.2
       0.9s     9.50nm          4.9mb
WARB   69.43 192 iPd   08 50.40 -11.7X
       0.5s     4.00nm
ORV    70.31  54 ePc   09 06.78  -0.8
BRS    70.72 167 iPc   09 11.50   1.5
LRM    71.29  45 ePc   09 13.60  -0.1
FRB    71.72  13 eP    09 15.00  -0.6
       1.0s    24.00nm          5.2mb
CMB    71.95  55 ePc   09 17.27  -0.3
       0.9s    20.26nm          5.2mb
MEMM   73.06  54 eP    09 24.86   0.9
BONR   73.25  54 ePc   09 25.60   0.1
PTI    73.33  47 eP    09 26.84   1.1
OJC    73.58 324 iPc   09 27.20   0.4
       1.0s    59.00nm          5.6mb
                e      09 36.00
TNP    73.81  53 ePc   09 28.63   0.0
       0.7s    14.30nm          5.1mb
HVU    73.85  48 ePc   09 28.85   0.1
SPC    74.15 323 eP    09 31.00   0.6
KSP    74.58 327 iP    09 32.40  -0.2
                i      09 41.60
ISA    74.66  56 ePc   09 32.50  -0.9
       0.8s     8.05nm          4.8mb
ABL    74.73  57 eP    09 33.88  -0.2
DUG    74.91  49 iPd   09 35.37   0.5
       1.2s    33.76nm          5.2mb
TPNV   75.14  53 iPd   09 36.54   0.3
       0.8s    17.75nm          5.1mb
PSZ    75.25 323 e(P)  09 36.50  -0.1
BRG    75.49 328 iP    09 37.60  -0.2
       1.0s    14.00nm          4.9mb
                i      09 46.80
                i      10 02.00
CLL    75.52 329 iPc   09 37.40  -0.5
       1.0s    28.00nm          5.2mb
                i      09 46.80
DAU    75.63  48 ePc   09 39.58   0.4
ULM    75.72  33 ePd   09 41.70   2.6
GSC    75.91  55 iPc   09 40.51  -0.1
PRU    75.95 327 iPd   09 41.10   0.7
                i      09 49.90
ARUT   76.21  51 ePc   09 42.25  -0.1
ZST    76.27 324 e(P)  09 42.20   0.0
MSU    76.43  50 eP    09 44.16   0.5
MOX    76.58 329 eP    09 44.50   0.5
PEC    76.64  56 eP    09 44.08  -0.6
       0.9s    18.38nm          5.1mb
RSSD   76.73  41 eP    09 44.51  -0.7
       1.5s    69.17nm          5.5mb
SRU    76.94  49 ePc   09 46.33  -0.1
KHC    77.01 327 P     09 47.00   0.6
       1.0s    10.50nm          4.8mb
                e      09 56.00
                e      10 09.00
PLM    77.19  56 eP    09 47.54  -0.3
GEC2   77.19 327 P     09 46.80  -0.7
       0.8s     4.08nm          4.5mb
                e      09 51.50
                e      09 56.30
EKA    77.38 339 Pc    09 44.30  -4.0X
       0.8s     5.70nm          4.7mb
GRF    77.50 328 iPc   09 49.90   0.8
       1.2s    40.00nm          5.3mb
     Z  16s     0.20um          4.5MszX
                e(pP)  09 58.70  28kmX
PV09   78.14  48 eP    09 53.59   0.4
PV10   78.28  48 ePc   09 54.47   0.6
PV08   78.35  48 eP    09 54.70   0.3
GLA    78.64  56 ePc   09 55.99   0.3
GOL    79.29  45 eP    09 59.73   0.3
       1.2s    24.21nm          5.1mb
GLD    79.34  45 ePc   10 00.44   0.9
       1.2s    40.48nm          5.3mb
OHR    79.93 318 eP    10 01.50  -1.0
CDF    80.04 330 eP    10 03.00   0.0
       1.1s    13.65nm          4.9mb
BSF    80.70 330 eP    10 06.30  -0.3
HAU    80.72 330 eP    10 06.40  -0.2
     Z  17s     0.13um          4.3MszX
TUC    81.59  54 eP    10 12.88   1.4
       0.9s    10.42nm          4.9mb
ALQ    82.19  49 eP    10 15.43   0.7
       1.0s    12.51nm          4.9mb
LOR    82.24 331 eP    10 14.40  -0.1
       0.8s     9.80nm          4.9mb
     Z  20s     0.05um          3.9Msz
LBF    82.44 331 eP    10 15.20  -0.4
       1.0s     8.80nm          4.8mb
SSF    82.55 331 eP    10 15.90  -0.2
       0.9s     9.50nm          4.9mb
LPL    82.66 329 eP    10 17.20   0.2
       1.0s     7.60nm          4.7mb
LPG    82.67 329 eP    10 17.40   0.3
       1.1s    14.40nm          5.0mb
SMF    82.78 331 eP    10 17.40   0.1
       1.2s    17.25nm          5.0mb
AVF    82.83 331 eP    10 17.60   0.1
       1.0s    18.80nm          5.2mb
MAF    83.60 331 eP    10 22.20   0.7
       1.0s    20.40nm          5.3mb
MFF    84.20 333 eP    10 25.00   0.5
       1.1s    33.20nm          5.5mb
LPO    85.42 331 eP    10 31.50   0.8
       0.9s     9.65nm          5.0mb
WMOK   86.48  44 ePc   10 35.73  -0.4
       0.9s     9.79nm          5.0mb
GAC    86.78  24 eP    10 36.50  -0.8
TUL    87.07  42 iP    10 39.50   0.5
LTX    87.93  51 ePd   10 42.37  -1.0
MIAR   89.24  41 eP    10 49.76   0.4
       0.9s    11.55nm          5.2mb
LMN    89.35  17 eP    10 50.00   0.2
TBR    91.30  25 eP    10 59.37   0.5
LPAZ  144.79  50 PKPd  17 31.20  -0.5
                LR     09 52.00
LPB   145.01  50 ePKP  17 32.00   0.2
SNA   146.17 202 ePKP  17 31.20  -0.4
        0.9s    42.02nm
SOB1  146.75   0 ePKP  17 34.60   0.4
CCH   146.80  49 PKP   17 36.70   2.1X
YJA   150.93  53 e(PKP)17 43.00   1.9
     S.D. = 1.0  on 150 of 164 obs.
-----------------------------------
%  OCT  08, 1993  14h 07m 24.24± 0.88s
   39.688 N ± 8.0km   29.509 E ± 8.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.8 (ISK).

ALT     0.79 143 ePg   07 39.50  -0.1
                eSg    07 51.50
EYL     1.01  29 ePn   07 43.90   0.5
HRT     1.14   6 ePn   07 45.00  -0.6
BNT     1.39 299 ePn   07 50.00   0.3
EDC     1.42 298 ePn   07 50.00  -0.2
     S.D. = 0.6  on   5 of   5 obs.
-----------------------------------
   OCT  08, 1993  14h 13m 47.88± 0.81s
   39.658 N ± 8.9km   29.497 E ± 8.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.8 (ISK).

ALT     0.77 141 ePg   14 03.00   0.1
                eSg    14 15.50
EYL     1.04  29 iPg   14 07.30  -0.3
BNT     1.40 300 ePn   14 13.40   0.0
EDC     1.43 299 ePn   14 14.00   0.1
CTT     1.70 332 iPn   14 18.40   0.7
MFT     2.04 304 ePn   14 22.00  -0.7
     S.D. = 0.6  on   6 of   6 obs.
-----------------------------------
?  OCT  08, 1993  14h 16m 12.04± 3.53s
   38.197 N ±21.4km   19.548 E ±31.2km
   DEPTH =  10.0km  (geophysicist)
 IONIAN SEA                        (399)
      MD 2.9 (ATH).

VLS     0.82  91 iPbd  16 28.00   0.0
                eSb    16 40.00
KEK     1.53   7 ePb   16 39.50   0.1
OHR     3.07  18 ePn   17 01.30  -0.2
VLI     3.07 118 ePn   17 01.50   0.0
     S.D. = 0.2  on   4 of   4 obs.
-----------------------------------
?  OCT  08, 1993  14h 49m 29.16± 0.96s
   7.127 S ±20.2km  145.864 E ±31.5km
   DEPTH =  97.4 ± 22.0 km
 NEAR S COAST OF NEW GUINEA, PNG.(206)

YYYY    0.89   7 eP    49 48.60   0.0
KDB     2.66 151 eP    50 11.00   0.0
WR2    16.94 220 eP    53 35.50  13.9X
        0.9s     6.80nm
ASPA   20.06 214 iPc   54 08.80  11.7X
        0.4s    15.50nm
BRS    21.19 163 iPc   54 08.50  -0.1
ARMA   23.79 168 eP    54 34.20   0.1
WARB   26.35 222 eP    54 58.00   0.0
     S.D. = 0.1  on   5 of   7 obs.
-----------------------------------
?  OCT  08, 1993  16h 55m 58.18± 1.17s
   11.363 S ±18.0km  164.125 E ±19.6km
   DEPTH =  33.0km  (normal)
   4.3mb (  3 obs.)
 SANTA CRUZ ISLANDS REGION         (183)

HNR     4.54 295 eP    57 06.00  -0.3
                eS     58 07.00
BKM     7.43 148 iP    57 46.50  -0.6
                iS     59 16.00
DZM    10.88 169 iPc   58 35.10   0.3
BRS    19.18 212 ePc   00 27.50   5.5X
                i      00 38.00
                eS     04 06.00
ARMA   22.23 210 eP    01 09.20  15.4X
        0.9s    11.00nm
STK    29.14 222 iPc   02 03.20   4.8X
        1.2s     3.80nm          4.0mb
WR2    29.86 250 eP    02 05.10   0.0
        1.2s     5.20nm          4.2mb
ASPA   31.23 243 eP    02 28.60  11.4X
        2.7s     7.70nm
LZH    73.80 313 eP    07 31.50  -0.1
        1.4s    28.00nm          5.1mb
BCAO  145.25 261 iPKPd 15 35.90   0.7
        0.9s    18.00nm
                i      15 45.90
     S.D. = 0.6  on   6 of  10 obs.
-----------------------------------
*  OCT  08, 1993  16h 58m 16.13± 0.36s
   15.228 S ±10.5km  173.734 W ±12.3km
   DEPTH =  33.0km  (normal)
   4.9mb ( 10 obs.)  4.4Msz (  3 obs.)
 TONGA ISLANDS                     (173)

DZM    19.97 247 iPc   02 50.00   1.3
KUZ    23.40 202 eP    03 25.00   2.1
NOZ    24.40 196 eP    03 34.60   2.0
QRZ    28.17 202 eP    04 07.40  -0.1
THZ    28.86 201 eP    04 12.80  -1.0
LTZ    29.98 201 eP    04 21.60  -2.2
BRS    33.36 243 ePc   04 53.50  -0.1
ARMA   35.16 239 iPc   05 09.10  -0.1
        0.3s     2.00nm          4.5mb
CNB    38.60 232 iPd   05 38.30   0.2
        0.4s    11.00nm          5.0mb
CAN    38.88 232 iPc   05 39.80  -0.6
BWA    39.01 234 iPc   05 39.90  -1.6
TOO    42.33 230 iPd   06 08.90   0.2
        0.9s    50.00nm          5.2mb
WR2    49.55 257 iPc   07 05.70  -0.5
        0.3s     8.50nm          5.3mb
WRA    49.57 257 P     07 06.40   0.0
        1.0s     4.90nm          4.5mb
ASPA   49.86 252 iPc   07 07.90  -0.7
        0.8s    25.50nm          5.3mb
```

```
                ipP   07 19.50  41kmX
SPA   74.87 180 iPc   09 54.30  -0.9
      0.7s    11.72nm          5.0mb
DUG   78.95  43 (P)   10 17.16  -1.2
      0.8s     3.25nm          4.4mb
ALQ   80.94  50 iPd   10 28.78  -0.4
      0.7s     2.92nm          4.4mb
FBA   82.29  11 eP    10 34.60  -0.7
      0.7s    11.63nm          5.0mb
HFS  134.83 355 ePKP  17 31.80  -1.1
      0.6s     1.40nm
BRG  143.91 352 e(PKP)17 47.00  -2.7X
MOX  144.41 354 e(PKP)17 49.50  -1.1
PRU  144.68 351 PKP   17 50.40  -0.6
GRF  145.39 354 iPKPc 17 52.50   0.2
    Z  19s     0.10um          4.6Msz
PSZ  145.51 344 ePKP  17 53.20   0.6
KHC  145.66 351 iPKPc 17 53.00   0.2
      1.0s    14.00nm
                e     18 04.40
GEC2 145.92 351 PKP   17 53.90   0.6
      0.6s     5.15nm
ZST  145.93 347 ePKP  17 54.00   0.8
FLN  146.10   8 ePKP  17 52.60  -0.9
      0.7s    11.45nm
    Z  21s     0.05um          4.3Msz
LDF  146.32   8 ePKP  17 54.80   1.0
      0.7s     6.50nm
GRR  146.42   9 ePKP  17 54.20   0.2
      0.8s     5.65nm
LPF  146.74   9 ePKP  17 55.50   1.0
      1.0s    20.60nm
CDF  146.90 359 ePKP  17 56.40   1.5
      1.1s    16.85nm
HAU  147.32 360 ePKP  17 57.60   2.1X
      0.9s    17.85nm
BSF  147.49 359 ePKP  17 57.00   1.1
      1.0s     8.80nm
KBA  147.70 351 iPKP  17 57.40   1.0
WTTA 147.75 353 iPKPc 17 59.00   2.6X
      0.6s     8.10nm
LOR  147.99   3 ePKP  17 59.40   2.8X
      1.1s    16.85nm
    Z  22s     0.08um          4.4Msz
SSF  148.18   4 ePKP  18 00.10   3.2X
      1.1s    19.55nm
MFF  148.26   8 ePKP  18 00.80   3.8X
      1.5s    55.35nm
LBF  148.28   3 ePKP  18 00.20   3.1X
      0.9s     8.70nm
AVF  148.44   4 ePKP  17 59.30   2.0X
      1.0s    11.20nm
SMF  148.61   3 ePKP  18 00.00   2.4X
      1.0s     8.40nm
BGF  148.63   5 ePKP  18 00.80   3.2X
      0.7s     7.40nm
LSF  148.82   6 ePKP  18 01.00   3.1X
      1.5s    48.05nm
TCF  148.85   5 ePKP  18 01.30   3.3X
      1.1s    16.35nm
MAF  148.95   5 ePKP  18 01.90   3.7X
      0.8s     5.65nm
LPL  149.80 359 ePKP  18 05.30   5.5X
      1.2s    17.25nm
LPG  149.82 359 ePKP  18 05.50   5.6X
      0.9s    13.25nm
OHR  151.29 337 ePKP  18 07.70   5.8X
    S.D. = 1.0  on  34 of  50 obs.
-----------------------------------
*  OCT  08, 1993  17h 37m 53.76± 2.53s
   31.226 S ±14.4km    68.843 W ±17.5km
   DEPTH = 102.9 ± 24.3 km
 SAN JUAN PROVINCE, ARGENTINA     (137)

RTCB   0.26 172 iPd   38 08.50  -0.6
                S     38 19.00
RTLL   0.34 108 ePc   38 09.00  -0.1
                S     38 21.00
ZON    0.35 156 iPd   38 09.30   0.1
                eS    38 20.30
CFA    0.64 126 ePd   38 11.80   0.6
                S     38 26.00
RTCV   0.68 158 iPc   38 11.80   0.2
                S     38 26.30
RTRS   1.18 333 ePd   38 16.80   0.1
RTPR   2.21  66 ePd   38 29.60  -0.1
                S     38 58.00
```

```
MRA    2.92 115 ePc   38 39.00  -0.2
                (S)   39 13.40
    S.D. = 0.5  on   8 of   8 obs.
-----------------------------------
*  OCT  08, 1993  17h 58m 09.97± 1.51s
   49.116 N ±16.6km    6.917 E ±10.0km
   DEPTH =  10.0km  (geophysicist)
 GERMANY                          (543)
     ML 2.1 (UCC).

RUP    0.59   9 ePg   58 21.20  -0.8
WLF    0.74 318 iPd   58 23.78  -0.7
                iS    58 33.20
TNS    1.49  41 ePnd  58 38.60   1.8X
                eSn   58 57.20
                eSg   59 00.70
MEM    1.61 339 iPc   58 38.65   0.2
                iS    58 59.37
ENN    1.77 339 ePn   58 42.50   1.7
      0.6s     7.30nm
                eSn   59 06.00
DOU    1.80 304 iPc   58 40.90  -0.4
                i     58 43.70
                iS    59 02.60
SNF    2.20 310 iP    58 54.20   7.1X
KHC    4.37  87 Pn    59 17.90  -0.1
                e     00 07.50
                Sg    00 30.50
GEC2   4.48  91 Pn    59 19.50   0.0
                Sn    00 08.80
                Sg    00 36.00
    S.D. = 1.0  on   7 of   9 obs.
-----------------------------------
*  OCT  08, 1993  17h 59m 23.54± 1.73s
   36.838 N ±19.0km   29.145 E ± 8.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
     ML 3.3 (ISK).

ELL    0.62  98 iPg   59 36.00  -0.1
                eSg   59 47.00
CIN    1.14 312 eP    59 45.00   0.2
BCK    1.31  61 ePn   59 48.10   0.3
KHL    1.51  11 ePn   59 50.50  -0.3
IZM    2.16 317 ePn   00 00.00  -0.1
    S.D. = 0.3  on   5 of   5 obs.
-----------------------------------
   OCT  08, 1993  18h 23m 47.70± 0.45s
   46.505 N ± 3.6km  150.037 E ± 3.0km
   DEPTH = 171.8 ±  4.5 km
   5.5mb (138 obs.)
 KURIL ISLANDS                    (221)

KUR    1.98 231 iPnc+ 24 27.00   2.7
                iS    24 55.00
YSS    5.06 278 iPnd- 25 06.50   3.6X
KUSJ   5.10 230 iP+   25 01.80  -1.6
                S     25 56.30
ASAJ   5.74 248 iPd   25 15.50   3.6X
SKR    5.79  42 ePn   25 13.00   0.4
    Z  12s     1.00um
    E  12s     1.00um
                iS    26 17.90
HOOJ   6.35 232 eP    25 20.00   0.0
                S     26 27.10
MRRJ   7.60 241 P     25 36.80   0.2
                S     26 57.50
PET    8.57  37 ePn   25 49.00  -0.4
                eS    27 21.00
AOMJ   9.19 233 eP    25 56.00  -1.6
                eS    27 31.00
OFUJ   9.63 223 P     26 00.00  -3.4X
                eS    27 39.50
YAMJ  11.13 225 eP    26 20.60  -2.4
                eS    28 16.90
NIIJ  12.37 225 P     26 35.80  -3.2X
KAKJ  12.67 219 eP    26 40.60  -2.2
                eS    28 52.40
MAJO  13.31 226 eP    26 50.67  -0.4
MAT   13.31 226 eP    26 51.00   0.0
      0.7s    10.96nm          4.4mb X
                eS    29 12.00
VLA   13.32 262 iPnc  26 52.00   1.0
CHJJ  13.33 222 eP    26 51.60   0.4
                eS    29 08.50
MGD   13.63   2 iPc   26 55.00   0.1
                eS    29 30.00
```

```
IIDJ  14.30 224 P     27 05.20   1.7
                eS    29 34.20
MDJ   14.45 270 eP    27 06.70   1.5
      1.0s    48.00nm          4.8mb
CN2   17.53 270 Pc    27 40.40  -2.5
      0.8s    47.00nm          4.9mb
YAK   19.41 330 iPc   28 01.50  -0.9
      0.9s   827.00nm          6.2mb
                eS    31 29.00
SNY   19.51 266 P     28 03.50   0.0
      0.8s    87.00nm          5.3mb
BJI   25.35 268 eP    29 00.00  -0.1
      1.0s    11.00nm          4.4mb X
TIA   26.58 259 eP    29 12.10   0.7
      1.4s    50.00nm          5.0mb
ILT   26.78  26 iPc   29 11.40  -1.4
      2.0s   667.00nm          6.0mb
                i     30 03.00
SSE   27.05 246 Pc    29 16.50   0.8
      1.0s    21.00nm          4.8mb
TIK   27.13 345 iPc   29 15.50  -0.5
      1.5s   120.00nm          5.4mb
                e     32 32.00
NJ2   27.91 250 Pd    29 24.00   0.6
      1.0s    13.00nm          4.6mb
HHC   28.19 272 iPc   29 27.00   1.0
      1.0s   260.00nm          5.9mb
TIY   29.02 266 Pc    29 34.50   1.1
      1.0s    81.00nm          5.4mb
BTO   29.36 273 P     29 36.50   0.1
IRK   29.91 298 ePc   29 39.20  -1.8
      1.4s    18.00nm          4.6mb
                e     30 40.00
ZAK   30.85 295 iPc   29 48.80  -0.4
      1.1s    50.00nm          5.2mb
WHN   31.83 253 Pc    29 58.20   0.3
      0.8s    49.00nm          5.3mb
XAN   33.38 263 Pc    30 11.60   0.1
      0.8s    64.00nm          5.4mb
TTA   34.01  41 iPc   30 16.56   0.0
      0.8s    38.22nm          5.1mb
SVW   34.14  45 ePc   30 18.24   0.6
      0.8s    70.68nm          5.4mb
BRW   35.13  27 (P)   30 26.26   0.4
IMA   35.25  36 ePc   30 27.21   0.1
      0.6s    69.25nm          5.5mb
LZH   35.77 270 iPc   30 33.50   1.6
      1.0s   290.00nm          5.9mb
                pP    31 00.00 116kmX
                eS    35 57.00
CP2   35.77  44 ePc   30 32.58   0.9
CRP   35.82  44 ePc   30 32.46   0.5
KDC   35.95  50 eP    30 31.90  -0.9
UER   36.26 299 eP    30 34.00  -1.5
SLKM  36.81  46 eP    30 39.72  -0.4
GTA   36.91 277 iPc   30 42.00   0.7
      1.2s   140.00nm          5.5mb
                PcP   32 59.00
                S     36 11.30
                ScP   36 28.50
                PcS   36 47.50
                ScS   40 35.00
PMR   37.24  44 ePd   30 43.42  -0.3
      0.8s    31.76nm          5.1mb
COL   37.67  38 iPc   30 48.21   1.0
      0.6s   163.79nm          5.9mb
FBA   37.67  38 iPc   30 47.88   0.7
TOA   38.59  43 ePc   30 56.10   1.1
CD2   38.75 263 iPc   30 57.60   1.0
      0.8s   290.00nm          6.0mb
KLU   38.78  44 ePc   30 56.68   0.0
GYA   39.60 255 iPc   31 04.40   0.6
                pP    31 41.60 171kmX
                ScP   36 40.00
                S     36 52.40
BALM  40.56  44 ePc   31 11.70   0.4
INK   42.99  32 ePc   31 31.60   0.8
      0.5s    19.00nm          4.9mb
WMQ   43.03 290 iPc   31 31.50  -0.1
      1.0s    42.00nm          5.0mb
KMI   43.12 257 Pc    31 33.50   0.8
      1.5s   130.00nm          5.3mb
MBC   45.54  20 ePc   31 52.20   1.1
      0.3s    81.00nm          5.7mb
                pP    32 03.00  37kmX
                SP    32 15.70
                PcP   33 23.80
```

08d 18h

```
                PP    33 27.10
                PPP   34 27.50
                S     38 13.00
                SP    38 22.70
                SPP   38 32.80
LSA    48.16 271 iPc   32 14.60   1.9
       0.6s    69.00nm          5.4mb
CHTO   50.01 254 iPc   32 27.00   0.7
       0.8s    45.75nm          5.2mb
SHL    50.24 266 iP    32 18.60  -9.7X
BDT    51.09 253 eP    32 35.00   0.5
NST    51.49 250 eP    32 38.50   1.0
RES    51.73  18 ePc   32 38.00  -0.7
       1.0s   171.00nm          5.7mb
FRU    51.85 295 eP    32 40.00  -0.1
       1.8s   100.00nm          5.2mb
                e     33 18.00
                e     33 50.00
YKA    52.37  36 eP    32 43.20  -0.4
       0.6s    29.60nm          5.2mb
SVE    52.56 316 iPc   32 44.70  -0.4
       1.0s   240.00nm          5.9mb
KSH    52.80 291 P     32 47.40   0.2
       1.0s    90.00nm          5.5mb
ARU    53.74 316 iPc   32 52.40  -1.3
       1.0s   200.00nm          5.8mb
DAG    56.80 357 iPd   33 14.20  -1.2
       0.5s    37.32nm          5.5mb
RMW    56.89  54 (P)   33 18.78   2.2
DPW    58.64  52 eP    33 28.09  -0.7
SDF    58.72 338 eP    33 27.00  -1.9
TRO    58.78 342 iPc   33 27.33  -2.0
NEW    59.00  51 eP    33 30.29  -0.9
       0.9s    22.64nm          5.0mb
LGPM   60.14  61 eP    33 38.89  -0.3
LBFM   60.44  60 eP    33 41.25  -0.1
LOF    61.13 343 eP    33 42.64  -2.7
KAF    62.75 334 iP    33 54.10  -2.0
       0.6s    87.50nm          5.8mb
LRM    63.02  51 ePc   33 58.10  -0.3
GDH    63.26   9 iPc   33 58.10  -1.2
       0.6s   149.33nm          6.1mb
OBN    64.29 324 iPc   34 04.60  -1.6
       1.2s    66.00nm          5.4mb
MMPM   64.50  62 (P)   34 10.25   1.9
NUR    64.50 333 iP    34 05.60  -1.9
       0.4s    63.90nm          5.9mb
MEMM   64.52  62 (P)   34 10.76   2.8
ASH    64.74 299 iP    34 10.30   0.9
       1.4s   280.00nm          6.0mb
MAIO   65.11 297 iPc   34 12.00   0.1
HVU    65.46  55 eP    34 14.12   0.0
FRB    65.95  18 ePc   34 15.30  -1.4
       0.5s    19.00nm          5.2mb
UPP    67.10 336 iP    34 21.90  -2.1
                i     34 25.90
MOL    67.22 342 eP    34 23.00  -1.7
DAU    67.23  55 eP    34 25.67   0.1
POO    67.36 273 iPc   34 32.20   5.9X
       0.8s    67.16nm          5.5mb
GSC    67.36  62 eP    34 26.03  -0.2
WB5    67.58 196 iPd   34 25.70  -1.7
                iPcP  34 52.70
                epP   35 09.30 184kmX
WR2    67.64 196 iPc   34 25.90  -1.9
       1.1s    15.40nm          4.7mb
                i     34 52.70
WRA    67.64 196 P     34 26.10  -1.7
       0.9s    10.70nm          4.6mb
NB2    67.75 340 P     34 26.60  -1.5
       0.6s    34.00nm          5.3mb
AKU    67.77 355 iPc   34 29.00   0.9
       0.9s    50.42nm          5.3mb
HFS    67.92 338 eP    34 27.10  -2.0
       0.5s    69.90nm          5.7mb
     Z 16s      0.03um          3.6MszX
                LR    57 13.00
NRA0   67.94 339 iPc   34 27.50  -1.7
NAO    68.03 340 P     34 26.42  -3.4X
ULM    68.07  39 eP    34 32.50   2.3
GBA    68.29 267 Pc    34 31.60  -0.4
       0.7s    15.00nm          4.9mb
RSSD   68.58  48 eP    34 33.08  -0.7
       0.7s    20.64nm          5.0mb
MNK    68.69 328 iP    34 30.00  -3.9X
PYA    69.18 312 iP    34 36.00  -1.2
KONO   69.36 340 iPc   34 27.50 -10.4X
DZM    69.85 164 iPd   34 41.20  -0.2
PV10   69.87  55 eP    34 41.83   0.1
MTA    69.92 310 iPc+  34 41.60   0.0
       0.8s   330.00nm          6.2mb
PV08   69.95  55 eP    34 42.27  -0.1
ASPA   71.35 196 iPd   34 49.70  -0.7
       0.6s    24.70nm          5.2mb
                i     35 32.90
ANN    71.41 316 iP    34 52.00   1.5
TAB    71.65 306 eP    34 54.00   1.7
BSD    71.91 335 iPd   34 52.40  -0.9
       0.6s    75.00nm          5.6mb
MUD    72.30 338 iP    34 54.00  -1.5
       0.7s    16.00nm          4.9mb
JAQ    72.76  26 eP    34 57.00  -1.3
BRS    73.59 177 iPc   35 04.00   0.7
EDR    74.43 345 eP    35 07.60  -0.3
OJC    74.48 329 eP    35 08.00  -0.3
       0.9s   132.00nm          5.7mb
                e     35 13.10
CLI    74.61 323 iPd   35 08.00  -1.2
EDU    74.87 345 eP    35 10.30  -0.1
UZH    74.89 327 iPc   35 12.50   1.8
       1.0s    44.00nm          5.1mb
                i     35 24.80
                i     35 49.00
ELO    75.06 345 eP    35 10.80  -0.8
KSP    75.14 332 iPc   35 11.60  -0.5
       0.8s   100.00nm          5.6mb
SPC    75.19 329 iP    35 12.50  -0.1
EBH    75.24 345 eP    35 12.10  -0.5
CFR    75.33 322 iPd   35 08.00  -5.2X
WARB   75.39 202 eP    35 02.70 -11.0X
       0.7s    23.00nm
VRI    75.39 323 ePd   35 13.50  -0.1
ESY    75.39 344 eP    35 12.80  -0.6
EAB    75.44 346 eP    35 13.80   0.1
DPC    75.52 331 eP    35 13.51  -0.8
       0.9s    45.06nm          5.2mb
EBL    75.61 345 eP    35 14.60   0.0
EAU    75.61 345 ePc   35 15.00   0.3
CLL    75.78 334 iPc   35 15.00  -0.6
       1.1s   130.00nm          5.6mb
                e     35 45.00
BRG    75.87 333 iPc   35 15.00  -1.2
       1.0s    50.00nm          5.2mb
                i     35 21.90
MLR    76.02 323 ePc   35 16.00  -1.3
EKA    76.04 345 Pc    35 16.60  -0.5
       0.8s    67.10nm          5.4mb
ISR    76.05 323 ePc   35 17.00  -0.4
ESK    76.07 345 ePc   35 17.50   0.3
       0.9s    72.00nm          5.4mb
WIT    76.22 338 eP    35 19.50   1.4
VRAC   76.36 331 iPc   35 19.30   0.4
       1.5s   270.60nm          5.8mb
PSZ    76.38 328 iPc   35 19.40   0.2
PRU    76.45 332 iPc   35 18.40  -1.0
       0.7s    27.50nm          5.1mb
                i     35 25.50
ARMA   76.58 179 iPc   35 20.90   0.6
       0.6s    10.00nm          4.7mb
MOX    76.78 334 eP    35 21.10  -0.2
       1.3s    75.00nm          5.3mb
WTS    76.92 338 iPc   35 21.80  -0.2
       0.7s   138.40nm          5.8mb
HOF    77.00 334 iPc   35 22.10  -0.4
       0.7s    26.00nm          5.1mb
SRO    77.04 329 iP    35 24.70   2.0
ZST    77.14 330 iP    35 23.70   0.5
WIM    77.45 345 eP    35 24.60  -0.3
KHC    77.50 332 iPc   35 25.50   0.2
       1.0s    58.80nm          5.3mb
                i     35 33.00
                e     35 44.50
                e     36 15.00
BZS    77.65 326 iPd   35 17.00  -9.1X
WET    77.71 333 iPc   35 26.80   0.4
       1.0s    93.00nm          5.5mb
GEC2   77.71 332 P     35 26.20  -0.3
       0.5s    26.96nm          5.2mb
GRF    77.74 334 iPc   35 27.10   0.5
       0.8s   126.00nm          5.7mb
                e     35 31.60
UZD    77.98 328 eP    35 27.00  -0.9
TNS    78.08 336 ePc   35 28.20  -0.3
EYL    78.10 318 iP    35 29.90   1.1
WMOK   78.19  52 ePc   35 28.99  -0.3
       1.0s    11.40nm          4.6mb
ENN    78.27 338 iPc   35 29.30  -0.1
       0.7s   113.20nm          5.7mb
                i     35 33.30
YRC    78.29 345 eP    35 29.10  -0.3
STK    78.39 187 iPd   35 30.30   0.2
       0.6s     4.60nm          4.4mb X
MEM    78.40 338 iPc   35 29.87  -0.2
       1.0s    33.50nm          5.0mb
CTT    78.43 319 eP    35 30.90   0.4
DLF    78.59 346 eP    35 31.10   0.0
       0.9s   432.00nm          6.2mb
DCN    78.66 346 eP    35 31.30  -0.2
YRH    78.69 345 eP    35 31.40  -0.3
SNF    78.93 339 iPc   35 32.79  -0.2
BHG    78.96 332 iPc   35 33.90   0.6
       1.3s   107.00nm          5.4mb
HCG    79.00 344 eP    35 33.30  -0.1
HAE    79.05 343 eP    35 33.90   0.3
FUR    79.08 333 iPc   35 34.20   0.3
       0.8s    95.00nm          5.6mb
HTR    79.16 344 eP    35 34.20   0.0
WLF    79.22 337 iPd   35 35.37   0.9
DOU    79.23 338 iPc   35 34.90   0.3
       0.7s    63.30nm          5.5mb
BNT    79.29 319 iP    35 35.40   0.3
ALT    79.31 317 eP    35 35.50   0.1
EDC    79.33 319 iP    35 35.00  -0.3
KBA    79.38 332 iPc   35 36.30   0.6
       0.7s    82.10nm          5.6mb
                i     36 23.60
LANF   79.38 336 P     35 35.43  -0.1
LTX    79.44  58 eP    35 35.85  -0.4
HGH    79.48 343 eP    35 35.90   0.0
PTJ    79.51 329 iP    35 36.00  -0.3
ZAG    79.57 329 iPc   35 37.00   0.5
WATA   79.72 333 iPc   35 37.60   0.1
WTTA   79.77 333 iPc   35 38.20   0.4
       0.7s   164.00nm          5.9mb
                i     35 47.00
                i     36 25.70
                i     36 29.20
GAC    79.82  31 eP    35 36.50  -1.3
MOTA   79.86 333 iPc   35 38.30   0.1
       0.8s    76.50nm          5.5mb
                i     36 06.80
SQTA   79.94 333 iPc   35 39.00   0.4
       0.8s    54.30nm          5.4mb
FVM    79.97  44 ePc   35 37.54  -1.3
       0.6s    22.70nm          5.1mb
WLS    80.02 336 P     35 38.91   0.0
CDF    80.05 336 iPc   35 39.10   0.0
       0.8s    83.00nm          5.5mb
VBY    80.10 330 iPc   35 38.90  -0.4
KHL    80.17 317 eP    35 40.00   0.0
ECH    80.26 336 P     35 40.00  -0.2
SLE    80.28 335 ePd   35 40.30   0.0
OGA    80.31 333 iPc   35 41.10   0.4
       0.7s    43.00nm          5.3mb
FEL    80.32 335 P     35 40.34  -0.3
EZN    80.44 319 iP    35 40.90  -0.3
VAL    80.48 348 iP    35 42.00   0.8
       0.9s     2.80nm          4.0mb X
ZLA    80.57 335 iPd   35 42.50   0.7
VITF   80.58 337 P     35 41.77  -0.1
MOF    80.59 336 P     35 41.84  -0.2
HAU    80.68 336 iPc   35 42.30  -0.1
       0.6s    50.50nm          5.4mb
BSF    80.71 336 iPc   35 42.30  -0.3
       0.9s    39.95nm          5.1mb
OSS    80.75 333 ePd   35 43.80   0.9
SKO    80.77 324 iPc   35 43.20   0.3
       1.0s   154.00nm          5.7mb
BBS    80.84 335 P     35 43.20   0.0
UYO    80.93  49 iPd   35 43.60  -0.3
CSS    80.94 312 ePc   35 44.50   0.6
LLS    80.94 334 ePd   35 44.50   0.5
BCI    80.99 325 eP    35 42.80  -1.3
ELC    81.11  44 ePd   35 44.70   0.0
CBM    81.12  25 eP    35 44.27  -0.3
VDL    81.14 334 iPd   35 45.70   0.7
LOMF   81.14 336 P     35 44.40  -0.4
RSNY   81.16  31 ePd   35 44.36  -0.5
       0.8s    13.47nm          4.7mb
CME    81.34 344 ePc   35 46.60   0.9
PHP    81.41 324 iPc   35 45.20  -1.1
```

```
CPZ     81.43 344 ePc   35 46.60   0.4
SDA     81.48 325 iPd   35 51.00   4.5X
PPCY    81.50 313 eP    35 47.00   0.2
TMA     81.66 334 iPd   35 48.20   0.5
HVAR    81.68 328 iP    35 46.60  -1.0
FLN     81.70 341 iPc   35 47.70   0.1
        0.6s   84.05nm          5.6mb
LACI    81.75 325 iPd   35 47.50  -0.4
OHR     81.75 324 iPc   35 47.90  -0.2
        0.7s  180.00nm          5.9mb
LDF     81.78 341 iPc   35 48.10   0.1
        0.5s   39.80nm          5.4mb
TIR     81.93 324 iPc   35 44.20  -4.7X
MMK     81.98 334 ePd   35 50.50   1.0
LOR     82.03 337 iPc   35 49.50   0.1
        0.7s  127.45nm          5.8mb
DIX     82.12 335 ePd   35 51.30   1.1
GRR     82.14 341 iPc   35 50.40   0.5
        0.6s  171.00nm          6.0mb
KBN     82.16 323 iPc   35 48.20  -2.1
LBF     82.26 337 iPc   35 50.60   0.0
        0.7s   69.65nm          5.5mb
EMS     82.27 335 iPd   35 51.80   0.9
SSF     82.31 338 iPc   35 51.00   0.2
        0.8s  106.10nm          5.6mb
HYF     82.34 338 iPc   35 51.60   0.6
LPF     82.52 341 iPc   35 52.40   0.5
        1.0s  280.00nm          6.0mb
AVF     82.60 338 iPc   35 52.70   0.4
        0.6s   80.10nm          5.7mb
SMF     82.61 337 iPc   35 52.80   0.4
        0.9s  230.60nm          5.9mb
BOB     82.68 333 P     35 53.63   0.7
        0.5s   54.90nm          5.6mb
TPE     82.76 324 iPc   35 51.00  -2.2
LSD     82.76 335 P     35 54.45   0.9
LPL     82.83 335 iPc   35 54.50   0.7
        1.0s  118.40nm          5.6mb
LPG     82.84 335 iPc   35 54.70   0.7
        1.0s  129.20nm          5.7mb
CRE     82.88 331 P     35 54.97   1.0
        0.8s   48.80nm          5.3mb
BDI     82.95 332 P     35 54.31   0.1
        0.9s   28.80nm          5.1mb
BGF     82.95 338 iPc   35 55.10   1.0
        0.6s   51.95nm          5.5mb
FIR     82.98 331 eP    35 55.00   0.7
RSP     83.01 334 P     35 54.45  -0.2
LMN     83.05  24 eP    35 54.50  -0.2
SRN     83.11 324 iPd   35 54.50  -0.5
ASS     83.13 330 P     35 56.75   1.6
        1.1s  101.10nm          5.5mb
PCP     83.17 333 P     35 55.14  -0.2
OXF     83.23  46 eP    35 55.89   0.2
BNI     83.27 335 P     35 57.24   1.3
        0.9s   53.00nm          5.3mb
PII     83.27 332 P     35 55.50  -0.3
        0.7s   44.30nm          5.4mb
BHB     83.29 334 P     35 55.05  -0.9
MAF     83.33 338 iPc   35 57.10   1.0
        1.1s  346.75nm          6.1mb
CKI     83.36 333 P     35 56.40   0.2
        1.1s  184.40nm          5.8mb
RRL     83.36 335 P     35 57.66   1.1
TCF     83.36 338 iPc   35 56.90   0.6
        0.9s   98.30nm          5.6mb
AQU     83.50 329 P     35 57.88   0.8
        1.4s  380.50nm          6.0mb
LCI     83.55 325 P     35 57.25   0.0
        0.8s  163.80nm          5.9mb
FIN     83.57 333 P     35 56.97  -0.4
LSF     83.57 339 iPc   35 58.10   0.8
        1.0s  274.40nm          6.0mb
DOI     83.60 334 P     35 56.63  -0.9
        0.8s   45.80nm          5.3mb
ROB     83.60 334 P     35 57.29  -0.2
PZZ     83.64 334 P     35 57.06  -0.8
MFF     83.65 340 iPc   35 58.40   0.7
        0.8s  184.85nm          5.9mb
MNS     83.73 330 P     35 58.31   0.1
        1.1s  244.10nm          5.9mb
SDI     83.92 329 P     35 59.34   0.1
        1.0s   94.30nm          5.5mb
IMI     83.94 334 P     35 59.58   0.3
SAOF    83.97 334 P     35 58.53  -0.9
AUTN    84.01 334 P     35 58.98  -0.8
TOUF    84.04 334 P     35 59.85  -0.1
SBF     84.12 334 eP    36 00.00  -0.2
        0.8s  131.65nm          5.8mb
AURF    84.13 334 P     35 59.91  -0.4
MVIF    84.18 334 P     35 59.61  -1.0
TBR     84.24  32 ePc   36 00.61  -0.1
RDP     84.27 329 P     36 01.36   0.4
        0.9s  152.00nm          5.8mb
ORI     84.37 326 P     36 02.34   0.9
        0.7s  207.80nm          6.0mb
SGO     84.38 327 P     36 01.50   0.2
        0.7s   30.50nm          5.2mb
CALN    84.39 334 P     36 01.43  -0.2
RJF     84.46 338 eP    36 02.70   0.9
        1.1s  188.05nm          5.8mb
FRF     84.64 334 eP    36 03.20   0.5
        0.9s   44.05nm          5.2mb
MGR     84.65 327 P     36 02.38  -0.4
        0.8s  121.60nm          5.7mb
CAF     84.67 338 eP    36 04.20   1.3
        0.9s  208.35nm          5.9mb
LRG     84.82 334 eP    36 03.80   0.3
        0.9s   59.60nm          5.4mb
PGF     84.82 332 eP    36 03.50  -0.2
        0.9s   47.15nm          5.3mb
LMR     84.88 334 eP    36 04.00   0.1
        0.8s   59.10nm          5.4mb
LFF     85.00 339 eP    36 05.50   1.1
        0.7s  209.90nm          6.0mb
LPO     85.12 338 eP    36 06.10   1.0
        0.9s  166.40nm          5.8mb
GRI     85.46 325 P     36 07.09   0.2
        0.8s  127.21nm          5.8mb
SOI     86.25 325 P     36 10.50  -0.2
        0.7s   87.90nm          5.7mb
MTHF    86.39 337 P     36 13.04   1.6
LSPF    86.55 337 P     36 13.84   1.7
LESF    86.64 338 P     36 14.52   1.9
GRBF    86.75 337 P     36 14.51   1.3
EPF     86.88 338 eP    36 13.90   0.1
        0.7s   28.90nm          5.3mb
TRGS    86.95 337 P     36 16.99   2.7
PAND    87.04 337 P     36 16.50   1.7
ELIZ    87.22 340 eP    36 15.50   0.1
EGRA    87.83 338 eP    36 19.80   1.5
ESEL    89.23 335 eP    36 25.20   0.2
ETOR    89.56 339 eP    36 27.60   0.9
SNZO    90.15 162 eP    36 27.94  -0.9
        0.8s   42.35nm          5.5mb
EPLA    91.21 342 eP    36 33.50  -0.7
PAB     91.32 340 eP    36 33.89  -0.9
        1.3s   19.89nm          5.0mb
EVIA    91.74 339 eP    36 37.00   0.3
BCAO   113.63 305 ePKPc 42 07.00  -0.3
        0.5s    3.00nm
LKO    120.10 332 PKP   42 18.40  -1.2
        0.4s    5.50nm
TIC    122.62 330 PKP   42 23.48  -0.9
        0.5s    5.00nm
KIC    122.79 330 PKP   42 23.86  -0.8
        0.5s    7.00nm
LIC    123.01 330 PKP   42 24.26  -0.8
        0.6s    5.50nm
SLR    129.80 273 e(PKP)42 32.50  -5.6X
SEK    131.89 271 ePKP  42 42.50   0.5
LPAZ   136.31  59 PKPd 42 32.70 -18.6X
LPB    136.52  59 PKPd 42 38.60 -12.8X
CNCB   136.81  60 PKP  42 41.00 -11.1X
BAO    145.74  32 PKPd 43 06.40  -1.0
                   e   43 14.70
                   i   43 24.00
                   i   43 26.00
                   e   43 29.20
BDF    145.80  32 ePKP 43 07.90   0.4
        0.7s    1.50nm
                   i   43 16.30
NVL    148.53 205 ePKP 43 14.00   3.9X
PPD    150.07  43 ePKP 43 19.10   5.2X
     S.D. = 0.9  on 309 of 329 obs.
-----------------------------------
%  OCT  08, 1993  18h 29m 42.09± 2.69s
   45.629 S ±11.4km  166.663 E ±25.2km
   DEPTH = 146.7 ± 13.5 km
 OFF W. COAST OF S. ISLAND, N.Z. (161)
      Felt (IV) at Manapouri.

MSZ     1.31  44 P      30 08.50  -1.2
                 eS     30 25.40
SIZ     1.61 141 P      30 13.10   0.2
TLC     1.75  76 Pd     30 14.40  -0.3
CMCZ    1.90  76 Pd     30 16.40   0.0
                 eS     30 36.50
MHZ     1.93  74 Pd     30 17.10   0.4
SBCZ    1.94  75 Pd     30 17.00   0.2
LRCZ    1.97  74 Pd     30 17.60   0.3
LSCZ    1.98  76 Pd     30 17.30   0.1
MSCZ    2.01  76 Pd     30 17.80   0.2
TUZ     2.10 100 Pd     30 18.40  -0.2
                 eS     30 39.80
BWZ     2.53  65 Pc     30 24.10   0.2
ODZ     2.87  80 Pd     30 27.90  -0.3
                 S      30 58.20
WVZ     3.88  50 P      30 42.00   0.7
MQZ     4.68  68 eP     30 51.60  -0.4
                 S      31 38.80
LTZ     4.93  57 eP     30 55.10  -0.3
                 eS     31 46.00
DSZ     5.38  46 eP     31 02.10   0.7
THZ     5.95  52 eP     31 08.90  -0.1
                 S      32 11.90
QRZ     6.43  44 eP     31 16.40   0.8
                 eS     32 22.90
TCW     7.08  54 eP     31 26.00   1.6
MRW     7.32  56 eP     31 27.40  -0.1
BLW     7.69  59 eP     31 32.70   0.2
MTW     7.83  58 P      31 33.70  -0.7
MNG     8.16  55 eP     31 36.60  -2.2
     S.D. = 0.8  on  23 of  23 obs.
-----------------------------------
&  OCT  08, 1993   18h 30m 01.08s
   34.388 N          116.462 W
   DEPTH =   5.6km
 SOUTHERN CALIFORNIA                ( 43)
      <PAS-P>. ML 3.5 (PAS), 3.2 (GS).

PEC     0.76 230 iPd    30 14.95  -1.4
GSC     0.95 343 iPc    30 18.71  -1.0
SSK     1.03 260 ePd    30 19.93  -1.2
                 iS     30 34.01
PLM     1.08 198 iPd    30 20.89  -1.1
                 iS     30 35.56
ISA     2.08 308 ePn    30 34.68  -2.4
ABL     2.32 282 ePn    30 38.05  -2.7
                 Pg     30 42.71
TPNV    2.56   4 eP     30 42.67  -1.3
BCH     3.09 286 eP     30 47.20  -4.2
MRCM    3.67 334 ePn    31 02.12   2.2
MMPM    3.83 328 (Pn)   31 03.93   1.7
MEMM    3.84 329 (P)    31 06.55   4.6
BONR    3.86 338 (Pn)   31 06.30   3.7
ARUT    4.18  35 ePn    31 05.21  -1.8
MSU     5.37  39 (P)    31 22.85  -1.2
DUG     6.48  26 (Pn)   31 35.74  -3.9
       1.1s     8.42nm          4.6mb X
       15 obs. associated
-----------------------------------
?  OCT  08, 1993  18h 44m 04.38± 3.73s
   32.339 S ±37.8km   68.268 W ±28.2km
   DEPTH =  33.0km  (normal)
 MENDOZA PROVINCE, ARGENTINA      (139)

RTCV    0.53 334 e(P)   44 14.20  -1.3
CFA     0.73   2 e(P)   44 18.10  -0.2
                 S      44 31.50
RTCB    0.96 332 ePd    44 22.50   0.8
                 S      44 38.00
RTLL    1.02 350 eP     44 23.00   0.5
                 S      44 39.50
MRA     2.17  93 ePc    44 38.80   0.0
                 S      45 07.20
RTRS    2.39 334 e(P)   44 47.30   5.3X
     S.D. = 1.1  on   5 of   6 obs.
-----------------------------------
?  OCT  08, 1993  19h 56m 44.35± 2.45s
   32.907 S ±13.4km  179.687 W ±35.4km
   DEPTH = 330.5 ± 16.9 km
   4.3mb (  3 obs.)
 SOUTH OF KERMADEC ISLANDS        (179)

HBZ     4.96 199 P      58 04.50   1.4
KUZ     5.38 223 P      58 11.40   3.5X
PUZ     5.42 197 P      58 10.00   1.6
                 eS     59 16.60
URZ     5.94 205 P      58 14.90   0.5
                 eS     59 27.40
```

08d 19h

```
NOZ      5.99 197 P      58 16.30   1.3
OUZ      6.03 246 P      58 16.40   0.9
WLZ      6.27 217 P      58 21.40   3.1X
PAHZ     6.50 203 eP     58 23.70   2.7X
MOZ      7.16 217 eP     58 32.00   3.2X
NGZ      7.33 210 P      58 31.60   0.6
TEHZ     7.61 201 P      58 34.10  -0.1
PGZ      8.35 202 P      58 42.90  -0.2
MNG      8.62 205 eP     58 44.40  -2.0
                  eS     00 20.80
KIW      9.04 207 P      58 49.70  -1.8
CAW      9.20 206 eP     58 51.20  -2.2
MRW      9.44 207 eP     58 54.10  -2.2
QRZ     10.06 216 eP     59 04.10   0.1
THZ     10.62 212 eP     59 10.70  -0.1
DSZ     11.12 215 eP     59 16.80   0.0
LTZ     11.72 210 eP     59 23.80  -0.3
                  eS     01 28.50
MQZ     12.34 207 eP     59 31.00  -0.5
                  eS     01 41.60
BWZ     14.16 212 eP     59 54.00   0.8
ODZ     14.25 209 eP     59 55.90   1.7
DZM     16.35 308 iPc    00 15.40  -1.5
BKM     18.67 321 iPc    00 40.00  -0.5
BRS     24.40 276 iPc    01 38.50   3.1X
                  i      01 43.00
ASPA    41.62 271 iPd    04 03.70   1.0
         0.6s    10.30nm          4.2mb
WR2     42.81 276 iPc    04 12.80   0.5
         0.5s    20.00nm          4.6mb
WRA     42.83 276 P      04 13.40   0.9
         0.7s     8.40nm          4.1mb
KAF    146.38 338 iPKP   15 50.20   4.9X
         0.5s     5.40nm
BCAO   146.95 215 ePKPc  15 55.40   7.7X
         0.7s     6.00nm
                  i      19 21.10
NUR    148.12 337 iPKP   15 55.90   7.8X
         0.3s     4.10nm
NB2    150.97 349 PKP    16 03.20  10.7X
         0.6s     4.30nm
HFS    151.37 346 ePKP   16 02.90   9.9X
         0.4s     2.30nm
     S.D. = 1.3  on  24 of  34 obs.
-----------------------------------
*  OCT  08, 1993  20h 19m 03.76± 1.59s
   36.646 N ± 6.7km   11.382 W ±14.8km
   DEPTH =  10.0km  (geophysicist)
 NORTH ATLANTIC OCEAN              (402)
      mbLg 3.3 (MDD).

EVAL     3.82  74 iPc    20 04.34   0.4
                  e      20 44.10
EJIF     4.77  91 iPd    20 18.89   1.6
                  e      21 06.60
EPRU     4.95  84 iPc    20 20.95   1.1
                  e      21 10.50
EHOR     5.03  75 iPc    20 21.10   0.0
                  e      21 12.80
EPLA     5.39  49 iP     20 21.40  -4.7X
                  eSn    21 22.10
EPLA     5.39  49 iPc    20 26.14   0.0
                  e      21 22.10
CIA      5.52 156 iP     20 28.00   0.0
                  iS     21 24.50
EZAM     5.88  20 iPd    20 33.36   0.4
OUK      6.16 151 iP     20 36.50  -0.4
                  iS     21 40.50
EBAN     6.23  74 iPc    20 36.74  -1.3
                  e      21 42.20
EGUA     6.28  86 iPd    20 38.33  -0.4
ECOG     6.29  82 iPd    20 38.79  -0.2
                  e      21 44.20
TNF      6.47 128 iP     20 41.50   0.2
                  iS     21 44.00
EHUE     7.11  78 iPc    20 50.16  -0.3
                  e      22 04.50
EVIA     7.32  72 iPc    20 52.25  -1.2
                  e      22 08.40
     S.D. = 0.8  on  14 of  15 obs.
-----------------------------------
   OCT  08, 1993  20h 45m 08.98± 0.29s
   17.934 N ± 5.4km   76.396 E ± 5.9km
   DEPTH =  33.0km  (normal)
   4.7mb ( 19 obs.)
 SOUTHERN INDIA                    (314)
      Felt in the Latur-Osmanabad
      area.

POO      2.49 284 iPc    45 56.20   8.0X
         0.9s   403.36nm
                  iS     46 25.70
BOM      3.53 286 iPn    46 04.10   1.2
                  iPg    46 52.20
                  iSg    47 10.40
GBA      4.42 167 P      46 15.10  -0.4
         0.2s     9.00nm
                  S      47 07.10
KOD      7.72 172 ePn    47 02.00  -0.3
                  eSn    48 23.60
NDI     10.73   4 iPd    47 37.00  -6.4X
         0.5s   211.27nm          6.6mb X
                  eS     49 32.00
SHL     16.26  59 eP     48 51.00  -5.8X
                  eS     51 43.00
KSH     21.45 359 eP     49 56.00  -0.7
KMI     25.50  69 eP     50 37.00   0.6
         1.5s    50.00nm          4.9mb
WMQ     27.51  18 P      50 55.20   0.7
XAN     33.17  55 P      51 44.50  -0.2
TIY     37.16  51 Pd     52 18.60  -0.2
KAF     56.13 334 iP     54 47.80   0.4
         0.4s     4.30nm          4.8mb
GEC2    58.78 317 P      55 06.00  -0.5
         0.8s     1.44nm          4.2mb
                  e      55 11.90
                  e      55 15.40
HFS     61.09 329 eP     55 21.20  -0.7
         0.4s     1.30nm          4.4mb
NB2     62.49 330 P      55 30.80  -0.6
         0.7s     3.60nm          4.6mb
LPG     63.23 312 eP     55 35.50  -1.3
         0.6s     1.80nm          4.4mb
LPL     63.24 312 eP     55 36.20  -0.6
         0.5s     3.30nm          4.7mb
LBF     65.17 314 eP     55 48.90  -0.3
         0.9s     4.60nm          4.6mb
LOR     65.25 314 eP     55 49.30  -0.4
         0.9s     3.75nm          4.5mb
SMF     65.26 314 eP     55 49.00  -0.7
         0.6s     2.05nm          4.4mb
SSF     65.49 314 eP     55 51.20   0.0
         0.7s     4.50nm          4.7mb
AVF     65.60 314 eP     55 51.60  -0.2
         0.8s     4.05nm          4.6mb
TCF     66.40 313 eP     55 57.40   0.4
         0.9s    10.95nm          5.0mb
RJF     66.92 312 eP     56 01.10   0.8
         0.6s     3.50nm          4.6mb
LPO     67.18 312 eP     56 02.70   0.7
         0.5s     4.00nm          4.8mb
LFF     67.48 312 eP     56 04.80   0.9
         0.5s     6.10nm          5.0mb
MFF     68.01 314 eP     56 07.50   0.3
         0.8s     5.25nm          4.7mb
WRA     68.19 121 P      56 09.40   0.7
         0.7s     5.20nm          4.7mb
WR2     68.21 121 iPd    56 09.20   0.4
         0.6s    15.50nm          5.3mb
CNCB   146.02 266 iPKPc  04 51.00   3.2X
LPAZ   146.09 267 PKP    04 51.00   3.0X
LPB    146.09 267 PKPc   04 51.00   3.3X
     S.D. = 0.7  on  26 of  32 obs.
-----------------------------------
   OCT  08, 1993  22h 09m 34.30± 0.46s
   42.454 N ± 4.6km    2.175 E ± 3.5km
   DEPTH =  10.0km  (geophysicist)
 PYRENEES                          (378)
      ML 3.7 (LDG). mbLg 3.7 (MDD).
      Felt (IV) in the Bourg-Madame
      and Mont-Louis areas, France.

ETER     0.53 107 iPc    09 45.22   0.3
                  e      09 52.80
LSPF     0.53 338 Pg     09 45.92   0.8
                  Sg     09 51.09
SALF     0.79 293 Pg     09 49.31  -0.4
EPF      1.47 294 Pn     10 01.40   0.5
                  Pg     10 02.80
                  Sg     10 20.60
EGRA     1.87 263 iPd    10 00.93  -5.6X
                  e      10 18.90
BTH      1.88 292 Pnd    09 12.00 -54.7X
                  iPgc   09 14.90
                  e      09 22.50
                  iS     09 36.10
                  i      09 37.10
EBR      2.06 218 iPn    10 12.50   3.1X
                  iSg    10 39.00
EROQ     2.10 220 iPc    10 12.43   2.5X
                  e      10 38.20
LPO      2.34 342 Pn     10 14.40   1.0
                  Pg     10 19.50
                  Sg     10 49.40
CAF      2.47 358 Pn     10 16.10   0.8
                  Pg     10 21.30
                  Sg     10 52.70
LFF      2.69 338 Pn     10 19.70   1.3
                  Pg     10 25.70
                  Sg     11 00.90
RJF      2.89 351 Pn     10 21.70   0.5
                  Pg     10 28.90
                  Sg     11 05.60
LRG      3.23  71 Pn     10 26.90   0.9
                  Sn     11 03.70
LMR      3.30  73 Pn     10 27.50   0.4
                  Sn     11 05.80
FRF      3.46  70 Pn     10 29.90   0.6
                  Sn     11 08.90
ECRI     3.47 274 iPc    10 28.95  -0.5
                  e      11 09.10
ETOR     3.57 244 eP     10 31.57   0.7
                  e      11 13.10
ECHE     3.72 221 eP     10 33.76   0.7
MAF      3.78   4 Pn     10 32.80  -1.0
                  Pg     10 46.10
                  Sg     11 34.50
LSF      3.82 353 Pn     10 34.40  -0.1
                  Pg     10 46.40
                  Sg     11 35.50
TCF      3.83   0 Pn     10 34.50  -0.1
                  Pg     10 47.20
                  Sg     11 36.80
SBF      4.10  68 Pn     10 38.60   0.2
                  Sn     11 25.00
BGF      4.13   6 Pn     10 39.40   0.6
                  Pg     10 52.50
                  Sg     11 45.90
SMF      4.36  15 Pn     10 41.30  -0.7
                  Pg     10 56.90
                  Sg     11 50.80
AVF      4.42  11 Pn     10 42.40  -0.4
                  Pg     10 57.70
                  Sg     11 54.70
MFF      4.47 339 Pn     10 43.60   0.1
                  Pg     10 58.70
                  Sn     11 32.30
                  Sg     11 54.20
LPG      4.49  46 Pn     10 45.00   0.8
LPL      4.49  45 Pn     10 44.60   0.4
SSF      4.70  11 Pg     11 03.10  16.1X
                  Sg     12 03.00
LBF      4.71  15 Pn     10 46.90  -0.2
                  Pg     11 03.50
                  Sg     12 04.10
LOR      4.96  13 Pg     11 08.00  17.4X
                  Sg     12 11.60
PGF      5.05  87 Pn     10 49.20  -2.7
                  Sn     11 43.90
GUD      5.08 251 eP     10 51.59  -0.8
                  e      11 47.80
HAU      6.28  27 Pg     11 33.20  23.9X
                  Sg     12 55.40
BSF      6.29  30 Pg     11 31.80  22.4X
                  Sg     12 52.00
GRR      6.31 341 Pn     11 08.10  -1.4
                  Pg     11 31.40
                  Sn     12 14.60
                  Sg     12 52.70
LDF      6.35 346 Pn     11 08.10  -2.1
                  Sn     12 16.90
                  Sg     12 55.20
CDF      6.95  29 Pg     11 46.20  27.5X
                  Sg     13 13.80
     S.D. = 1.0  on  29 of  38 obs.
-----------------------------------
*  OCT  08, 1993  23h 08m 14.57± 0.77s
   12.961 N ±14.0km   88.000 W ±13.7km
   DEPTH =  33.0km  (normal)
   4.1mb (  2 obs.)
 OFF COAST OF CENTRAL AMERICA      ( 76)
```

Felt (V) at Usulutan, El Salvador.

```
VSM     0.54 330 iPc    08 25.60  -0.3
SJAS    1.33 302 ePc    08 36.70  -0.5
                 iS     08 48.40
LFU     1.34 306 iPd    08 36.10  -1.0
VSS     1.44 303 iPc    08 38.80   0.1
TME     1.69 309 iPd    08 41.60  -0.6
YUP     2.14 305 eP     08 49.73   0.9
                 eS     09 10.96
IXG     2.67 297 eP     08 57.81   1.4
                 eS     09 30.83
BVA     3.07 304 eP     09 05.19   3.0X
                 eS     09 41.50
LTX    21.84 321 iPc    13 09.96   3.7X
UYO    21.91 346 iPc    13 18.60  11.8X
MIAR   22.08 348 iPd    13 10.06   1.6
        0.9s      6.25nm          4.0mb
WMOK   23.78 338 (P)    13 24.57  -0.6
        0.9s      5.67nm          4.1mb
DAU    34.13 327 (P)    14 57.99  -0.9
LPAZ   35.08 145 (P)    15 11.60   4.0X
                 LR     28 25.00
LPB    35.30 146 P      15 10.00   0.8
CNCB   35.59 146 eP     15 11.00  -0.9
LRM    38.75 332 eP     15 45.20   7.4X
NDI   136.20  19 ePKP   27 40.00   5.0X
WRA   138.89 255 PKP    27 54.50  14.2X
        0.9s      0.80nm
      S.D. = 1.0  on  12 of  19 obs.
-----------------------------------
   OCT  09, 1993  02h 42m 45.66± 0.41s
   39.381 N ± 4.0km   21.636 E ± 3.8km
   DEPTH =  10.0km  (geophysicist)
 GREECE                              (364)
      ML 3.5 (ATH), 3.0 (THE).

AGG     0.65 123 ePg    42 58.60   0.0
                 eSg    43 10.08
KZN     0.93   6 ePg    43 03.00  -0.5
                 eSg    43 17.80
LIT     0.97  42 ePg    43 04.44   0.2
                 eSg    43 20.92
IGT     1.02 279 ePg    43 03.24  -1.7
SRN     1.36 292 ePn    43 11.80   1.2
KBN     1.40 333 ePn    43 10.00  -1.3
                 iSn    43 30.00
FNA     1.42 352 iPb    43 11.00  -0.5
                 eSb    43 31.88
VLS     1.45 215 ePb    43 12.00   0.0
KEK     1.46 284 ePb    43 13.60   1.6X
TPE     1.55 307 iPnc   43 13.50   0.2
                 iSn    43 40.50
THE     1.61  39 ePb    43 14.96   0.7
                 iSb    43 37.12
PAIG    1.67  70 ePb    43 14.12  -0.9
                 eSb    43 36.20
GRG     1.68  20 ePb    43 14.84  -0.4
                 iSb    43 36.76
OHR     1.84 340 iPn    43 19.00   1.4
       0.8s   130.00nm
                 i      43 19.80
                 i      43 43.00
                 i      43 44.90
SOH     1.95  42 ePn    43 19.36   0.2
                 eSn    43 44.04
VLO     1.97 304 ePn    43 20.00   0.6
KNT     2.02  28 ePn    43 20.32   0.1
                 eSn    43 46.64
ATH     2.15 130 ePb    43 22.50   0.5
SRS     2.29  40 ePn    43 23.80  -0.3
                 eSn    43 53.44
TIR     2.39 326 ePn    43 26.00   0.6
SKO     2.59 357 ePn    43 34.00   5.7X
VLI     2.85 158 ePn    43 32.00   0.0
GEC2   11.04 332 Pg     45 34.20   7.6X
                 Sn     46 09.10
      S.D. = 0.8  on  20 of  23 obs.
-----------------------------------
?  OCT  09, 1993  02h 44m 25.33± 5.59s
   46.534 N ±14.3km    9.004 E ±56.7km
   DEPTH =  10.0km  (geophysicist)
 SWITZERLAND                         (544)
      ML 2.5 (LDG).

FEL     1.50 334 ePn    44 53.10   0.7
LPG     1.88 237 Pn     44 58.00  -0.1
LPL     1.88 238 Pn     44 58.10   0.1
BSF     1.99 312 Pn     45 00.30   0.8
                 Sn     45 25.60
                 Sg     45 34.60
CDF     2.21 329 Pn     45 01.80  -0.9
                 Sn     45 29.50
                 Sg     45 38.30
HAU     2.33 310 Pn     45 03.80  -0.6
                 Sn     45 33.10
      S.D. = 0.9  on   6 of   6 obs.
-----------------------------------
*  OCT  09, 1993  03h 00m 15.05± 1.58s
   14.253 N ±21.1km   93.034 W ± 9.6km
   DEPTH =  33.0km  (normal)
   4.0mb (  3 obs.)
 NEAR COAST OF CHIAPAS, MEXICO     ( 69)
      MD 4.1 (GCG).

TPX     0.99  49 iP     00 34.50   1.9
BVA     2.36  80 eP     00 53.54   1.0
SCX     2.50   9 eP     00 53.50  -0.8
                 iS     01 31.00
IXG     2.50  91 eP     00 53.85  -0.6
YUP     3.13  91 eP     01 02.94  -0.5
OXX     4.53 309 eP     01 20.00  -3.4X
PPM     7.19 313 eP     02 01.50   0.5
MRX     9.50 306 eP     02 32.50  -0.2
LTX    17.95 328 eP     04 25.15   1.3
MIAR   20.21 359 (P)    04 47.39  -2.6
        1.0s      6.35nm          3.9mb
TUC    24.20 321 (P)    05 30.89   1.1
        1.1s      4.41nm          3.9mb
LRM    35.48 336 eP     07 11.10   0.3
YKA    50.55 347 eP     09 10.80  -1.4
        0.9s      5.70nm          4.6mb
      S.D. = 1.4  on  12 of  13 obs.
-----------------------------------
   OCT  09, 1993  03h 37m 23.84± 0.18s
   15.286 S ± 7.1km  173.537 W ± 7.9km
   DEPTH =  10.0km  (geophysicist)
   5.1mb ( 15 obs.)  4.9Msz (  5 obs.)
 TONGA ISLANDS                       (173)

AFI     2.19  51 P      37 57.00  -3.8X
BKM    17.63 260 iPc    41 43.00  11.7X
DZM    20.12 247 iPc    42 01.90   1.0
URZ    24.33 198 eP     42 43.20   0.5
WLZ    24.46 201 eP     42 46.70   2.7X
MNG    26.99 199 eP     43 08.10   0.4
QRZ    28.19 203 eP     43 18.70   0.2
THZ    28.87 201 eP     43 24.50  -0.3
LTZ    29.99 201 eP     43 33.00  -1.8
ARMA   35.29 239 eP     44 20.60  -0.6
        0.3s      4.00nm          4.8mb
TOO    42.44 231 iPd    45 20.50  -0.1
        0.9s     46.00nm          5.2mb
STK    43.98 240 eP     45 33.20   0.0
        1.1s      6.40nm          4.4mb
WR2    49.72 257 iPc    46 17.30  -1.2
        0.8s     14.40nm          5.0mb
WRA    49.74 257 P      46 18.40  -0.3
        0.6s      4.80nm          4.7mb
ASPA   50.02 252 eP     46 19.90  -0.9
        0.7s     22.80nm          5.3mb
SMY    68.57 352 P      48 40.00  11.3X
     Z  21s      1.63um          5.2Msz
SDN    71.21   8 P      48 50.00   5.3X
     Z  19s      1.56um          5.3Msz
BCH    71.31  44 eP     48 45.73  -0.2
ARN    71.63  41 eP     48 47.34  -0.4
KMPM   71.93  38 eP     48 49.57   0.1
ORV    72.97  40 eP     48 54.69  -0.9
LGPM   73.01  38 eP     48 55.69  -0.2
GSC    73.60  45 eP     48 58.80  -0.7
LBFM   73.83  38 eP     49 00.30  -0.5
BONR   74.07  42 eP     49 02.12  -0.2
SPA    74.81 180 iPc    49 05.80  -0.3
        0.7s     35.16nm          5.5mb
TNP    74.85  43 eP     49 06.27  -0.5
        0.9s     17.57nm          5.1mb
TUC    76.42  51 iPd    49 16.73   1.0
        1.1s     27.95nm          5.3mb
ARUT   77.21  45 eP     49 20.02  -0.1
RMW    77.69  33 eP     49 22.01  -0.4
MSU    78.44  45 eP     49 27.17   0.2
DUG    78.87  43 eP     49 28.52  -0.6
        1.2s     18.24nm          5.0mb
PMR    79.04  12 P      49 40.00  10.7X
     Z  20s      0.34um          4.7Msz
HVU    79.71  42 eP     49 33.52  -0.1
SRU    79.86  45 eP     49 34.06  -0.5
DPW    79.87  34 eP     49 33.67  -0.6
DAU    80.00  43 eP     49 35.01  -0.5
PV09   80.52  46 eP     49 38.50   0.3
PV10   80.53  46 eP     49 37.86  -0.4
PTI    80.53  41 eP     49 38.40   0.4
FBA    82.31  11 eP     49 46.20  -0.4
        0.7s     22.38nm          5.4mb
GOL    83.67  46 eP     49 54.62   0.1
        1.0s     15.41nm          5.2mb
GLD    83.80  46 eP     49 55.67   0.6
        1.2s     22.10nm          5.3mb
RSSD   86.47  43 eP     50 07.89  -0.4
        1.1s     14.56nm          5.1mb
YKA    90.05  23 eP     50 24.40  -0.3
        0.9s      2.70nm          4.5mb
MIAR   90.52  54 P      50 40.00  12.5X
     Z  21s      0.13um          4.3Msz
NVL    94.09 182 eP     50 44.00   0.7
PRU   144.77 351 ePKP   57 05.00   2.4X
                 e      57 19.00
DOU   145.25   2 PKPc   57 03.00  -0.3
        0.6s      7.30nm
GRF   145.47 355 iPKP   57 04.40   0.6
                 e      57 14.90
                 e      57 25.20
PSZ   145.62 344 e(PKP) 57 02.00  -2.2X
MLR   145.71 335 ePKPd  57 04.50   0.0
WLF   145.71   0 iPKPc  57 04.93   0.8
        1.1s     17.90nm
KHC   145.75 352 PKPc   57 05.50   1.2
        1.1s     12.50nm
                 e      57 16.00
                 e      57 32.00
GEC2  146.01 351 PKP    57 05.50   0.7
        0.6s      3.80nm
                 e      57 20.30
ZST   146.03 347 ePKP   57 06.20   1.5
FLN   146.13   8 ePKP   57 05.40   0.5
        0.9s     17.05nm
     Z  22s      0.15um          4.7Msz
LDF   146.35   8 ePKP   57 06.30   1.1
        1.3s     53.45nm
GRR   146.44   9 ePKP   57 05.80   0.4
        0.9s     13.25nm
LPF   146.76   9 ePKP   57 07.50   1.6
        1.3s     41.15nm
CDF   146.96 359 iPKPc  57 08.60   2.2X
        1.2s     19.65nm
HAU   147.37   0 iPKPc  57 09.70   2.7X
        0.7s      6.85nm
LOR   148.04   3 iPKPc  57 11.40   3.4X
        0.6s      4.50nm
     Z  24s      0.10um          4.5MszX
SSF   148.22   4 iPKPc  57 12.00   3.7X
        1.0s     11.60nm
LBF   148.33   3 iPKPc  57 12.20   3.7X
        0.9s      9.15nm
AVF   148.48   4 iPKPc  57 12.40   3.7X
        1.1s      8.05nm
SMF   148.66   3 ePKP   57 12.80   3.8X
        1.1s     10.25nm
BGF   148.68   5 ePKP   57 13.10   4.0X
        1.0s     12.40nm
MAF   148.99   5 ePKP   57 13.90   4.3X
        0.9s      7.35nm
LPL   149.86 360 ePKP   57 17.30   6.1X
        0.8s      6.70nm
LPG   149.88 360 iPKPc  57 17.40   6.1X
        0.9s      7.35nm
OHR   151.42 337 ePKP   57 17.00   3.6X
EPF   151.86  10 ePKP   57 23.90   9.9X
        0.9s      8.20nm
      S.D. = 0.7  on  51 of  73 obs.
-----------------------------------
*  OCT  09, 1993  03h 59m 44.10± 1.69s
   6.665 S ±12.9km  127.262 E ±18.5km
   DEPTH = 435.5 ± 25.1 km
   4.0mb (  1 obs.)
 BANDA SEA                           (280)

MTN     7.23 148 iPc    01 32.00   0.0
                 eS     02 50.00
```

09d 04h

```
KNA      9.15 171 iPd   01 53.80   0.3
WRA     14.88 153 P     02 48.00  -7.9X
         1.4s     0.40nm          2.7mb X
WR2     14.90 153 iPd   02 55.30  -0.8
         0.6s    62.10nm          5.3mb X
                  eS    05 29.50
MBL     16.10 206 iPd   03 08.00  -0.5
ASPA    18.07 160 eP    03 29.00   0.9
                  iS    06 33.20
MEEK    21.50 202 iPc   04 01.20   0.0
MAT     44.19  13 eP    07 14.00  -0.1
         1.0s     7.00nm          4.0mb
GBA     53.41 292 P     08 24.00   0.2
      S.D. = 0.7  on   8 of   9 obs.
-----------------------------------
*  OCT  09, 1993  05h 59m 24.72± 0.37s
   41.806 N ± 7.2km  139.362 E ±11.7km
   DEPTH =  33.0km  (normal)
   4.5mb ( 14 obs.)
 HOKKAIDO, JAPAN  REGION          (224)

MAT      5.33 190 (P)   00 44.00  -0.1
                  (S)   01 43.00
IMA     43.47  33 eP    07 25.34  -0.8
         0.8s     1.49nm          3.8mb
FBA     45.99  35 eP    07 45.55  -0.6
         0.6s     2.07nm          4.2mb
INK     50.91  29 eP    08 24.50   0.3
         0.5s     2.00nm          4.3mb
RES     58.39  15 eP    09 17.50  -1.2
         0.9s     3.00nm          4.4mb
YKA     60.51  31 eP    09 32.20  -1.2
         0.7s     1.70nm          4.3mb
WRA     61.61 185 P     09 40.70  -0.6
         0.6s     3.10nm          4.6mb
WR2     61.61 185 eP    09 40.30  -1.0
         0.6s     5.90nm          4.9mb
KAF     63.36 331 iP    09 51.90  -0.6
         0.6s     5.70nm          4.9mb
NUR     65.01 330 iP    10 02.60  -0.7
         0.5s     5.00nm          4.9mb
NEW     67.83  45 eP    10 21.60   0.1
         0.7s     6.40nm          4.8mb
HFS     69.10 334 eP    10 28.20  -0.9
         0.4s     2.60nm          4.7mb
NB2     69.18 336 P     10 29.30  -0.4
         0.8s     5.50nm          4.7mb
LRM     71.85  44 eP    10 46.30   0.0
CLL     76.18 329 eP    11 11.00   0.0
ULM     76.38  33 eP    11 15.50   3.4X
PRU     76.60 327 P     11 14.50   1.1
MSU     76.93  50 eP    11 16.57   0.8
RSSD    77.31  41 eP    11 17.90   0.2
         0.9s     5.11nm          4.6mb
KHC     77.67 327 eP    11 20.50   1.2
GEC2    77.84 327 P     11 20.90   0.6
         0.6s     0.77nm          3.9mb
                  e     11 22.40
PV10    78.80  48 eP    11 26.98   1.0
LPAZ   145.29  51 PKPd  19 01.70   0.0
LPB    145.50  51 (PKP) 19 03.00   1.2
CNCB   145.79  51 iPKPd 19 04.20   1.7
CCH    147.31  50 PKP   19 08.50   3.9X
      S.D. = 0.9  on  24 of  26 obs.
-----------------------------------
%  OCT  09, 1993  08h 22m 32.41± 1.07s
   39.171 N ± 7.2km   27.612 E ±13.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 2.7 (ISK).

IZM      0.82 200 ePg   22 48.30   0.0
                  eSg   23 01.80
EDC      1.19   9 ePn   22 54.50  -0.1
EZN      1.19 304 ePn   22 54.70   0.1
BNT      1.21  11 ePn   22 55.20   0.3
MFT      1.63 351 ePn   23 01.00  -0.4
      S.D. = 0.3  on   5 of   5 obs.
-----------------------------------
*  OCT  09, 1993  08h 24m 37.20± 1.74s
   44.089 N ±14.0km   12.190 E ±11.4km
   DEPTH =   5.0km  (geophysicist)
 NORTHERN ITALY                   (545)
      ML 3.2 (LDG). MD 3.2 (FIR).

FIR      0.74 246 ePg   24 50.50  -1.5
                  iSg   25 08.00
RIY      2.01  51 iPn   25 16.50   4.4X
                  iSg   25 44.70
VOY      2.29  31 ePn   25 17.20   0.9
                  e(Sn) 25 44.30
                  e(Sg) 25 54.80
CEY      2.29  43 e(Pn) 25 23.10   6.8X
                  eSn   25 54.50
LJU      2.56  40 ePn   25 14.60  -5.5X
                  eSg   25 52.00
VBY      2.60  56 ePn   25 27.00   6.4X
                  i     26 03.80
                  i     26 07.90
PGF      2.79 238 Pn    25 26.60   3.1X
                  Sn    26 01.10
OGA      2.90 344 iPnc  25 27.20   2.2X
PTJ      3.23  55 iPn   25 41.10  11.5X
                  iSn   26 24.00
SBF      3.44 268 Pn    25 35.40   2.8X
                  Sn    26 17.10
FRF      4.05 264 Pn    25 44.20   3.1X
                  Sn    26 30.50
LPG      4.12 292 Pn    25 43.50   1.1
LPL      4.14 292 Pn    25 44.40   1.8X
LMR      4.19 262 Pn    25 45.80   2.7X
                  Sn    26 33.60
LRG      4.27 263 Pn    25 46.40   2.1
                  Sn    26 35.80
GEC2     4.87  12 Pn    25 52.40  -0.6
                  Pg    26 00.30
                  Sn    26 28.50
KHC      5.13  10 Pn    25 55.50  -1.1
                  e     26 18.50
                  eSn   26 53.50
                  eSg   27 26.00
BSF      5.31 317 Pn    25 59.40   0.2
                  Sn    26 55.70
CDF      5.50 323 Pn    26 02.00   0.1
HAU      5.65 316 Pn    26 04.20   0.4
                  Sn    27 04.00
SMF      6.41 296 Pn    26 14.10  -0.6
                  Sn    27 23.90
LBF      6.45 300 Pn    26 15.00  -0.3
                  Sn    27 26.00
LOR      6.65 301 Pn    26 17.90   0.0
                  Sn    27 29.10
AVF      6.78 297 Pn    26 19.10  -0.7
      S.D. = 1.1  on  13 of  24 obs.
-----------------------------------
?  OCT  09, 1993  08h 25m 44.55± 7.35s
   39.015 N ±48.8km   20.464 E ±48.2km
   DEPTH =   5.0km  (geophysicist)
 GREECE-ALBANIA BORDER REGION     (392)

IGT      0.53 349 ePg   25 54.02  -1.1
                  eSg   26 03.54
AGG      1.45  89 ePb   26 10.94  -0.6
                  eSb   26 30.18
FNA      1.90  21 ePb   26 17.14  -0.8
                  eSb   26 43.54
LIT      1.90  55 ePb   26 17.82  -0.2
                  eSb   26 42.98
OHR      2.11   7 iPn   26 22.20   1.2
      S.D. = 1.3  on   5 of   5 obs.
-----------------------------------
?  OCT  09, 1993  08h 55m 30.12± 2.54s
   28.587 S ±10.9km   67.514 W ±24.1km
   DEPTH = 147.5 ± 59.1 km
 LA RIOJA PROVINCE, ARGENTINA     (138)

RTPR     1.92 153 ePd   56 04.50   0.0
FSA      2.83  29 ePc   56 15.70   0.0
RTLL     2.86 197 iPc   56 16.00  -0.1
                  S     56 50.50
CFA      3.07 192 ePc   56 19.10   0.2
                  S     56 55.20
MRA      4.12 158 ePc   56 32.50   0.0
                  S     57 20.70
      S.D. = 0.2  on   5 of   5 obs.
-----------------------------------
?  OCT  09, 1993  09h 09m 48.61± 0.74s
    2.680 N ±13.7km  128.603 E ±15.5km
   DEPTH =  33.0km  (normal)
   4.6mb (  2 obs.)
 HALMAHERA, INDONESIA             (267)

DAV      5.32 326 eP    11 50.40  42.6X
LEM     22.98 246 ePd   14 51.20  -0.5
WR2     23.19 166 iPc   14 54.60   1.0
         0.9s    12.20nm          4.4mb
                  e     17 10.50
QIS     25.49 155 eP    15 15.60  -0.1
ASPA    26.69 169 eP    15 26.80   0.0
CTA     28.50 143 eP    15 43.00  -0.2
BRS     37.90 144 iP    16 48.00 -16.7X
                  i     17 05.00
ARMA    39.58 148 eP    17 18.20  -0.6
LZH     40.36 328 eP    17 25.00  -0.2
         1.4s    28.00nm          4.8mb
                  pP    17 32.00  24kmX
SHL     42.00 306 eP    17 39.50   0.6
GBA     51.69 285 P     18 55.00  -0.1
      S.D. = 0.6  on   9 of  11 obs.
-----------------------------------
%  OCT  09, 1993  09h 13m 43.05± 1.06s
   39.140 N ± 6.8km   27.580 E ±13.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 2.7 (ISK).

IZM      0.78 199 ePg   13 58.30   0.0
                  eSg   14 10.30
EZN      1.19 306 ePn   14 05.20   0.0
EDC      1.23  10 ePn   14 06.00   0.2
BNT      1.24  12 ePn   14 06.00  -0.1
KGT      1.33 351 iPn   14 07.50   0.0
      S.D. = 0.2  on   5 of   5 obs.
-----------------------------------
?  OCT  09, 1993  09h 14m 43.23± 7.47s
   38.558 N ±28.4km   18.797 E ±58.0km
   DEPTH =  10.0km  (geophysicist)
 IONIAN SEA                       (399)
      ML 3.8 (TIR). MD 3.5 (ATH).

VLS      1.46 105 ePb   15 10.00   0.4
IGT      1.54  50 ePg   15 10.76   0.0
                  eSg   15 18.28
SRN      1.62  35 ePn   15 11.70  -0.1
TPE      1.97  28 iPnc  15 16.50  -0.5
                  iSn   15 40.00
VLO      1.98  16 ePn   15 30.30  13.1X
KBN      2.57  36 iPnc  15 31.50   5.8X
                  iSn   15 53.80
AGG      2.80  79 ePb   15 27.84  -1.1
                  eSb   15 48.32
KZN      2.89  52 ePn   15 28.00  -2.2
TIR      2.91  16 ePn   15 46.70  16.4X
                  iSn   16 17.50
OHR      2.98  31 iPn   15 35.50   4.1X
         0.5s   190.00nm
                  i     15 41.20
                  i     16 04.80
                  i     16 10.60
FNA      2.98  41 ePb   15 33.60   2.1X
                  eSb   15 57.44
LIT      3.25  61 ePb   15 35.68   0.4
                  eSb   15 58.92
GRG      3.67  48 ePn   15 42.48   1.2
VLI      3.76 118 ePb   15 51.80   9.2X
SKO      3.96  30 ePn   15 59.00  13.6X
KNT      4.09  49 ePn   15 48.80   1.7
OUR      4.39  65 ePn   15 51.68   0.3
      S.D. = 1.3  on  10 of  17 obs.
-----------------------------------
?  OCT  09, 1993  09h 19m 48.42± 2.15s
    3.540 N ±26.8km  129.936 E ±30.1km
   DEPTH = 194.7 ± 22.4 km
   4.5mb (  6 obs.)
 NORTH OF HALMAHERA, INDONESIA    (264)

DAV      5.59 309 e(P)  21 11.00   0.0
WR2     23.74 170 iPc   24 44.50   0.1
         0.6s    25.80nm          5.0mb
QIS     25.76 159 eP    25 06.20   3.2X
ASPA    27.32 172 eP    25 17.50   0.4
         1.0s     8.40nm          4.4mb
CHTO    33.89 299 eP    26 13.90  -0.9
XAN     36.11 330 P     26 38.50   5.1X
         0.6s     5.00nm          4.3mb
BRS     37.83 146 eP    26 38.00  -9.9X
                  i     26 45.00
ARMA    39.62 150 iPc   27 09.00   6.2X
         0.9s    15.00nm          4.6mb
LZH     40.35 327 eP    27 16.00   7.2X
         1.4s    34.00nm          4.7mb
```

```
     Z  15s      0.39um          4.4MszX
SHL    42.59 305 iP    27 29.00   1.8
DZM    43.84 127 iPc   27 36.90  -0.4
LSA    45.00 310 Pd    27 50.40   3.6X
        1.2s    14.00nm          4.3mb
GBA    52.76 284 P     28 45.00  -0.8
     S.D. = 1.3  on   7 of  13 obs.
-----------------------------------
%  OCT  09, 1993  09h 20m 42.91± 1.22s
   39.109 N ± 7.5km   27.705 E ±15.1km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.7 (ISK).

IZM     0.79 206 iPg   20 58.30   0.0
                 eSg   21 11.30
EDC     1.24   6 ePn   21 06.00   0.0
BNT     1.26   8 ePn   21 06.20  -0.1
EZN     1.29 304 iPn   21 06.70   0.0
KGT     1.38 347 iPn   21 08.20   0.1
     S.D. = 0.1  on   5 of   5 obs.
-----------------------------------
?  OCT  09, 1993  09h 56m 44.61± 0.93s
   39.642 N ± 9.7km   29.552 E ± 9.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.8 (ISK).

ALT     0.73 143 ePg   56 59.00   0.0
                 eSg   57 10.10
EYL     1.03  27 ePn   57 04.20   0.0
BNT     1.44 300 ePn   57 11.00   0.2
EDC     1.48 299 ePn   57 11.00  -0.2
     S.D. = 0.3  on   4 of   4 obs.
-----------------------------------
%  OCT  09, 1993  10h 38m 56.01± 0.62s
   41.336 S ± 5.2km  173.425 E ± 5.3km
   DEPTH = 109.2 ± 10.1 km
 SOUTH ISLAND, NEW ZEALAND         (162)

THZ     0.58 222 Pc    39 13.20  -0.4
                 S     39 24.10
DIW     0.65  35 Pc    39 13.60  -0.6
TCW     0.65  79 Pc    39 14.40   0.3
CCW     0.72 125 eP    39 15.50   0.8
QRZ     0.85 307 Pd    39 14.40  -1.5
                 eS    39 26.50
MRW     0.97  84 P     39 17.20   0.1
                 S     39 31.40
WEL     1.01  88 P     39 17.70   0.2
                 S     39 32.40
KIW     1.22  68 P     39 20.30   0.5
CAW     1.26  80 Pd    39 20.40   0.1
DSZ     1.29 251 Pd    39 20.30  -0.3
BLW     1.54  92 P     39 23.60  -0.1
MTW     1.58  84 Pd    39 23.90  -0.2
LTZ     1.68 210 P     39 26.20   0.8
                 eS    39 48.10
MNG     1.71  66 P     39 25.60  -0.2
                 eS    39 46.50
BSZ     1.92  37 P     39 29.70   1.3
NRZ     2.03  11 P     39 30.80   0.9
PGZ     2.27  73 P     39 32.20  -0.8
MQZ     2.44 193 P     39 34.60  -0.5
                 S     40 02.20
WVZ     2.65 228 eP    39 39.10   1.1
                 eS    40 08.40
CNZ     2.68  38 eP    39 38.90   0.4
NGZ     2.72  38 P     39 39.40   0.2
WAHZ    2.77  55 P     39 39.10  -0.5
MOZ     3.02  21 P     39 43.30   0.3
                 S     40 16.30
WLZ     3.85  27 eP    39 55.30   1.1
URZ     4.18  44 P     39 56.20  -2.6
                 S     40 42.20
ODZ     4.23 208 P     39 59.00  -0.4
KUZ     4.92  22 P     40 08.90   0.1
     S.D. = 0.9  on  27 of  27 obs.
-----------------------------------
%  OCT  09, 1993  10h 42m 18.67± 0.78s
   40.566 N ± 6.7km   27.726 E ± 6.3km
   DEPTH =   5.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.6 (ISK).

EDC     0.24 154 iPg   42 23.50  -0.1
BNT     0.26 145 iPg   42 24.20   0.3
KGT     0.34 251 iPg   42 25.20  -0.4
                 iSg   42 29.20
MFT     0.40 303 iPg   42 27.20   0.4
CTT     0.79  42 ePg   42 34.20  -0.3
     S.D. = 0.5  on   5 of   5 obs.
-----------------------------------
%  OCT  09, 1993  10h 47m 52.79± 0.88s
   39.641 N ± 9.5km   29.460 E ± 9.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.8 (ISK).

ALT     0.77 139 ePg   48 08.00   0.1
                 eSg   48 19.00
EYL     1.07  30 ePn   48 12.70  -0.3
BNT     1.38 302 ePn   48 18.20   0.1
EDC     1.41 300 ePn   48 18.00  -0.6
CTT     1.70 333 ePn   48 23.20   0.6
     S.D. = 0.6  on   5 of   5 obs.
-----------------------------------
%  OCT  09, 1993  11h 04m 18.42± 0.42s
   40.483 N ± 5.0km   29.010 E ± 3.2km
   DEPTH =   5.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.9 (ISK).

IZI     0.38 112 iPg   04 26.20   0.1
                 iSg   04 32.50
ISK     0.58   4 iPg   04 30.70   0.6
                 iSg   04 38.20
HRT     0.60  56 iPg   04 30.20  -0.3
                 iSg   04 38.20
CTT     0.80 327 iPg   04 33.70  -0.7
BNT     0.84 262 iPg   04 35.20   0.0
                 eSg   04 46.20
EYL     0.88  84 iPg   04 35.20  -0.6
                 eSg   04 47.70
EDC     0.89 262 ePg   04 35.00  -0.9
GPA     1.01 101 iPg   04 38.10   0.1
                 iSg   04 52.10
KGT     1.30 269 iPn   04 43.20   0.2
MFT     1.35 284 ePn   04 44.20   0.3
DMK     1.64 325 ePn   04 48.60   0.6
ALT     1.66 149 ePn   04 49.00   0.6
     S.D. = 0.6  on  12 of  12 obs.
-----------------------------------
*  OCT  09, 1993  11h 47m 02.58± 0.93s
   18.560 S ± 8.8km   71.366 W ±10.1km
   DEPTH =  10.0km  (geophysicist)
   4.3mb (  1 obs.)
 OFF COAST OF NORTHERN CHILE       (121)

ARE     2.09 357 iPd   47 38.00  -0.4
                 iS    48 04.60
CNCB    3.66  62 Pc    48 01.30   0.2
LPB     3.71  58 Pc    48 02.20   0.6
        0.9s   890.76nm
     Z  15s      2.00um
                 i     48 11.00
                 S     49 00.00
                 LR    49 13.00
LPAZ    3.83  54 iPc   48 03.20  -0.2
        0.4s   235.00nm
CCH     5.11  78 P     48 22.00   0.6
YJA     6.57 124 e(P)  48 41.50  -0.6
HJA     7.24 131 e(P)  48 52.80   1.7
SLA     8.21 139 eP    49 04.50  -0.3
                 i     49 11.00
NNA     8.40 320 eP    49 08.50   1.1
                 eS    50 00.00
RSTA   21.62 110 (P)   51 48.00  -7.0X
LKO    70.62  72 P     58 18.13  -2.6
        0.6s     1.50nm          4.3mb
WRA   134.17 215 PKP   06 22.80  -0.2
        0.6s     0.20nm
     S.D. = 1.2  on  11 of  12 obs.
-----------------------------------
%  OCT  09, 1993  11h 57m 29.70± 1.11s
   39.076 N ± 7.1km   27.657 E ±14.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.7 (ISK).

IZM     0.74 205 ePg   57 44.30   0.0
                 eSg   57 57.30
EZN     1.27 306 ePn   57 53.30   0.0
EDC     1.28   7 ePn   57 53.00  -0.4
BNT     1.29   9 ePn   57 54.00   0.3
KGT     1.40 349 ePn   57 55.50   0.3
MFT     1.73 351 ePn   58 00.00  -0.1
     S.D. = 0.3  on   6 of   6 obs.
-----------------------------------
   OCT  09, 1993  11h 59m 10.42± 0.92s
   32.865 S ± 7.7km   70.806 W ± 9.2km
   DEPTH =  68.6 ± 11.1 km
 CHILE-ARGENTINA BORDER REGION     (127)
      MD 3.8 (SAN).

ROCH    0.20 238 iPd   59 21.24  -0.1
                 iS    59 29.73
JACH    0.26  45 iPd   59 21.18  -0.3
                 iS    59 29.89
PEL     0.30 160 iP    59 21.98   0.3
                 iS    59 30.66
FCH     0.63 137 iPd   59 25.17   0.1
                 iS    59 36.97
PCH     0.79 162 iP    59 26.39  -0.2
TACH    0.79 188 iP+   59 26.46  -0.1
                 iS    59 39.07
LCCH    0.88 226 iP+   59 27.92   0.3
                 iS    59 41.06
LNV     1.20 205 iP+   59 31.46  -0.2
                 iS    59 47.75
RTCV    2.17  63 ePc   59 45.30   0.3
RTCB    2.19  52 ePd   59 45.50   0.2
                 S     00 14.00
RTLL    2.51  53 ePd   59 49.50  -0.2
                 S     00 23.50
CFA     2.51  61 ePd   59 49.60  -0.2
                 S     00 21.70
     S.D. = 0.3  on  12 of  12 obs.
-----------------------------------
   OCT  09, 1993  12h 27m 20.48± 0.53s
   51.629 N ± 4.6km   16.238 E ± 4.5km
   DEPTH =  10.0km  (geophysicist)
   3.8mb (  1 obs.)
 POLAND                            (548)
      ML 4.2 (GRF), 3.9 (VIE), 3.6
      (BRA).

KSP     0.79 177 iPd   27 35.30  -0.5
        0.3s   178.00nm
                 i     27 36.40
                 iS    27 44.60
BRG     1.63 243 iPn   27 50.20   1.0
                 iPg   27 51.10
                 iSg   28 11.30
PRU     1.96 214 iPn   27 53.60  -0.5
        0.4s   231.00nm
                 Pg    27 55.50
                 Sg    28 19.00
CLL     2.05 262 iPn   27 55.20  -0.1
                 iPg   27 58.80
                 iSg   28 25.10
VRAC    2.33 174 ePn   28 00.60   1.1
        0.4s   130.60nm
                 ePg   28 05.90
                 eSg   28 31.70
OJC     2.66 121 eP    28 03.50  -0.6
                 iS    28 45.80
KHC     3.02 215 Pn    28 08.60  -0.7
                 Pg    28 15.40
                 Sn    28 43.50
                 eSg   28 52.50
MOX     3.07 253 ePn   28 10.10   0.2
                 iPg   28 18.70
                 iSg   28 58.60
GEC2    3.23 211 Pn    28 11.70  -0.6
                 Pg    28 20.90
                 Sg    28 58.60
WET     3.29 222 iPnc  28 13.10   0.1
VKA     3.37 179 ePn   28 14.00  -0.2
                 iPg   28 22.80
                 iSn   28 55.60
                 iSg   29 05.60
ZST     3.48 170 ePn   28 15.70  -0.1
                 i     28 24.40
                 i(Sn) 29 09.00
                 Lg    29 16.00
GRF     3.73 241 iPnc  28 19.50   0.1
                 ePg   28 30.10
                 eSn   29 07.70
                 eSg   29 17.30
SRO     4.05 160 iP    28 35.60  11.8X
```

09d 12h

```
                 i      29 03.20
                 i      29 26.00
PSZ     4.40 146 i(Pn) 28 29.40   0.5
BHG     4.48 210 ePn   28 32.00   2.1
FUR     4.72 225 ePn   28 33.20  -0.2
KBA     4.93 204 iPnc  28 36.00  -0.5
                 i      28 41.80
                 iSg    29 53.40
TNS     5.12 257 ePnc  28 38.20  -0.9
                 ePgc   29 01.10
                 eSb    30 01.50
WATA    5.26 217 iPnc  28 40.70  -0.5
                 i      28 48.30
                 iSg    30 00.80
WTTA    5.30 216 iPnc  28 41.60  -0.1
                 iSg    30 05.10
PTJ     5.74 182 eP    29 08.60  20.8X
OGA     5.86 218 iPd   28 49.60   0.0
DOU     7.53 263 iP    29 13.10   0.3
APO     9.02 353 eP    29 33.30  -0.4
      0.4s     0.80nm          4.5mb X
YKA    59.78 336 eP    37 28.20   0.7
      0.7s     0.60nm          3.8mb
GBA    61.66 105 P     37 38.00  -2.8X
WRA   122.78  81 PKP   46 08.10  -9.9X
      1.3s     0.40nm
     S.D. = 0.7  on  24 of  28 obs.
-------------------------------------
&  OCT  09, 1993  13h 20m 03.01s
   59.215 N          153.468 W
   DEPTH = 114.3km
 SOUTHERN ALASKA                  (  2)
     <AEIC>.

AUI     0.12  10 eP    20 18.11   0.7
                 eS    20 29.23
AGU     0.15   7 eP    20 18.40   0.8
AUH     0.15   5 eP    20 18.36   0.8
AUP     0.15   9 eP    20 18.00   0.4
AUE     0.15  19 eP    20 18.34   0.9
                 eS    20 30.92
AUW     0.16 359 iP    20 18.36   0.9
                 eS    20 29.68
AUL     0.17   6 iP    20 18.40   0.9
CDD     0.30 198 iP    20 18.50   0.5
                 eS    20 30.64
OPT     0.46  15 iP    20 19.64  -0.7
                 eS    20 31.98
PDB     0.68 328 eP    20 20.46  -1.4
INE     0.87  13 eP    20 23.00  -0.8
                 eS    20 37.68
ILIM    0.91  16 eP    20 23.05  -0.9
                 eS    20 38.57
XLV     0.93  74 eP    20 23.85  -0.3
                 eS    20 39.87
HOM     1.03  64 eP    20 25.52   0.4
                 eS    20 42.47
CNPM    1.18  74 eP    20 26.57  -0.3
RED     1.26  16 iP    20 26.96  -0.8
                 eS    20 44.80
RSO     1.30  16 eP    20 27.72  -0.6
RS2     1.30  16 eP    20 27.66  -0.7
                 eS    20 45.87
RDW     1.31  14 eP    20 27.71  -0.8
REF     1.34  17 iP    20 27.94  -0.8
                 eS    20 46.39
DFR     1.44  16 eP    20 29.08  -0.7
                 eS    20 48.58
RDT     1.46  21 eP    20 29.20  -0.9
                 eS    20 49.01
KDC     1.56 160 eP    20 29.85  -1.3
NKA     1.90  35 eP    20 36.57   1.2
BKG     1.96  17 iP    20 35.57  -0.6
CKL     2.07  15 eP    20 37.06  -0.6
SLKM    2.09  50 eP    20 38.06   0.2
CKT     2.09  17 eP    20 37.16  -0.7
SPU     2.10  19 eP    20 37.35  -0.6
CKN     2.12  17 eP    20 38.11  -0.1
BGL     2.12  14 eP    20 37.91  -0.5
CP2     2.15  16 eP    20 37.97  -0.8
                 eS    21 10.28
CRP     2.16  17 eP    20 37.44  -1.5
                 eS    21 07.00
SVW     2.18 331 P     20 37.40  -1.7
SEW     2.23  65 eP    20 39.21  -0.3
MPA     2.44  57 eP    20 41.72  -0.6
SUA     2.63  30 eP    20 45.00   0.0
PMS     2.82  42 P     20 47.00  -0.4
SKT     2.93  18 eP    20 48.29  -0.7
PWA     3.02  35 P     20 49.90  -0.2
PWL     3.06  55 eP    20 49.62  -1.0
PLRM    3.21  40 eP    20 51.69  -0.9
PMR     3.21  40 eP    20 50.72  -1.9
                 eS    21 28.44
KLU     4.39  55 eP    21 07.12  -1.6
                 eS    21 55.42
BALM    5.85  67 eP    21 27.26  -1.6
        45 obs. associated
-------------------------------------
?  OCT  09, 1993  13h 21m 09.27± 2.57s
   24.646 S ±21.9km  173.038 W ±30.6km
   DEPTH =  33.0km  (normal)
   4.8mb (  4 obs.)
 SOUTH OF TONGA ISLANDS           (175)

VUN    10.31 308 eP    23 38.20   0.2
AFI    10.75   7 eP    23 44.00  -0.1
DZM    19.01 274 iPc   25 21.00 -10.1X
CTA    37.82 269 eP    28 23.00  -1.7
       2.1s   100.00nm          5.3mb
                 i     28 28.00
                 e(S)  33 39.00
ASPA   48.17 260 eP    29 54.70   6.1X
       0.9s    26.70nm          5.3mb
     Z  20s     1.70um          5.0Msz
                 eS    36 30.50
WR2    48.65 265 eP    29 52.70   0.3
       0.9s     3.50nm          4.4mb
WRA    48.68 265 P     29 53.80   1.2
       0.8s     0.90nm          3.9mb
LRM    89.08  38 eP    34 06.10   3.5X
BJI    92.05 313 eP    34 01.00 -15.1X
       1.5s    12.00nm
     Z  20s     0.42um          4.9Msz
MAIO  133.76 297 ePKP  40 32.00   7.3X
KSP   152.87 347 ePKP  41 03.90   7.2X
BRG   153.27 350 ePKP  41 04.40   7.1X
       1.8s    32.00nm
VRI   153.51 328 ePKP  41 00.00   2.2X
PRU   154.02 349 ePKP  41 07.50   9.2X
MLR   154.16 328 ePKP  41 02.00   3.1X
GRF   154.78 353 e(PKP)41 11.00  11.6X
KHC   155.02 350 ePKP  41 10.50  10.8X
ZST   155.17 344 ePKP  41 14.20  14.3X
SRO   155.19 342 ePKP  41 11.40  11.5X
                 e     06 12.20
FLN   155.23  12 ePKP  41 18.10  18.2X
       1.0s    27.60nm
GEC2  155.27 349 PKP   41 11.20  11.0X
       1.6s     4.64nm
                 e     41 16.50
                 e     06 08.80
                 e     06 20.10
LDF   155.45  11 ePKP  41 19.10  18.8X
       1.2s    16.65nm
GRR   155.51  13 ePKP  41 18.90  18.5X
       1.3s    29.25nm
LPF   155.82  13 ePKP  41 20.40  19.6X
       1.2s    20.55nm
BSF   156.86   0 ePKP  41 13.30  10.9X
       1.0s     5.40nm
LOR   157.29   5 ePKP  41 17.10  14.3X
       1.1s     7.35nm
SSF   157.46   6 ePKP  41 18.00  15.0X
       1.4s    23.10nm
LBF   157.58   5 ePKP  41 17.90  14.7X
       0.8s     3.10nm
AVF   157.71   7 ePKP  41 18.20  14.9X
       1.0s     5.60nm
SMF   157.91   6 ePKP  41 18.80  15.3X
       1.9s    39.25nm
LPL   159.18   0 ePKP  41 24.00  18.7X
       1.2s    11.60nm
     S.D. = 1.5  on   5 of  31 obs.
-------------------------------------
   OCT  09, 1993  13h 54m 03.28± 0.22s
   51.276 N ± 5.8km  178.145 W ± 2.4km
   DEPTH =  33.0km  (normal)
   5.1mb ( 71 obs.)  4.5Msz ( 13 obs.)
 ANDREANOF ISLANDS, ALEUTIAN IS. (  7)
      ML 4.9 (PMR). Felt (III) on
      Adak.

ADK     1.10  56 iPd   54 23.57   1.2
SMY     5.01 290 eP    55 20.27   2.3
SDN    11.31  62 eP    56 43.47  -2.0
ANM    14.91  22 (P)   57 36.89   3.9X
SVW    15.85  43 (P)   57 48.82   3.5X
       1.3s   295.59nm          5.3mb
KDC    16.18  56 eP    57 46.41  -3.0X
       0.5s    40.05nm          4.8mb
SKR    16.21 278 eP    57 52.00   2.1
       0.8s    40.00nm          4.6mb
     Z  16s     1.10um          5.3Msz
     N  16s     1.10um
     E  16s     1.10um
TTA    16.65  37 eP    57 57.52   2.1
       0.9s    42.42nm          4.6mb
ILT    16.68 359 iP    58 00.50   4.8X
     Z  14s     0.80um          4.9Msz
     N  14s     0.20um
     E  14s     0.30um
CP2    17.39  45 eP    58 06.11   1.2
CRP    17.43  45 eP    58 06.88   1.5
PWA    18.59  45 eP    58 19.10  -0.3
PMR    18.91  46 eP    58 24.31   1.0
       1.0s    33.99nm          4.5mb
IMA    19.33  31 eP    58 28.21  -0.2
       1.2s    63.11nm          4.8mb
KLU    20.34  47 eP    58 38.74  -0.4
TOA    20.40  46 eP    58 41.80   2.0
FBA    20.78  37 eP    58 42.51  -1.0
       0.9s    16.04nm          4.4mb
BALM   21.92  50 eP    58 57.56   2.3
YSS    25.74 276 iPd   59 33.20   1.1
     Z  18s     0.40um          4.0Msz
     E  18s     0.30um
                 e     59 44.80
INK    27.31  35 eP    59 45.50  -0.8
       0.8s     3.00nm          4.0mb X
YAK    29.78 311 eP    00 07.20  -1.4
       1.5s    33.00nm          4.9mb
     Z  18s     0.80um          4.4Msz
                 e     01 07.00
TIK    30.92 330 eP    00 22.00   3.4X
       1.0s     9.00nm          4.5mb
     Z  16s     1.00um          4.6MszX
                 i     03 15.00
MAT    34.18 262 eP    00 47.00  -0.4
       1.1s    20.25nm          5.0mb
STW    34.69  73 P     00 52.91   1.3
MDJ    35.00 280 eP    00 53.00  -1.3
YKA    35.01  46 eP    00 52.30  -1.9
       0.8s     6.40nm          4.6mb
GMW    35.49  74 ePc   00 59.77   1.3
JCW    35.71  72 P     01 01.32   0.9
RMW    36.12  73 ePc   01 04.74   0.8
LON    36.45  74 ePc   01 07.14   0.5
ASR    36.87  75 P     01 11.36   1.1
SSOR   36.98  78 P     01 12.41   1.2
WTV    37.12  72 P     01 12.70   0.4
EBG    37.12  74 P     01 13.36   1.1
WKYJ   37.30 261 P     01 15.70   1.8
VBEM   37.41  77 P     01 15.85   1.0
SAW    37.45  72 P     01 15.30   0.3
VGB    37.68  76 eP    01 17.26   0.3
WAH2   37.80  73 P     01 18.73   0.8
CROR   37.82  77 P     01 19.15   1.0
CN2    37.97 281 eP    01 22.00   2.7
     Z  20s     0.56um          4.4Msz
                 epP   01 30.00  27kmX
YONJ   38.00 264 P     01 21.50   1.8
DPW    38.08  71 ePc   01 20.59   0.3
JBO    38.28  75 P     01 22.75   0.8
VIPM   38.29  77 P     01 23.12   0.9
KMPM   38.35  85 (P)   01 24.01   1.3
TKSJ   38.42 262 P     01 23.30   0.1
NEW    38.54  70 ePc   01 24.41   0.3
       0.8s    42.86nm          5.3mb
LNOR   39.01  74 P     01 28.65   0.5
LBFM   39.21  82 ePc   01 31.05   1.0
WDC    39.24  83 eP    01 30.78   0.7
       1.4s    22.74nm          4.7mb
SHNJ   40.16 265 eP    01 38.80   1.1
KUMJ   41.39 263 eP    01 48.50   0.7
CMB    42.10  85 eP    01 53.81   0.2
       1.2s    10.54nm          4.4mb
LRM    42.52  71 ePc   01 57.10  -0.2
MEMM   43.23  84 eP    02 04.19   1.5
BONR   43.45  84 eP    02 04.92   0.0
MTUM   43.65  85 eP    02 06.91   0.4
```

```
TNP     44.05  83 eP    02 10.31   0.6
        0.5s     4.21nm          4.5mb
PTI     44.20  74 ePc   02 11.83   1.0
NRI     44.51 330 eP    02 28.00  15.3X
      Z  18s     1.00um          4.8Msz
                  e     03 55.00
HVU     44.58  76 ePc   02 14.39   0.5
TPNV    45.35  83 eP    02 19.97  -0.1
        0.6s    10.34nm          4.9mb
DUG     45.49  77 ePc   02 21.32   0.2
        1.2s    75.18nm          5.5mb
GSC     46.05  86 ePc   02 25.53   0.0
DAU     46.31  76 eP    02 27.93   0.1
ARUT    46.57  81 eP    02 29.71  -0.1
MSU     46.91  79 ePc   02 32.66   0.2
EMUT    46.94  77 eP    02 32.81   0.1
PLM     47.28  88 eP    02 34.77  -0.7
ZAK     47.36 301 eP    02 36.00   0.5
        1.4s    28.00nm          5.1mb
SRU     47.55  77 ePc   02 37.32  -0.2
HHC     48.11 286 eP    02 41.80   0.1
        1.2s    24.00nm          5.1mb
      Z  21s     1.52um          5.0Msz
SSE     48.41 270 eP    02 44.50   0.5
        1.0s    13.00nm          4.9mb
RSSD    48.42  68 eP    02 42.78  -1.4
        1.2s    35.73nm          5.3mb
PV09    48.78  77 ePc   02 46.57  -0.6
PV10    48.92  77 ePc   02 47.60  -0.6
PV08    49.03  76 eP    02 48.31  -0.8
BTO     49.20 287 eP    02 51.00   0.9
ULM     49.40  57 eP    02 50.50  -0.9
TIY     49.53 283 eP    02 53.30   0.7
      Z  22s     0.65um          4.6Msz
GLD     50.37  73 ePc   02 59.72   0.5
        1.2s    39.07nm          5.3mb
TUC     51.78  84 ePc   03 10.21   0.3
        1.3s    30.23nm          5.1mb
ALQ     52.72  79 eP    03 16.33  -0.7
        1.3s    17.46nm          4.9mb
WHN     53.07 274 Pd    03 19.00  -0.4
        1.0s    30.00nm          5.2mb
                  sP    03 38.00
XAN     54.08 281 P     03 25.00  -1.8
        1.2s    14.00nm          4.9mb
LZH     55.81 287 eP    03 40.00   0.5
        1.6s    46.00nm          5.3mb
      Z  18s     0.54um          4.7Msz
                  pP    03 50.00  33kmX
GTA     55.99 292 iPc   03 40.00  -0.8
        1.0s    45.00nm          5.5mb
      Z  20s     0.58um          4.7Msz
                  pP    03 53.50  49kmX
                  sP    03 58.00
                  eS    11 25.00
WMOK    57.53  74 eP    03 49.86  -1.8
        1.2s    74.96nm          5.6mb
LTX     58.26  82 eP    03 53.95  -3.0
TUL     58.52  71 iP    03 57.50  -1.0
CD2     59.40 282 P     04 04.80   0.0
WMQ     59.74 303 P     04 07.40   0.4
      Z  16s     0.62um          4.8MszX
FVM     60.22  65 eP    04 08.42  -1.9
        0.5s    29.95nm          5.7mb
GYA     60.74 277 P     04 12.80  -1.3
MIAR    60.77  70 ePc   04 12.64  -1.4
        1.4s    69.45nm          5.6mb
ELC     61.39  65 ePd   04 16.67  -1.5
GAC     62.71  50 eP    04 25.00  -1.8
ARU     62.92 329 eP    04 28.00  -0.1
OXF     63.24  68 eP    04 29.13  -1.4
YSNY    63.52  55 eP    04 31.61  -0.7
KMI     64.15 278 Pd    04 36.00  -0.9
        1.5s    50.00nm          5.4mb
BINY    65.01  53 eP    04 41.03  -1.0
KAF     65.30 348 eP    04 42.00  -1.5
        0.5s     4.10nm          4.8mb
GBTN    65.38  63 iPc   04 43.63  -0.8
NAV     66.07  60 eP    04 48.76  -0.1
CVL     66.84  58 eP    04 53.53  -0.2
NUR     67.07 348 iP    04 53.60  -1.2
        0.5s     2.90nm          4.6mb
LMN     67.51  44 eP    04 57.00  -0.9
NB2     67.79 355 P     04 57.80  -1.6
        1.0s     6.10nm          4.7mb
LSA     67.86 290 Pc    05 01.80   0.9
        0.8s    27.00nm          5.4mb
CEH     68.04  60 ePc   05 00.72  -0.6
        1.3s   281.82nm          6.2mb X
JSC     68.05  62 ePc   05 01.07  -0.3
LHS     68.15  62 ePc   05 01.72  -0.3
UPP     68.49 352 iP    05 04.10   0.4
HFS     68.53 354 eP    05 03.10  -0.9
        0.4s     1.90nm          4.5mb
      Z  16s     0.13um          4.3MszX
                  LR    29 51.00
KSH     68.93 307 eP    05 08.00   1.0
      Z  24s     0.67um          4.8MszX
SGS     69.27  63 eP    05 09.33   0.4
MOS     69.30 339 eP    05 09.00   0.3
OBN     70.12 340 iPd   05 13.00  -0.7
        1.3s    57.00nm          5.5mb
      Z  20s     0.30um          4.5Msz
      N  20s     0.10um
      E  20s     0.20um
                  e     05 21.00
                  e     05 33.00
SHL     70.47 287 iP    05 16.30  -0.3
CHTO    71.16 277 eP    05 19.70  -1.0
CLL     77.35 353 eP    05 55.00  -0.8
        1.5s    20.00nm          4.9mb
KSP     77.52 351 eP    05 56.60  -0.2
BRG     77.71 352 iP    05 57.60  -0.2
        1.2s    15.00nm          4.9mb
MOX     78.12 354 eP    06 00.20   0.1
        2.0s    38.00nm          5.1mb
PRU     78.54 352 eP    06 02.00  -0.4
SNF     78.57 358 P     06 03.40   0.9
PYA     78.58 331 iPc   06 02.00  -0.7
SPC     78.69 348 iP    06 20.40  16.9X
DOU     78.98 358 P     06 05.40   0.6
GRF     79.09 354 iPc   06 05.70   0.2
        1.7s    77.00nm          5.4mb
      Z  20s     0.20um          4.5Msz
KIS     79.37 342 iP+   06 07.00   0.1
      Z  20s     0.20um          4.5Msz
KHC     79.47 352 iPc   06 07.90   0.3
        1.2s    12.50nm          4.8mb
                  e     06 22.50
PSZ     79.98 348 eP    06 08.90  -1.4
ZST     80.05 350 eP    06 10.50  -0.1
FLN     80.32   2 eP    06 11.50  -0.5
        1.2s    30.95nm          5.2mb
      Z  20s     0.15um          4.3Msz
LDF     80.50   1 eP    06 12.20  -0.7
        0.5s    11.95nm          5.1mb
CDF     80.58 356 eP    06 13.20  -0.4
        1.2s    12.20nm          4.8mb
GRR     80.69   2 eP    06 13.70  -0.3
        0.8s    15.60nm          5.1mb
VRI     80.88 343 eP    06 15.00  -0.1
HAU     81.02 357 eP    06 15.40  -0.4
        1.3s    19.85nm          5.0mb
      Z  24s     0.13um          4.2MszX
LPF     81.04   2 eP    06 15.80   0.0
        1.3s    47.30nm          5.3mb
BSF     81.18 357 eP    06 16.30  -0.4
        1.3s    15.90nm          4.9mb
MLR     81.39 343 ePd   06 18.00   0.1
KBA     81.53 352 iPc   06 18.00  -0.7
        1.1s    37.90nm          5.3mb
                  i     06 19.20
CMP     81.77 344 ePd   06 22.00   2.3
LOR     81.82 359 eP    06 19.70  -0.2
        1.3s    30.35nm          5.2mb
      Z  22s     0.20um          4.4Msz
SSF     82.03 359 eP    06 20.90  -0.1
        1.3s    35.00nm          5.2mb
LBF     82.10 359 eP    06 21.10  -0.4
        1.5s    37.60nm          5.2mb
WR2     82.22 224 eP    06 20.80  -1.5
        1.1s     5.00nm          4.5mb
WRA     82.23 224 P     06 21.40  -0.9
        1.0s     1.90nm          4.1mb
AVF     82.31 359 eP    06 22.20  -0.2
        1.3s    33.95nm          5.2mb
SMF     82.45 359 eP    06 23.10  -0.1
        1.2s    40.45nm          5.4mb
MFF     82.49   1 eP    06 23.40   0.0
        0.9s    16.70nm          5.1mb
BGF     82.54 359 eP    06 23.70   0.0
        0.8s     5.90nm          4.7mb
TCF     82.82 360 eP    06 25.00  -0.2
        1.0s    10.40nm          4.9mb
LSF     82.86   0 eP    06 25.20  -0.1
MAF     82.88 360 eP    06 25.80   0.3
        0.8s     9.40nm          4.9mb
LPG     83.52 357 eP    06 29.70   0.6
        1.0s    12.40nm          5.0mb
LFF     84.16   1 eP    06 32.30   0.3
        1.5s   125.90nm          5.9mb
CAF     84.18 360 ePc   06 32.50   0.4
        1.1s    29.30nm          5.4mb
LPO     84.42   0 eP    06 33.40   0.1
        1.2s    39.00nm          5.5mb
FRF     85.45 357 eP    06 38.50   0.0
        1.4s    50.55nm          5.5mb
LMR     85.68 357 eP    06 39.70   0.1
        1.1s    24.90nm          5.3mb
ASPA    85.69 223 eP    06 39.30  -0.5
        1.1s    10.20nm          5.0mb
EPF     86.07   1 eP    06 42.20   0.6
        1.2s    17.55nm          5.2mb
PGF     86.35 355 eP    06 42.90  -0.2
        1.1s    49.10nm          5.6mb
POO     86.47 295 eP    06 42.20  -1.7
GBA     88.29 290 P     06 52.00  -0.7
BFT    146.61 309 ePKP  13 44.50   3.1X
MAW    146.65 218 PKP   13 41.50   1.6X
        0.9s    13.33nm
SLR    147.50 312 iPKPc 13 44.50   1.8X
        1.0s    30.00nm
LBTB   148.09 316 ePKP  13 46.29   2.6X
KSR    148.25 314 ePKP  13 29.50 -14.5X
        1.0s    28.00nm
WIN    148.99 332 ePKP  13 49.00   3.7X
        0.6s    15.00nm
SEK    149.99 310 ePKP  13 52.00   5.4X
        1.0s    40.00nm
BLF    151.33 311 iPKPd 13 54.50   5.9X
        1.0s    40.00nm
     S.D. = 1.0  on 163 of 178 obs.
-----------------------------------
?  OCT  09, 1993  15h 01m 47.74± 0.90s
   41.125 N ±22.1km   28.760 E ± 9.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.7 (ISK).

ISK      0.23 105 iPg   01 53.20   0.5
                  iSg   01 57.20
CTT      0.25 275 iPg   01 53.20   0.1
HRT      0.75 113 ePg   02 02.00  -0.5
DMK      1.03 313 ePn   02 07.00  -0.1
     S.D. = 0.7  on   4 of   4 obs.
-----------------------------------
&  OCT  09, 1993  15h 14m 09.65s
   32.353 N          115.054 W
   DEPTH =   6.0km  (geophysicist)
 CALIF.-BAJA CALIF. BORDER REGION( 45)
      <PAS-P>. ML 3.1 (PAS).

PLM      1.82 304 eP    14 39.19  -2.7
PEC      2.34 312 (P)   14 47.52  -1.8
SSK      2.88 311 (P)   14 55.60  -1.6
GSC      3.28 334 (Pn)  15 00.60  -2.1
TUC      3.61  90 (Pn)  15 04.83  -2.6
ARUT     5.58  13 (Pn)  15 34.70  -0.7
MSU      6.58  20 (P)   15 49.46  -0.1
PV10     7.76  38 (P)   16 03.43  -2.7
         8 obs. associated
-----------------------------------
   OCT  09, 1993  17h 37m 21.05± 0.23s
   44.344 N ± 1.8km    7.305 E ± 3.0km
   DEPTH =   9.7 ±  2.4 km
 NORTHERN ITALY                    (545)
      ML 3.1 (LDG), 3.0 (GEN).

STV      0.10 172 Pd    37 23.70  -0.1
                  S     37 24.96
ENR      0.14 145 Pd    37 24.60   0.1
                  S     37 26.71
PZZ      0.22 318 Pd    37 25.59  -0.2
                  S     37 28.46
TOUF     0.33 187 Pg    37 27.86  -0.1
AUTN     0.36 166 Pg    37 28.66   0.2
                  Sg    37 32.78
SAOF     0.40 153 Pg    37 29.37   0.1
                  Sg    37 34.57
ROB      0.41  97 Pd    37 30.25   0.8
                  S     37 36.16
```

09d 17h

```
AURF     0.46 178 Pg     37 30.24  -0.1
                 Sg     37 36.98
MVIF     0.46 194 Pg     37 30.15  -0.3
                 Sg     37 36.61
SBF      0.49 169 Pg     37 31.00   0.0
                 Sg     37 35.70
BHB      0.50 357 Pc     37 30.76  -0.4
                 S      37 37.16
IMI      0.60 136 Pd     37 33.20  -0.1
                 S      37 40.91
REVF     0.61 176 Pg     37 33.45   0.1
FIN      0.66 101 Pd     37 34.58   0.3
                 S      37 43.92
CALN     0.66 207 Pg     37 34.14  -0.2
                 Sg     37 42.92
RRL      0.69 327 P      37 33.98  -0.8
                 S      37 42.40
RSP      0.81 358 Pc     37 35.71  -1.1
                 S      37 45.98
PCP      0.91  77 P      37 39.29   0.8
                 S      37 51.44
FRF      0.92 212 Pg     37 38.30  -0.3
LSD      1.12 355 P      37 41.21  -1.0
                 S      37 55.47
LRG      1.12 218 Pg     37 42.00  -0.1
                 Sg     37 57.20
LMR      1.16 210 Pg     37 43.00   0.2
                 Sg     37 57.30
LPG      1.22 341 Pn     37 44.10   0.1
LPL      1.24 341 Pn     37 44.50   0.2
PGF      2.18 145 Pn     37 56.60  -1.4
                 Sn     38 21.90
SMF      3.35 315 Pn     38 15.60   1.0
LBF      3.52 320 Pn     38 18.00   1.0
AVF      3.70 313 Pn     38 20.10   0.6
HAU      3.72 350 Pn     38 18.50  -1.4
LOR      3.79 322 Pn     38 21.10   0.3
SSF      3.80 317 Pn     38 21.70   0.7
BGF      3.84 307 Pn     38 22.10   0.6
     S.D. = 0.7  on  32 of  32 obs.
-------------------------------------
   OCT  09, 1993  17h 59m 18.11± 0.29s
   12.953 N ± 5.0km   88.802 W ± 4.9km
   DEPTH =  59.2km  ( 14 depth phases)
   4.9mb ( 20 obs.)
 OFF COAST OF CENTRAL AMERICA     ( 76)
      MD 4.8 (UPA), 4.6 (GCG). Felt
      (III) at San Salvador, El
      Salvador.

VSM      0.70  47 iPc    59 34.20   1.6
SJAS     0.79 333 iPd    59 33.80   0.1
                 iS     59 46.70
LFU      0.85 339 iPd    59 35.00   0.7
VSS      0.89 331 iPd    59 35.70   0.7
TME      1.19 333 iPd    59 39.80   1.0
YUP      1.58 322 eP     59 45.18   0.9
IXG      2.01 307 eP     59 50.32  -0.1
GCG      2.34 314 eP     59 55.80   0.8
                 eS     00 34.54
BVA      2.47 314 eP     59 57.78   0.9
BRU      7.39 123 eP     01 08.09   1.9
                 eS     02 27.98
DVD      7.69 125 eP     01 11.71   1.8
                 eS     02 33.19
UPA      9.92 113 eP     01 41.08   0.5
SDV     18.29 101 iPd    03 28.90  -0.7
TOV     18.90  98 ePc    03 35.60  -1.3
                 iPP    03 37.30
LTX     21.36 322 ePc    04 02.93   0.4
OXF     21.47 359 eP     04 04.72   1.2
SGS     21.52  19 eP     04 05.88   1.9
PRM     21.84  14 eP     04 08.83   1.7
MIAR    21.93 349 eP     04 08.71   0.6
        0.9s    79.61nm          5.1mb
JSC     22.31  17 eP     04 13.05   1.2
MYNC    22.43  10 eP     04 12.56  -0.5
        0.6s    25.32nm          4.8mb
LHS     22.63  17 ePc    04 16.30   1.4
MEO     23.47 339 iPc    04 23.20   0.0
WMOK    23.50 339 eP     04 22.89  -0.6
        0.8s    59.73nm          5.1mb
TUL     23.71 346 iP     04 25.70   0.2
ELC     24.23 359 ePd    04 30.18  -0.3
CEH     24.46  19 eP     04 33.11   0.4
        0.7s    40.36nm          5.0mb
                 e      04 48.79  67km
FVM     24.97 357 eP     04 37.05  -0.5
        0.7s    11.49nm          4.5mb
NAV     25.30  15 eP     04 40.60  -0.1
                 e      04 56.27  67km
ACO     25.40 340 iPc    04 37.10  -4.6X
CVL     26.58  18 eP     04 52.21  -0.2
                 e      05 07.93  66km
ALQ     27.11 327 eP     04 58.31   0.7
        1.7s    38.24nm          4.7mb
                 ePcP   08 32.06
CBN     27.13  20 eP     04 58.00   0.5
                 e      05 13.00  62km
TUC     27.87 317 eP     05 05.82   1.4
        0.9s     6.44nm          4.2mb
GLD     30.37 334 eP     05 26.56  -0.2
        1.0s    15.27nm          4.7mb
PV08    31.01 329 eP     05 32.56  -0.1
GLA     31.06 314 eP     05 33.02   0.2
                 e      05 46.55  54km
PV10    31.06 328 eP     05 31.91  -1.1
                 ePcP   08 27.07
                 epPcP  08 42.27
BINY    31.20  19 eP     05 32.88  -1.0
        0.9s    37.68nm          5.1mb
                 epP    05 47.94  61km
PV09    31.20 328 (P)    05 34.89   0.6
SRU     32.38 327 (P)    05 44.44   0.0
PLM     32.65 313 eP     05 47.18   0.3
                 epP    06 01.02  55km
MSU     32.84 325 eP     05 48.81   0.3
                 ePcP   08 32.63
                 ipPcP  08 47.95
ARUT    33.07 323 eP     05 50.70   0.2
PEC     33.15 314 eP     05 51.46   0.4
        0.7s     9.56nm          4.8mb
GSC     33.68 316 eP     05 56.33   0.7
                 epP    06 10.21  54km
SSK     33.69 314 (P)    05 56.99   1.1
RSSD    33.70 340 ePc    05 55.79  -0.1
        0.7s    21.38nm          5.2mb
DAU     33.72 328 eP     05 56.15  -0.1
                 epP    06 10.30  56km
DUG     34.38 326 eP     06 00.59  -1.1
        1.1s     8.06nm          4.6mb
ISA     35.01 315 eP     06 07.67   0.6
        1.1s    10.58nm          4.7mb
HVU     35.50 328 eP     06 10.90  -0.4
LPAZ    35.52 144 iPc    06 11.90  -0.3
        0.7s    17.40nm          5.1mb
                 LR     18 18.00
LPB     35.74 145 eP     06 14.00   0.2
      Z  23s     0.38um          4.1MszX
                 eLR    18 55.00
CNCB    36.03 145 Pc     06 17.00   0.6
PTI     36.11 330 eP     06 16.00  -0.4
BONR    36.18 319 ePc    06 18.20   1.0
                 epP    06 32.97  57km
                 iPcP   08 42.35
                 epPcP  08 57.85
CCH     37.55 143 P      06 30.00   1.1
ULM     37.64 353 eP     06 30.00   1.1
ARN     37.99 316 eP     06 32.50   0.4
                 epP    06 46.75  55km
LRM     38.40 333 iPc    06 35.80   0.1
                 e      06 50.20  56km
                 e      08 48.40
                 e      09 04.10
LMN     38.58  27 eP     06 36.50  -0.4
                 pP     06 56.00  81kmX
LBFM    40.40 321 eP     06 51.92  -0.3
                 ePcP   08 54.70
                 epPcP  09 10.24
JAQ     42.05  12 ePd    07 03.00  -2.4
LON     43.62 327 eP     07 17.66  -0.7
                 ePcP   09 04.26
                 epPcP  09 19.40
MCW     45.39 329 eP     07 31.14  -1.4
BAO     49.36 124 eP     08 00.50  -3.6X
                 e      08 04.80  14kmX
                 e      08 08.30
                 i      08 15.20
                 i      08 20.70
FRB     52.68  11 eP     08 25.50  -2.9
        0.6s    12.00nm          5.1mb
YKA     52.79 345 eP     08 27.10  -2.1
        0.8s    34.20nm          5.4mb
VAO     54.36 131 (P)    08 41.00  -0.4
RES     61.81 358 ePd    09 30.40  -2.3
        0.9s     9.00nm          4.9mb
                 pP     09 48.00  67km
INK     62.33 343 eP     09 34.50  -1.8
        0.9s    20.00nm          5.2mb
DAG     72.94  13 eP     10 41.00  -1.5
ADK     78.63 321 eP     11 14.38  -0.7
        0.5s     6.46nm          4.8mb
                 epP    11 29.19  52km
NB2     83.57  29 P      11 39.60  -1.4
        0.9s     2.90nm          4.3mb
HHC    123.24 342 ePKP   18 10.00  -0.2
TIY    125.80 339 ePKP   18 15.00  -0.3
                 sPKP   18 30.30
GTA    127.29 352 ePKP   18 16.50  -1.6
                 sPKP   18 32.50
SSE    127.58 327 ePKP   18 17.50  -1.2
LZH    129.78 347 ePKP   18 24.00   1.0
                 sPKP   18 39.00
XAN    130.32 341 PKP    18 23.50  -0.4
                 sPKP   18 39.00
GYA    138.04 339 PKP    18 38.40  -0.5
                 sPKP   18 55.60
WR2    138.11 255 ePKP   18 38.60  -0.5
        0.7s     9.80nm
                 i      18 54.50
WRA    138.13 255 PKP    18 39.80   0.7
        0.7s     4.80nm
SHL    141.71 359 ePKP   18 45.00  -0.6
CHTO   147.52 346 ePKP   18 54.80  -0.5
BDT    149.02 345 ePKP   18 55.00  -2.7X
NST    150.22 342 ePKP   19 04.50   5.0X
GBA    150.30  28 PKPd   19 00.00   0.4
        0.7s     5.00nm
     S.D. = 1.0  on  85 of  89 obs.
-------------------------------------
*  OCT  09, 1993  19h 04m 53.39± 2.98s
   51.395 N ±22.4km   16.034 E ±15.9km
   DEPTH =  10.0km  (geophysicist)
 POLAND                            (548)
      ML 3.4 (VIE), 3.4 (GRF).

KSP      0.58 163 iPd    05 04.20  -0.9
                 iS     05 13.20
BRG      1.42 249 iPg    05 20.20   1.0
                 iSg    05 40.50
PRU      1.70 215 Pn     05 23.00  -0.2
        0.5s    53.60nm
                 Pg     05 24.80
                 Sn     05 41.50
                 Sg     05 47.10
CLL      1.90 269 iPn    05 25.40  -0.8
                 ePg    05 29.20
                 eSg    05 55.00
VRAC     2.12 170 ePn    05 30.40   1.1
                 eSg    06 02.50
OJC      2.66 115 eP     05 33.60  -3.5X
                 iS     06 15.70
KHC      2.76 216 Pn     05 38.60   0.1
                 Pg     05 44.50
                 Sn     06 13.10
                 Sg     06 19.90
MOX      2.89 257 ePg    05 48.70   8.4X
                 iSg    06 28.00
WET      3.03 223 iPnc   05 42.30   0.1
VKA      3.14 177 ePn    05 44.00   0.2
                 iPg    05 52.20
                 iSg    06 35.50
ZST      3.28 167 eP     05 34.40 -11.4X
                 e      05 57.50
                 e      06 12.30
                 e      06 38.90
SPC      3.49 128 eP     06 00.80  11.9X
GRF      3.51 243 iPnc   05 48.90  -0.2
                 ePg    06 01.10
                 eSn    06 36.70
                 eSg    06 46.40
KBA      4.67 203 iPnc   06 05.10  -0.6
                 i      06 20.60
                 iSg    07 24.40
OGA      5.60 218 eP     06 19.10   0.2
     S.D. = 0.7  on  11 of  15 obs.
-------------------------------------
*  OCT  09, 1993  19h 20m 16.23± 0.55s
   27.831 S ± 8.6km   66.899 W ±18.6km
   DEPTH = 234.8 ±  8.0 km
   4.0mb (  1 obs.)
```

```
 CATAMARCA PROVINCE, ARGENTINA    (130)
FSA      1.91  25 iPc    20 55.90  -1.0
RTRS     3.24 223 ePd    21 11.40   0.6
SLA      3.34  23 iP     21 13.00   0.8
RTLL     3.75 201 iPc    21 16.50  -0.4
                  S      22 00.00
CFA      3.94 197 ePd    21 19.10  -0.1
                  S      22 04.00
RTCB     4.00 204 iPc    21 20.00   0.0
                  S      22 05.00
ZON      4.01 202 eP     21 20.00  -0.1
                  eS     22 07.00
RTCV     4.26 199 ePc    21 23.00  -0.1
MRA      4.68 168 e(P)d  21 28.40   0.3
AFI     96.31 251 eP     33 19.00  -0.6
YKA     97.74 340 eP     33 25.30   0.4
       0.5s     0.40nm          4.0mb
     S.D. = 0.6  on  11 of  11 obs.
-------------------------------------
? OCT  09, 1993  19h 30m 06.66± 6.47s
   24.201 S ±50.5km  178.632 W ±71.9km
   DEPTH = 537.2 ± 32.3 km
   4.8mb (  2 obs.)
 SOUTH OF FIJI ISLANDS            (171)

KUZ     13.42 200 eP     33 00.90   0.8
DZM     13.89 276 iPc    33 05.10   0.0
PUZ     14.08 190 eP     33 07.30   0.4
                  eS     35 21.60
URZ     14.48 194 eP     33 09.70  -1.1
WLZ     14.49 199 eP     33 11.80   0.9
NOZ     14.65 190 eP     33 13.10   0.6
MOZ     15.32 200 eP     33 19.70   0.6
NGZ     15.71 197 eP     33 23.10  -0.1
WAHZ    16.02 194 eP     33 24.70  -1.4
TEHZ    16.20 193 eP     33 28.50   0.6
PGZ     16.92 193 eP     33 34.90   0.1
MNG     17.10 195 eP     33 34.90  -1.6
KIW     17.47 197 eP     33 39.20  -1.0
MTW     17.61 195 eP     33 40.80  -0.7
CAW     17.67 196 eP     33 41.70  -0.3
MRW     17.87 197 eP     33 43.70  -0.3
TCW     17.97 198 eP     33 45.00   0.1
QRZ     18.16 202 eP     33 47.30   0.5
THZ     18.88 200 eP     33 54.30   0.5
                  eS     36 49.10
DSZ     19.23 202 eP     33 57.70   0.7
LTZ     20.00 200 eP     34 04.20  -0.1
WVZ     20.77 202 eP     34 12.40   1.1
BRS     25.92 257 eP     34 56.00  -1.8
CTA     32.73 270 iPd    35 57.00   0.6
       0.8s    29.85nm          4.9mb
ASPA    43.22 261 iPd    37 22.10   0.1
       0.4s    37.80nm          5.3mb X
                  iS     42 56.90
WR2     43.61 266 iPc    37 25.40   0.3
       0.3s    74.70nm          5.7mb X
                  eS     43 02.40
WRA     43.63 266 P      37 25.60   0.4
       0.5s    13.90nm          4.7mb
NB2    142.56 352 PKP    48 54.80  15.5X
       0.7s     3.00nm
HFS    143.07 350 ePKP   48 55.20  15.1X
       0.4s     3.40nm
     S.D. = 0.8  on  27 of  29 obs.
-------------------------------------
   OCT  09, 1993  19h 47m 40.34± 0.33s
   43.510 N ± 3.2km    0.568 W ± 4.7km
   DEPTH =    5.0km  (geophysicist)
 PYRENEES                         (378)
     ML 3.1 (LDG). mbLg 2.9 (MDD).

OGE      0.35 169 Pg      47 47.64   0.3
MADF     0.41 207 Pg      47 48.26  -0.3
                  Sg     47 53.73
ESCF     0.43 181 Pg      47 48.74  -0.3
ATE      0.43 193 Pg      47 49.02   0.0
                  Sg     47 54.79
ELYF     0.46 222 Pg      47 49.52   0.0
ISSF     0.51 199 Pg      47 50.41  -0.2
                  Sg     47 57.17
BOH      0.52 219 Pg      47 50.34  -0.4
                  Sg     47 57.43
LHE      0.60 184 Pg      47 51.43  -0.9
ELIZ     0.78 244 iPc     47 56.00   0.0
                  e      48 06.20
EPF      0.82 126 Pg      47 57.70   1.0
                  Sg     48 09.50
EGRA     1.33 172 eP      48 09.00   3.7X
                  e      48 29.30
ECRI     1.68 238 eP      48 12.00   1.4
                  e      48 34.00
LFF      1.71  33 Pg      48 16.80   5.9X
                  Sg     48 40.30
LPO      1.72  47 Pg      48 16.60   5.4X
                  Sg     48 41.10
RJF      2.33  39 Pn      48 20.10   0.1
                  Pg     48 28.10
                  Sn     48 50.40
                  Sg     48 58.80
CAF      2.36  52 Pn      48 21.30   0.8
                  Pg     48 28.50
                  Sg     49 01.00
EROQ     2.78 165 ePn     48 32.50   6.1X
                  eSn    49 07.00
ETER     2.79 114 eP      48 35.00   8.5X
                  e      49 09.00
EBR      2.80 163 eP      49 12.00  45.4X
ETOR     2.91 203 eP      48 28.50   0.3
                  e      49 03.00
MFF      3.11   5 Pn      48 31.30   0.4
                  Pg     48 42.00
                  Sn     49 08.40
                  Sg     49 22.80
LSF      3.12  28 Pn      48 31.40   0.3
                  Pg     48 41.00
                  Sn     49 07.20
                  Sg     49 22.70
TCF      3.41  34 Pn      48 35.30   0.0
                  Pg     48 47.20
                  Sn     49 14.10
                  Sg     49 34.10
BGF      3.89  37 Pn      48 41.20  -0.9
                  Pg     48 57.10
                  Sn     49 26.90
                  Sg     49 48.30
AVF      4.30  39 Pn      48 47.50  -0.3
                  Sn     49 37.80
                  Sg     49 59.70
SSF      4.57  38 Pn      48 50.40  -1.3
                  Sn     49 43.90
                  Sg     50 09.20
     S.D. = 0.7  on  20 of  26 obs.
-------------------------------------
   OCT  09, 1993  20h 06m 36.84± 0.73s
   41.345 N ± 6.6km   22.572 E ± 4.7km
   DEPTH =  10.0km  (geophysicist)
 NORTHWESTERN BALKAN REGION       (383)

KNT      0.31 127 iPg     06 42.85  -0.4
                  eSg    06 47.74
GRG      0.41 198 ePg     06 45.10  -0.1
                  eSg    06 52.42
THE      0.77 157 ePg     06 51.74  -0.1
                  eSg    07 02.70
SOH      0.79 131 ePg     06 51.82  -0.4
                  eSg    07 02.66
SRS      0.80 106 ePg     06 52.82   0.4
                  eSg    07 02.26
SKO      1.05 307 ePn     06 56.50  -0.2
                  i      07 13.00
FNA      1.06 239 ePg     06 57.18   0.3
                  iSg    07 12.58
LIT      1.24 183 ePb     07 00.06   0.1
                  eSb    07 18.42
OUR      1.47 133 ePb     07 03.86   0.5
                  eSb    07 24.50
     S.D. = 0.4  on   9 of   9 obs.
-------------------------------------
%  OCT  09, 1993  20h 13m 26.21± 0.54s
   39.460 N ± 4.6km   27.770 E ± 5.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
     ML 3.1 (ISK).

EDC      0.89   5 iPg     13 42.10  -1.2
                  eSg    13 55.10
BNT      0.90   7 iPg     13 43.10  -0.4
                  eSg    13 56.10
KGT      1.05 340 iPn     13 46.60   0.5
IZM      1.13 201 iPn     13 46.80  -0.6
EZN      1.17 289 iPn     13 48.50   0.4
MFT      1.38 344 iPn     13 52.10   0.6
CTT      1.76  16 ePn     13 57.10   0.2
KHL      1.78 129 ePn     13 58.00   0.7
ALT      1.86 102 ePn     13 58.00  -0.5
HRT      1.99  46 ePn     14 01.10   0.8
EYL      2.14  58 ePn     14 02.60   0.0
DMK      2.36 360 ePn     14 05.00  -0.6
     S.D. = 0.7  on  12 of  12 obs.
-------------------------------------
&  OCT  09, 1993  21h 07m 36.35s
   63.780 N          148.671 W
   DEPTH = 105.2km
 CENTRAL ALASKA                   (  1)
      <AEIC>.

MCK      0.13 248 P       07 51.20   1.8
RND      0.38 192 P       07 52.00  -0.3
BWN      0.53 319 P       07 52.70  -0.4
WRH      0.74  20 P       07 54.50  -0.3
TRF      0.79 246 P       07 54.90  -0.7
NEA      0.82 348 P       07 55.20  -0.4
HUR      0.92 209 P       07 57.40   0.8
DHY      0.92 140 P       07 57.00   0.2
                  S      08 12.30
CCB      0.95  23 P       07 56.50  -0.4
HDA      0.98  49 P       07 56.90  -0.4
                  S      08 12.60
KTH      1.03 258 P       07 57.70  -0.2
FBA      1.19  18 P       07 59.00  -0.5
MDM      1.20   9 P       07 59.20  -0.5
IL1      1.26  37 P       07 59.70  -0.7
                  S      08 17.60
ILB      1.26  37 P       07 59.70  -0.7
                  S      08 17.60
GLM      1.33  24 P       08 00.60  -0.7
MLY      1.54 325 P       08 03.70  -0.2
CUT      1.56 208 P       08 04.50   0.5
PAX      1.66 118 P       08 05.50   0.2
                  S      08 29.20
SDG      1.90 130 P       08 10.00   1.7
SML      1.99 175 P       08 10.00   0.5
SKT      2.23 217 P       08 12.50  -0.2
                  S      08 38.80
KNK      2.38 178 P       08 17.00   2.4
KLU      2.62 150 P       08 19.70   1.7
NCG      2.88 216 P       08 20.70  -0.7
PTE      2.93 183 P       08 17.50  -4.5
BC3      3.18 100 P       08 24.30  -1.1
       27 obs. associated
-------------------------------------
?  OCT  09, 1993  21h 14m 56.75± 2.66s
   12.083 S ±26.9km  118.231 E ±18.6km
   DEPTH =  33.0km  (normal)
 SOUTH OF SUMBAWA, INDONESIA      (291)

NANU    10.74 194 eP     18 07.90  36.6X
       0.3s     7.00nm
KNA     10.86 111 eP     17 33.20   0.2
MTN     12.62  95 eP     17 56.00  -0.8
                  eS     20 15.00
MEEK    14.48 179 eP     18 17.80  -3.6X
                  eS     19 45.80
MRWA    17.18 187 iPd    18 54.90  -1.0
WR2     17.36 119 eP     18 58.90   0.7
                  eS     22 08.70
BAL     18.49 184 iPd    19 12.90   0.8
                  eS     22 25.00
ASPA    18.82 130 eP     19 19.80   3.4X
                  eS     22 45.90
COOL    18.90 172 eP     19 17.00  -0.3
                  eS     22 30.50
KLB     19.42 181 iPc    19 25.30   2.0X
                  eS     22 35.00
NWAO    20.77 182 eP     19 42.00   4.6X
                  eS     23 14.00
SAN    133.93 170 iPdiff31 17.63    6.1X
ROCH   134.34 169 ePdiff31 18.01    4.4X
JACH   134.70 170 iPdiff31 15.42    0.4
     S.D. = 0.9  on   7 of  14 obs.
-------------------------------------
?  OCT  09, 1993  21h 30m 59.28± 2.17s
   32.909 S ±26.2km   70.239 W ±20.6km
   DEPTH = 110.0km  (geophysicist)
 CHILE-ARGENTINA BORDER REGION    (127)
      MD 3.8 (SAN).

FCH      0.42 186 iP      31 16.07  -0.2
                  iS     31 29.02
```

09d 21h

```
PEL      0.44 238 iPd    31 16.10    0.0
                  iS     31 29.00
PCH      0.75 198 iPd    31 18.42    0.0
                  iS     31 33.05
TACH     0.95 218 iPd    31 20.40    0.2
CACH     1.24 194 iPd    31 23.83    0.3
LCCH     1.25 243 iP     31 23.73    0.2
LNV      1.43 223 iPd    31 25.05   -0.5
                  iS     31 45.55
     S.D. = 0.4  on   7 of   7 obs.
-----------------------------------------
%  OCT  09, 1993  21h 50m 02.59± 0.69s
   40.712 N ± 6.3km   29.930 E ± 5.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      ML 3.3 (ISK).

EYL      0.23 130 iPg    50 07.60    0.1
HRT      0.23 299 iPg    50 07.10   -0.4
IZI      0.51 223 iPg    50 12.80   -0.2
                  iSg    50 19.80
GPA      0.51 145 iPg    50 12.40   -0.6
                  iSg    50 21.40
ISK      0.75 298 iPg    50 17.60    0.4
CTT      1.22 291 iPg    50 25.60    0.4
BNT      1.57 258 iPn    50 31.10    0.5
EDC      1.62 258 iPn    50 31.10   -0.1
ALT      1.66 175 ePn    50 32.60    0.6
DMK      1.98 305 iPn    50 36.60    0.1
MFT      2.01 273 ePn    50 36.00   -1.1
KGT      2.02 263 iPn    50 37.60    0.6
KHL      2.41 188 ePn    50 43.00    0.3
EZN      2.90 253 iPn    50 49.00   -0.6
     S.D. = 0.6  on  14 of  14 obs.
-----------------------------------------
%  OCT  09, 1993  21h 52m 52.00± 0.92s
   31.340 N ±18.2km    7.579 W ± 7.2km
   DEPTH =  10.0km  (geophysicist)
 MOROCCO                             (395)
      MG 3.1 (RTC).

OUK      0.29 242 iP     52 58.00    0.0
                  iS     53 00.40
CIA      1.04 282 iP     53 11.00   -0.6
                  iS     53 24.50
JHA      1.64 284 iP     53 21.50    0.6
                  iS     53 43.50
TNF      2.26  58 iP     53 30.00    0.1
                  iS     54 10.00
ZFT      2.84  75 eP     53 38.00   -0.1
                  iS     54 12.00
     S.D. = 0.6  on   5 of   5 obs.
-----------------------------------------
%  OCT  09, 1993  22h 05m 51.36± 1.21s
   17.192 N ±14.1km   98.318 W ± 9.4km
   DEPTH =  33.0km  (normal)
 GUERRERO, MEXICO                    ( 59)

ACX      1.51 258 (P)    06 16.00   -0.4
OXX      1.53  94 iP     06 17.50    0.6
                  (S)    06 39.50
III      1.61 317 eP     06 18.00    0.0
                  (S)    06 40.00
PPM      1.89 351 eP     06 23.50    1.2
IISM     2.00  26 (P)    06 27.75    4.3X
LVVM     3.09  35 (P)    06 37.50   -1.5
     S.D. = 1.4  on   5 of   6 obs.
-----------------------------------------
   OCT  09, 1993  22h 24m 21.99± 0.28s
   11.712 N ± 5.0km   57.660 E ± 4.2km
   DEPTH =  10.0km  (geophysicist)
   5.2mb ( 75 obs.)  4.7Msz ( 15 obs.)
 ARABIAN SEA                         (417)

KMSA    15.30 306 eP     28 01.80    2.0
ABHA    15.80 296 eP     28 11.00    4.5X
DHR     16.15 335 eP     28 11.80    1.1
RYD     16.64 323 iPd    28 14.80   -2.3
POO     17.03  65 eP     28 22.50    0.5
MJMA    18.28 322 eP     28 37.33   -0.2
AFIF    18.46 314 eP     28 39.33   -0.5
SHI     18.47 346 eP     28 39.00   -1.0
GBA     19.39  82 Pc     28 50.90   -0.2
        0.8s    25.00nm          4.5mb
KOD     19.50  92 eP     28 54.80    2.1
                  eS     32 35.00
QASM    19.55 319 eP     28 52.27   -0.7
UQSK    20.12 316 eP     29 00.00    0.9
MAIO    24.54   4 iPd    29 45.00    2.0
        0.9s    26.85nm          4.9mb
                  eS     34 14.00
NDI     24.87  44 eP     29 48.00    1.7
ASH     26.13   1 P      29 59.40    1.4
        1.5s   240.00nm          5.7mb
TAB     28.13 341 iPc    30 18.40    1.9
ERE     30.65 340 iP     30 39.00    0.1
                  e      35 32.00
MTA     31.93 342 eP     30 50.00    0.1
KSH     32.06  27 P      30 52.40    1.1
        1.0s    30.00nm          5.2mb
      Z  16s     1.07um          4.6MszX
      N  14s     1.07um
      E  14s     2.01um
GRO     33.19 344 iPc    31 03.00    2.1
        2.0s   240.00nm          5.8mb
      Z  14s     1.00um          4.7MszX
      N  13s     0.50um
FRU     34.33  22 ePd    31 12.50    1.6
        2.0s    80.00nm          5.3mb
PYA     34.58 341 eP     31 14.00    1.0
                  e      36 46.00
SHL     35.11  62 ePKP   31 21.50    3.5X
                  ePP    36 58.00
ELL     35.28 320 iP     31 21.00    1.8
SOC     35.34 337 eP     31 20.00    0.5
                  e      39 14.00
LSA     35.89  55 eP     31 25.00    0.1
      Z  20s     3.75um          5.2Msz
KHL     36.50 321 eP     31 30.00    0.6
NPS     37.32 314 iPc    31 39.30    3.0X
EYL     37.58 325 eP     31 40.10    1.5
MTD     38.29 223 eP     31 49.00    4.3X
VAM     38.39 314 eP     31 47.50    2.2
EDC     38.77 323 eP     31 51.00    2.6
BCAO    39.37 263 iPc    31 54.60    0.8
        0.6s    95.00nm          5.6mb
                  i      32 26.50
EZN     39.38 321 eP     31 55.50    2.0
KRI     39.66 225 eP     31 51.50   -4.7X
VLI     39.92 315 eP     31 59.00    0.9
CHTO    40.37  75 eP     32 06.00    4.0X
        1.1s    20.61nm          4.7mb
WMQ     41.16  33 P      32 09.20    1.0
        2.0s    22.00nm          4.5mb
      Z  16s     0.78um          4.7MszX
      E  12s     0.71um
                  pP     32 13.20   13kmX
                  sP     32 16.20
                  PP     33 53.30
                  eS     38 24.00
NST     41.40  80 eP     32 10.00   -0.4
VLS     42.26 315 eP     32 18.80    1.5
ISR     42.61 327 eP     32 21.50    1.5
BUL     42.65 222 iPd    32 21.20    0.4
        1.0s    50.00nm          5.2mb
KIS     42.74 331 iP-    32 21.50    0.5
      Z  16s     0.30um          4.3MszX
                  e      34 08.00
                  eS     38 42.00
                  eSS    41 53.00
LOE     42.96  77 eP     32 26.00    2.8X
VRI     43.01 328 ePd    32 24.00    0.8
MLR     43.16 327 ePd    32 25.50    0.8
MTUR    43.46 326 eP     32 30.00    3.0X
CMP     43.50 326 ePd    32 32.00    4.7X
ARU     44.59   1 eP     32 37.00    1.1
KMI     44.59  66 eP     32 36.00   -0.7
        1.5s    90.00nm          5.4mb
      Z  23s     1.40um          4.8MszX
                  pP     32 40.50   15kmX
BZS     45.61 325 eP     32 36.50   -7.7X
BFT     45.88 216 eP     32 48.00    1.2
        0.7s    25.00nm          5.3mb
OBN     46.34 343 eP     32 50.00    0.2
        1.0s    22.00nm          5.1mb
      Z  18s     0.50um          4.5Msz
      N  20s     0.60um
                  i      32 54.00
                  e      34 44.00
                  ePPP   35 20.00
                  eS     39 38.00
                  eSS    43 00.00
GTA     46.37  46 eP     32 49.80   -0.6
        1.5s    13.00nm          4.7mb
      Z  24s     0.66um          4.5MszX
                  pP     32 54.50   16kmX
                  sP     32 58.50
                  PP     34 42.00
CD2     46.62  58 P      32 55.00    2.5
MOS     46.63 345 iPd    32 53.00    1.0
        2.0s   160.00nm          5.7mb
                  i      34 42.00
                  e      35 25.00
SLR     46.94 217 iPc    32 55.00   -0.1
        1.0s    50.00nm          5.6mb
UZH     47.09 328 eP     32 57.50    1.7
        1.2s    35.00nm          5.3mb
KSR     47.87 218 iPc    32 44.00  -18.5X
        1.0s   110.00nm
PSZ     47.93 326 eP     33 02.60    0.0
LBTB    48.07 220 eP     33 03.50   -0.4
        1.4s   207.52nm          6.0mb
LZH     48.12  52 eP     33 03.00   -1.4
        1.4s    36.00nm          5.3mb
      Z  20s     1.09um          4.8Msz
      E  10s     0.28um
                  pP     33 08.50   18kmX
                  sP     33 12.00
GYA     48.29  65 P      33 04.80   -0.9
        1.2s    65.00nm          5.6mb
MNK     48.39 337 eP     33 08.00    2.1
SPC     48.50 328 eP     33 05.50   -1.6
SRO     48.74 325 iP     33 10.10    1.4
SEK     49.28 216 eP     33 13.50    0.2
        1.0s   200.00nm          6.1mb
OJC     49.36 329 eP     33 16.00    2.5
ZST     49.63 325 eP     33 15.00   -0.5
LJU     50.01 322 eP     33 19.90    1.3
                  epP    33 21.00    4kmX
                  e      33 32.00
VOY     50.40 321 e(P)   33 21.00   -0.6
VRAC    50.52 326 eP     33 24.50    2.2
        1.8s    39.20nm          5.1mb
QIZ     50.69  75 eP     33 27.60    3.5X
BLF     50.70 216 iPd    33 24.10    0.0
        1.0s   160.00nm          5.9mb
BOSA    50.78 217 ePc    33 25.16    0.6
        0.9s    51.57nm          5.5mb
KBA     51.23 322 iPd    33 28.00    0.0
        1.2s    15.00nm          4.8mb
                  i      33 29.70
KSP     51.54 328 eP     33 29.50   -0.6
XAN     51.59  56 eP     33 29.50   -1.3
        0.7s    10.00nm          4.9mb
      Z  20s     0.61um          4.6Msz
                  pP     33 38.00   28kmX
                  sP     33 42.00
                  S      40 50.00
                  SS     44 24.00
BHG     51.82 323 eP     33 33.90    1.6
GEC2    51.89 324 P      33 31.60   -1.3
        0.9s     0.93nm          3.7mb X
                  e      33 34.00
                  e      33 35.70
                  e      34 44.90
PRU     52.01 326 eP     33 33.00   -0.7
                  e      33 37.00
KHC     52.10 325 P      33 33.00   -1.5
        1.0s     7.00nm          4.5mb
                  e      34 25.50
WTTA    52.35 322 iPd    33 35.30   -1.2
        0.8s    23.80nm          5.2mb
                  i      33 39.80
WIN     52.35 229 iPc    33 37.00    0.2
        1.0s   140.00nm          5.8mb
WATA    52.42 322 iPd    33 35.40   -1.6
                  i      33 38.80
SQTA    52.59 322 iPd    33 36.90   -1.3
        0.6s    16.30nm          5.1mb
                  i      33 40.30
MOTA    52.71 322 iPd    33 37.40   -1.8
        0.8s    26.30nm          5.2mb
                  i      33 40.10
                  i      33 50.60
BRG     52.80 327 eP     33 41.80    2.2
        1.6s    28.00nm          4.9mb
FUR     52.98 323 eP     33 40.40   -0.6
OSS     53.01 321 ePd    33 41.70    0.2
CLL     53.54 327 eP     33 46.00    1.0
        1.8s    60.00nm          5.3mb
                  i      33 56.00
```

```
ZAK     53.60  35 eP    33 45.00  -0.4
        2.4s    43.00nm          5.0mb
                  e     44 51.00
HOF     53.65 325 eP    33 46.00   0.1
SBF     53.66 316 eP    33 45.70  -0.4
        1.0s    25.00nm          5.2mb
GRF     53.72 324 eP    33 45.50  -0.9
      Z 22s     0.10um           3.8Msz
LLS     53.80 320 ePd   33 46.70  -0.6
MOX     53.96 325 eP    33 47.90  -0.2
BTO     54.11  48 eP    33 53.00   3.5X
NUR     54.43 341 eP    33 49.50  -1.9
DIX     54.50 319 ePd   33 52.40  -0.1
LPG     54.71 318 eP    33 53.40  -0.7
LPL     54.73 318 eP    33 52.70  -1.5
        0.7s     9.70nm          4.9mb
EMS     54.80 319 ePd   33 54.70   0.0
IRK     55.09  33 eP    33 56.00  -0.4
        1.8s    23.00nm          4.9mb
      Z 19s     0.27um           4.3Msz
      E 22s     0.16um
KAF     55.16 343 eP    33 55.00  -1.8
TIY     55.19  52 eP    33 56.50  -1.0
      Z 18s     1.45um           5.1Msz
      E 20s     1.93um
                  S     41 37.50
HHC     55.31  48 eP    34 02.60   4.3X
        1.2s    45.00nm          5.4mb
      Z 21s     1.39um           5.0Msz
CDF     55.49 321 eP    33 58.20  -1.3
        1.0s    23.80nm          5.2mb
WHN     55.53  61 Pd    34 03.50   3.6X
        1.0s    30.00nm          5.3mb
                 pP     34 08.50  16kmX
BSF     55.56 321 eP    33 58.30  -1.7
        0.9s    10.95nm          4.9mb
HAU     55.90 321 eP    34 00.60  -1.8
        0.9s     6.70nm          4.7mb
      Z 22s     0.10um           3.9Msz
SUR     56.24 218 iPd   34 06.50   1.3
        1.0s   128.00nm          5.9mb
UPP     56.45 337 iP    34 05.20  -0.9
WLF     56.67 323 P     34 07.00  -0.8
SMF     57.01 318 eP    34 08.80  -1.5
        1.5s    37.60nm          5.2mb
LBF     57.03 319 eP    34 09.30  -1.2
        0.9s    19.15nm          5.1mb
LOR     57.21 319 eP    34 10.40  -1.3
        0.8s    15.05nm          5.1mb
      Z 24s     0.10um           3.8MszX
SSF     57.36 319 eP    34 11.40  -1.4
        0.7s    11.45nm          5.0mb
AVF     57.37 319 eP    34 11.20  -1.6
        1.1s    14.90nm          4.9mb
BGF     57.63 318 eP    34 13.70  -1.0
        1.1s    31.50nm          5.3mb
MAF     57.70 318 eP    34 14.00  -1.2
        1.0s     8.40nm          4.7mb
DOU     57.77 323 Pc    34 15.90   0.3
        0.7s    26.70nm          5.4mb
CER     57.84 218 e(P)  34 11.00  -5.3X
        1.0s   100.00nm          5.8mb
TCF     57.96 318 eP    34 16.10  -0.9
        0.9s     5.40nm          4.6mb
HYF     57.99 319 eP    34 16.20  -1.0
SNF     58.11 323 P     34 18.20   0.3
HFS     58.17 336 eP    34 16.40  -1.8
        0.5s     5.30nm          4.8mb
      Z 18s     0.15um           4.2Msz
                 LR     00 25.00
LPO     58.18 316 eP    34 17.50  -1.1
        1.0s    11.20nm          4.9mb
LSF     58.40 317 eP    34 19.00  -1.1
        1.1s    13.65nm          4.9mb
ECHE    58.53 309 eP    34 25.00   3.8X
BJI     58.54  50 eP    34 19.50  -1.6
        1.0s    10.00nm          4.9mb
      Z 21s     0.97um           4.9Msz
NJ2     59.52  60 Pc    34 26.80  -1.3
EVIA    59.53 308 eP    34 28.50   0.3
MFF     59.61 317 eP    34 27.10  -1.4
        1.3s    19.15nm          5.1mb
NB2     59.69 336 P     34 27.20  -1.7
        1.2s     6.40nm          4.6mb
EGUA    60.09 306 eP    34 32.00   0.0
ECOG    60.15 306 eP    34 32.00  -0.5
LDF     60.16 320 eP    34 30.90  -1.3
        1.0s    33.20nm          5.4mb
FLN     60.44 320 eP    34 32.30  -1.8
        1.1s    17.85nm          5.1mb
      Z 23s     0.15um           4.1MszX
GRR     60.57 319 eP    34 33.60  -1.4
        0.8s     9.65nm          5.0mb
LPF     60.59 319 eP    34 34.40  -0.7
        0.9s    20.15nm          5.3mb
ELUQ    60.74 307 eP    34 35.50  -1.0
NRI     60.82  12 iPc   34 35.20  -1.2
        1.0s    20.00nm          5.2mb
      Z 21s     1.40um           5.1Msz
IFR     60.99 302 iP    34 46.00   7.7X
GUD     61.13 310 eP    34 41.00   1.9
SSE     61.43  61 eP    34 43.00   1.9
        1.2s    15.00nm          5.0mb
      Z 20s     0.50um           4.7Msz
                 pP     34 49.50  21kmX
EHOR    61.55 307 eP    34 42.00   0.1
EJIF    61.56 305 eP    34 42.00   0.0
KIC     61.76 271 Pc    34 43.92   0.3
        1.2s    46.50nm          5.5mb
TIC     61.98 271 P     34 45.60   0.4
        0.7s   217.00nm          6.4mb X
LIC     62.06 271 P     34 46.06   0.4
        0.9s    28.00nm          5.5mb
      Z 21s     0.13um           4.1Msz
LKO     62.09 275 Pc    34 46.03   0.1
        0.8s    17.50nm          5.3mb
EPLA    62.49 309 eP    34 49.00   0.8
EVAL    62.70 306 eP    34 49.00  -0.6
CN2     65.97  47 eP    35 10.00  -0.7
        1.0s    17.00nm          5.2mb
      Z 20s     0.62um           4.8Msz
                 epP    35 18.00  26kmX
YAK     71.33  28 eP    35 42.60  -1.0
        1.2s    65.00nm          5.6mb
TIK     73.06  18 eP    35 54.00   0.2
        2.0s    41.00nm          5.2mb
                  e     36 04.00
                  e     38 42.00
DAG     75.57 347 eP    36 09.00   0.8
WRA     81.73 112 P     36 42.50  -0.2
        0.8s     3.00nm          4.4mb
WR2     81.75 112 iPc   36 41.40  -1.4
        0.7s     7.20nm          4.9mb
ASPA    82.35 116 eP    36 44.10  -1.9
        1.9s     9.10nm          4.6mb
NVL     87.94 194 iPc   37 14.00   1.2
        1.0s    37.00nm          5.7mb
CNCB   127.20 258 iPKPd 43 31.00   1.0
LPB    127.30 258 ePKP  43 31.00   1.0
LPAZ   127.32 258 PKP   43 26.90  -3.4X
                 LR     27 42.00
     S.D. = 1.2  on 146 of 165 obs.
-------------------------------------
   OCT  09, 1993  22h 28m 13.98± 0.35s
   45.318 N ± 3.2km    6.576 E ± 4.2km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                            (538)
      ML 2.9 (GEN), 2.6 (LDG).

LPG      0.22  34 Pg    28 19.60   0.7
                 Sg    28 23.90
LPL      0.23  29 Pg    28 19.70   0.7
                 Sg    28 24.20
RSL      0.37   5 Pg    28 22.14   0.5
                 Sg    28 28.15
RRL      0.42 160 P     28 21.42  -1.3
                 S     28 26.78
LSD      0.43  71 P     28 22.98   0.1
                 S     28 29.61
RSP      0.51 109 P     28 24.26  -0.1
                 S     28 31.31
BHB      0.68 134 P     28 26.87  -0.6
                 S     28 35.33
PZZ      0.89 155 P     28 29.61  -1.6
                 S     28 41.65
ROB      1.38 138 P     28 38.86  -0.4
TOUF     1.39 160 Pg    28 39.04  -0.5
SSB      1.44 269 Pn    28 39.28  -0.8
                 Pg    28 40.41
MVIF     1.48 164 Pg    28 40.75   0.0
SAOF     1.50 152 Pg    28 41.54   0.5
AURF     1.53 159 Pg    28 41.67   0.3
SBF      1.58 157 Pg    28 44.00   1.9
                 Sg    29 05.20
CALN     1.58 172 Pg    28 42.97   0.7
PCP      1.60 118 P     28 42.63   0.2
FIN      1.61 133 P     28 40.95  -1.5
IMI      1.69 146 P     28 42.23  -1.5
FRF      1.76 178 Pg    28 45.90   1.2
                 Sg    29 09.00
LRG      1.87 185 Pg    28 48.20   1.9
                 Sg    29 12.10
LMR      1.98 181 Pg    28 49.70   1.8
                 Sg    29 14.70
SMF      2.32 306 Pn    28 52.30  -0.6
                 Pg    28 57.20
                 Sg    29 26.90
LBF      2.46 314 Pn    28 54.60  -0.2
                 Pg    29 00.30
                 Sg    29 30.30
AVF      2.68 304 Pn    28 57.70  -0.3
                 Pg    29 05.30
                 Sg    29 37.30
HAU      2.69 357 Pn    28 57.80  -0.3
                 Pg    29 06.00
                 Sg    29 41.00
LOR      2.71 317 Pg    29 05.20   6.8X
                 Sg    29 38.60
SSF      2.75 310 Pn    28 59.10   0.1
                 Pg    29 04.60
                 Sg    29 39.50
BGF      2.88 297 Pn    29 00.10  -0.7
                 Pg    29 07.90
                 Sg    29 42.70
     S.D. = 1.0  on  28 of  29 obs.
-------------------------------------
?  OCT  09, 1993  22h 36m 29.98± 0.95s
   44.366 N ± 8.3km    7.301 E ± 9.7km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                    (545)
      ML 1.9 (GEN).

STV      0.12 172 P     36 32.96  -0.1
                 S     36 34.24
PZZ      0.20 314 P     36 34.65   0.2
                 S     36 38.03
ROB      0.42 100 P     36 38.63   0.1
BHB      0.48 357 P     36 39.43  -0.2
                 S     36 46.50
     S.D. = 0.4  on   4 of   4 obs.
-------------------------------------
   OCT  09, 1993  23h 30m 10.85± 0.70s
   58.097 N ± 6.6km  142.702 W ± 3.3km
   DEPTH =  10.0km  (geophysicist)
 GULF OF ALASKA                    ( 15)
      ML 3.3 (AEIC).

YKU      2.13  45 P     30 47.90   1.1
CHX      2.14  22 eP    30 47.99   0.9
                 eS    31 12.53
MID      2.32 307 P     30 50.70   1.1
YAH      2.33  12 iP    30 50.48   0.5
PNL      2.33  46 iP    30 49.87   0.0
PCA      2.37  31 iP    30 50.69   0.2
HMT      2.39 341 eP    30 51.01   0.4
HQN      2.41  54 eP    30 50.90  -0.1
BCPM     2.45  39 iP    30 51.49   0.1
TGL      2.67 359 iP    30 54.88   0.1
                 eS    31 25.11
CRQM     2.68 355 eP    30 54.82  -0.1
SGAM     2.73 333 eP    30 56.25   0.7
CVA      2.91 329 eP    30 58.10   0.1
BALM     2.95   3 iP    30 59.02   0.3
                 eS    31 31.44
CTGM     2.96  13 eP    30 59.41   0.5
GLB      3.40 351 eP    31 04.86  -0.2
                 eS    31 41.98
VLZ      3.56 330 eP    31 07.08  -0.1
KLU      3.77 336 eP    31 10.15  -0.3
PWL      3.99 316 eP    31 12.92  -0.4
SEW      4.02 303 eP    31 13.60  -0.1
CFI      4.02 322 eP    31 14.01   0.3
SIT      4.11 102 eP    31 13.53  -1.4
MPA      4.17 308 eP    31 15.27  -0.6
TZL      4.19 342 eP    31 16.94   0.8
TOA      4.38 338 P     31 19.30   0.3
SCM      4.41 330 eP    31 19.22  -0.2
SLKM     4.55 305 eP    31 21.33   0.0
CNPM     4.66 292 eP    31 23.98   1.0
SML      4.68 325 eP    31 22.55  -0.6
PLRM     4.77 320 eP    31 24.34  -0.1
```

09d 23h

```
PMR     4.77 320 (P)   31 24.25  -0.2
BC3     5.01   5 eP    31 27.48  -0.3
PWA     5.08 318 P     31 29.20   0.5
PAX     5.08 346 eP    31 30.11   1.3
KDC     5.23 270 (P)   31 32.96   2.1
DHY     5.50 337 eP    31 35.12   0.2
SPU     5.66 307 eP    31 35.92  -1.2
RS2     5.67 299 P     31 35.40  -2.0
OPT     5.68 290 eP    31 38.24   0.9
CUT     5.73 322 eP    31 38.13   0.1
NCT     5.79 300 eP    31 37.97  -0.9
CDD     5.80 283 eP    31 38.86  -0.1
SKT     5.89 315 eP    31 40.54   0.3
IL1     6.99 345 eP    31 53.75  -2.0
ILB     6.99 345 eP    31 53.82  -1.9
IMA     9.49 332 eP    32 29.56  -1.1
YKA    14.54  61 eP    33 45.70   7.4X
       0.6s     0.90nm          3.6mb
     S.D. = 0.9  on  46 of  47 obs.
-----------------------------------
   OCT  10, 1993  01h 26m 08.84± 0.82s
    6.168 S ± 6.1km  149.914 E ± 8.2km
   DEPTH =  69.1 ±  8.2 km
   4.8mb (  5 obs.)
 NEW BRITAIN REGION, P.N.G.       (192)

RAB     2.98  49 eP    26 54.00  -0.7
                iS     27 44.00
KVG     3.67  14 eP    27 05.90   1.5
YYYY    3.92 269 eP    27 09.00   0.9
MDG     4.21 282 eP    27 13.20   1.1
PMG     4.22 220 iPd   27 10.50  -1.6
                eS     27 57.00
QIS    17.45 214 eP    30 08.00  -1.3
GUA    20.20 346 eP    30 39.30  -1.3
       1.3s   430.77nm          5.6mb
GUMO   20.26 346 eP    30 40.00  -1.2
       1.6s   215.20nm          5.2mb
     Z  24s     0.98um          4.1MszX
WR2    20.39 226 iPd   30 41.80  -0.8
       0.4s    36.10nm          5.1mb
                eS     34 22.40
BRS    21.28 173 iPc   30 51.00  -0.6
                i      30 56.00
DZM    22.47 136 iPd   31 04.20   0.7
ASPA   23.24 220 iPc   31 11.60   0.7
       1.2s    11.10nm          4.2mb
     Z  23s     0.90um          4.2MszX
                eS     35 18.70
ARMA   24.18 176 eP    31 20.60   0.5
STK    26.74 196 eP    31 45.50   1.7
       1.3s     8.20nm          4.1mb
MAT    43.88 346 (P)   34 09.00  -1.2
BJI    55.50 329 eP    35 53.50  14.5X
     Z  24s     0.51um          4.5MszX
BRG   122.38 329 e(PKP)44 58.60   1.0
PRU   122.57 327 ePKP  44 59.00   1.0
KHC   123.57 327 ePKP  45 00.00  -0.1
                e      45 10.50
GEC2  123.66 327 PKP   45 00.30   0.0
       0.7s     2.01nm
                e      45 10.20
GRF   124.49 329 ePKP  45 02.00   0.2
     Z  23s     0.20um          4.7MszX
BCAO  131.57 270 iPKPc 45 16.90   0.5
       0.8s    11.00nm
CNCB  136.12 122 iPKPd 45 28.10   2.5X
LPB   136.15 121 PKPd  45 28.00   2.5X
LPAZ  136.24 121 PKP   45 21.70  -4.2X
RSTA  144.24 150 ePKP  45 38.60  -0.7
PPD   145.10 144 ePKP  45 40.60  -0.2
                e      45 50.80
VAO   146.64 151 (PKP) 45 47.00   3.6X
VAO2  146.65 152 (PKP) 45 46.00   2.5X
LKO   155.51 279 PKP   46 05.69   9.0X
       0.6s     6.00nm
     S.D. = 1.1  on  23 of  30 obs.
-----------------------------------
*  OCT  10, 1993  02h 19m 18.61± 2.42s
   41.543 N ±11.9km  139.984 E ±12.8km
   DEPTH =  46.7 ± 22.1 km
   4.4mb ( 16 obs.)
 HOKKAIDO, JAPAN  REGION          (224)

MAT     5.18 196 iPc   20 34.50  -1.1
                eS     21 32.00
BJI    18.08 273 eP    23 28.50   0.6
       1.0s     6.00nm          3.7mb
     Z  16s     0.53um          5.0Msz
SSE    18.35 241 P     23 33.00   1.8
       0.8s     9.00nm          4.0mb
YAK    21.41 347 eP    24 10.60   6.4X
       1.5s    33.00nm          4.5mb
XAN    25.57 263 P     24 41.20  -3.6X
INK    50.92  29 eP    28 18.50   1.8
       0.9s     3.00nm          4.3mb
RES    58.52  15 eP    29 12.00   0.0
       0.9s     3.00nm          4.4mb
GBA    60.60 262 P     29 26.00  -1.0
WRA    61.40 186 P     29 32.50   0.3
       0.6s     4.20nm          4.7mb
CTA    61.59 173 iPc   29 28.00  -5.5X
       1.8s    68.18nm          5.5mb X
                ipP    29 36.00  26kmX
                e      32 26.00
KAF    63.81 331 iP    29 46.40  -1.4
NUR    65.47 331 iP    29 57.50  -1.0
NB2    69.61 336 P     30 23.40  -1.2
       0.9s     3.60nm          4.3mb
GEC2   78.32 327 P     31 15.40   0.2
       0.5s     0.40nm          3.7mb
                e      31 17.70
OHR    81.02 318 e(P)  31 30.00   0.2
LOR    83.38 332 eP    31 41.30  -0.6
       0.9s     3.10nm          4.4mb
LBF    83.58 331 eP    31 42.60  -0.4
       1.0s     4.40nm          4.5mb
SSF    83.68 332 eP    31 43.10  -0.3
LPL    83.79 329 eP    31 44.70   0.4
       1.1s     5.35nm          4.5mb
LPG    83.80 329 eP    31 44.40   0.0
       0.7s     2.10nm          4.3mb
SMF    83.92 331 eP    31 45.00   0.3
       0.7s     2.75nm          4.4mb
AVF    83.97 332 eP    31 44.60  -0.3
       0.7s     3.10nm          4.5mb
LSF    85.08 332 eP    31 50.50   0.0
CAF    86.03 331 eP    31 56.10   0.8
       0.8s     2.55nm          4.5mb
LPO    86.56 332 eP    31 58.40   0.6
       0.9s     4.90nm          4.7mb
LPAZ  145.09  52 PKP   38 54.60   1.1
LPB   145.30  52 ePKP  38 53.00  -0.6
CNCB  145.58  53 PKPd  38 57.30   3.0X
     S.D. = 0.9  on  24 of  28 obs.
-----------------------------------
?  OCT  10, 1993  03h 06m 06.08± 1.98s
   31.210 S ±34.1km   68.738 W ±31.2km
   DEPTH = 100.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA     (137)

RTLL    0.26 117 iPd   06 21.00   0.0
                S      06 31.20
RTCB    0.28 191 iPd   06 21.00   0.1
                S      06 32.00
ZON     0.34 171 eP    06 21.00  -0.1
                eS     06 32.00
CFA     0.58 133 iPc   06 22.80   0.0
                S      06 35.80
RTPR    2.12  65 eP    06 40.70   0.0
                S      07 05.80
     S.D. = 0.1  on   5 of   5 obs.
-----------------------------------
?  OCT  10, 1993  03h 19m 34.66± 3.62s
   34.849 S ±13.7km  178.881 W ±43.6km
   DEPTH =  33.0km  (normal)
   4.0mb (  2 obs.)
 SOUTH OF KERMADEC ISLANDS        (179)

HBZ     3.57 219 eP    20 29.50   0.5
PUZ     3.96 215 eP    20 34.70   0.1
                eS     21 16.00
URZ     4.69 222 P     20 44.20  -0.7
                eS     21 35.90
KUZ     4.78 245 eP    20 46.30   0.1
WLZ     5.38 234 eP    20 51.00  -3.7X
WR2    43.70 277 iPd   27 38.20  -0.2
       0.4s     3.10nm          4.4mb
WRA    43.72 277 P     27 38.70   0.2
       0.9s     0.80nm          3.5mb
     S.D. = 0.5  on   6 of   7 obs.
-----------------------------------
*  OCT  10, 1993  04h 13m 54.40± 0.71s
   33.955 S ± 9.6km   70.736 W ± 8.3km
   DEPTH =  90.0km  (geophysicist)
 CHILE-ARGENTINA BORDER REGION    (127)
      MD 3.6 (SAN).

CACH    0.20 145 eP    14 07.81   0.0
                iS     14 18.78
TACH    0.34 331 iPd   14 08.49   0.2
                iS     14 19.90
PCH     0.38  29 iP+   14 08.83   0.2
                iS     14 20.27
SAN     0.50   7 iP+   14 09.58   0.2
                iS     14 21.77
LNV     0.56 270 iPd   14 09.58  -0.2
                eS     14 21.45
FCH     0.73  31 iP+   14 11.83   0.0
                iS     14 25.81
PEL     0.81   3 iP+   14 12.62   0.3
                iS     14 27.33
LCCH    0.84 304 iPd   14 12.49  -0.1
                iS     14 26.28
ROCH    1.01 347 iPd   14 14.76   0.0
                iS     14 30.72
JACH    1.27   5 iP+   14 17.55  -0.3
                iS     14 35.91
RTCB    2.95  34 ePd   14 40.50   0.3
                S      15 17.50
RTLL    3.24  37 ePc   14 43.50  -0.6
                (S)    15 21.50
     S.D. = 0.3  on  12 of  12 obs.
-----------------------------------
   OCT  10, 1993  04h 17m 46.76± 0.72s
   42.421 N ± 7.4km  105.868 W ± 7.8km
   DEPTH =   5.0km  (geophysicist)
 WYOMING                          (460)
      ML 3.7 (GS). Felt (IV) in the
      Garrett area.

RSSD    2.16  38 iPnc  18 23.79  -0.4
                eS     18 53.22
GLD     2.71 169 ePn   18 32.74   0.8
PV08    4.39 210 ePn   18 55.56  -0.3
                ePg    19 07.45
                eS     20 01.70
DAU     4.52 245 (Pn)  18 57.93   0.2
                eS     20 10.99
EMUT    4.55 237 ePn   18 58.23   0.1
                eS     20 11.34
PV09    4.64 214 ePn   18 59.27  -0.2
PV10    4.71 212 ePn   19 00.97   0.6
                ePg    19 15.05
TPMT    4.80 301 ePn   19 09.40   7.6X
PTI     4.82 278 (Pn)  19 02.83   1.0
SRU     4.84 228 ePn   19 01.39  -0.8
MEMT    4.86 313 ePn   19 09.10   6.6X
HVU     5.18 265 (Pn)  19 05.48  -1.5X
BGMT    5.28 304 ePn   19 15.40   7.0X
SXM     5.35 316 ePn-  19 14.40   5.0X
DUG     5.68 249 (Pn)  19 10.40  -3.7X
LRM     5.83 308 ePn   19 28.40  12.2X
MSU     6.19 233 ePn   19 20.58  -0.7
ARUT    7.42 234 (Pn)  19 38.39  -0.1
ACO     7.72 136 e(P)  19 33.50  -9.0X
WMOK    9.46 142 ePn   19 59.96  -6.8X
MEO     9.52 141 iPc   20 01.40  -6.1X
ULM    10.43  38 eP    20 17.00  -3.0X
UYO    12.17 129 iPc   20 37.10  -6.5X
     S.D. = 0.6  on  11 of  23 obs.
-----------------------------------
*  OCT  10, 1993  04h 40m 35.26± 1.17s
   14.481 N ±18.0km   93.037 W ± 7.2km
   DEPTH =  39.8 ±  9.3 km
   4.5mb (  9 obs.)
 NEAR COAST OF CHIAPAS, MEXICO    ( 69)
      MD 4.8 (GCG).

TPX     0.86  61 iP    40 53.00   2.0
                iS     41 10.00
SCX     2.28  10 iP    41 15.50   4.3X
                (S)    41 46.50
BVA     2.33  85 eP    41 13.07   0.8
                eS     41 42.97
IXG     2.52  97 eP    41 14.13  -0.8
YUP     3.15  95 eP    41 22.99  -0.8
                eS     42 03.84
OXX     4.39 307 (P)   41 41.50   0.0
IISM    6.11 318 (P)   42 09.00   3.5X
LVVM    6.16 329 eP    42 02.50  -3.7X
```

```
IIT      6.77 313 (P)   42 13.50  -1.5
PPM      7.03 311 eP    42 19.50   0.6
III      7.28 303 (P)   42 21.50  -0.7
UNM      7.61 310 (P)   42 29.50   2.8X
CRX      8.02 309 (P)   42 31.50  -1.1
MRX      9.37 305 (P)   42 51.50   0.7
LTX     17.75 328 eP    44 42.19   1.0
UYO     19.64 356 iPd   45 00.70  -2.9
MIAR    19.98 359 eP    45 05.06  -2.2
         1.0s    21.48nm          4.4mb
                 eS     48 38.19
MEO     20.83 347 iPc   45 16.80   0.8
WMOK    20.82 347 (P)   45 13.48  -2.5
         1.0s    10.16nm          4.1mb
                 eS     48 59.49
TUL     21.48 354 iP    45 24.60   2.0
PRM     21.78  24 (P)   45 25.47  -0.1
JSC     22.41  26 eP    45 31.96   0.2
LHS     22.77  27 eP    45 35.40   0.1
ACO     22.79 347 iPc   45 31.40  -4.2X
ALQ     23.69 332 eP    45 45.33   0.8
         0.9s     6.59nm          4.1mb
TUC     24.02 321 eP    45 49.56   1.9
         1.2s    19.72nm          4.5mb
PV08    27.68 333 ePc   46 22.53   0.5
PV10    27.69 332 eP    46 22.11   0.1
PV09    27.84 332 (P)   46 22.08  -1.3
PLM     28.64 315 eP    46 30.69   0.1
ARUT    29.44 326 eP    46 38.30   0.6
RSSD    31.00 345 eP    46 50.90  -0.6
         0.7s     3.85nm          4.3mb
HVU     32.13 332 eP    47 02.24   0.9
BONR    32.37 321 eP    47 03.87   0.3
LRM     35.27 336 ePc   47 29.00   0.5
ULM     35.75 357 eP    47 33.00   0.8
RMW     40.65 330 (P)   48 15.87   2.6
YKA     50.33 347 eP    49 29.10  -0.8
         0.7s     9.30nm          4.9mb
INK     59.70 344 eP    50 37.50  -0.3
         1.0s     5.00nm          4.6mb
RES     60.21 359 eP    50 40.50  -0.7
         1.0s     4.00nm          4.5mb
LKO     85.21  81 P     53 08.71  -0.9
         0.8s     5.50nm          4.8mb
GBA    150.55  19 PKP   00 25.00   5.4X
     S.D. = 1.3  on  36 of  42 obs.
-----------------------------------
   OCT  10, 1993  07h 15m 58.56± 0.14s
   19.863 S ± 4.3km  163.302 E ± 3.1km
   DEPTH =  14.0km  ( 14 depth phases)
   5.3mb ( 50 obs.)  4.8Msz ( 10 obs.)
 NEW CALEDONIA                     (187)

DZM      3.67 127 iPc   16 54.70  -1.5
                iS     17 30.20
BKM      5.17  66 iPd   17 14.50  -2.8
                iS     18 12.50
HNR     10.86 342 eP    18 33.00  -3.7X
BRS     12.21 230 iPd   18 53.00  -2.0
                e      19 32.00
                i(S)   21 05.00
ARMA    14.89 223 iPc   19 31.20   0.7
         0.4s    16.00nm          4.8mb
CTA     16.03 266 iPc   19 46.00   0.8
         0.9s    21.01nm          4.3mb X
      Z  17s    10.88um          3.8MszX
                e      19 50.00
                e      20 11.00
                eS     23 04.00
                e(SS)  23 36.00
                iPcS   24 45.00
RIV     17.61 215 eP    20 08.20   3.2X
PMG     18.74 301 eP    20 20.00   0.8
BWA     19.61 219 iPd   20 28.50  -1.0
CNB     19.70 216 iPd   20 31.60   1.0
         0.4s    50.00nm          5.2mb
CAN     19.91 216 iPd   20 33.80   1.1
QIS     22.25 264 eP    20 57.20   0.6
STK     22.86 234 iPd   21 04.20   1.6
         1.5s    35.30nm          4.7mb
                 eS     25 18.50
TOO     23.49 218 eP    21 14.50   5.7X
         0.9s    37.00nm          4.9mb
ADE     26.42 230 e(P)  21 37.00   0.4
WR2     27.20 265 iPc   21 42.60  -1.2
         0.7s    21.20nm          4.9mb
WRA     27.22 265 P     21 43.00  -1.0
         0.6s    14.60nm          4.9mb
ASPA    27.54 257 eP    21 46.10  -0.9
         1.4s    37.90nm          4.9mb
      Z  21s     3.50um          4.9Msz
                 eS     26 27.30
MTN     31.61 278 eP    22 23.20  -0.1
FORT    33.53 244 eP    22 40.10   0.1
         0.7s    24.00nm          5.2mb
COOL    39.43 245 eP    23 30.00   0.0
         0.8s    32.00nm          5.1mb
MEEK    41.45 252 iPd   23 47.20   0.6
         0.5s    23.00nm          5.2mb
KLB     42.38 245 eP    23 54.20   0.0
BAL     43.22 246 eP    24 00.70  -0.4
         0.8s    24.00nm          5.0mb
MUN     43.73 244 eP    24 05.20   0.0
         0.8s    35.00nm          5.2mb
MRWA    43.78 248 iPd   24 05.70   0.1
         0.8s    26.00nm          5.1mb
AFR     44.40  95 iPd   24 09.40  -1.3
         1.3s   188.50nm          5.8mb
PAE     44.56  95 iPd   24 11.50  -0.5
         1.3s    92.40nm          5.5mb
PPT     44.58  95 iPd   24 11.60  -0.6
         1.2s   129.10nm          5.7mb
      Z  30s   650.00um          7.4MszX
PPN     44.72  95 iPd   24 13.10  -0.2
         1.5s   124.30nm          5.6mb
TVO     44.84  96 iPd   24 15.10   0.7
         1.2s   105.30nm          5.6mb
PMO     46.69  92 iPd   24 27.50  -1.4
         1.3s   114.80nm          5.8mb
VAH     46.88  93 iPd   24 30.00  -0.5
         1.3s   114.80nm          5.8mb
TPT     46.95  92 iPd   24 30.20  -0.8
         1.3s   188.50nm          6.0mb
RUV     47.13  93 iPd   24 32.40   0.0
         1.2s   110.70nm          5.8mb
GQP     52.36 307 eP    25 12.00  -0.6
BAG     55.33 308 eP    25 33.00  -1.6
LEM     55.47 275 ePd   25 26.50  -9.3X
CSY     57.37 202 eP    25 55.00   6.6X
         1.4s    10.50nm          4.7mb
SBA     58.06 179 eP    25 56.80   3.8X
WKYJ    59.90 334 P     26 05.90  -0.5
IIDJ    60.08 336 P     26 06.30  -1.3
CHJJ    60.18 337 eP    26 07.00  -1.2
TKSJ    60.37 332 P     26 09.30  -0.2
KUMJ    60.66 329 P     26 11.10  -0.4
TSRJ    60.88 335 eP    26 12.50  -0.5
MAT     60.91 337 iPc   26 11.40  -1.8
         1.0s    21.00nm          5.2mb
                 eS     34 40.00
MTMJ    61.09 337 P     26 13.10  -1.5
NIIJ    61.24 338 eP    26 14.80  -0.6
YONJ    61.64 332 P     26 17.60  -0.6
SHNJ    61.82 330 P     26 18.50  -0.9
SSE     64.83 321 P     26 38.50  -0.7
         1.0s    25.00nm          5.3mb
      Z  20s     0.50um          4.7Msz
NJ2     66.91 320 Pc    26 50.00  -2.6
         1.4s    20.00nm          5.1mb
      Z  20s     0.35um          4.6Msz
SPA     70.26 180 iPd   27 11.20  -1.9
         1.0s     7.50nm          4.8mb
DL2     70.29 327 eP    27 13.00  -0.4
         1.0s   130.00nm          6.0mb
TIA     70.83 322 eP    27 16.60  -0.2
NST     71.42 295 eP    27 22.00   1.2
SNY     71.54 330 Pd    27 20.60  -0.3
         1.0s    18.00nm          5.1mb
      Z  20s     0.48um          4.8Msz
GYA     71.68 308 P     27 22.00  -0.3
CN2     72.23 332 Pc    27 24.80  -0.2
         1.2s    50.00nm          5.5mb
      Z  17s     0.48um          4.8MszX
                 epP    27 29.00  14km
CHTO    73.89 297 iPc   27 36.30   1.0
         0.9s    20.46nm          5.2mb
KMI     73.93 305 Pc    27 37.00   1.3
         1.4s   130.00nm          5.8mb
BJI     74.02 324 eP    27 36.00   0.4
         1.5s    48.00nm          5.3mb
      Z  20s     0.60um          4.9Msz
                 eS     37 06.00
XAN     74.51 316 P     27 38.00  -0.7
         1.0s    13.00nm          4.9mb
                 pP     27 46.00  26kmX
                 sP     27 50.00
TIY     74.61 320 eP    27 39.50   0.3
      Z  22s     0.77um          5.0Msz
CD2     76.27 310 P     27 49.20   0.4
         1.0s    34.00nm          5.4mb
HHC     77.17 322 P     27 54.60   1.0
         1.4s    37.00nm          5.3mb
BTO     77.90 321 eP    27 58.00   0.3
LZH     79.08 315 Pc    28 05.50   1.1
         1.5s    82.00nm          5.5mb
      Z  20s     0.35um          4.7Msz
SHL     82.76 300 iP    28 25.00   1.0
                eS     38 44.00
GTA     83.57 316 iPc   28 28.80   1.0
         1.0s    40.00nm          5.6mb
                 pP     28 36.20  23km
                 sP     28 40.20
LSA     85.15 304 iPd   28 38.00   1.6
         1.4s    23.00nm          5.2mb
YAK     85.87 345 iPc   28 38.20  -0.4
         1.9s   123.00nm          5.8mb
SVW     87.17  19 eP    28 46.40   1.3
         1.1s    86.02nm          5.9mb
                 e      28 50.83  14km
NVL     87.44 189 eP    28 47.00   0.6
      Z  17s     0.50um          5.0MszX
      N  17s     0.40um
                 e      39 25.00
ZAK     87.61 326 iPc   28 47.50   0.2
         2.0s    66.00nm          5.6mb
PMR     89.59  21 eP    28 56.00  -0.6
KMPM    90.17  47 eP    29 01.65   1.8
SAO     90.51  51 eP    29 02.50   1.1
         1.1s    26.71nm          5.4mb
                 e      29 06.48  12km
COE     90.55  50 eP    29 03.22   1.7
ARN     90.69  50 eP    29 02.82   0.6
                 e      29 08.29  17km
BCH     90.87  53 eP    29 04.53   1.3
WDC     91.33  47 eP    29 06.15   1.1
         1.3s    32.17nm          5.5mb
                 e      29 10.98  15km
ABL     91.39  53 eP    29 07.03   1.2
IMA     91.58  16 eP    29 06.40   0.5
         1.5s    19.60nm          5.2mb
ORV     91.62  48 eP    29 07.31   0.9
                 e      29 11.70  14km
                 e      29 41.55
CMB     91.80  50 eP    29 07.90   0.5
         1.1s    10.75nm          5.1mb
                 e      29 12.52  14km
LBFM    92.09  47 ePd   29 09.94   1.1
ISA     92.27  53 eP    29 10.25   0.6
         1.2s    25.34nm          5.5mb
                 e      29 15.26  16km
SSK     92.31  55 eP    29 10.75   0.8
                 e      29 14.78  13km
FBA     92.38  19 eP    29 08.17  -1.2
         1.1s    14.08nm          5.3mb
PEC     92.60  55 eP    29 11.70   0.6
         1.1s    36.99nm          5.7mb
                 e      29 15.76  13km
PLM     92.63  56 eP    29 12.23   0.8
BONR    93.28  51 eP    29 15.55   1.0
                 e      29 19.13  11km
BMW     93.38  42 eP    29 15.92   1.4
GSC     93.39  54 eP    29 15.68   0.9
WMQ     93.65 315 P     29 16.00   0.2
GLA     94.10  56 eP    29 19.34   1.3
                 e      29 23.24  12km
GMW     94.11  41 eP    29 18.88   1.1
TIK     94.26 350 eP    29 18.00   0.1
         0.9s     9.00nm          5.2mb
                 e      29 21.00   9km
RMW     94.68  41 eP    29 21.29   0.8
                 e      31 40.53 652kmX
NDI     96.02 298 eP    29 37.00  10.1X
MSU     97.99  52 eP    29 37.05   1.2
LRM    100.10  45 ePdiff29 45.40   0.0
PV10   100.29  53 ePdiff29 49.10   2.6X
DAG    123.05   1 ePKP  34 55.00  -0.2
OBN    126.85 325 ePKP  34 50.00 -13.2X
      Z  20s     0.30um          5.0Msz
                 i      35 04.00
KAF    128.44 336 ePKP  35 05.90  -0.1
APO    133.95 340 ePKP  35 15.80  -0.7
```

10d 07h

```
        0.4s     2.30nm
NB2   134.42 341 PKP   35 16.20  -1.3
        1.0s     6.00nm
SPC   138.46 324 ePKP  35 25.30  -0.4
KSP   139.62 328 ePKP  35 27.60   0.2
ZST   140.74 324 ePKP  35 29.40  -0.1
BRG   140.75 329 iPKP  35 30.40   0.9
        1.1s    16.00nm
CLL   140.90 330 ePKP  35 29.00  -0.7
PRU   141.03 328 PKP   35 29.70  -0.3
KHC   142.05 327 ePKP  35 31.50  -0.4
        1.2s     7.50nm
                  e    35 40.00
                  e    37 23.00
                  e    38 34.50
GEC2  142.17 327 PKP   35 27.10  -5.1X
        0.8s     0.50nm
                  e    35 31.80
BCAO  142.42 251 iPKPd 35 30.00  -3.6X
        1.0s    10.00nm
GRF   142.84 330 ePKP  35 30.00  -3.2X
                  e    35 33.80
EKA   143.14 347 PKPc  35 32.70  -0.8
        0.6s     3.00nm
KBA   143.46 325 iPKPc 35 30.60  -4.0X
        1.1s    10.60nm
                  i    35 35.40
FUR   143.84 328 ePKP  35 33.00  -2.0X
WATA  144.23 327 iPKPc 35 33.40  -2.5X
WTTA  144.25 326 iPKPd 35 33.50  -2.4X
        1.5s    76.90nm
MOTA  144.47 327 iPKPc 35 34.40  -1.9
        1.0s    32.80nm
SQTA  144.50 327 iPKPc 35 34.60  -1.7
        1.2s    37.80nm
OGA   144.82 326 iPKPc 35 36.30  -0.7
HOFF  144.88 331 PKP   35 36.45  -0.2
LANF  144.92 332 PKP   35 36.22  -0.6
UCC   144.93 337 PKP   35 37.00   0.3
SRBF  144.95 331 PKP   35 36.65  -0.1
WLF   145.12 334 iPKPc 35 37.24   0.2
        1.5s    92.00nm
WME   145.19 347 ePKP  35 36.00  -1.0
SNF   145.19 336 iPKPc 35 36.66  -0.5
STR   145.23 331 PKP   35 37.75   0.5
YRC   145.38 347 ePKP  35 36.40  -0.9
OSS   145.40 327 ePKPc 35 38.30   0.4
DOU   145.41 336 PKP   35 37.60   0.1
SLE   145.48 330 iPKPc 35 37.90   0.1
WLS   145.54 331 PKP   35 38.20   0.3
CDF   145.58 331 PKP   35 38.20   0.2
LIBD  145.62 331 PKP   35 38.41   0.5
FEL   145.63 330 PKP   35 38.31   0.1
DLF   145.72 349 iPKPc 35 38.00   0.1
        1.0s   128.00nm
ZLA   145.73 329 ePKPc 35 38.40   0.1
ECH   145.77 331 PKP   35 38.62   0.3
YRH   145.78 347 ePKP  35 37.80  -0.3
DCN   145.80 350 iPKPc 35 38.40   0.3
        1.0s   255.00nm
VDL   145.88 327 ePKPc 35 39.40   0.7
MOF   146.05 331 PKP   35 39.95   1.1
BBS   146.16 330 PKP   35 39.50   0.5
VITF  146.30 332 PKP   35 40.27   1.2
TMA   146.44 327 ePKPc 35 40.90   1.3
LOMF  146.56 330 PKP   35 40.81   1.2
MMK   146.94 328 iPKPc 35 42.90   2.4X
DIX   147.19 328 iPKPc 35 43.60   2.6X
EMS   147.44 329 ePKPc 35 43.90   2.7X
LPL   147.93 328 ePKP  35 41.30  -0.8
        1.4s    31.35nm
LPG   147.93 328 ePKP  35 41.90  -0.3
        1.1s    22.95nm
LOR   147.94 333 ePKP  35 41.20  -0.6
        1.2s    49.40nm
      Z  22s     0.17um         4.8Msz
LBF   148.11 333 ePKP  35 41.40  -0.7
        1.7s    61.00nm
SSF   148.25 333 ePKP  35 41.80  -0.5
        1.1s    50.05nm
FLN   148.35 339 ePKP  35 41.60  -0.7
        1.3s    86.30nm
      Z  22s     0.15um         4.7Msz
SMF   148.44 332 ePKP  35 42.00  -0.6
        1.5s    65.30nm
AVF   148.53 333 ePKP  35 42.20  -0.5
        1.4s    46.20nm
SAOF  148.56 325 PKP   35 45.31   2.4X
AUTN  148.62 325 PKP   35 44.88   1.6
PGF   148.68 322 PKP   35 45.53   2.3X
TOUF  148.71 326 PKP   35 46.85   3.5X
SBF   148.71 325 PKP   35 46.85   3.7X
AURF  148.75 325 PKP   35 46.42   3.1X
BGF   148.93 333 ePKP  35 42.80  -0.6
        1.4s    55.35nm
SSB   149.16 330 PKP   35 48.50   4.7X
LPF   149.17 339 ePKP  35 44.00   0.4
        1.3s   166.80nm
MAF   149.31 333 ePKP  35 44.40   0.4
        1.4s    53.15nm
COLF  149.37 331 PKP   35 49.22   5.1X
TCF   149.41 334 ePKP  35 43.70  -0.5
        1.3s    83.05nm
LSF   149.72 335 ePKP  35 43.90  -0.7
        1.3s    74.00nm
      S.D. = 0.9  on 153 of 179 obs.
-----------------------------------
%  OCT  10, 1993  08h 59m 11.81± 1.17s
   39.109 N ± 7.4km   27.669 E ±14.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.8 (ISK).

IZM      0.78 204 ePg   59 27.00   0.0
                  eSg   59 40.30
EDC      1.25   7 ePn   59 35.10   0.2
BNT      1.26   9 iPn   59 35.00  -0.2
EZN      1.26 305 ePn   59 35.20   0.0
KGT      1.37 348 iPn   59 37.00   0.1
      S.D. = 0.2  on   5 of   5 obs.
-----------------------------------
%  OCT  10, 1993  09h 09m 54.79± 1.27s
   39.128 N ± 7.7km   27.746 E ±15.4km
   DEPTH =   5.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.7 (ISK).

IZM      0.82 208 ePg   10 11.20   0.0
                  eSg   10 22.30
EDC      1.22   4 ePn   10 18.10   0.1
BNT      1.23   6 ePn   10 18.00  -0.2
EZN      1.30 303 iPn   10 19.30   0.0
KGT      1.37 346 iPn   10 20.50   0.1
      S.D. = 0.2  on   5 of   5 obs.
-----------------------------------
*  OCT  10, 1993  09h 37m 47.88± 1.33s
   13.981 N ±18.0km   93.021 W ± 7.3km
   DEPTH =  33.0km  (normal)
   4.2mb (  6 obs.)
 OFF COAST OF CHIAPAS, MEXICO      ( 68)
      MD 4.7 (GCG).

TPX      1.18  39 iP    38 08.50   0.4
                  iS    38 25.50
BVA      2.41  73 ePc   38 26.36   0.3
IXG      2.50  85 eP    38 27.27   0.0
SCX      2.76   8 eP    38 33.25   2.5
                  (S)   39 04.50
YUP      3.13  86 eP    38 36.26   0.0
OXX      4.72 311 (P)   38 58.50  -0.3
LVVM     6.60 331 (P)   39 24.50  -0.6
IIT      7.13 315 (P)   39 34.50   1.7
PPM      7.38 314 eP    39 37.00   0.4
III      7.58 306 (P)   39 38.50  -0.6
UNM      7.95 313 (P)   39 59.00  14.7X
MRX      9.67 307 (P)   40 08.00   0.1
UYO     20.14 357 iPc   42 19.70  -2.4
MIAR    20.48 359 eP    42 23.00  -2.6
        0.8s     7.05nm         4.1mb
WMOK    21.31 347 eP    42 33.22  -0.9
        0.9s     7.99nm         4.1mb
MEO     21.31 347 iPd   42 33.20  -0.9
TUL     21.98 354 iP    42 41.40   0.6
TUC     24.42 321 eP    43 06.70   1.9
        1.0s     5.49nm         4.1mb
                  epP   43 15.71  32kmX
PV08    28.13 333 (P)   43 40.22   0.8
PLM     29.01 316 (P)   43 46.35  -0.8
                  epP   43 58.05  44kmX
ARUT    29.86 326 eP    43 55.59   0.8
LRM     35.73 337 eP    44 46.30   0.5
                  e     44 53.70
YKA     50.82 347 eP    46 45.50  -1.5
        0.8s     5.30nm         4.6mb
INK     60.18 344 eP    47 54.00  -0.5
        1.0s     3.00nm         4.4mb
NB2     84.63  28 P     50 20.30   1.0
        0.8s     2.10nm         4.4mb
GBA    151.01  19 PKP   57 42.00   8.2X
      S.D. = 1.3  on  24 of  26 obs.
-----------------------------------
?  OCT  10, 1993  10h 10m 41.79± 0.91s
   21.569 S ±14.0km   67.257 W ±26.5km
   DEPTH = 200.0km  (geophysicist)
 CHILE-BOLIVIA BORDER REGION       (124)

HJA      2.37 134 iPd   11 24.20  -0.4
                  S     11 56.50
SLA      3.54 153 iPd   11 38.90   0.4
CNCB     4.78 352 iPc   11 55.00   0.4
                  S     12 52.00
LPB      5.07 351 iP    11 58.80   0.6
        0.5s    35.21nm         4.8mb X
                  S     12 58.00
LPAZ     5.32 351 iPc   12 00.80  -0.8
                  S     13 01.50
ARE      6.47 321 eP    12 16.00  -0.2
                  eS    13 29.00
      S.D. = 0.7  on   6 of   6 obs.
-----------------------------------
   OCT  10, 1993  10h 15m 17.85± 0.42s
   36.318 N ± 5.2km  137.703 E ± 4.4km
   DEPTH =   5.0km  (geophysicist)
   3.8mb (  1 obs.)
 EASTERN HONSHU, JAPAN             (227)

MTMJ     0.28  17 iP+   15 22.60  -0.9
MAT      0.47  61 iPc   15 27.10  -0.1
                  iS    15 33.80
IIDJ     0.85 168 iPd   15 34.40  -0.4
                  S     15 46.30
CHJJ     1.08 104 iPd   15 38.10  -0.5
                  S     15 53.10
NIIJ     1.39  48 iP+   15 43.00  -0.9
                  eS    16 02.40
TSRJ     1.60 241 iP+   15 46.60  -0.2
                  S     16 08.20
KAKJ     2.00  93 iP+   15 53.30   0.7
                  S     16 19.80
YAMJ     2.63  44 P     16 02.40   0.8
                  eS    16 37.60
WKYJ     2.71 220 P     16 02.60  -0.4
YONJ     3.63 253 P     16 15.70  -0.2
TKSJ     3.79 233 P     16 19.10   0.9
OFUJ     4.18  48 P     16 24.80   1.1
BJI     17.32 289 eP    19 22.00   0.1
        1.5s    12.00nm         3.8mb
      S.D. = 0.7  on  13 of  13 obs.
-----------------------------------
   OCT  10, 1993  10h 16m 25.01± 0.90s
    5.659 S ± 7.8km  153.932 E ± 7.5km
   DEPTH =  84.5 ±  9.5 km
   5.1mb (  7 obs.)
 NEW IRELAND REGION, P.N.G.        (190)

RAB      2.29 310 e(P)  17 01.00  -0.5
                  iS    17 42.00
KVG      4.36 314 eP    17 30.00  -0.2
HNR      7.04 123 eP    18 09.00   1.6
                  eS    18 27.00
PMG      7.68 241 iPd   18 15.00  -1.2
                  eS    19 44.00
CTA     16.17 207 iPd   20 09.50   0.9
        2.0s   323.53nm         5.2mb
                  i     20 17.00
                  i     20 29.50
BKM     18.39 132 iPd   20 30.90  -5.1X
DZM     20.31 145 iPc   20 54.90  -1.8
QIS     20.32 222 iPd   20 56.10  -0.6
GUA     21.07 335 e(P)  21 15.20  10.9X
        1.2s   225.00nm
                  e     21 18.90
GUMO    21.13 335 e(P)  21 23.50  18.5X
        1.2s   225.70nm
MTN     23.60 251 eP    21 30.50   1.4
WR2     23.74 231 eP    21 31.30   0.7
        1.0s    11.30nm         4.2mb
                  e     21 40.70
                  eS    25 17.30
                  iPcP  25 26.50
ARMA    24.73 185 iPd   21 40.90   0.8
```

```
       0.8s    48.00nm          5.0mb
ASPA   26.31 225 eP    21 54.80   0.0
       1.0s     9.60nm          4.3mb
     Z  24s     0.90um          4.2MszX
                e     22 09.00
URZ    38.68 150 P     23 42.10  -0.1
                e     23 57.90
PUZ    39.12 149 P     23 45.20  -0.6
                e     23 59.50
NOZ    39.42 150 P     23 48.00  -0.3
BAG    39.61 304 ePc   23 50.20  -0.2
MRWA   42.80 232 eP    24 15.90  -0.3
NST    57.32 293 eP    26 07.50   0.7
CHTO   59.37 296 iPc   26 21.40   0.2
       1.0s    28.00nm          5.3mb
LZH    62.63 316 eP    26 43.50   0.4
       1.4s    90.00nm          5.6mb
     Z  15s     0.48um          4.8MszX
                pP    26 55.00  39kmX
YAK    70.02 348 eP    27 45.00  15.7X
       1.8s    47.00nm
SPA    84.38 180 iPc   28 48.00  -1.0
       0.9s    32.73nm          5.3mb
BUL   120.47 243 iPKPd 35 23.90  14.6X
GEC2  125.37 329 PKP   35 33.30  15.4X
       1.0s     1.16nm
                e     35 36.90
                e     35 44.80
BCAO  135.56 271 ePKPc 35 43.90   5.7X
       0.5s     3.00nm
     S.D. = 0.9  on  20 of  27 obs.
-----------------------------------
&  OCT  10, 1993  10h 19m 32.76s
   61.311 N          149.917 W
   DEPTH =  38.2km
   4.3mb (  5 obs.)
 SOUTHERN ALASKA                  (  2)
      <AEIC>. ML 4.5 (AEIC), 4.3
      (PMR). Felt (IV) at Anchorage,
      Chugiak, Eagle River, Girdwood,
      Palmer, Wasilla and Willow. Felt
      (III) at Fort Richardson. Felt
      throughout much of south-central
      Alaska.

PMS     0.18 111 P     19 39.90   0.1
PWA     0.34   3 P     19 40.70  -0.6
SUA     0.43 291 iPd   19 42.17  -0.4
                eS    19 50.53
PLRM    0.47  53 iPc   19 42.10  -0.9
PMR     0.47  53 iPc   19 41.78  -1.2
PTE     0.62 136 iPc   19 44.42  -0.7
                eS    19 53.93
GHO     0.66  45 iPc   19 44.87  -0.9
KNK     0.71  81 iPc   19 45.67  -0.7
SLKM    0.82 191 iPc   19 46.81  -1.1
NKA     0.86 229 iPd   19 49.22   0.8
MPA     0.87 162 iPc   19 47.63  -1.0
PWL     0.89 120 ePc   19 48.20  -0.8
                eS    20 00.84
SML     0.91  56 iPc   19 48.22  -1.0
CGLM    1.01 271 iPd   19 49.97  -0.7
SKT     1.02 312 iPd   19 50.09  -0.7
                eS    20 03.59
SPU     1.04 264 eP    19 50.05  -1.1
                eS    20 04.45
CFI     1.05  96 iPc   19 50.49  -0.6
                eS    20 05.64
CRP     1.08 269 iPd   19 50.61  -1.2
NCG     1.08 276 iPc   19 51.32  -0.4
                eS    20 06.07
CKN     1.10 266 eP    19 51.25  -0.7
CUT     1.11 351 iPc   19 51.28  -0.7
CKT     1.11 265 iPd   19 51.28  -0.9
CP2     1.12 269 eP    19 50.63  -1.8
BKG     1.16 259 iPd   19 51.94  -0.9
CKL     1.18 265 eP    19 52.34  -0.8
BGL     1.20 269 iPc   19 52.70  -0.7
SEW     1.23 169 eP    19 52.23  -1.5
                eS    20 10.20
SCM     1.35  66 iPd   19 54.81  -0.7
RDT     1.42 240 iPc   19 55.62  -0.9
DFR     1.53 243 iPc   19 57.28  -0.9
REF     1.59 240 iPc   19 58.25  -0.8
BRLK    1.62 198 eP    19 58.24  -1.1
RSO     1.63 240 eP    19 58.80  -0.8
RS2     1.63 240 iPc   19 58.80  -0.8
RDW     1.64 241 iPc   19 58.93  -0.8
NCT     1.65 244 iPc   19 59.12  -0.7
                eS    20 20.03
RED     1.66 239 iPc   19 59.11  -0.8
                eS    20 19.78
HUR     1.68   4 ePc   19 59.79  -0.4
                eS    20 21.33
VLZ     1.74  94 iPd   19 59.92  -1.1
                eS    20 21.58
HOM     1.87 208 eP    20 02.03  -0.8
CNPM    1.91 201 eP    20 02.06  -1.4
                eS    20 25.18
HIN     1.91 117 iPd   20 01.46  -2.0
KLU     1.93  83 iPd   20 02.50  -1.4
ILIM    1.94 232 iPc   20 03.20  -0.8
TOA     1.95  64 P     20 03.90  -0.3
INE     1.99 232 ePc   20 03.84  -1.0
DHY     2.14  33 eP    20 05.92  -1.0
TRF     2.16 356 ePc   20 06.03  -1.2
RND     2.16  13 ePc   20 06.22  -1.0
                eS    20 32.39
CVA     2.17 109 iPd   20 05.18  -2.1
TZL     2.27  69 iPd   20 07.81  -0.8
KTH     2.30 349 ePc   20 08.08  -1.0
OPT     2.34 226 eP    20 08.99  -0.6
SDG     2.40  58 ePd   20 09.67  -0.9
MCK     2.47  10 eP    20 10.99  -0.5
MID     2.59 135 P     20 13.60   0.4
AUE     2.61 223 eP    20 12.25  -1.1
PDB     2.61 236 eP    20 11.79  -1.6
AUL     2.61 224 eP    20 13.72   0.3
AUP     2.62 223 (P)   20 12.20  -1.5
AGU     2.62 223 eP    20 13.83   0.1
AUH     2.62 223 eP    20 13.47  -0.3
AUW     2.63 224 eP    20 12.65  -1.1
AUI     2.64 223 eP    20 13.32  -0.6
PAX     2.67  49 eP    20 13.68  -0.8
SVW     2.77 268 iPc   20 13.91  -1.9
THY     2.87  41 eP    20 17.76   0.5
BWN     2.88   4 eP    20 16.17  -1.1
HMT     2.94 107 eP    20 15.22  -2.9
GLB     2.94  85 iPd   20 15.99  -2.3
                eS    20 50.09
CDD     3.03 220 eP    20 18.19  -1.3
WRH     3.28  14 eP    20 22.12  -0.8
TTA     3.29 302 iPc   20 21.06  -2.1
NEA     3.30   6 eP    20 22.15  -1.1
CRQM    3.34  97 eP    20 21.53  -2.5
DJE     3.35  34 eP    20 22.53  -1.5
HDA     3.39  22 eP    20 23.69  -0.8
CCB     3.48  15 eP    20 24.13  -1.7
TGL     3.49  96 eP    20 23.35  -2.8
DOT     3.59  47 eP    20 26.11  -1.3
BALM    3.68  91 ePd   20 25.98  -2.7
                eS    21 08.15
FBA     3.73  14 eP    20 27.22  -2.1
IL1     3.74  20 eP    20 27.91  -1.5
ILB     3.74  20 eP    20 28.29  -1.2
MDM     3.74  11 eP    20 27.53  -2.0
MLY     3.75 355 eP    20 27.48  -2.2
KDC     3.81 201 eP    20 28.14  -2.2
TMW     3.81  55 eP    20 28.99  -1.5
GLM     3.86  16 eP    20 29.67  -1.7
YAH     4.11 100 eP    20 31.93  -3.1
CTGM    4.18  91 eP    20 33.59  -2.2
BC3     4.20  62 ePd   20 33.97  -2.1
CHX     4.50 102 eP    20 37.29  -3.1
PRP     4.66  23 eP    20 41.97  -0.7
PCA     4.90 100 eP    20 42.29  -3.7
IM3     4.99 342 eP    20 44.11  -3.1
IMA     5.06 342 eP    20 45.18  -3.1
BCPM    5.24 101 eP    20 46.95  -3.8
PNL     5.46 103 eP    20 49.87  -3.9
HQN     5.78 104 eP    20 53.75  -4.6
BM3     6.55  18 eP    21 06.88  -2.3
SDN     8.17 228 eP    21 30.68  -1.0
SIT     8.61 113 eP    21 32.36  -5.4
INK     9.87  38 eP    22 00.50   5.4
       0.8s     4.00nm          4.7mb X
YKA    16.55  70 eP    23 21.60  -1.7
       0.6s     5.40nm          3.9mb
BMW    21.41 122 eP    24 16.42  -2.7
NEW    22.68 110 eP    24 30.54  -1.2
       1.1s    15.32nm          4.4mb
VGB    23.20 120 eP    24 36.10  -0.7
RES    23.38  33 eP    24 39.00   0.8
LRM    26.63 108 eP    25 06.90  -2.6
HVU    29.65 114 eP    25 34.48  -2.3
BONR   30.54 125 eP    25 42.95  -1.9
ULM    31.41  86 eP    25 51.50  -0.5
RSSD   31.83 101 eP    25 53.40  -2.6
       0.6s    10.20nm          4.9mb
MSU    32.59 117 eP    26 00.60  -2.1
ARUT   32.67 119 eP    26 00.64  -2.6
SRU    32.82 114 eP    26 01.96  -2.6
GSC    33.44 126 eP    26 07.97  -1.9
PEC    34.54 127 eP    26 16.86  -2.5
       0.6s     3.77nm          4.5mb
PLM    35.13 128 eP    26 22.34  -2.3
JAQ    38.45  67 eP    26 48.00  -4.1
LTX    44.09 115 eP    27 35.08  -3.6
PRM    50.10  91 eP    28 21.46  -4.2
JSC    50.47  90 eP    28 24.35  -4.2
GEC2   69.41  11 P     30 34.20  -4.2
       0.8s     0.82nm          3.8mb
     125 obs. associated
-----------------------------------
   OCT  10, 1993  10h 21m 35.96± 0.36s
   43.289 N ± 3.0km  110.973 W ± 6.1km
   DEPTH =   5.0km  (geophysicist)
 WYOMING                          (460)
      ML 2.8 (GS), 3.1 (BUT).

PTI     1.11 248 eP    21 56.65  -0.7
                eS    22 12.33
LTMT    1.48 327 ePn   22 02.13  -1.5
TPMT    1.52 341 ePnd  22 02.82  -1.4
HVU     2.01 222 eP    22 11.30   0.2
MCMT    2.05 319 ePn   22 11.55  -0.2
BGMT    2.09 339 iPnd  22 12.13  -0.2
MEMT    2.31   0 ePn   22 16.16   0.6
LRM     2.74 338 ePn   22 22.68   1.0
HBMT    2.76 336 ePn   22 22.66   0.7
SXM     2.87 357 ePn+  22 24.78   1.4
DAU     2.88 184 eP    22 24.62   0.9
BUT     2.95 338 ePg   22 33.60   9.1X
                eSg   23 05.50
DUG     3.38 205 eP    22 30.34  -0.3
EMUT    3.47 178 eP    22 32.79   0.8
HRY     3.48 350 ePn   22 32.15   0.2
SRU     4.19 175 eP    22 42.19   0.1
MSU     4.86 191 (P)   22 51.86   0.2
PV09    4.98 163 ePn   22 53.42  -0.1
                ePg   23 06.19
PV08    5.03 159 (Pn)  22 53.75  -0.4
                ePg   23 07.84
RSSD    5.10  78 ePn   22 53.92  -1.1
                ePg   23 05.27
PV10    5.12 163 (Pn)  22 55.17  -0.3
                ePg   23 09.50
     S.D. = 0.8  on  20 of  21 obs.
-----------------------------------
   OCT  10, 1993  10h 44m 08.15± 1.15s
   34.317 N ±10.2km  139.098 E ± 6.6km
   DEPTH =  26.3 ±  5.9 km
   4.5mb (  7 obs.)  3.8Msz (  1 obs.)
 NEAR S. COAST OF HONSHU, JAPAN  (230)

IIDJ    1.52 320 iP+   44 34.60   0.8
                eS    44 55.90
CHJJ    1.73 357 P     44 37.10   0.2
KAKJ    2.08  25 iPd   44 40.70  -1.2
MAT     2.34 342 eP    44 47.00   1.4
                eS    45 11.00
MTMJ    2.50 335 P     44 49.30   1.3
                S     45 25.00
TSRJ    2.83 296 P     44 52.70   0.1
                S     45 29.30
WKYJ    2.90 269 P     44 53.60  -0.1
                eS    45 28.20
NIIJ    2.92 358 eP    44 54.30   0.5
YAMJ    3.92  11 P     45 07.70  -0.4
TKSJ    4.20 267 P     45 12.40   0.3
                eS    46 00.00
YONJ    4.72 282 P     45 19.10  -0.4
                eS    46 14.70
OFUJ    5.18  23 P     45 23.90  -2.1
SHNJ    6.62 271 eP    45 45.80  -0.4
KUMJ    7.14 258 P     45 53.30  -0.2
KAGJ    7.59 248 P     45 59.40  -0.4
CRP    50.48  36 (P)   53 03.77  -2.0
WR2    54.15 185 eP    53 28.70  -4.6X
       0.6s     5.20nm          4.7mb
                i     53 32.10
```

10d 10h

```
GBA     59.12 266 P     54 09.00   0.0
RES     65.69  14 eP    54 54.50   2.6
        0.9s     2.00nm          4.2mb
YKA     67.10  29 eP    55 01.70   0.6
        0.8s     2.70nm          4.4mb
KAF     69.85 332 eP    55 16.50  -1.6
GMW     70.51  45 eP    55 22.94   0.5
NEW     73.40  43 eP    55 39.90   0.2
        1.2s    12.88nm          4.8mb
HFS     75.77 335 eP    55 51.60  -1.4
        1.3s    26.00nm          5.1mb
      Z  19s     0.05um          3.8Msz
                  LR    22 00.00
NB2     75.94 337 P     55 53.20  -0.9
        0.9s     3.60nm          4.4mb
LRM     77.41  43 ePd   56 03.20   0.4
DAU     81.38  47 (P)   56 25.41   1.0
MSU     81.98  49 eP    56 28.35   0.9
CLL     82.48 329 eP    56 29.00  -0.4
KHC     83.84 327 eP    56 36.50  -0.1
PV09    83.86  47 eP    56 37.46   0.3
                e       56 53.55
PV10    83.99  47 eP    56 38.40   0.6
GEC2    84.00 327 P     56 37.00  -0.4
        0.8s     1.02nm          4.1mb
PV08    84.10  47 eP    56 38.97   0.5
GRF     84.45 329 eP    56 39.80   0.2
LPAZ   149.68  61 PKP   03 58.00   4.5X
                  LR    20 54.00
LPB    149.86  61 ePKP  03 56.00   2.5X
CNCB   150.13  61 PKP   03 59.80   5.8X
     S.D. = 1.0  on  34 of  38 obs.
-----------------------------------
?  OCT  10, 1993  10h 57m 11.28± 1.20s
   39.126 N ± 7.4km   27.484 E ±16.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
     ML 2.8 (ISK).

IZM      0.75 193 ePg   57 26.00   0.1
                  eSg   57 37.70
EZN      1.14 308 ePn   57 32.30  -0.2
EDC      1.25  13 ePn   57 34.10  -0.5
KGT      1.33 354 ePn   57 36.50   0.7
     S.D. = 0.9  on   4 of   4 obs.
-----------------------------------
*  OCT  10, 1993  11h 12m 03.12± 3.12s
   31.799 S ±19.7km   71.558 W ±21.9km
   DEPTH =  33.0km  (normal)
 NEAR COAST OF CENTRAL CHILE       (135)
     MD 3.9 (SAN).

JACH     1.20 137 iPd   12 23.69  -0.1
                  iS    12 39.43
ROCH     1.26 159 iP+   12 25.03   0.3
                  iS    12 41.75
PEL      1.53 151 iPd   12 28.65   0.2
                  iS    12 47.74
LCCH     1.67 180 iP    12 30.71   0.2
FCH      1.86 145 eP    12 33.21  -0.4
TACH     1.92 164 iP+   12 34.19   0.1
                  iS    12 58.66
PCH      2.02 154 eP    12 35.49  -0.1
LNV      2.15 177 iPd   12 36.81  -0.6
CACH     2.45 161 iP    12 42.00   0.2
ZON      2.47  85 eP    12 42.00   0.0
                  eS    13 10.00
     S.D. = 0.3  on  10 of  10 obs.
-----------------------------------
?  OCT  10, 1993  11h 17m 04.39± 1.11s
   28.756 N ±10.5km   34.620 E ± 9.4km
   DEPTH =  10.0km  (geophysicist)
   3.7mb (  2 obs.)
 EGYPT                             (553)

SRFA     0.53  71 iPc   17 14.33  -0.7
HQL      0.64  36 eP    17 17.33   0.2
AYN      1.22  84 eP    17 27.87   0.9
WAJH     3.10 146 eP    17 54.00  -0.2
GEC2    25.70 327 P     22 37.20   0.9
        0.8s     0.58nm          3.3mb
                  e     22 39.70
HFS     34.43 342 eP    23 52.70  -1.1
        0.4s     1.00nm          4.0mb
     S.D. = 1.1  on   6 of   6 obs.
-----------------------------------
*  OCT  10, 1993  11h 17m 33.40± 0.83s
   17.122 S ±11.9km  167.268 E ± 9.5km
   DEPTH =  33.0km  (normal)
   4.3mb (  5 obs.)  3.5Msz (  1 obs.)
 VANUATU ISLANDS                   (186)

BKM      1.08 120 iPc   17 52.00  -0.2
                  iS    18 06.00
PVC      1.17 122 iPc   17 53.50   0.0
                  iS    18 08.00
DZM      4.98 189 iPd   18 45.50  -2.5
                  iS    19 40.00
HNR     10.45 316 eP    20 03.00  -1.0
                  eS    20 10.00
BRS     16.85 230 iPc   21 28.50   0.0
ARMA    19.47 224 iPc   22 02.70   2.1
        1.0s    14.00nm          4.2mb
CTA     20.13 258 iP    22 15.00   7.4X
BWA     24.12 221 iPd   22 47.30   0.0
CNB     24.14 218 iPc   22 49.70   2.2
        0.8s    54.00nm          5.1mb
WR2     31.30 260 eP    23 52.30  -0.6
        0.7s     1.60nm          4.0mb
WRA     31.32 260 P     23 52.80  -0.3
        0.5s     0.50nm          3.6mb
ASPA    31.89 253 eP    23 57.00  -1.2
        0.6s     6.90nm          4.7mb
      Z  20s     0.10um          3.5Msz
                  e     24 12.00
GEC2   141.75 332 PKP   37 20.00  16.5X
        0.7s     0.89nm
CDF    144.77 337 ePKP  37 08.80   0.2
        0.6s     2.45nm
SLE    144.82 335 ePKPc 37 22.30  13.7X
OSS    144.96 332 ePKPd 37 23.30  14.2X
VDL    145.41 333 ePKPd 37 24.50  14.6X
HAU    145.46 337 ePKP  37 11.00   1.3
        0.6s     3.45nm
TMA    145.97 333 ePKPd 37 25.70  14.9X
MMK    146.40 334 ePKPd 37 27.70  16.1X
DIX    146.61 334 ePKPd 37 28.30  16.3X
BCAO   146.87 251 iPKPd 37 19.10   6.1X
        0.8s    14.00nm
                  i     37 29.20
FLN    146.90 345 ePKP  37 16.10   4.1X
        0.9s     7.70nm
LDF    146.97 345 ePKP  37 16.00   3.9X
        1.1s    12.95nm
LBF    147.17 339 ePKP  37 17.80   5.2X
        0.7s     3.30nm
SSF    147.27 339 ePKP  37 16.50   3.8X
        0.5s     1.80nm
SMF    147.51 339 ePKP  37 19.20   6.1X
        1.0s     4.60nm
AVF    147.56 339 ePKP  37 19.20   6.1X
        0.8s     4.15nm
BGF    147.93 340 ePKP  37 18.30   4.6X
        0.6s     2.70nm
MAF    148.32 340 ePKP  37 19.30   4.9X
        1.0s     8.20nm
MFF    148.80 343 ePKP  37 22.90   7.8X
        0.7s     3.00nm
     S.D. = 1.4  on  13 of  31 obs.
-----------------------------------
*  OCT  10, 1993  11h 32m 07.47± 3.09s
   42.034 N ±19.7km   2.296 E ±16.5km
   DEPTH =  10.0km  (geophysicist)
 PYRENEES                          (378)
     ML 2.5 (LDG).

ETER     0.49  57 eP    32 24.50   7.0X
                  e     32 31.90
TRGS     0.53 333 Pg    32 17.71  -0.5
                  Sg    32 19.95
VDCF     0.56   5 Pg    32 19.29   0.5
                  Sg    32 23.20
MTHF     0.92  11 Pg    32 24.76  -0.3
SALF     1.09 312 Pg    32 28.62   0.5
EPF      1.76 305 Pg    32 42.60   4.4X
                  Sg    33 00.30
EGRA     1.95 276 eP    32 40.70  -0.2
                  e     32 58.70
CAF      2.90 357 Pg    33 00.20   5.7X
                  Sg    33 32.10
     S.D. = 0.7  on   5 of   8 obs.
-----------------------------------
   OCT  10, 1993  11h 44m 06.77± 0.23s
   10.895 S ± 4.9km  164.520 E ± 5.0km
   DEPTH =  32.4km  ( 27 depth phases)
   5.1mb ( 28 obs.)  4.9Msz ( 27 obs.)
 SANTA CRUZ ISLANDS REGION         (183)
      Mw 5.4 (HRV).
      CENTROID, MOMENT TENSOR      (HRV)
      Data Used: GDSN
      L.P.B.: 36S, 66C
      Centroid Location:
      Origin Time        11:44: 7.8 0.3
      Lat 10.71S 0.04 Lon 164.61E 0.03
      Dep  15.0 FIX Half-duration  1.1
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 0.87 0.03  Mtt=-0.71 0.04
        Mff=-0.16 0.04  Mrt= 1.09 0.12
        Mrf=-0.22 0.09  Mtf= 0.20 0.02
       Principal Axes:
        T  Val=  1.43  Plg=63  Azm=  9
        N       -0.10       2      104
        P       -1.33      27      195
      Best Double Couple:Mo=1.4*10**17
       NP1:Strike=291 Dip=18 Slip=  98
       NP2:        103     72       87

HNR      4.73 287 eP    45 18.00   0.3
                  eS    46 18.00
BKM      7.64 152 iPc   45 57.20  -1.5
DZM     11.26 171 iPd   46 46.00  -2.7
SVA     15.28 120 eP    47 42.20   0.4
PMG     17.15 273 eP    48 15.00   9.3X
BRS     19.78 212 iPd   48 38.00   0.6
                  eS    52 24.00
CTA     19.82 240 iPd-  48 37.50  -0.3
        1.6s   183.33nm          5.1mb
      Z  19s    14.93um          5.3Msz
                  i     48 50.00  58kmX
                  i     49 10.00
                  iS    52 20.00
ARMA    22.83 210 eP    49 11.10   2.8
        1.2s    40.00nm          4.8mb
STK     29.74 222 eP    50 12.80   0.3
        3.5s     6.70nm          3.8mb X
WB5     30.37 249 eP    50 16.90  -1.3
                  epP   50 26.00  31km
                  e     50 39.80
                  e     50 45.10
WR2     30.39 249 eP    50 16.40  -2.0
        1.1s     6.70nm          4.4mb
                  e     50 28.20  45kmX
GUA     31.11 321 eP    50 25.30   0.6
GUMO    31.17 321 eP    50 25.20  -0.1
        1.3s    84.60nm          5.4mb
      Z  22s     1.05um          4.5Msz
                  e     50 28.10  10kmX
                  eS    55 21.70
ASPA    31.79 242 eP    50 29.20  -1.5
        1.1s    10.90nm          4.6mb
      Z  23s     1.00um          4.4MszX
                  eS    55 19.50
ADE     33.56 220 e(P)  50 46.60   0.6
HON     48.79  49 P     53 00.00   9.0X
      Z  20s     0.49um          4.5Msz
BAG     51.24 301 eP-   53 10.00   0.0
IIDJ    52.54 333 eP    53 18.30  -1.1
WKYJ    52.61 330 eP    53 24.70   4.7X
TKSJ    53.20 328 eP    53 23.30  -1.0
MAT     53.29 334 eP    53 23.00  -1.9
                  eS    01 04.00
TSRJ    53.48 331 eP    53 45.20  19.0X
MTMJ    53.51 333 eP    53 25.80  -0.8
NIIJ    53.54 335 eP    53 36.30   9.6X
YONJ    54.45 329 eP    53 33.20  -0.2
DRV     58.11 191 eP    54 10.00  10.8X
                  S     02 10.00
SSE     58.91 317 eP    54 04.50  -0.8
        1.2s    15.00nm          5.0mb
      Z  20s     0.50um          4.6Msz
                  eS    02 12.00
YSS     60.85 343 eP    54 17.40  -0.9
NJ2     61.07 316 Pd    54 19.60  -0.5
      Z  18s     0.35um          4.6Msz
TIA     64.71 319 eP    54 44.00  -0.1
      Z  22s     0.94um          4.9Msz
      N  13s     0.43um
                  eS    03 26.00
CN2     65.00 330 eP    54 44.60  -1.2
        1.0s    11.00nm          4.9mb
      Z  18s     0.30um          4.5Msz
```

```
                 epP   54 53.00  27km
CSY    66.09 201 eP    54 57.20   4.7X
       1.2s     7.00nm          4.6mb
                 i     55 06.70  30km
GYA    67.34 305 P     55 01.80   0.5
       1.2s    20.00nm          5.1mb
BJI    67.61 322 eP    55 01.50  -1.1
       1.5s    12.00nm          4.8mb
     Z  24s     0.64um          4.8MszX
     N  14s     0.41um
                 eS    04 00.00
                 eSS   08 20.00
TIY    68.64 318 eP    55 10.10   1.0
     Z  16s     0.95um          5.1MszX
     N  15s     0.61um
     E  13s     0.31um
XAN    69.13 313 P     55 11.00  -1.2
       1.1s    12.00nm          4.9mb
     Z  20s     0.73um          4.9Msz
     E  14s     0.69um
                 pP    55 20.50  30km
                 sP    55 25.00
KMI    70.02 302 Pc    55 19.50   1.5
       1.5s    90.00nm          5.6mb
     Z  15s     0.70um          5.0MszX
                 pP    55 28.00  27km
HHC    70.94 320 P     55 24.00   0.8
       1.4s    25.00nm          5.1mb
     Z  18s     0.73um          5.0Msz
CD2    71.56 308 iPc   55 28.20   1.2
       1.2s    36.00nm          5.3mb
BTO    71.79 319 eP    55 29.00   0.7
     N  17s     0.75um
     E  15s     0.32um
                 esP   55 39.00
LZH    73.77 313 eP    55 41.00   0.9
       1.6s    68.00nm          5.4mb
     Z  15s     0.42um          4.8MszX
                 pP    55 51.00  32km
YAK    77.59 344 eP    56 02.00   1.0
       1.8s   105.00nm          5.6mb
GTA    78.09 314 eP    56 04.20  -0.2
       1.5s    39.00nm          5.2mb
     Z  16s     0.40um          4.8MszX
                 pP    56 15.00  35km
                 sP    56 20.00
                 eS    05 58.00
SVW    78.35  19 eP    56 05.74   0.5
       1.1s    82.08nm          5.7mb
SPA    79.17 180 iPd   56 00.00  -9.9X
       1.3s    73.33nm          5.5mb
SHL    79.39 299 iP    56 12.50   0.6
                 eS    06 13.20
ILT    79.51   6 iPc   56 21.80  10.5X
       1.6s    74.00nm
                 i     56 33.00  36km
                 eS    06 16.00
                 ePS   07 12.00
TTA    79.63  17 eP    56 12.72   0.4
       1.3s    31.83nm          5.2mb
PMR    80.83  21 P     56 30.00  11.5X
     Z  20s     0.50um          4.9Msz
ZAK    80.89 325 eP    56 19.00   0.0
       1.1s    14.00nm          4.9mb
                 e     56 28.70  31km
                 eS    06 34.00
BALM   82.95  23 (P)   56 30.97   1.2
FBA    83.56  19 ePc   56 31.52  -1.1
       1.2s    32.21nm          5.3mb
                 e     56 42.41  35km
ARN    84.09  50 eP    56 35.61  -0.4
                 e     56 46.68  36km
WDC    84.39  47 P     56 50.00  12.7X
     Z  18s     0.31um          4.7Msz
MAW    84.41 202 iPc   56 39.20   2.3
       1.6s    46.60nm          5.4mb
                 i     56 47.40  26km
BCH    84.54  53 (P)   56 38.39   0.0
                 e     56 48.83  33km
ORV    84.81  48 eP    56 38.96  -0.5
                 e     56 49.75  34km
LBFM   85.10  46 eP    56 40.30  -0.9
CMB    85.17  50 eP    56 39.95  -1.4
       1.3s    13.98nm          5.0mb
     Z  18s     0.61um          5.0Msz
                 e     56 51.77  39km
TIK    85.70 349 iPc   56 44.00   0.8
```

```
       2.0s    82.00nm          5.6mb
                 i     56 55.00  35km
ISA    85.94  53 eP    56 44.93  -0.4
       1.3s    14.66nm          5.1mb
     Z  18s     0.76um          5.1Msz
                 e     56 55.77  34km
MTUM   86.35  51 (P)   56 47.62   0.2
SHW    86.47  42 (P)   56 48.12   0.4
PEC    86.49  55 eP    56 47.24  -0.8
       1.5s    31.07nm          5.3mb
                 e     56 58.35  35km
GMW    86.57  40 eP    56 48.11   0.1
                 e     56 58.63  33km
PLM    86.59  55 ePc   56 48.33  -0.4
                 i     56 58.86  33km
BONR   86.72  51 eP    56 49.25  -0.1
                 e     57 00.37  35km
GSC    87.15  53 eP    56 51.14  -0.1
                 e     57 01.80  33km
WMQ    88.14 315 P     56 56.00   0.2
     Z  20s     0.05um          4.0Msz
ARUT   90.39  52 (P)   57 06.99   0.3
TUC    91.32  58 eP    57 12.02   1.1
       1.3s     6.96nm          4.9mb
     Z  18s     0.38um          4.9Msz
                 e     57 22.68  33km
DUG    91.41  49 P     57 20.00   8.7X
     Z  19s     0.35um          4.8Msz
MSU    91.53  51 eP    57 12.42   0.5
                 e     57 23.13  33km
HVU    91.80  48 eP    57 12.96  -0.1
LRM    92.92  44 eP    57 18.20   0.0
                 e     57 28.20  31km
                 e     57 36.90
PV10   93.91  52 eP    57 23.73   0.8
                 e     57 33.94  32km
ALQ    95.35  56 P     57 40.00  10.4X
     Z  19s     0.25um          4.7Msz
NVL    96.43 189 (P)   57 35.00   1.4
     Z  17s     1.00um          5.4MszX
     N  17s     0.50um
     E  17s     0.50um
                 e     03 07.00
                 e     08 12.00
GLD    97.07  51 P     57 50.00  12.8X
     Z  19s     0.84um          5.2Msz
MBC    97.23  14 eP    57 38.30   1.3
       1.1s   127.00nm          6.4mb X
                 PcP   57 41.30
                 pP    57 46.10  24km
                 SP    57 49.80
WMOK  101.59  57 Pdiff 58 10.00  12.4X
     Z  18s     0.38um          5.0Msz
MIAR  105.86  57 Pdiff 58 30.00  13.5X
     Z  18s     0.21um          4.7Msz
FVM   108.46  54 PKP   02 50.00  15.9X
     Z  18s     0.54um          5.1Msz
MYNC  113.63  56 PKP   03 00.00  15.9X
     Z  19s     0.18um          4.7Msz
YSNY  117.10  48 PKP   03 10.00  19.5X
     Z  19s     0.26um          4.8Msz
BINY  119.01  48 PKP   03 10.00  15.9X
     Z  19s     0.38um          5.0Msz
OBN   120.04 328 (PKP) 02 52.00  -3.6X
       1.8s    18.60nm
     Z  22s   221.20um          7.8MszX
                 (PP)  04 24.80
                 (SKS) 09 57.00
                 (PS)  14 00.50
LSCT  121.14  48 PKP   03 10.00  11.9X
     Z  19s     0.35um          5.0Msz
LBNH  121.38  45 PKP   03 10.00  11.5X
     Z  19s     0.35um          5.0Msz
HRV   122.12  46 PKP   03 10.00  10.1X
     Z  19s     0.25um          4.9Msz
CBM   123.04  41 PKP   03 20.00  18.5X
     Z  20s     0.35um          5.0Msz
BCAO  145.71 262 iPKPd 03 44.90   0.2
       1.2s    49.00nm
                 i     03 55.60
                 i     04 19.00
EGRA  146.11 340 ePKP  03 42.00  -2.5X
SOB1  147.78 127 ePKP  03 49.40   1.4
ETOR  147.93 341 ePKP  03 52.50   4.9X
EVIA  150.04 339 ePKP  03 56.50   5.6X
EHUE  150.80 339 ePKP  03 57.80   5.7X
EGUA  152.02 339 ePKP  04 02.50   8.6X
```

```
EPRU  152.45 342 ePKP  04 08.00  13.5X
     S.D. = 1.0  on  68 of  99 obs.
-----------------------------------
*  OCT  10, 1993  12h 16m 39.10± 1.08s
   44.201 N ±10.1km   12.129 E ±10.3km
   DEPTH =  21.3 ±  8.5 km
 NORTHERN ITALY                  (545)
      ML 3.2 (LDG), 3.2 (VIE). MD 2.9
      (FIR).
FIR     0.76 236 ePg   16 53.00  -0.5
                 iSg   17 05.00
VOY     2.22  34 iPnc  17 14.80  -0.6
                 iPg   17 20.70
                 eSn   17 42.50
                 eSg   17 50.00
                 e     17 52.10
CEY     2.24  46 e(Pg) 17 20.00   4.3X
                 e(Sn) 17 45.70
                 eSg   17 52.70
LJU     2.51  42 e(Pg) 17 25.50   6.1X
                 eSn   17 49.70
VBY     2.58  59 ePn   17 20.00  -0.4
                 e     17 24.40
                 i     17 46.00
OGA     2.78 344 ePn   17 25.10   1.7
PGF     2.82 235 Pn    17 24.90   1.0
                 Sn    17 57.70
KBA     3.00  16 iPnc  17 27.20   0.6
                 iPg   17 36.40
                 iSn   18 05.70
                 iSg   18 20.50
WTTA    3.08 354 iPnd  17 29.50   1.8
                 iPg   17 39.40
                 iSn   18 07.60
                 iSg   18 22.70
SQTA    3.09 348 iPnc  17 29.60   1.8
                 iPg   17 39.20
                 iSn   18 06.90
                 iSg   18 21.40
WATA    3.16 353 iPnd  17 30.80   2.0
                 i     17 41.10
                 iSn   18 10.00
ZAG     3.18  58 e(Pn) 17 35.20   6.3X
                 e(Sn) 18 18.00
PTJ     3.20  57 ePn   17 36.00   6.6X
                 iSn   18 18.60
SBF     3.40 266 Pn    17 33.90   1.7
FRF     4.01 263 Pn    17 41.30   0.5
LPG     4.04 291 Pn    17 40.70  -0.7
LPL     4.06 291 Pn    17 42.50   0.9
LMR     4.16 260 Pn    17 42.50  -0.4
                 Sn    18 30.00
GEC2    4.77  13 Pn    17 49.90  -1.7
                 Pg    18 11.10
                 Sn    18 28.30
KHC     5.03  11 Pn    17 54.00  -1.2
                 ePg   18 16.50
                 eSn   18 51.00
                 eSg   19 24.00
BSF     5.20 316 Pn    17 57.10  -0.5
                 Sn    18 53.90
CDF     5.39 323 Pn    17 59.80  -0.5
HAU     5.53 315 Pn    18 00.50  -1.8
                 Sn    19 01.80
PRU     6.02  15 ePn   18 44.00  34.9X
                 e     19 34.00
                 eSg   20 02.50
SMF     6.32 296 Pn    18 11.80  -1.7
LBF     6.36 299 Pn    18 13.10  -0.9
                 Sn    19 23.50
LOR     6.55 301 Pn    18 15.90  -0.8
                 Sn    19 27.20
     S.D. = 1.4  on  22 of  27 obs.
-----------------------------------
*  OCT  10, 1993  12h 42m 34.05± 1.09s
   3.935 S ±15.0km  103.702 E ±22.4km
   DEPTH =  33.0km  (normal)
   4.7mb ( 11 obs.)  4.5Msz (  1 obs.)
 SOUTHERN SUMATERA, INDONESIA     (274)
LEM     4.84 127 ePd   43 47.50   0.8
                 eS    44 13.00
KGM     5.92 356 ePc   44 01.80   0.0
                 e     45 40.00
IPM     8.87 342 ePc   44 40.50  -2.5X
                 e     47 07.30
```

10d 12h

```
SNG     11.46 344 eP     45 16.90  -1.6
NNT     16.88 347 eP     46 1.80    2.2X
NST     19.80 350 eP     47 1.50   -2.3
BDT     21.55 348 eP     47 3.00    0.2
        0.7s    30.10nm          4.8mb
CHTO    23.09 348 eP     47 33.10  -4.9X
        1.1s    17.67nm          4.5mb
KMI     28.90 358 Pc     48 34.00   1.6
        1.0s    40.00nm          5.1mb
      Z 11s      1.90um          5.0MszX
      N 10s      0.90um
      E 10s      0.50um
GBA     31.36 304 P      48 55.00   0.9
WR2     33.86 121 eP     49 12.70  -3.2X
        0.3s     6.40nm          5.0mb
CD2     34.65   0 eP     49 23.70   1.1
ASPA    35.13 127 eP     49 26.00  -0.9
        1.3s     7.00nm          4.4mb
XAN     38.09   7 P      49 50.40  -1.2
      Z 12s      0.63um          4.6MszX
LZH     39.81   0 eP     50 07.40   1.3
        1.4s   150.00nm          5.6mb
      Z 14s      0.69um          4.6MszX
      E 10s      0.40um
TIY     42.22  10 eP     50 29.90   4.1X
      Z 20s      0.62um          4.5Msz
      N 17s      0.84um
GTA     43.28 356 eP     50 33.00  -1.4
        1.2s     6.00nm          4.2mb
      Z 15s      0.63um          4.6MszX
      E 12s      0.37um
BTO     44.69   7 eP     50 47.50   1.6
      N 14s      0.39um
      E 14s      0.59um
STK     45.12 132 eP     50 48.20  -1.1
        0.8s     6.00nm          4.5mb
HHC     45.14   8 eP     50 50.80   1.3
        1.2s    24.00nm          5.0mb
BJI     45.24  14 eP     50 51.00   1.0
        1.0s     6.00nm          4.5mb
      Z 16s      0.58um          4.6MszX
      E 16s      0.78um
WMQ     49.68 345 P      51 25.00   0.2
CN2     51.39  20 eP     51 36.40  -1.4
        1.0s     8.40nm          4.7mb
      Z 16s      0.36um          4.5MszX
      S.D. = 1.4  on  18 of  23 obs.
-------------------------------------
   OCT  10, 1993  13h 42m 17.14± 0.29s
   14.159 S ± 5.9km   75.995 W ± 7.1km
   DEPTH =  48.8km  ( 17 depth phases)
   5.0mb ( 14 obs.)
 NEAR COAST OF PERU                (115)
      Mw 5.1 (HRV). Minor damage (V)
      at Ica. Felt (IV) at Nazca,
      Chincha and Pisco; (III) at
      Canete; (II) at Lima.
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 22S, 30C
      Centroid Location:
      Origin Time        13:42:19.4 0.7
      Lat 13.86S 0.06 Lon  75.98W 0.09
      Dep  49.0 FIX Half-duration  1.0
      Moment Tensor;   Scale 10**16 Nm
        Mrr= 4.62 0.45  Mtt=-1.31 0.40
        Mff=-3.31 0.73  Mrt=-2.19 0.52
        Mrf= 3.62 0.65  Mtf=-0.39 0.50
       Principal Axes:
        T  Val=  6.63  Plg=65  Azm=232
        N       -1.85      11      347
        P       -4.77      23       81
      Best Double Couple:Mo=5.7*10**16
       NP1:Strike=192 Dip=25 Slip= 118
       NP2:        342     68       78

PT03     0.25  49 iP     42 26.60   0.8
PT06     0.46 315 iP     42 29.60   1.7
PT08     2.25 346 iP     42 52.30  -0.7
PT10     2.28 335 eP     42 53.30   0.2
                e(S)     43 28.50
NNA      2.31 339 iPd    42 53.60   0.0
       0.6s   353.33nm
                e        43 26.00
ARE      4.91 118 eP     43 31.00   0.3
                iS       44 24.50
LPAZ     7.88 107 iPc    44 12.50   0.0
```

```
LPB      7.97 108 P      44 16.20   2.6
CNCB     8.16 110 P      44 17.50   1.1
YJA     12.76 130 e(P)   45 17.80  -0.9
SLA     14.43 138 ePc    45 41.10   0.6
FSA     15.11 143 ePd    45 53.30   4.3X
CYA     17.08 148 ePd    46 14.50   0.3
RTPR    18.29 153 ePd    46 29.60   0.6
RTLL    18.43 159 ePc    46 31.00   0.1
RTCB    18.47 160 ePc    46 31.50   0.2
MRA     20.45 154 e(P)c  46 52.10  -1.1
DVD     23.34 344 eP     47 32.92  10.8X
SDV     23.51  13 eP     47 24.70   0.8
BRU     23.73 344 eP     47 33.12   6.8X
TOV     24.57  15 ePc    47 36.70   2.6
PPD     24.71 112 eP     47 34.60  -0.7
RSTA    27.44 116 eP     48 01.00   0.4
SOB1    34.70  86 (P)    49 02.00  -2.7
LTX     50.83 328 eP     51 14.55  -0.6
                e        51 27.85  49km
UYO     51.17 340 iPd    51 17.00  -0.6
MIAR    51.24 341 eP     51 17.12  -0.9
        0.7s    11.98nm          5.0mb
                e        51 30.43  49km
NAV     51.40 355 (P)    51 17.97  -1.3
MEO     53.19 337 iPc    51 31.60  -1.1
TUL     53.20 340 iP     51 31.50  -1.3
WMOK    53.23 337 eP     51 31.25  -1.7
        0.8s    10.00nm          4.9mb
                e        51 45.22  51km
FVM     53.61 346 eP     51 35.86   0.2
        0.4s    19.70nm          5.5mb
ACO     55.10 337 iPc    51 41.10  -5.6X
ALQ     56.75 330 eP     51 58.09  -0.7
        0.8s     8.64nm          4.8mb
                e        52 11.84  50km
TUC     56.96 325 eP     52 00.64   0.5
        1.1s    12.63nm          4.9mb
                e        52 14.61  51km
GLD     60.14 334 (P)    52 22.98   0.6
        1.0s    13.99nm          5.0mb
PV09    60.88 331 (P)    52 27.12  -0.4
PLM     61.25 321 (P)    52 31.46   1.5
                e        52 43.82  43km
PEC     61.80 322 eP     52 34.70   1.2
        1.0s    13.56nm          5.0mb
                e        52 47.55  45km
RSSD    63.39 338 eP     52 42.15  -1.9
        1.4s    30.28nm          5.2mb
                e        52 57.20  55km
DAU     63.40 330 eP     52 44.74   0.4
                e        52 58.00  47km
MEMM    65.44 324 eP     52 58.47   1.3
                e        53 11.96  47km
MMPM    65.46 323 (P)    52 57.91   0.1
                i        53 11.80  49km
ULM     66.47 346 eP     53 04.50   0.9
                pP       53 19.00  52km
CMB     66.53 323 (P)    53 04.16  -0.1
        0.8s     3.96nm          4.5mb
LRM     68.17 333 eP     53 06.60  -8.1X
                e        53 28.30  83kmX
ORV     68.20 324 eP     53 15.31   0.6
                i        53 29.38  50km
NEW     72.10 332 eP     53 37.80  -0.5
        1.5s    42.69nm          5.2mb
DPW     72.30 332 eP     53 40.30   0.8
                e        53 53.96  48km
KIC     73.56  79 P      53 44.90  -2.5
LKO     73.69  76 P      53 46.38  -1.9
        0.6s     6.00nm          4.7mb
BMW     73.77 328 eP     53 48.88   0.8
                i        54 02.77  49km
GMW     74.27 329 eP     53 51.95   1.0
SPA     75.94 180 iPc    53 59.40  -1.1
        0.9s    46.82nm          5.4mb
NVL     76.02 160 iPd    54 01.00   0.4
        2.0s    99.00nm          5.4mb
                e        54 15.00  49km
YKA     82.15 343 eP     54 45.50  11.8X
        0.8s     5.70nm
INK     91.83 342 eP     55 36.00  15.3X
FBA     95.20 336 eP     55 35.76  -0.5
        0.8s     3.54nm          4.9mb
                e        55 49.96  48km
STK    121.75 218 ePKP   01 08.00   0.2
        0.6s     1.20nm
ASPA   132.38 218 ePKP   01 27.70  -0.8
```

```
        0.7s     9.90nm
WR2    134.83 222 iPKPd 01 32.90  -0.3
        4s      16.10nm
                i        01 48.40
WRA     84 222 PKP       01 33.30   0.1
        s       6.80nm
POO     1: 76  77 ePKP   02 07.50   6.8X
NDI    151.27  55 ePKP   02 02.50   1.3
BJI    152.09 340 ePKP   02 08.00   6.0X
        1.5s    12.00nm
GBA    154.21  88 PKP    02 14.00   8.4X
SSE    156.91 320 ePKP   02 21.50  12.7X
      S.D. = 1.1  on  56 of  67 obs.
-------------------------------------
*  OCT  10, 1993  14h 26m 39.68± 1.14s
   38.018 S ± 7.3km  176.030 E ± 6.4km
   DEPTH = 236.9 ± 11.4 km
 NORTH ISLAND, NEW ZEALAND         (159)

URZ      0.89 106 P      27 11.20  -1.7
                S        27 30.40
MOZ      1.08 243 P      27 14.00   0.0
PAHZ     1.16 137 P      27 13.90  -0.7
NGZ      1.21 196 P      27 15.00   0.0
CNZ      1.24 198 P      27 15.10  -0.1
KUZ      1.29 349 Pd     27 15.90   0.5
TTH      1.64 158 P      27 18.80   0.6
NOZ      1.69 111 P      27 18.90   0.4
WAHZ     1.70 172 Pc     27 18.80   0.1
PUZ      1.76  92 P      27 18.80  -0.4
                S        27 43.20
HBZ      1.85  78 Pc     27 20.50   0.6
MAHZ     1.86 129 eP     27 20.60   0.5
BSZ      1.97 205 P      27 21.70   0.6
TEHZ     2.06 163 P      27 22.30   0.3
PGZ      2.60 176 P      27 27.70   0.3
MNG      2.63 189 Pc     27 27.90   0.2
                S        27 59.60
KIW      2.97 197 P      27 31.40   0.0
MTW      3.16 187 P      27 33.40  -0.2
CAW      3.17 193 P      27 33.80   0.1
DIW      3.22 210 P      27 34.40   0.1
MRW      3.37 197 P      27 35.90   0.0
BLW      3.37 187 P      27 36.00   0.0
TCW      3.47 202 eP     27 36.90  -0.1
QRZ      3.90 223 P      27 42.20   0.0
THZ      4.45 212 eP     27 49.00   0.2
LTZ      5.56 210 eP     28 02.30  -0.3
MQZ      6.23 203 P      28 10.10  -0.9
ODZ      8.10 208 eP     28 35.10   0.2
KNA     47.03 285 iPd    35 15.60  26.3X
MTN     47.07 290 iPd    34 59.30   9.7X
MBL     50.93 273 iPc    35 54.80  35.7X
        0.3s    38.00nm
      S.D. = 0.5  on  28 of  31 obs.
-------------------------------------
   OCT  10, 1993  14h 33m 11.02± 0.63s
   7.288 S ± 3.3km  126.274 E ± 7.3km
   DEPTH = 449.1 ±  9.0 km
   4.8mb ( 23 obs.)
 BANDA SEA                         (280)

AAI      4.06  28 ePd    34 27.50   0.2
                eS       35 29.00
SWI      8.09  38 ePd    35 08.00  -0.7
WR2     14.83 149 iPc    36 20.50  -1.3
        0.3s    36.00nm          5.4mb
                eS       38 52.70
MAP     17.64 353 eP     36 51.00   0.9
ASPA    17.86 157 iPc    36 52.60   0.4
      Z 21s      0.20um
                iS       39 54.10
PLP     18.38 356 ePd    36 58.50   1.2
QIS     18.46 137 eP     36 58.70   0.6
LEM     18.52 270 iPd    36 59.00   0.1
MEEK    20.58 200 iPc    37 18.50  -0.1
        0.5s   199.00nm          5.9mb X
FORT    23.43 176 iPc    37 44.50  -0.4
        0.7s    87.00nm          5.4mb
MRWA    23.87 203 eP     37 48.60  -0.3
        0.2s    10.00nm          5.0mb
COOL    23.96 191 eP     37 49.00  -0.7
BAL     24.87 200 eP     37 58.30   0.4
        0.2s    16.00nm          5.2mb
KLB     25.45 197 iPc    38 02.60  -0.6
        0.3s     6.00nm          4.6mb
MUN     26.30 200 eP     38 09.90  -0.8
```

```
NWAO    26.86 197 eP    38 15.10   -0.5
STK     28.33 152 eP    38 28.40   -0.1
        0.4s     9.90nm          4.6mb
BWA     33.85 146 eP    39 18.20    2.4
CAN     34.84 146 eP    39 25.60    1.5
SSE     38.47 353 Pc    39 54.50    0.4
        1.0s    32.00nm          4.7mb
KAGJ    38.51   6 P     39 54.90    0.5
GYA     38.57 331 iPd   39 55.80    0.7
        1.0s    33.00nm          4.7mb
                  PcP   41 58.40
WHN     39.32 344 Pd    40 02.00    1.0
        1.0s    60.00nm          5.0mb
KMI     39.53 325 Pd    40 04.50    1.3
        1.4s    60.00nm          4.8mb
NJ2     39.75 350 Pd    40 05.00    0.5
        0.8s    27.00nm          4.7mb
KUMJ    39.84   6 P     40 05.20    0.0
SHNJ    41.44   6 eP    40 17.80   -0.4
TKSJ    41.70  10 eP    40 21.00    0.7
WKYJ    42.21  12 eP    40 25.00    0.5
YONJ    42.79   9 P     40 29.80    0.9
TSRJ    43.57  12 eP    40 35.40    0.4
CD2     43.68 332 P     40 36.20    0.1
        1.0s    68.00nm          5.0mb
IIDJ    43.93  14 eP    40 37.80   -0.2
TIA     44.11 349 eP    40 38.50   -0.9
XAN     44.27 339 Pd    40 40.00   -0.7
        0.8s    62.00nm          5.1mb
                  pP    40 46.00   20kmX
                  sP    40 49.30
CHJJ    44.73  15 eP    40 43.30   -1.0
MTMJ    44.96  13 eP    40 45.90   -0.3
MAT     45.01  14 iPd   40 45.60   -0.9
        0.8s    32.09nm          4.8mb
KAKJ    45.19  16 eP    40 46.80   -1.0
NIIJ    45.87  14 eP    40 52.60   -0.4
TIY     46.60 345 iPd   40 58.00   -0.7
BJI     48.01 350 eP    41 08.50   -0.8
        1.2s    14.00nm          4.3mb
      Z  24s     0.32um          4.2MszX
LZH     48.02 335 iPc   41 10.30    0.6
        1.0s    85.00nm          5.1mb
SNY     48.94 357 iPd   41 15.70   -0.6
        0.6s    70.00nm          5.3mb
LSA     49.92 319 iPc   41 25.60    1.1
        0.8s    24.00nm          4.6mb
BTO     49.95 344 eP    41 22.80   -1.3
CN2     50.85 359 Pd    41 29.40   -1.1
        0.6s    27.00nm          4.8mb
                  epP   41 36.50   24kmX
MDJ     51.75   3 Pd    41 37.20    0.1
        1.0s    37.00nm          4.7mb
GTA     52.53 334 iPd   41 43.00   -0.1
        0.8s    30.00nm          4.7mb
GBA     52.74 293 P     41 44.00   -0.8
CSY     59.91 187 eP    42 37.70    3.9X
        0.7s    12.60nm          4.5mb
YAK     69.15   2 iPc   43 31.00   -1.3
        0.8s    94.00nm          5.5mb
MAIO    76.01 310 eP    44 14.00    1.5
     S.D. = 0.9  on  52 of  53 obs.
-------------------------------------
&  OCT  10, 1993  14h 53m 21.85s
   37.639 N          118.922 W
   DEPTH =    8.6km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      <GM-P>. MD 2.8 (GM). Multiple
      event.

MRCM     0.33  84 eP    53 28.57   -0.2
BONR     0.58  57 eP    53 32.97   -0.7
CMB      1.22 289 eP    53 42.87   -1.9
TNP      1.42  71 eP    53 48.80    0.7
ISA      2.00 169 (P)   53 56.66    0.3
                  eS    54 23.86
ARN      2.10 263 (P)   53 59.66    2.0
BCH      2.62 201 (P)   54 06.42    1.2
GLA      5.67 143 (P)   54 49.50    1.1
         8 obs. associated
-------------------------------------
&  OCT  10, 1993  15h 12m 36.74s
   37.647 N          118.890 W
   DEPTH =    7.8km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      <GM-P>. MD 3.0 (GM).

MMPM     0.12 251 eP    12 39.36   -0.3
MRCM     0.31  85 eP    12 43.07    0.0
MTUM     0.39 138 ePd   12 44.33   -0.4
BONR     0.56  56 ePc   12 47.54   -0.5
CMB      1.25 289 eP    12 59.86   -0.3
                  eS    13 15.48
TNP      1.39  71 iPc   13 03.07    0.4
ISA      2.01 170 eP    13 13.43    2.0
                  eS    13 39.55
ARN      2.12 263 eP    13 14.47    1.4
                  eS    13 42.76
TPNV     2.22 108 eP    13 15.94    1.4
SAO      2.22 247 eP    13 15.87    1.4
                  eS    13 45.00
COE      2.25 261 eP    13 16.60    1.8
                  eS    13 47.30
BCH      2.64 202 eP    13 21.41    0.9
                  eS    13 54.40
ABL      2.80 186 eP    13 25.90    3.0
GSC      2.88 144 eP    13 26.85    2.9
ARUT     4.32  86 (P)   13 46.75    2.3
         15 obs. associated
-------------------------------------
*  OCT  10, 1993  15h 24m 02.08± 0.62s
   23.921 S ±14.9km   69.618 E ±15.8km
   DEPTH =  10.0km  (geophysicist)
   4.6mb (  4 obs.)
 MID-INDIAN RIDGE                (429)

SHL     53.71  25 eP    33 26.70    0.0
                  eS    40 32.00
BCAO    57.17 293 iPd   33 52.00    0.1
        0.9s    18.00nm          5.1mb
                  i     33 58.20
NVL     57.17 199 (P)   33 51.00   -0.1
ASPA    58.33 104 eP    34 00.00    0.1
        1.0s     6.30nm          4.6mb
      Z  22s     0.20um          4.2MszX
VRI     79.63 331 eP    36 11.00    0.0
MLR     79.69 330 eP    36 10.00   -1.5
GEC2    87.93 327 P     36 52.80   -0.4
        0.8s     0.58nm          4.0mb
                  e     36 59.10
                  e     37 04.10
KSP     88.01 329 eP    36 54.00    0.6
KHC     88.18 327 eP    36 54.00   -0.3
        1.0s     3.50nm          4.6mb
                  e     37 00.00
PRU     88.27 328 eP    36 56.00    1.3
                  e     37 06.50
BRG     89.14 328 e(P)  37 05.20    6.4X
GRF     89.72 326 eP    37 01.90    0.3
                  e(pP) 37 08.50   21kmX
                  e(sP) 37 13.20
CLL     89.87 328 eP    37 09.00    6.8X
ULM    151.39 340 ePKP  43 59.50    8.4X
     S.D. = 0.8  on  11 of  14 obs.
-------------------------------------
&  OCT  10, 1993  15h 30m 10.24s
   37.637 N          118.932 W
   DEPTH =    8.2km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      <GM-P>. MD 2.9 (GM).

MEMM     0.03 349 eP    30 11.92    0.0
MMPM     0.08 251 eP    30 12.36   -0.4
MRCM     0.34  84 eP    30 16.97   -0.3
MTUM     0.41 134 iPd   30 18.18   -0.4
BONR     0.59  57 iPc   30 21.70   -0.5
CMB      1.22 289 eP    30 32.03   -1.1
TNP      1.43  71 eP    30 36.86    0.2
ISA      2.00 169 ePc   30 46.60    1.8
ARN      2.09 263 eP    30 46.89    0.9
SAO      2.19 247 eP    30 47.85    0.5
COE      2.21 261 (P)   30 48.93    1.1
TPNV     2.25 107 (P)   30 49.51    1.1
BCH      2.62 201 eP    30 54.13    0.5
ABL      2.79 185 (P)   30 57.31    1.1
GSC      2.89 143 (P)   31 00.78    3.3
         15 obs. associated
-------------------------------------
%  OCT  10, 1993  15h 32m 35.54± 0.90s
   40.694 N ± 8.7km   23.478 E ± 8.6km
   DEPTH =  10.0km  (geophysicist)
 GREECE                          (364)

SOH      0.16 324 iPg   32 39.44    0.2
                  eSg   32 42.12
SRS      0.43  12 iPg   32 44.48    0.1
                  eSg   32 51.20
OUR      0.53 133 ePg   32 46.16    0.0
                  eSg   32 54.60
KNT      0.64 317 ePg   32 47.80   -0.6
                  iSg   32 56.80
GRG      0.86 288 iPg   32 52.40    0.3
                  eSg   33 04.40
     S.D. = 0.5  on   5 of   5 obs.
-------------------------------------
?  OCT  10, 1993  15h 52m 45.64± 1.08s
   39.656 N ± 8.7km   29.440 E ±11.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.8 (ISK).

ALT      0.79 139 ePg   53 01.20    0.1
                  eSg   53 12.20
EYL      1.06  31 ePn   53 05.40   -0.3
HRT      1.18   8 ePn   53 08.00    0.4
EDC      1.39 300 ePn   53 11.00   -0.1
     S.D. = 0.5  on   4 of   4 obs.
-------------------------------------
%  OCT  10, 1993  18h 02m 45.26± 0.75s
   40.551 N ± 5.7km   22.324 E ± 5.7km
   DEPTH =  10.0km  (geophysicist)
 GREECE                          (364)

GRG      0.41   8 ePg   02 53.50   -0.1
                  eSg   03 00.56
LIT      0.47 164 ePg   02 54.10   -0.7
                  iSg   03 01.82
THE      0.49  80 iPg   02 55.32    0.0
                  iSg   03 02.50
KNT      0.75  35 ePg   02 59.46   -0.5
                  iSg   03 11.28
FNA      0.76 288 ePg   03 00.48    0.4
                  eSg   03 11.12
SOH      0.83  71 ePg   03 01.30    0.0
                  eSg   03 14.60
SRS      1.12  59 ePg   03 05.96   -0.2
                  eSg   03 23.08
OUR      1.28  99 ePb   03 10.12    1.1
                  eSb   03 27.48
     S.D. = 0.6  on   8 of   8 obs.
-------------------------------------
   OCT  10, 1993  18h 05m 17.88± 0.31s
   40.628 N ± 3.6km   22.374 E ± 2.3km
   DEPTH =  34.7 ±  7.3 km
   4.3mb ( 18 obs.)
 GREECE                          (364)
      ML 4.0 (THE), 4.0 (TIR). MD 3.9
      (ATH). Felt at Edhessa, Naousa,
      Veroia and Thessaloniki.

GRG      0.33   4 iPg   05 24.78   -1.4
                  eSg   05 30.30
THE      0.45  89 iPg   05 26.30   -1.4
                  iSg   05 33.62
LIT      0.53 170 iPg   05 25.34   -3.6X
                  eSg   05 31.18
KZN      0.56 235 ePg   05 25.50   -3.9X
KNT      0.66  36 iPg   05 30.73   -0.1
                  eSg   05 41.54
SOH      0.77  75 iPg   05 31.98   -0.4
                  eSg   05 42.90
FNA      0.77 282 iPg   05 30.90   -1.5
                  eSg   05 42.42
SRS      1.04  62 iPg   05 37.14    0.9
KBN      1.21 270 iPgc  05 36.50   -2.2
OUR      1.26 103 ePb   05 40.22    0.8
OHR      1.29 293 iPnc  05 40.10    0.2
        1.3s  6980.00nm
                  i     05 42.10
                  i     05 58.80
                  i     06 01.80
KKB      1.35  23 iP    05 41.00    0.3
MMB      1.40  46 iPc   05 41.00   -0.5
SKO      1.52 333 iPn   05 43.20    0.1
        1.1s  1630.00nm
                  iPg   05 49.00
                  i     05 51.90
                  i     06 05.00
                  iSn   06 11.20
AGG      1.60 181 ePb   05 44.54    0.2
PHP      1.80 307 iPnd  05 48.40    1.2
```

10d 18h

		iSn	06	06.40	
TPE	1.83	260	iPnc	05	48.00	0.4
IGT	1.91	236	ePb	05	51.26	2.6X
SRN	1.96	248	iPnd	05	52.10	2.7X
			iSn	06	18.60	
TIR	2.03	292	ePn	05	56.00	5.6X
			iSn	06	24.50	
RZN	2.06	58	iPc	05	51.00	0.0
KEK	2.17	246	ePb	05	54.00	1.5
VLO	2.20	267	ePn	05	56.20	3.4X
			iSn	06	23.50	
LACI	2.25	297	iPnc	05	56.10	2.6X
			iSn	06	29.10	
PLD	2.29	49	iP	05	55.00	0.9
PGB	2.34	34	iP	05	54.00	-0.9
BCI	2.45	316	iPnc	05	56.60	0.2
			iSn	06	28.60	
RDO	2.45	77	ePn	05	57.00	0.6
SDA	2.59	304	iPnc	05	02.10	-56.2X
			iSn	05	36.20	
PVY	2.67	318	iPnd	06	01.34	1.8
			iSn	06	36.59	
ULC	2.71	301	iPnc	06	01.99	2.0
			iSn	06	38.50	
DIM	2.77	58	iP	06	01.00	0.1
ALN	2.80	83	iPn	06	01.74	0.4
VLS	2.81	210	ePn	06	02.50	1.0
ATH	2.85	158	ePn	06	01.50	-0.5
IVA	2.91	321	iPnd	06	04.29	1.4
			iSn	06	42.28	
TTG	2.95	309	iPnd	06	05.40	2.0
			iSn	06	44.02	
EZN	3.13	104	iPn	06	05.50	-0.5
BDV	3.14	303	iPnc	06	07.76	1.6
			iSn	06	48.70	
PRK	3.30	113	ePn	06	08.00	-0.4
PVL	3.40	40	iP	06	08.00	-1.8
HCY	3.43	303	iPnc	06	12.19	1.9
			iSn	06	56.32	
PLE	3.50	322	iPnd	06	12.37	1.1
			iSn	06	56.69	
JMB	3.65	58	iP	06	12.00	-1.4
BRY	3.66	310	iPnc	06	15.02	1.4
			iSn	07	01.05	
MFT	3.73	86	iPn	06	14.80	0.2
KGT	3.76	91	iPn	06	14.40	-0.5
VLI	3.93	173	ePn	06	11.60	-5.8X
EDC	4.20	92	ePn	06	21.10	-0.1
DMK	4.23	72	iPn	06	21.10	-0.6
IZM	4.39	119	ePn	06	25.00	1.1
BUC1	4.59	35	eP	06	50.00	23.3X
CTT	4.62	82	iP	06	26.80	-0.3
GZR	4.77	3	ePd	06	32.50	3.2X
MTUR	5.00	22	eP	06	34.00	1.4
BZS	5.02	354	ePc	06	22.00	-10.7X
CMP	5.03	22	ePc	06	41.00	8.0X
ISK	5.09	83	eP	06	33.30	-0.5
HVAR	5.10	302	iPnd	06	33.40	-0.6
			iSn	07	35.40	
DEV	5.27	4	ePc	06	43.00	6.8X
CIN	5.37	122	eP	06	38.00	0.2
ISR	5.45	33	eP	06	40.00	1.1
MLR	5.52	27	eP	06	40.00	0.1
HRT	5.55	86	iP	06	27.60	-12.7X
EYL	5.93	88	eP	06	45.30	-0.4
KHL	5.99	110	eP	06	46.30	-0.3
VRI	6.13	30	ePd	06	48.50	0.1
CFR	6.22	41	ePd	07	00.50	10.8X
UZD	6.57	336	ePn	06	54.30	-0.2
CLI	6.91	29	ePd	07	00.50	1.2
PTJ	7.05	321	eP	06	54.10	-7.3X
CEI	7.06	0	eP	06	17.00	-44.4X
PSZ	7.50	347	e(Pn)	07	06.70	-1.0
RIY	7.52	311	eP	07	05.90	-1.9
SRO	7.75	339	i(P)	07	14.10	3.0X
LJU	7.87	316	ePn	07	12.00	-0.8
			eSn	08	44.50	
VOY	8.21	314	ePn	07	16.50	-1.1
			e	07	17.70	
			eSn	08	47.40	
ZST	8.45	335	i(P)	07	20.50	-0.3
KAS	8.65	81	eP	07	23.00	-0.7
SPC	8.69	351	eP	07	29.40	5.0X
KBA	9.17	318	iPd	07	30.00	-0.9
	0.8s	15.30nm				5.2mb X
			i	07	35.20	
			i	07	45.60	

BHG	9.83	319	iPc	07	39.80	-0.1
WTTA	10.19	314	iPd	07	43.70	-1.3
			i	07	49.10	
			i	07	59.30	
WATA	10.27	314	iPd	07	44.80	-1.2
GEC2	10.27	326	Pn	07	46.50	0.5
OGA	10.31	311	eP	07	45.60	-1.0
SQTA	10.40	313	iPd	07	47.00	-0.8
	0.6s	13.40nm				5.3mb X
MOTA	10.53	313	iPd	07	48.30	-1.3
	0.7s	10.80nm				5.2mb X
KHC	10.54	327	eP	07	50.50	0.9
	1.0s	3.50nm				4.5mb
			e	08	01.50	
			e	08	16.00	
PRU	10.86	332	eP	07	57.00	3.1X
LPG	12.41	298	eP	08	11.00	-4.3X
	0.6s	6.05nm				4.9mb
LPL	12.43	298	eP	08	11.90	-3.6X
	0.5s	2.60nm				4.6mb
MOX	12.52	327	e(P)	08	34.10	17.8X
CDF	13.27	311	eP	08	16.40	-10.0X
	0.7s	2.55nm				
BSF	13.28	308	eP	08	17.30	-9.2X
	0.8s	6.30nm				4.6mb
HAU	13.62	308	eP	08	21.90	-9.1X
	0.7s	7.05nm				4.6mb
SMF	14.69	300	eP	08	44.60	-0.4
	0.7s	8.95nm				4.3mb
LBF	14.71	302	eP	08	44.80	-0.4
LOR	14.88	303	eP	08	46.70	-0.7
	0.6s	6.20nm				4.1mb
SSF	15.04	302	eP	08	48.20	-1.3
	0.8s	16.00nm				4.4mb
AVF	15.06	300	eP	08	48.70	-1.0
	0.7s	14.45nm				4.4mb
MAF	15.43	298	eP	08	53.50	-1.0
	0.8s	7.00nm				3.9mb
DOU	15.64	313	P	09	02.00	4.8X
SNF	16.03	314	eP	09	11.30	9.2X
LSF	16.13	297	eP	09	01.30	-2.3
	0.8s	7.40nm				3.9mb
OBN	17.29	28	ePd	09	19.50	1.5
	1.5s	42.00nm				4.3mb
			e	09	32.00	
GRR	18.25	303	eP	09	23.10	-6.9X
	1.0s	11.60nm				4.0mb
LPF	18.27	302	eP	09	23.20	-7.0X
	0.8s	19.90nm				4.3mb
HFS	20.26	347	eP	09	52.80	-0.1
	0.4s	2.40nm				3.9mb
NB2	21.56	345	P	10	04.80	-1.3
	0.7s	2.10nm				3.7mb
KAF	21.65	5	eP	10	08.70	1.8
EKA	22.37	320	Pc	10	14.30	0.1
	0.8s	12.80nm				4.4mb
BCAO	36.20	186	ePd	12	23.30	4.0X
	0.6s	4.00nm				4.5mb
LRM	84.93	330	eP	17	53.00	2.2
			e	17	57.20	

S.D. = 1.1 on 82 of 114 obs.

% OCT 10, 1993 18h 07m 32.93± 0.78s
40.532 N ± 5.9km 22.312 E ± 5.9km
DEPTH = 10.0km (geophysicist)
GREECE (364)

GRG	0.43	9	ePg	07	40.98	-0.7
			eSg	07	47.80	
LIT	0.45	162	ePg	07	41.70	-0.4
			eSg	07	48.26	
THE	0.51	78	iPg	07	42.62	-0.6
			eSg	07	49.90	
FNA	0.75	290	ePg	07	48.10	0.4
			eSg	08	00.08	
KNT	0.77	35	ePg	07	47.82	-0.1
			eSg	07	59.48	
SOH	0.84	70	iPg	07	49.26	0.0
			eSg	08	01.70	
SRS	1.13	59	ePg	07	55.22	1.0
OUR	1.29	98	ePb	07	57.30	0.5
			eSb	08	13.82	

S.D. = 0.7 on 8 of 8 obs.

& OCT 10, 1993 18h 22m 35.21s
61.582 N 151.820 W
DEPTH = 4.0km

SOUTHERN ALASKA (2)
<AEIC>. ML 2.8 (AEIC), 3.0
(PMR).

NCG	0.24	222	iPc	22	40.75	0.6
			eS	22	44.40	
CGLM	0.29	198	iPd	22	41.66	0.6
CRP	0.35	207	iPd	22	42.14	-0.2
CP2	0.38	213	iPd	22	42.79	0.0
CKN	0.40	206	eP	22	43.69	0.5
SPU	0.42	196	ePd	22	43.87	0.3
BGL	0.42	221	eP	22	43.69	0.0
SKT	0.42	19	iPd	22	44.00	0.3
			eS	22	50.18	
CKT	0.43	206	eP	22	43.83	0.1
CKL	0.46	213	eP	22	44.48	0.0
SUA	0.53	102	iPd	22	46.44	0.6
			eS	22	53.95	
BKG	0.56	203	iPd	22	46.16	-0.2
NKA	0.89	161	iPd	22	54.35	1.6
PWA	0.93	85	P	22	53.40	-0.1
RDT	1.05	196	iPd	22	54.22	-1.4
			eS	23	08.17	
DFR	1.08	203	iPd	22	54.82	-1.3
			eS	23	08.98	
CUT	1.10	41	eP	22	56.17	-0.3
PMS	1.14	106	P	22	56.70	-0.4
			S	23	12.30	
NCT	1.16	208	eP	22	56.23	-1.2
			eS	23	11.71	
REF	1.18	202	eP	22	56.56	-1.3
			eS	23	11.96	
RDW	1.20	204	ePd	22	57.02	-1.3
			eS	23	12.77	
RS2	1.21	203	eP	22	57.14	-1.3
			eS	23	13.52	
RSO	1.21	202	eP	22	57.54	-0.9
RED	1.26	202	eP	22	57.61	-1.5
			eS	23	13.22	
PLRM	1.29	88	eP	22	58.90	-0.7
			eS	23	16.40	
PMR	1.29	88	eP	22	58.61	-1.0
			eS	23	15.86	
SLKM	1.33	143	iPd	22	59.50	-0.9
			eS	23	17.63	
GHO	1.39	81	eP	23	01.16	-0.4
			eS	23	20.45	
ILIM	1.61	201	eP	23	03.78	-0.7
			eS	23	24.59	
KNK	1.62	95	eP	23	05.41	0.7
			eS	23	26.52	
MPA	1.62	131	eP	23	04.35	-0.3
INE	1.64	202	eP	23	04.36	-0.8
			eS	23	25.57	
SML	1.68	81	eP	23	05.78	0.3
HUR	1.73	35	eP	23	06.68	0.4
			eS	23	29.09	
PWL	1.84	112	eP	23	08.80	1.0
BRLK	1.88	165	eP	23	08.15	-0.3
			eS	23	32.71	
SEW	1.88	141	eP	23	08.30	-0.1
			eS	23	33.66	
SVW	1.89	257	eP	23	06.82	-1.8
HOM	1.93	177	eP	23	10.04	0.9
			eS	23	36.03	
CFI	1.99	100	eP	23	11.23	1.3
			eS	23	37.31	
TRF	2.01	20	eP	23	10.19	-0.2
KTH	2.02	11	eP	23	10.97	0.4
OPT	2.06	200	eP	23	12.26	1.3
CNPM	2.08	172	eP	23	11.18	-0.2
			eS	23	38.11	
XLV	2.14	179	eP	23	12.36	0.3
PDB	2.15	214	eP	23	11.55	-0.7
SCM	2.15	81	eP	23	13.54	1.1
RND	2.29	36	eP	23	15.79	1.3
AUE	2.36	200	P	23	16.70	1.4
AUW	2.37	201	P	23	17.60	2.2
AUH	2.37	201	P	23	17.60	2.1
TTA	2.38	306	eP	23	14.39	-1.4
			eS	23	50.24	
DHY	2.56	52	eP	23	19.20	0.9
VLZ	2.68	97	eP	23	20.40	0.5
TOA	2.73	76	P	23	22.70	2.0
KLU	2.83	89	eP	23	22.99	0.9
TZL	3.07	79	P	23	26.60	1.2
SDG	3.10	69	P	23	28.20	2.3

```
MLY      3.50   8 eP     23 30.13   -1.4
CCB      3.58  29 eP     23 31.20   -1.4
HDA      3.60  36 eP     23 32.38   -0.5
FBA      3.80  27 eP     23 33.87   -1.9
ILB      3.90  33 eP     23 35.59   -1.7
                eS       24 20.02
IL1      3.90  33 eP     23 35.60   -1.7
IM3      4.50 350 eP     23 43.78   -1.9
BM3      6.63  25 eP     24 13.20   -2.7
        66 obs. associated
-------------------------------------
?  OCT  10, 1993  19h 27m 13.78± 2.45s
   36.996 N ±20.2km   20.565 E ±20.8km
   DEPTH =  10.0km  (geophysicist)
   3.5mb (  1 obs.)
 CENTRAL MEDITERRANEAN SEA        (400)
      MD 3.5 (ATH).

VLS      1.18   1 ePg    27 36.00    0.2
VLI      1.92  98 ePb    27 47.00    0.2
KEK      2.78 348 ePb    28 04.00    4.9X
SRN      2.91 351 ePn    28 12.00   11.0X
KZN      3.44  16 ePb    28 09.00    0.5
VLO      3.57 347 ePn    28 17.40    7.2X
KBN      3.63   3 ePn    28 12.20    1.0
OHR      4.11   2 iPn    28 18.70    0.6
TIR      4.38 353 ePn    28 20.60   -1.2
NPS      4.44 111 ePg    28 39.00   16.3X
LACI     4.68 352 ePn    28 26.50    0.4
SKO      5.02   7 ePn    28 29.00   -1.8
KHC     13.15 339 eP     30 24.00    0.9
SLL     23.95 351 eP     32 28.00   -0.7
         0.4s     0.60nm          3.5mb
      S.D. = 1.1  on  10 of  14 obs.
-------------------------------------
&  OCT  10, 1993  19h 56m 19.67s
   37.647 N          118.886 W
   DEPTH =   7.6km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      <GM-P>. MD 2.9 (GM).

MEMM     0.05 295 iPd     56 21.48    0.1
MMPM     0.12 252 iPd     56 22.42   -0.2
MRCM     0.30  85 eP      56 25.72   -0.2
MTUM     0.39 139 eP      56 27.27   -0.3
BONR     0.56  56 ePc     56 30.45   -0.5
TNP      1.39  71 iPd     56 45.19   -0.4
TPNV     2.21 108 eP      56 58.09    0.6
ARUT     4.32  86 (Pn)    57 28.41    1.0
                ePg      57 43.92
        8 obs. associated
-------------------------------------
*  OCT  10, 1993  20h 11m 26.44± 0.65s
    0.056 N ± 9.7km   16.582 W ± 8.8km
   DEPTH =  10.0km  (geophysicist)
   4.7mb ( 30 obs.)  4.0Msz (  1 obs.)
 NORTH OF ASCENSION ISLAND        (407)

KING    10.51  20 P      14 00.80    0.5
MAMG    11.13  24 P      14 07.50   -1.4
LIC     13.06  62 P      14 34.31   -0.4
         0.5s     4.00nm          4.8mb
      Z  21s     0.50um
TIC     13.26  60 P      14 36.51   -1.0
         0.2s     2.00nm          4.9mb
                 S       16 55.04
                 TT      25 02.98
KIC     13.37  62 P      14 40.17    1.2
         0.3s     2.50nm          4.8mb
LKO     14.44  49 P      14 50.37   -2.7
         0.4s     6.00nm          4.6mb
                 S       17 16.87
                 TT      25 19.26
BCAO    35.35  82 iPc    18 26.40    1.9
         0.7s    15.00nm          5.0mb
                 i       18 33.00
EPF     45.40  17 eP     19 48.20    1.1
         0.9s     6.40nm          4.6mb
MFF     48.55  15 eP     20 11.90    0.2
         1.1s    14.15nm          4.9mb
BUL     48.56 117 iP     20 12.20   -0.3
LSF     48.68  17 eP     20 13.20    0.4
         1.0s    11.60nm          4.9mb
MAF     48.96  18 eP     20 15.90    1.0
         1.3s    23.85nm          5.1mb
AVF     49.71  18 eP     20 21.30    0.6
         1.2s    10.10nm          4.7mb
LPG     49.72  21 eP     20 22.10    0.9
         1.2s    19.65nm          5.0mb
LPL     49.73  21 eP     20 22.10    1.0
         0.8s     7.80nm          4.7mb
SSF     50.00  18 eP     20 23.50    0.6
         1.2s    11.30nm          4.7mb
LBF     50.08  18 eP     20 23.90    0.3
         1.0s     6.80nm          4.6mb
LOR     50.29  18 eP     20 25.40    0.2
         1.2s    10.70nm          4.7mb
      Z  23s     0.08um          3.6MszX
LDF     50.40  14 eP     20 26.90    1.0
         1.0s     8.80nm          4.7mb
FLN     50.47  14 eP     20 26.40    0.0
         0.8s     4.85nm          4.5mb
      Z  22s     0.10um          3.8MszX
BSF     51.74  20 eP     20 36.00   -0.3
         0.9s     4.60nm          4.4mb
HAU     51.74  19 eP     20 36.10   -0.1
         0.8s     7.80nm          4.7mb
CDF     52.41  20 eP     20 40.80   -0.5
         0.9s     7.20nm          4.6mb
RIY     52.74  27 ePc    20 43.90    0.3
DOU     53.04  17 Pc     20 45.70   -0.1
SKO     53.98  35 iP     20 53.50    0.7
ENN     54.03  17 eP     20 54.00    1.0
         1.0s    10.00nm          4.8mb
GRF     54.89  22 eP     20 59.10   -0.3
GEC2    55.17  24 P      21 01.10   -0.5
         0.7s     2.94nm          4.4mb
                 e       21 03.90
                 e       22 59.40
                 e       23 08.70
KHC     55.34  24 P      21 02.60   -0.2
         1.4s     8.50nm          4.6mb
WTS     55.37  17 eP     21 03.50    0.6
         1.0s    20.50nm          5.1mb
                 e       21 09.00
MOX     55.82  21 eP     21 06.20    0.1
         1.9s    21.00nm          4.8mb
ZST     56.12  27 iP     21 07.00   -1.3
SRO     56.39  28 eP     21 12.10    1.9
PRU     56.41  24 P      21 09.50   -0.9
BRG     56.87  23 iP     21 13.20   -0.5
         1.0s    10.00nm          4.8mb
KSP     57.78  24 eP     21 19.60   -0.5
SPC     58.27  28 eP     21 23.80    0.0
MLR     58.73  34 eP     21 26.00   -1.0
LMN     62.20 324 eP     21 49.00   -1.6
HFS     64.34  16 eP     22 03.00   -1.4
         0.4s     1.90nm          4.6mb
      Z  19s     0.10um          4.0Msz
                 LR      49 12.00
NB2     64.44  15 P      22 04.50   -0.6
         0.9s     6.00nm          4.8mb
DAG     76.64 359 iPd    23 20.00    1.4
         0.9s    11.76nm          5.0mb
MAIO    78.76  53 eP     23 32.00    0.7
YKA     93.67 333 eP     24 43.20   -1.0
         0.9s     2.70nm          4.6mb
WRA    145.34 126 PKP    31 06.80   -0.4
         1.0s     0.90nm
WR2    145.35 127 ePKP   31 06.00   -1.2
         1.1s     3.60nm
      S.D. = 1.0  on  47 of  47 obs.
-------------------------------------
   OCT  10, 1993  20h 27m 59.58± 0.78s
   40.485 N ± 6.5km   21.531 E ± 6.4km
   DEPTH =  10.0km  (geophysicist)
 GREECE                           (364)

FNA      0.32 338 iPg     28 06.29    0.0
                 eSg      28 11.80
GRG      0.81  54 iPg     28 15.74    0.4
                 eSg      28 26.40
LIT      0.83 117 ePg     28 14.89   -0.7
                 iSg      28 27.88
OHR      0.84 319 iPg     28 15.50   -0.3
         0.4s   140.00nm
                 iSg      28 29.10
KNT      1.24  56 ePb     28 23.10    0.5
                 eSb      28 39.12
SOH      1.43  76 ePb     28 25.40   -0.2
                 iSb      28 46.17
AGG      1.59 157 ePb     28 28.48    0.7
                 eSb      28 50.80
SRS      1.69  67 ePb     28 28.88   -0.4
OUR      1.88  94 ePb     28 31.88   -0.1
                 eSb      28 56.52
      S.D. = 0.5  on   9 of   9 obs.
-------------------------------------
&  OCT  10, 1993  20h 32m 53.96s
   66.345 N          149.694 W
   DEPTH =  24.4km
 NORTHERN ALASKA                  (676)
      <AEIC>. ML 2.9 (AEIC).

MLY      1.39 199 eP      33 17.40   -0.6
                 eS       33 35.56
MDM      1.52 156 eP      33 18.83   -1.0
IMA      1.64 262 P       33 22.60    0.9
                 S       33 44.90
FBA      1.65 151 P       33 24.00    2.3
                 S       33 45.00
GLM      1.66 144 eP      33 21.22   -0.7
                 eS       33 43.01
IM3      1.69 259 eP      33 21.16   -1.1
                 eS       33 44.05
NEA      1.79 171 eP      33 26.55    2.8
CCB      1.88 154 eP      33 23.90   -1.1
PRP      1.90 114 eP      33 26.57    1.1
                 eS       33 48.98
IL1      1.96 142 eP      33 26.26    0.0
ILB      1.96 142 eP      33 26.07   -0.2
                 eS       33 50.83
WRH      2.00 160 eP      33 29.17    2.4
HDA      2.26 148 eP      33 29.22   -1.3
BM3      2.28  59 eP      33 30.10   -0.7
BC3      4.73 130 eP      34 03.75   -1.8
        15 obs. associated
-------------------------------------
*  OCT  10, 1993  20h 33m 40.21± 1.58s
   40.463 N ± 9.0km   21.475 E ±13.5km
   DEPTH =  10.0km  (geophysicist)
 GREECE                           (364)

FNA      0.33 347 iPg     33 46.65   -0.4
                 iSg      33 52.16
OHR      0.83 322 eP      33 20.50 -35.7X
         0.4s   110.00nm
                 iPg      33 56.90
                 iSg      34 09.40
LIT      0.86 115 ePg     33 55.52   -1.2
                 iSg      34 07.84
GRG      0.86  55 iPg     33 55.68   -1.1
                 iSg      34 08.48
KNT      1.29  57 ePb     34 05.12    1.1
                 eSb      34 21.40
SOH      1.47  75 ePb     34 06.32   -0.5
                 eSb      34 27.04
AGG      1.58 155 ePb     34 08.96    0.6
                 eSb      34 31.96
SRS      1.74  67 ePb     34 12.24    1.7
      S.D. = 1.4  on   7 of   8 obs.
-------------------------------------
   OCT  10, 1993  20h 40m 10.62± 0.50s
   40.490 N ± 5.9km   21.534 E ± 4.1km
   DEPTH =  10.0km  (geophysicist)
 GREECE                           (364)
      ML 3.0 (TIR).

FNA      0.32 338 iPg     40 17.22    0.0
                 eSg      40 22.50
KBN      0.58 283 iPgd    40 20.70   -1.8
                 iSg      40 29.50
GRG      0.81  54 iPg     40 26.25   -0.1
                 eSg      40 36.98
LIT      0.83 118 iPg     40 25.53   -1.1
                 eSg      40 39.22
OHR      0.83 318 iPg     40 26.00   -0.8
         0.4s   540.00nm
                 iSg      40 39.60
THE      1.10  82 ePg     40 30.94   -0.3
                 eSg      40 46.74
TPE      1.18 261 ePn     40 31.00   -1.6
KNT      1.23  57 ePb     40 33.86    0.3
                 eSb      40 51.58
IGT      1.33 224 ePb     40 37.58    2.4
                 eSb      40 57.46
SOH      1.42  76 ePb     40 36.62    0.1
                 iSb      40 56.46
SKO      1.48 357 iPn     40 38.40    1.1
         0.9s   110.00nm
                 i        40 58.50
```

10d 20h

```
TIR     1.53 305 ePn   40 42.00   4.1X
                eSn    41 07.50
VLO     1.55 270 ePn   40 38.80   0.5
AGG     1.59 157 ePb   40 38.54  -0.4
                eSb    41 01.70
SRS     1.68  67 ePb   40 40.34   0.1
                eSb    41 03.22
PAIG    1.74 108 ePb   40 41.26   0.3
                eSb    41 06.74
LACI    1.79 310 ePn   40 43.10   1.3
SDA     2.19 316 ePn   40 52.00   4.5X
     S.D. = 1.2  on  16 of  18 obs.
-------------------------------------
   OCT  10, 1993  21h 08m 45.86± 0.94s
   15.386 N ± 6.8km   94.673 W ± 5.5km
   DEPTH =  25.0 ±  6.6 km
   4.9mb ( 37 obs.)
 NEAR COAST OF OAXACA, MEXICO     ( 66)

SCX     2.38  55 eP    09 28.99   5.0X
                iS     10 02.57
TPX     2.38 101 (P)   09 25.09   1.1
                (S)    10 05.14
OXX     2.59 311 iP    09 25.54  -1.8
                iS     09 55.00
BVA     3.96 100 ePc   09 48.93   2.1
IXG     4.26 106 ePc   09 51.70   0.8
                eS     10 53.86
IISM    4.42 325 eP    09 54.97   2.0
LVVM    4.65 339 (P)   09 55.00  -1.3
YUP     4.86 103 ePd   09 59.80   0.4
IIT     5.01 317 eP    10 02.73   1.0
ACX     5.20 287 (P)   09 59.00  -5.1X
                (S)    10 44.47
PPM     5.26 315 eP    10 04.68  -0.7
IIA     5.34 315 eP    10 06.96   0.9
III     5.47 304 iP    10 06.75  -1.3
                (S)    11 07.50
UNM     5.83 313 (P)   10 14.75   1.6
CRX     6.23 311 (P)   10 19.00   0.1
MRX     7.56 306 (P)   10 28.00  -9.2X
LTX    16.17 331 eP    12 31.28  -1.9
UYO    18.70   1 iPc   13 04.10  -0.6
MIAR   19.10   3 eP    13 07.52  -2.0
       1.5s    64.11nm          4.6mb
WMOK   19.62 350 eP    13 13.86  -1.7
       0.7s    18.74nm          4.5mb
OXF    19.63  13 (P)   13 15.31  -0.3
MEO    19.63 350 iPd   13 14.50  -1.2
TUL    20.46 357 iP    13 25.60   1.2
ACO    21.60 350 iPd   13 31.10  -4.9X
MYNC   21.77  24 eP    13 36.34  -1.4
       0.9s    19.83nm          4.5mb
TUC    22.33 322 eP    13 45.33   1.9
       1.4s    38.58nm          4.7mb
ELC    22.34  11 eP    13 42.56  -0.8
JSC    22.36  30 eP    13 43.34  -0.2
NAV    25.08  27 eP    14 08.70  -1.3
GLA    25.36 317 eP    14 13.09   0.4
PV10   26.17 334 eP    14 20.18  -0.3
PV08   26.18 335 eP    14 21.59   1.0
PV09   26.31 334 eP    14 22.35   0.5
PLM    26.89 316 eP    14 27.27   0.2
PEC    27.41 316 eP    14 31.30  -0.3
       0.7s     6.08nm          4.4mb
SRU    27.43 333 eP    14 31.95   0.1
MSU    27.72 330 eP    14 35.54   1.0
ARUT   27.81 327 eP    14 36.23   0.9
EMUT   28.13 333 eP    14 38.69   0.4
HVU    30.60 333 eP    15 00.25   0.0
BONR   30.67 322 eP    15 01.47   0.3
ARN    32.32 318 eP    15 15.40   0.1
LRM    33.82 337 ePc   15 28.60   0.2
                e      18 07.00
GAC    34.26  24 eP    15 30.00  -1.9
ULM    34.79 359 eP    15 37.50   1.1
LBFM   34.98 323 eP    15 38.26  -0.2
NEW    37.64 335 eP    16 00.53   0.0
       0.9s     7.75nm          4.5mb
LON    38.58 330 eP    16 08.50   0.0
GMW    39.62 330 (P)   16 19.01   1.9
MCW    40.44 331 eP    16 23.75  -0.1
LPAZ   40.95 139 P     16 27.20  -1.9
JAQ    41.11  17 eP    16 31.00   1.7
LPB    41.16 139 eP    16 31.00   0.5
CNCB   41.44 139 P     16 32.00  -1.0
YKA    49.11 348 eP    17 31.10  -1.9
       0.8s     9.40nm          4.9mb
BAO    55.46 122 eP    18 19.80  -1.5
                e      18 24.80
                e      18 38.60
                e      18 43.10
INK    58.39 344 eP    18 40.50  -0.8
       1.0s     7.00nm          4.7mb
SOB1   58.61 111 eP    18 42.00  -1.6
RES    59.30 360 eP    18 46.00  -1.5
       1.0s     4.00nm          4.5mb
VAO    60.29 128 eP    18 52.70  -2.4
FBA    60.96 337 eP    18 57.58  -1.4
       0.8s     6.26nm          4.8mb
DAG    71.90  14 iPc   20 08.70   0.3
       0.8s    13.43nm          5.0mb
DCN    76.27  38 eP    20 34.30   0.2
       1.0s    70.00nm          5.6mb
DLF    76.72  38 eP    20 36.80   0.2
       1.0s    52.00nm          5.5mb
EKA    78.36  36 Pc    20 45.90   0.3
       0.8s     9.50nm          4.9mb
LPF    81.12  43 eP    21 00.60   0.1
       1.0s    15.40nm          5.0mb
GRR    81.15  42 eP    21 00.80   0.1
       0.8s    10.05nm          4.9mb
FLN    81.31  42 eP    21 01.70   0.1
       1.1s    16.35nm          5.0mb
LDF    81.58  42 eP    21 03.00   0.0
       0.9s    10.50nm          4.9mb
EPF    83.25  47 eP    21 12.00   0.1
       1.1s    10.75nm          4.9mb
SNF    83.86  39 P     21 20.40   5.8X
MAF    83.95  44 eP    21 15.00  -0.3
       1.3s    10.10nm          4.9mb
BGF    84.05  43 eP    21 15.60  -0.1
       1.1s    21.75nm          5.3mb
NB2    84.16  28 P     21 17.00   1.0
       1.1s    17.30nm          5.2mb
DOU    84.17  40 P     21 17.00   0.8
                e      21 23.20
AVF    84.32  43 eP    21 16.50  -0.6
       1.1s     6.60nm          4.8mb
SSF    84.34  43 eP    21 17.80   0.6
       0.9s     6.90nm          4.9mb
LOR    84.51  43 eP    21 18.20   0.1
       1.0s     7.20nm          4.9mb
LBF    84.67  43 eP    21 18.50  -0.4
       0.7s     2.45nm          4.5mb
SMF    84.68  43 eP    21 18.40  -0.5
       0.9s     4.10nm          4.7mb
ENN    84.78  39 eP    21 20.50   1.2
       0.8s    11.30nm          5.1mb
                e      21 26.50
WTS    84.92  37 eP    21 21.00   1.1
       0.8s     8.30nm          5.0mb
WLF    85.26  40 P     21 23.00   1.3
BSF    86.24  41 eP    21 26.60  -0.2
       0.9s     5.55nm          4.8mb
CDF    86.36  41 eP    21 27.80   0.5
       1.0s     6.20nm          4.8mb
TNS    86.48  39 ePc   21 29.20   1.3
LKO    86.64  81 P     21 29.22   0.0
       0.7s     8.00nm          5.0mb
LPL    86.94  44 eP    21 29.90  -0.5
       1.3s    11.90nm          5.0mb
TIC    87.93  84 P     21 35.78   0.3
       1.1s    12.00nm          5.1mb
LIC    88.03  84 P     21 35.76  -0.2
       1.0s    13.50nm          5.2mb
KIC    88.27  84 P     21 36.90  -0.2
       1.1s    29.00nm          5.5mb
GRF    88.34  39 eP    21 41.00   4.2X
CLL    88.77  37 e(P)  21 51.00  12.2X
BRG    89.49  37 e(P)  21 42.00  -0.2
KHC    89.98  39 eP    21 45.50   0.9
GEC2   90.17  39 P     21 45.70   0.1
       0.8s     0.91nm          4.1mb
                e      21 48.10
PRU    90.20  38 P     21 48.30   2.7
ZST    92.49  38 e(P)  21 57.30   1.2
WR2   133.18 257 ePKP  27 59.90  -2.1X
       0.6s     2.40nm
WRA   133.20 257 PKP   28 01.80  -0.2
       0.8s     1.10nm
GBA   150.16  16 PKP   28 35.00   3.3X
     S.D. = 1.1  on  92 of 101 obs.
-------------------------------------
? OCT  10, 1993  21h 37m 18.63± 2.42s
   0.494 N ±34.6km   16.475 W ±19.0km
   DEPTH =  10.0km  (geophysicist)
   4.5mb (  9 obs.)
 NORTH OF ASCENSION ISLAND        (407)

LIC    12.76  63 P     40 27.00   4.0X
       0.3s     1.00nm          4.6mb
KIC    13.08  63 P     40 27.74   0.5
       0.2s     1.50nm          4.9mb
LKO    14.08  50 P     40 39.68  -0.8
       0.4s     3.50nm          4.5mb
                S      43 08.00
BCAO   35.19  83 iPc   44 15.20  -0.1
       0.7s     6.00nm          4.6mb
LPG    49.28  21 eP    46 10.50   0.6
       1.2s     6.85nm          4.5mb
LPL    49.29  21 eP    46 11.40   1.5
       1.0s     4.40nm          4.4mb
LOR    49.85  18 eP    46 07.30  -6.6X
       1.1s     6.10nm          4.5mb
GRF    54.44  22 eP    46 48.30  -0.1
GEC2   54.73  24 P     46 49.80  -0.8
       0.7s     1.65nm          4.2mb
                e      48 47.80
NB2    64.00  15 P     47 53.40  -1.0
       0.9s     2.30nm          4.4mb
WRA   145.51 126 PKP   56 56.50  -3.2X
       1.1s     0.60nm
     S.D. = 1.0  on   8 of  11 obs.
-------------------------------------
* OCT  10, 1993  22h 16m 58.51± 0.93s
   46.614 N ±20.1km  153.899 E ±15.6km
   DEPTH =  33.0km  (normal)
   4.8mb ( 10 obs.)  3.7Msz (  1 obs.)
 KURIL ISLANDS                    (221)

KUSJ    7.41 245 eP    18 45.50  -1.6
                eS     20 09.20
ASAJ    8.31 257 eP    19 02.80   3.2X
HOOJ    8.68 245 eP    19 03.00  -1.7
                eS     20 40.40
MAT    15.44 235 eP    20 38.00   2.6
                eS     25 52.00
FBA    35.93  38 eP    23 58.20   0.9
       0.7s     3.78nm          4.4mb
LZH    38.43 273 eP    24 26.00   7.1X
       1.3s    25.00nm          4.9mb
BALM   38.63  44 (P)   24 18.64  -1.5
LRM    60.85  53 eP    27 10.20   0.1
RSSD   66.50  50 eP    27 46.20  -0.9
       1.0s     9.22nm          4.8mb
NB2    68.53 342 P     27 57.90  -1.5
       0.6s     4.40nm          4.7mb
HFS    68.77 340 eP    27 58.70  -2.1
       0.4s     3.50nm          4.7mb
     Z  19s     0.04um          3.7Msz
                LR     57 01.00
KSP    76.26 334 eP    28 45.10   0.0
CLL    76.81 336 iP    28 48.20   0.0
       1.1s    14.00nm          4.9mb
LTX    77.09  61 eP    28 50.19   0.0
                e      29 02.10
PRU    77.55 334 P     28 52.80   0.5
KHC    78.60 335 eP    28 58.00  -0.1
GRF    78.76 336 ePc   28 59.90   0.9
       1.1s    16.00nm          4.9mb
GEC2   78.81 334 P     28 59.60   0.2
       0.8s     1.19nm          4.0mb
                e      29 04.50
KBA    80.50 334 iPd   29 10.10   1.5
       0.7s     6.20nm          4.7mb
WTTA   80.84 335 iPd   29 12.00   1.6
       0.6s     6.00nm          4.8mb
OHR    83.19 326 e(P)  29 23.50   1.0
     S.D. = 1.4  on  19 of  21 obs.
-------------------------------------
& OCT  10, 1993  22h 32m 16.92s
   66.234 N          149.962 W
   DEPTH =  16.6km
 NORTHERN ALASKA                  (676)
      <AEIC>. ML 2.7 (AEIC).

MLY     1.25 195 P     32 39.00  -0.6
                S      32 56.30
MDM     1.47 150 P     32 42.20  -0.5
                S      33 01.90
```

```
IMA     1.52 265 eP     32 41.90  -1.6
IM3     1.56 262 P      32 42.50  -1.5
                 S      33 05.00
FBA     1.62 145 eP     32 44.29  -0.5
NEA     1.70 167 P      32 47.20   1.1
IL1     1.95 137 P      32 50.20   0.6
                 S      33 14.50
ILB     1.95 137 P      32 50.00   0.4
                 S      33 14.50
PRP     1.96 109 P      32 48.90  -1.0
BM3     2.43  58 P      32 54.40  -2.1
       10 obs. associated
-------------------------------------
&  OCT  10, 1993  22h 59m 51.61s
   61.998 N          149.523 W
   DEPTH =  43.8km
 SOUTHERN ALASKA                    (  2)
     <AEIC>. ML 2.8 (AEIC), 3.1
     (PMR).

GHO     0.36 128 iP     00 00.63  -0.4
                 eS     00 08.22
PWA     0.39 206 P      00 01.00  -0.1
PLRM    0.45 155 iP     00 01.08  -0.8
                 eS     00 10.02
PMR     0.45 155 iPc    00 00.77  -1.1
CUT     0.54 320 iP     00 02.19  -0.8
SML     0.59 108 iP     00 02.93  -0.9
PMS     0.76 181 ePc    00 05.30  -0.7
KNK     0.78 139 iP     00 05.69  -0.6
                 eS     00 17.20
SUA     0.79 228 eP     00 06.27  -0.3
                 eS     00 18.34
SKT     0.95 270 eP     00 07.50  -1.2
                 eS     00 20.74
HUR     0.98 357 eP     00 08.43  -0.8
                 eS     00 21.44
SCM     1.05  98 iP     00 09.41  -0.8
                 eS     00 24.83
CFI     1.17 133 eP     00 11.50  -0.3
PWL     1.28 153 eP     00 13.03  -0.3
                 eS     00 30.61
CGLM    1.37 241 eP     00 14.08  -0.7
NCG     1.39 246 eP     00 14.07  -0.9
                 eS     00 31.97
RND     1.45  12 eP     00 14.81  -1.0
CRP     1.46 241 eP     00 14.69  -1.3
                 eS     00 34.93
SPU     1.46 237 eP     00 15.46  -0.5
                 eS     00 34.96
DHY     1.47  42 eP     00 14.90  -1.3
                 eS     00 35.21
CKN     1.49 240 eP     00 16.45   0.1
CP2     1.49 242 eP     00 15.50  -1.1
TRF     1.50 347 eP     00 15.60  -1.0
NKA     1.51 214 eP     00 18.17   1.7
CKT     1.51 239 eP     00 15.87  -0.8
MPA     1.52 177 eP     00 16.37  -0.3
SLKM    1.53 193 eP     00 16.58  -0.4
BGL     1.56 243 eP     00 16.92  -0.4
CKL     1.57 240 eP     00 16.95  -0.6
TOA     1.58  85 P      00 17.70   0.0
                 S      00 39.00
BKG     1.61 236 eP     00 17.68  -0.4
KTH     1.69 338 eP     00 18.33  -0.9
VLZ     1.76 118 eP     00 19.18  -0.9
                 eS     00 41.23
MCK     1.76   9 eP     00 20.40   0.2
KLU     1.79 105 eP     00 19.91  -0.7
                 eS     00 42.48
SEW     1.90 179 eP     00 22.65   0.5
TZL     1.93  87 eP     00 22.96   0.4
SDG     1.94  72 eP     00 22.49  -0.2
                 eS     00 47.19
DFR     2.08 229 eP     00 24.16  -0.6
PAX     2.12  61 eP     00 25.16  -0.2
                 eS     00 51.71
REF     2.16 227 eP     00 25.60  -0.4
HIN     2.17 136 eP     00 25.30  -0.7
RS2     2.20 227 eP     00 26.46  -0.1
RED     2.23 226 eP     00 26.20  -0.7
                 eS     00 54.23
CVA     2.33 127 eP     00 28.29   0.0
ILIM    2.55 223 eP     00 30.88  -0.6
WRH     2.57  14 eP     00 30.81  -0.8
SGAM    2.57 124 eP     00 30.93  -0.8
HDA     2.68  25 eP     00 31.76  -1.6
CCB     2.77  15 eP     00 33.12  -1.4
                 eS     01 05.87
GLB     2.78  99 eP     00 33.49  -1.2
RAGM    2.85 122 P      00 36.50   0.8
FBA     3.02  14 eP     00 35.90  -2.1
                 eS     01 10.23
ILB     3.03  22 eP     00 36.82  -1.4
MDM     3.03  10 eP     00 36.43  -1.8
SVW     3.05 256 eP     00 35.97  -2.6
MLY     3.09 350 eP     00 37.15  -2.0
GLM     3.15  17 eP     00 38.52  -1.5
TTA     3.16 290 eP     00 37.44  -2.7
CRQM    3.32 109 eP     00 42.40  -0.1
TGL     3.45 108 eP     00 42.97  -1.4
BALM    3.57 102 eP     00 43.99  -2.0
BC3     3.74  70 eP     00 48.34   0.0
CTGM    4.06 101 eP     00 51.50  -1.5
IM3     4.41 337 eP     00 55.61  -2.2
IMA     4.48 338 eP     00 56.06  -2.8
       66 obs. associated
-------------------------------------
   OCT  10, 1993  23h 23m 54.20± 1.15s
   46.840 N ±11.0km  153.905 E ± 8.3km
   DEPTH =  42.2 ±  9.5 km
   4.8mb ( 37 obs.)
 KURIL ISLANDS                      (221)

SKR     4.10  20 ePn    24 56.50   0.6
                 eS     25 38.00
KUR     4.50 251 ePn    25 00.50  -1.2
                 eS     25 54.00
KUSJ    7.52 243 eP     25 39.50  -4.5X
                 eS     27 02.60
YSS     7.66 275 ePn    25 50.50   4.5X
     Z  16s     1.40um
     N  16s     0.50um
     E  16s     1.30um
ASAJ    8.37 255 eP     25 55.20  -0.6
HOOJ    8.79 243 eP     26 01.20  -0.3
                 eS     27 41.10
MAT    15.57 234 eP     27 32.00  -0.3
MDJ    17.11 271 eP     27 53.80   2.2
CN2    20.19 272 eP     28 27.00  -0.8
        0.8s     5.90nm          4.0mb
     Z  17s     0.48um          3.9MszX
ILT    25.35  24 iPc    29 18.00  -0.3
BOD    26.26 309 eP     29 24.10  -2.8X
        0.9s    12.00nm          4.5mb
BJI    28.02 270 eP     29 43.00  -0.1
     Z  16s     0.47um          4.2MszX
TIY    31.69 268 eP     30 16.80   0.9
FBA    35.75  38 eP     30 52.00   1.5
        0.8s     5.86nm          4.6mb
XAN    36.07 266 P      30 53.10  -0.4
        0.8s     7.00nm          4.6mb
                  pP     31 00.60  25kmX
GTA    39.49 279 eP     31 22.50   0.2
        1.0s     4.00nm          4.2mb
CD2    41.43 266 iPd    31 39.00   0.8
        1.0s    33.00nm          5.0mb
GYA    42.27 258 P      31 45.60   0.4
        1.0s    18.00nm          4.8mb
KMI    45.79 260 eP     32 14.00   0.2
YKA    50.53  37 eP     32 56.20   6.4X
        0.8s     1.20nm          4.0mb
RES    50.58  19 eP     32 50.50   0.5
        0.9s     3.00nm          4.3mb
LSA    50.81 274 Pd     32 54.60   1.6
        1.0s    18.00nm          5.0mb
SWI    51.49 209 eP     33 07.00   9.4X
ARU    55.31 318 eP     33 24.00  -1.5
DAG    56.58 358 eP     33 34.20  -0.1
LRM    60.71  53 eP     34 03.50  -0.3
NDI    60.92 282 iPd    34 05.50   0.5
KAF    63.59 335 eP     34 21.60  -0.8
NUR    65.36 335 eP     34 33.00  -0.8
RSSD   66.35  50 eP     34 40.47  -0.3
        0.6s     2.22nm          4.4mb
PV10   67.46  58 eP     34 48.71   0.7
PV08   67.56  57 eP     34 49.01   0.4
UPP    67.83 338 iP     34 48.60  -0.9
NB2    68.32 341 P      34 51.90  -0.8
        0.7s    12.20nm          5.1mb
HFS    68.56 340 eP     34 52.80  -1.3
        0.5s     8.90nm          5.1mb
     Z  16s     0.04um          3.8MszX
                  LR     04 16.00
GBA    70.97 270 P      35 10.00   0.6
KSP    76.06 334 eP     35 38.70   0.1
SPC    76.24 331 eP     35 41.10   1.2
CLL    76.60 336 iPc    35 41.80   0.2
        0.8s    26.00nm          5.3mb
BRG    76.73 335 iP     35 42.10  -0.2
LTX    76.97  61 eP     35 43.50  -0.7
MLR    77.30 325 eP     35 45.50  -0.3
PRU    77.34 334 P      35 46.80   1.1
        0.7s     6.50nm          4.8mb
                  i     35 50.60
WTS    77.58 340 eP     35 49.00   2.1
        0.7s    13.00nm          5.1mb
MOX    77.59 336 eP     35 48.40   1.3
        1.0s    10.00nm          4.8mb
SRO    78.08 331 eP     35 53.30   3.5X
ZST    78.14 332 eP     35 51.10   1.0
KHC    78.39 335 eP     35 52.00   0.4
        1.0s     8.90nm          4.7mb
                  e     36 05.50
                  e     36 37.50
GRF    78.56 336 eP     35 53.40   0.9
        0.9s    35.00nm          5.4mb
GEC2   78.61 334 P      35 52.80  -0.1
        0.8s     3.74nm          4.5mb
                  e     35 57.70
ENN    78.93 340 eP     35 56.50   2.1
        0.7s    11.10nm          4.9mb
SNF    79.54 341 P      36 02.40   4.7X
DOU    79.86 340 Pc     36 01.60   2.1
KBA    80.30 334 iPd    36 03.00   0.9
        0.7s    16.50nm          5.1mb
                  i     36 04.60
WTTA   80.64 335 iPd    36 03.70  -0.2
        0.7s    15.40nm          5.1mb
                  i     36 06.10
CDF    80.78 338 eP     36 03.20  -1.3
        1.0s     9.00nm          4.7mb
HAU    81.39 339 eP     36 05.60  -2.0
        1.0s     9.60nm          4.7mb
BSF    81.44 338 eP     36 06.50  -1.5
        1.0s    12.40nm          4.9mb
GRR    82.64 343 eP     36 13.80  -0.3
        1.0s    15.40nm          5.0mb
LOR    82.68 340 eP     36 12.80  -1.6
        0.7s     4.85nm          4.7mb
LBF    82.92 340 eP     36 15.30  -0.3
        0.7s     3.00nm          4.5mb
SSF    82.96 340 eP     36 15.10  -0.7
        0.8s     4.85nm          4.6mb
OHR    83.00 326 eP     36 16.00  -0.2
AVF    83.25 340 eP     36 15.90  -1.3
        0.8s     7.50nm          4.8mb
SMF    83.27 340 eP     36 16.20  -1.2
        1.1s    16.10nm          5.0mb
LPL    83.60 337 eP     36 19.10  -0.3
        1.3s    14.10nm          4.9mb
LPG    83.61 337 eP     36 19.20  -0.3
        0.9s     7.70nm          4.8mb
MAF    83.97 340 eP     36 20.50  -0.4
        0.9s    10.50nm          4.9mb
TCF    83.99 341 eP     36 20.20  -0.9
        1.2s    11.60nm          4.8mb
LSF    84.18 341 eP     36 21.90  -0.1
        1.1s    11.70nm          4.9mb
     S.D. = 1.0  on  63 of  70 obs.
-------------------------------------
   OCT  10, 1993  23h 31m 11.81± 0.49s
   40.985 N ± 5.0km   20.157 E ± 4.8km
   DEPTH =   5.0km  (geophysicist)
 GREECE-ALBANIA BORDER REGION     (392)
     ML 3.1 (TIR).

TIR     0.42 329 iPgc   31 21.50   1.2
                 iSg    31 29.50
OHR     0.50  75 iPgc   31 21.50  -0.4
        0.5s  1980.00nm
                 iSg    31 29.10
KBN     0.60 127 iPgc   31 22.50  -1.3
                 iSg    31 33.00
TPE     0.70 189 ePg    31 25.50  -0.3
                 iSg    31 39.50
LACI    0.73 333 iPgc   31 25.20  -1.2
                 iSg    31 36.60
FNA     0.95 102 ePg    31 29.96  -0.4
                 eSg    31 45.32
SRN     1.11 186 ePn    31 37.50   4.4X
```

10d 23h

```
SDA     1.17 335 iPg   31 35.60   1.4
                iSg   31 55.00
ULC     1.19 325 iPgc  31 33.17  -1.3
                iSg   31 49.17
SKO     1.38  44 iPn   31 37.60  -0.1
      1.0s   770.00nm
                i     31 55.00
IGT     1.46 175 ePb   31 41.72   2 9X
                eSb   32 03.68
TTG     1.59 335 iPgc  31 40.55  -0.1
                iSg   32 03.52
PVY     1.61 355 iPnc  31 40.84  -0.3
                iSn   32 06.12
BDV     1.64 323 iPgd  31 41.09  -0.2
                iSg   32 03.37
GRG     1.70  90 ePb   31 42.17  -0.1
                eSb   32 06.72
IVA     1.89 354 iPnc  31 46.37   1.2
                iSn   32 12.73
HCY     1.92 320 iPnd  31 44.87  -0.5
                iSn   32 10.35
LIT     1.99 116 iPn   31 46.93   0.5
                eSn   32 17.32
KNT     2.08  84 ePn   31 49.48   1.7
                eSn   32 15.84
BRY     2.26 328 iPnd  31 50.02  -0.5
                iSn   32 19.41
PLE     2.41 347 iPnd  31 53.06   0.4
                iSn   32 24.49
SOH     2.43  93 ePn   31 52.24  -0.6
                eSn   32 24.88
AGG     2.58 139 ePn   31 57.00   2.1
                eSn   32 32.84
SRS     2.60  86 ePn   31 54.20  -1.1
                eSn   32 27.36
OUR     2.98 101 ePn   32 00.60   0.0
HVAR    3.52 310 e(Pn) 32 04.60  -3.7X
     S.D. = 1.0  on  23 of  26 obs.
-----------------------------------
   OCT  10, 1993  23h 38m 27.61± 1.51s
   11.947 N ±16.5km   88.626 W ±12.6km
   DEPTH =  33.0km  (normal)
   4.2mb (  5 obs.)
 OFF COAST OF CENTRAL AMERICA     ( 76)
      Felt (II) at San
      Salvador, El Salvador.

VSM     1.51  13 iPc   38 53.20   0.3
VSS     1.88 341 iPd   38 57.80  -0.4
TME     2.18 341 iPd   39 01.60  -0.7
YUP     2.52 333 ePd   39 07.39   0.1
                eS    39 29.71
IXG     2.84 321 eP    39 12.76   1.0
                eS    39 36.47
BVA     3.34 324 eP    39 18.55  -0.5
                eS    40 00.07
LTX    22.26 323 eP    43 24.12   0.7
MIAR   22.94 349 eP    43 29.46  -0.6
       0.8s     7.05nm          4.2mb
JSC    23.22  16 eP    43 33.28   0.6
WMOK   24.50 339 eP    43 45.12   0.0
       1.0s     7.33nm          4.2mb
PV10   32.00 329 eP    44 53.11  -0.3
RSSD   34.70 340 eP    45 16.85   0.2
       0.7s     2.30nm          4.2mb
ULM    38.65 353 eP    45 50.50   0.8
LRM    39.37 334 ePc   45 56.50   0.4
YKA    53.80 345 eP    47 47.20  -1.8
       0.9s     6.00nm          4.6mb
INK    63.34 343 eP    48 55.50   0.1
       0.8s     2.00nm          4.3mb
     S.D. = 0.7  on  16 of  16 obs.
-----------------------------------
&  OCT  11, 1993  00h 02m 09.67s
   63.064 N          151.041 W
   DEPTH = 131.6km
 CENTRAL ALASKA                   (  1)
      <AEIC>.

KTH     0.49   6 iPd   02 28.81  -0.4
                eS    02 42.88
TRF     0.52  41 iPd   02 29.08  -0.4
                eS    02 44.04
HUR     0.65  97 eP    02 29.83  -0.3
                eS    02 45.24
CUT     0.75 151 iPc   02 30.62  -0.2
                eS    02 46.66
RND     1.05  70 iPd   02 32.82  -0.7
                eS    02 52.30
SKT     1.11 192 iPc   02 33.71  -0.4
                iS    02 52.14
MCK     1.16  54 iPd   02 34.06  -0.6
                eS    02 52.00
BWN     1.32  32 eP    02 36.01  -0.2
PWA     1.52 159 iPc   02 38.00  -0.4
SUA     1.61 175 eP    02 39.69   0.0
                eS    03 02.61
GHO     1.63 142 ePc   02 39.15  -0.6
                eS    03 01.99
DHY     1.67  88 eP    02 39.58  -0.8
PLRM    1.73 148 ePc   02 39.78  -1.0
PMR     1.73 148 eP    02 39.11  -1.7
                eS    03 03.93
NCG     1.75 198 ePc   02 40.63  -0.6
NEA     1.75  29 iPd   02 39.95  -1.2
SML     1.78 134 iPc   02 40.54  -1.0
                eS    03 05.87
CGLM    1.82 195 eP    02 41.59  -0.5
CRP     1.88 197 eP    02 41.54  -1.3
CP2     1.89 198 eP    02 42.54  -0.5
BGL     1.92 200 eP    02 43.36   0.1
WRH     1.93  42 ePd   02 42.26  -1.0
CKT     1.95 197 eP    02 43.30  -0.3
SPU     1.95 195 eP    02 42.85  -0.7
                eS    03 07.96
PMS     1.95 159 eP    02 42.60  -1.0
CKL     1.97 199 eP    02 43.71  -0.2
MLY     1.98   4 eP    02 43.01  -0.9
KNK     2.05 143 eP    02 43.70  -1.1
BKG     2.08 197 eP    02 44.71  -0.5
                eS    03 11.45
SCM     2.12 124 eP    02 44.45  -1.3
CCB     2.14  41 ePd   02 44.75  -1.1
HDA     2.26  52 eP    02 46.20  -1.2
MDM     2.27  32 ePd   02 46.41  -1.1
TTA     2.27 269 ePc   02 47.00  -0.6
NKA     2.33 182 eP    02 49.41   1.2
FBA     2.33  36 eP    02 46.76  -1.6
CFI     2.44 139 eP    02 48.45  -1.1
TOA     2.45 111 ePc   02 49.10  -0.8
ILB     2.51  45 ePd   02 49.20  -1.4
                eS    03 18.82
GLM     2.51  38 ePd   02 49.59  -1.1
IL1     2.51  45 iPd   02 49.22  -1.4
PAX     2.54  90 ePc   02 50.16  -0.9
                eS    03 21.69
PWL     2.56 149 eP    02 49.78  -1.4
RDT     2.58 195 eP    02 51.57   0.0
SDG     2.58 100 eP    02 50.79  -0.8
SLKM    2.60 171 eP    02 50.84  -0.9
DFR     2.60 198 eP    02 51.38  -0.5
REF     2.70 198 P     02 53.00  -0.2
MPA     2.70 162 eP    02 51.78  -1.3
RED     2.78 198 eP    02 53.97  -0.2
TZL     2.80 109 eP    02 53.58  -0.7
KLU     2.87 121 eP    02 53.34  -1.9
SVW     2.91 230 eP    02 54.54  -1.3
VLZ     2.94 129 eP    02 53.86  -2.3
                eS    03 30.32
SEW     3.07 165 eP    02 56.55  -1.2
ILIM    3.13 198 eP    02 58.78   0.0
IM3     3.16 339 eP    02 57.87  -1.1
DOT     3.20  76 eP    02 58.07  -1.5
IMA     3.22 341 eP    03 00.89   0.9
HIN     3.44 139 eP    03 01.08  -1.7
CNPM    3.55 182 eP    03 03.68  -0.6
CVA     3.56 133 eP    03 02.96  -1.4
GLB     3.75 112 ePc   03 05.32  -1.7
SGAM    3.78 130 eP    03 04.37  -2.9
BC3     4.21  86 eP    03 10.39  -2.7
HMT     4.23 127 eP    03 11.38  -2.0
CRQM    4.39 118 eP    03 14.28  -1.5
TGL     4.52 117 eP    03 15.22  -2.1
BALM    4.57 113 eP    03 15.99  -2.0
BM3     5.14  29 ePd   03 23.67  -2.0
YAH     5.18 117 eP    03 24.31  -2.1
       71 obs. associated
-----------------------------------
&  OCT  11, 1993  00h 06m 52.73s
   59.338 N          152.159 W
   DEPTH =  61.5km
 SOUTHERN ALASKA                  (  2)
      <AEIC>. ML 2.8 (AEIC).

XLV     0.25  62 eP    07 02.22  -0.6
                eS    07 09.13
HOM     0.42  39 iP    07 03.66  -0.4
                eS    07 11.90
CNPM    0.51  68 eP    07 04.38  -0.6
                eS    07 14.24
AUE     0.62 272 eP    07 05.70  -0.5
OPT     0.63 300 iP    07 05.89  -0.5
                eS    07 16.37
AUP     0.65 273 eP    07 06.18  -0.5
                eS    07 16.76
AUI     0.65 270 eP    07 05.96  -0.6
                eS    07 16.11
AGU     0.65 272 eP    07 06.29  -0.4
AUL     0.65 274 eP    07 06.80   0.2
AUH     0.66 273 eP    07 06.31  -0.4
AUW     0.67 273 eP    07 06.60  -0.2
BRLK    0.78  56 eP    07 07.47  -0.7
                eS    07 19.18
ILIM    0.85 332 iP    07 08.22  -0.8
                eS    07 20.51
INE     0.86 328 eP    07 08.37  -0.9
                eS    07 20.48
CDD     0.87 242 eP    07 08.35  -0.9
                eS    07 20.93
RED     1.13 344 iP    07 12.16  -0.6
                eS    07 27.24
PDB     1.13 294 eP    07 12.31  -0.4
                eS    07 27.12
RSO     1.17 345 eP    07 12.97  -0.4
RS2     1.17 345 eP    07 12.94  -0.5
REF     1.19 347 iP    07 13.14  -0.5
                eS    07 28.94
RDW     1.19 344 iP    07 13.27  -0.5
                eS    07 29.14
RDT     1.25 354 iP    07 13.66  -0.7
                eS    07 29.93
DFR     1.29 348 iP    07 14.35  -0.6
                eS    07 30.75
NCT     1.29 343 eP    07 14.47  -0.5
                eS    07 31.67
NKA     1.48  18 eP    07 19.39   1.9
SLKM    1.53  39 eP    07 17.67  -0.5
SEW     1.57  60 eP    07 17.47  -1.3
KDC     1.60 186 P     07 18.10  -1.1
BKG     1.74 358 eP    07 20.85  -0.3
MPA     1.82  49 eP    07 22.71   0.5
SPU     1.85   2 eP    07 22.47  -0.2
CKL     1.87 357 eP    07 23.24   0.3
CP2     1.93 359 eP    07 23.39  -0.6
BGL     1.94 357 eP    07 24.25   0.3
CRP     1.94   0 eP    07 23.38  -0.6
                eS    07 47.05
CGLM    1.98   2 eP    07 24.54   0.0
NCG     2.07   0 eP    07 26.07   0.2
SUA     2.25  18 eP    07 28.61   0.3
PMS     2.31  33 P     07 28.80  -0.3
PWL     2.45  50 eP    07 29.92  -1.1
SVW     2.48 317 P     07 30.60  -0.9
PWA     2.58  25 P     07 33.00   0.2
SKT     2.67   6 eP    07 33.96  -0.2
KNK     2.78  40 eP    07 34.34  -1.4
GHO     2.92  32 eP    07 37.61  -0.2
       45 obs. associated
-----------------------------------
   OCT  11, 1993  01h 31m 51.11± 0.51s
   46.801 N ± 9.2km  153.772 E ± 7.7km
   DEPTH =  33.0km  (normal)
   4.8mb ( 42 obs.)  4.2Msz (  1 obs.)
 KURIL ISLANDS                    (221)

SKR     4.16  21 ePn   32 53.00  -0.9
KUR     4.40 251 ePn   33 00.50   3.2X
                eS    33 52.00
KUSJ    7.42 243 eP    33 37.00  -2.7
                eS    34 57.90
YSS     7.58 276 ePnd  33 45.00   3.1X
     Z  15s      1.50um
     N  15s      0.50um
     E  15s      1.30um
                eS    35 15.00
ASAJ    8.27 255 P     33 54.00   2.3X
HOOJ    8.69 243 eP    33 58.70   1.3
                eS    35 34.70
MRRJ   10.05 249 eP    34 15.40  -0.8
MAT    15.47 234 eP    35 26.00  -2.4
       1.3s    17.31nm          4.1mb
```

```
                (S)   39 38.00
MDJ    17.02 271 eP   35 50.00   2.0
CN2    20.10 272 eP   36 23.60  -1.0
       0.8s     6.00nm          4.0mb
     Z 16s     0.53um          4.0MszX
SNY    22.09 268 Pd   36 44.00  -0.8
       0.8s    15.00nm          4.5mb
ILT    25.42  24 eP   37 17.00   0.2
HHC    30.74 274 P    38 06.00   0.6
     Z 16s     0.59um          4.3MszX
TIY    31.60 268 eP   38 13.50   0.6
     Z 17s     0.72um          4.4MszX
FBA    35.84  38 (P)  38 54.00   4.9X
XAN    35.97 266 Pd   38 51.10   0.5
       1.0s     9.80nm          4.7mb
LZH    38.34 272 eP   39 10.00  -0.6
       1.4s    28.00nm          4.9mb
     Z 20s     0.40um          4.2Msz
                pP    39 18.00  27kmX
GTA    39.41 279 eP   39 20.00   0.5
       1.0s     4.00nm          4.1mb
CD2    41.33 266 eP   39 36.30   1.0
       1.0s    39.00nm          5.1mb
GYA    42.17 258 P    39 43.00   0.7
       1.0s    24.00nm          4.9mb
YKA    50.61  37 eP   40 47.90  -0.5
       0.8s     1.40nm          4.0mb
LSA    50.72 274 P    40 51.80   1.6
       0.8s    34.00nm          5.4mb
CHTO   52.57 257 eP   41 04.50   0.8
ARU    55.28 318 eP   41 21.00  -2.2
HNR    56.25 173 eP   41 25.00  -5.5X
DAG    56.62 358 eP   41 31.50  -1.0
NEW    56.79  53 eP   41 34.20   0.0
       1.0s     3.50nm          4.3mb
LRM    60.80  53 eP   42 03.10   0.7
NDI    60.84 282 iPd  42 01.80  -0.6
KAF    63.59 335 eP   42 17.90  -2.4
NUR    65.35 335 eP   42 30.20  -1.6
RSSD   66.44  50 eP   42 38.39  -1.0
       0.8s     3.01nm          4.4mb
UPP    67.83 338 iP   42 46.30  -1.2
NB2    68.33 341 P    42 49.40  -1.3
       0.8s    14.70nm          5.1mb
HFS    68.57 340 eP   42 50.50  -1.6
       0.7s     8.00nm          4.9mb
NAO    68.60 342 P    42 49.00  -3.4X
WRA    68.71 200 P    42 54.20   0.8
       0.9s     0.70nm          3.7mb X
GBA    70.88 270 P    43 07.00   0.2
       0.8s     4.00nm          4.5mb
KSP    76.06 334 eP   43 36.40  -0.2
SPC    76.23 331 eP   43 38.00   0.2
CLL    76.60 336 iP   43 39.40  -0.2
       0.9s    32.00nm          5.3mb
                e     43 58.00
VRI    76.66 325 eP   43 40.00  -0.1
BRG    76.73 335 iP   43 40.20  -0.1
LTX    77.07  61 eP   43 42.06  -0.7
                e     44 00.21
MLR    77.28 325 ePd  43 43.00  -0.7
PRU    77.34 334 eP   43 43.80   0.1
PSZ    77.44 330 ePc  43 45.00   0.6
WTS    77.58 340 eP   43 46.00   1.0
       0.7s    12.30nm          5.0mb
MOX    77.59 336 eP   43 45.70   0.6
       1.1s    14.00nm          4.9mb
SRO    78.07 331 eP   43 50.70   3.0X
ZST    78.13 332 iP   43 49.00   0.9
KHC    78.39 335 P    43 49.50  -0.1
       1.0s     8.90nm          4.7mb
                e     44 06.00
GRF    78.56 336 eP   43 50.80   0.3
       0.8s    23.00nm          5.2mb
GEC2   78.61 334 eP   43 49.80  -1.1
       0.7s     2.86nm          4.4mb
                e     43 54.40
ENN    78.93 340 eP   43 54.00   1.6
       0.8s    11.90nm          4.9mb
KBA    80.30 334 iPd  44 00.60   0.5
       0.7s    15.90nm          5.1mb
                i     44 01.90
PTJ    80.52 332 eP   44 01.80   0.6
ZAG    80.59 332 eP   44 02.50   1.1
WATA   80.59 335 iPd  44 02.00   0.4
WTTA   80.64 335 iPd  44 02.40   0.5
       0.7s    14.20nm          5.1mb
                i     44 03.60
MOTA   80.72 335 iPd  44 02.60   0.3
       0.9s    16.80nm          5.0mb
CDF    80.78 338 eP   44 02.70   0.2
       1.0s     9.40nm          4.7mb
SQTA   80.80 335 iPd  44 03.10   0.4
       0.9s    10.40nm          4.8mb
                i     44 04.20
HAU    81.39 339 eP   44 05.60  -0.1
       0.9s     6.90nm          4.7mb
BSF    81.44 338 eP   44 06.80   0.8
       0.9s     6.20nm          4.6mb
LDF    82.31 343 eP   44 10.20  -0.2
       1.0s    10.40nm          4.8mb
GRR    82.65 343 eP   44 12.20   0.1
       1.2s    27.05nm          5.2mb
LOR    82.69 340 eP   44 12.20  -0.2
       0.9s     7.70nm          4.8mb
LBF    82.93 340 eP   44 14.00   0.3
       0.8s     3.35nm          4.5mb
SSF    82.96 340 eP   44 14.50   0.7
       0.8s     4.45nm          4.6mb
OHR    82.99 326 eP   44 13.70  -0.4
LPF    83.03 343 eP   44 14.00  -0.1
AVF    83.26 340 eP   44 15.40   0.1
       0.8s     6.70nm          4.8mb
SMF    83.28 340 eP   44 15.60   0.2
       1.0s    13.20nm          5.0mb
LPL    83.60 337 eP   44 18.10   0.7
       1.4s    15.70nm          5.0mb
LPG    83.61 337 eP   44 18.60   1.1
       1.3s    12.25nm          4.9mb
MAF    83.97 340 eP   44 19.50   0.5
       1.1s    14.90nm          5.1mb
TCF    83.99 341 eP   44 19.40   0.3
       1.0s     8.20nm          4.8mb
LSF    84.18 341 eP   44 20.40   0.4
       0.9s     6.40nm          4.8mb
MFF    84.21 342 eP   44 21.00   0.9
       0.8s     6.30nm          4.8mb
NVL   149.87 204 (PKP) 51 38.00   5.2X
     S.D. = 1.0  on  73 of  81 obs.
-----------------------------------
&  OCT  11, 1993  01h 35m 53.34s
   33.254 N          116.234 W
   DEPTH =   9.4km
 SOUTHERN CALIFORNIA                ( 43)
     <PAS-P>. ML 3.0 (PAS).

PLM     0.53 281 iPc   36 03.63  -0.6
PEC     1.00 310 iPc   36 11.56  -0.8
                eS    36 24.37
GLA     1.20  99 iPc   36 13.14  -2.6
SSK     1.55 309 iPc   36 21.10  -0.1
                eS    36 41.85
GSC     2.10 347 iPc   36 31.94   2.8
                eS    37 00.67
        5 obs. associated
-----------------------------------
*  OCT  11, 1993  02h 33m 37.06± 1.87s
   47.044 N ± 6.4km   10.880 E ±16.7km
   DEPTH =  10.0km  (geophysicist)
 AUSTRIA                            (546)
     ML 2.3 (FUR), 1.9 (VIE).

OGA     0.20 150 iPgd  33 41.60   0.0
SQTA    0.29  52 iPgc  33 43.50   0.4
                iSg   33 48.90
MOTA    0.34  27 iPgc  33 43.70  -0.4
                iSg   33 50.40
WATA    0.56  58 iPgc  33 48.30  -0.2
                iSg   33 58.50
WTTA    0.56  67 iPgc  33 48.60   0.0
                iSg   33 58.70
FUR     1.15  13 ePg   33 58.90   0.2
KBA     1.69  88 iPgc  34 11.00   4.1X
                iSg   34 34.50
KHC     2.76  40 ePg   34 31.50   9.3X
                eSg   35 06.50
     S.D. = 0.4  on   6 of   8 obs.
-----------------------------------
*  OCT  11, 1993  03h 00m 51.13± 1.98s
   47.042 N ± 6.6km   10.865 E ±17.2km
   DEPTH =  10.0km  (geophysicist)
 AUSTRIA                            (546)
     ML 2.1 (FUR), 1.8 (VIE).

OGA     0.21 148 iPgd  00 55.70   0.0
SQTA    0.30  53 iPgc  00 57.60   0.2
                iSg   01 03.40
MOTA    0.34  28 iPgc  00 57.80  -0.5
                iSg   01 04.90
WATA    0.57  59 iPgc  01 02.70  -0.1
                iSg   01 12.60
WTTA    0.57  67 iPgd  01 02.90   0.0
                iSg   01 12.80
FUR     1.16  14 ePg   01 13.10   0.3
KBA     1.70  88 iPgc  01 25.10   4.0X
                iSg   01 48.60
KHC     2.77  40 ePg   01 45.00   8.6X
                eSg   02 19.50
     S.D. = 0.4  on   6 of   8 obs.
-----------------------------------
?  OCT  11, 1993  04h 05m 11.42± 0.66s
    9.838 N ±18.8km   78.282 W ± 6.0km
   DEPTH =  33.0km  (normal)
   4.3mb (  1 obs.)
 PANAMA                             ( 81)
     MD 4.4 (UPA). Felt in eastern
     Panama.

UPA     1.50 236 iP    05 35.60  -0.7
                eS    05 46.20
BRU     4.35 257 eP    06 17.00  -0.3
                eS    07 03.20
DVD     4.35 252 eP    06 18.00   1.1
                eS    07 01.80
SDV     7.61  97 ePn   07 02.20  -0.8
                iSn   08 24.20
TOV     8.37  90 ePn   07 14.50   1.0
                eSn   08 41.00
CEOS    9.85  94 eP    07 31.20  -2.7X
                iS    09 16.10
MORO    9.86  83 eP    07 33.40  -0.7
OLLA   11.31  88 eP    07 54.60   0.6
ALQ    35.86 319 eP    12 10.20  -0.3
       1.0s     3.75nm          4.3mb
WRA   146.97 249 PKP   24 53.30   2.2X
       0.7s     0.40nm
     S.D. = 1.0  on   8 of  10 obs.
-----------------------------------
   OCT  11, 1993  04h 33m 06.73± 0.32s
   44.618 N ± 2.7km    6.344 E ± 3.1km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                             (538)
     ML 2.5 (LDG), 2.5 (GEN).

RRL     0.44  46 P     33 15.74   0.1
                S     33 22.29
PZZ     0.55 102 P     33 17.30  -0.8
                S     33 24.35
BHB     0.69  71 P     33 19.96  -0.5
                S     33 28.74
RSP     0.84  50 P     33 23.07   0.0
                S     33 33.55
LPG     0.93  18 Pg    33 24.80   0.2
                Sg    33 38.60
LPL     0.94  17 Pg    33 25.00   0.2
                Sg    33 40.20
LSD     1.02  34 P     33 25.86  -0.3
FRF     1.08 168 Pg    33 26.80  -0.2
                Sg    33 42.50
SBF     1.09 134 Pg    33 28.30   1.1
                Sg    33 43.80
ROB     1.14 106 P     33 27.32  -0.8
LRG     1.16 179 Pg    33 28.60   0.1
                Sg    33 44.70
LMR     1.29 175 Pg    33 30.20  -0.4
                Sg    33 47.40
IMI     1.32 122 P     33 31.21   0.1
FIN     1.40 106 P     33 31.95  -0.3
PCP     1.58  92 P     33 36.05   1.2
LBF     2.89 326 Pn    33 53.10  -0.5
AVF     3.02 317 Pn    33 55.40   0.0
BGF     3.13 310 Pn    33 56.90  -0.1
                Pg    34 06.50
SSF     3.15 322 Pn    33 57.30   0.1
TCF     3.35 301 Pn    34 00.20  -0.1
     S.D. = 0.5  on  20 of  20 obs.
-----------------------------------
&  OCT  11, 1993  05h 05m 42.59s
   32.380 N          115.053 W
   DEPTH =   6.0km  (geophysicist)
 CALIF.-BAJA CALIF. BORDER REGION( 45)
```

11d 05h

<PAS-P>. ML 3.0 (PAS).

GLA	0.70	16	eP	05 54.67	-1.9
PLM	1.81	303	(P)	06 12.06	-2.6
PEC	2.32	311	(P)	06 20.67	-1.4
SSK	2.87	310	(P)	06 28.71	-1.2
GSC	3.26	334	(P)	06 40.74	5.4
TUC	3.61	90	(P)	06 35.92	-4.4
ARUT	5.55	13	(P)	07 07.26	-0.7
PV10	7.74	38	(P)	07 37.71	-1.0

8 obs. associated

OCT 11, 1993 05h 19m 13.74± 0.60s
38.136 N ± 6.0km 23.045 E ± 8.1km
DEPTH = 12.8 ± 4.4 km
GREECE (364)
ML 3.4 (THE). MD 3.2 (ATH).

ATH	0.56	107	ePn	19 26.00	1.2
AGG	1.05	328	ePg	19 33.64	0.4
			eSg	19 48.76	
VLI	1.42	183	ePn	19 36.50	-2.7
VLS	1.94	272	ePn	19 47.00	0.3
LIT	2.01	348	ePb	19 47.36	-0.4
			eSb	20 13.00	
OUR	2.31	18	iPn	19 51.64	-0.4
KZN	2.38	336	ePn	19 52.00	-1.2
IGT	2.54	304	iPn	19 57.32	2.1
SOH	2.69	5	ePn	19 57.68	0.1
			eSn	20 28.28	
GRG	2.86	350	ePn	19 59.80	-0.1
VAM	2.88	161	ePn	20 02.00	1.9
FNA	2.94	334	ePn	20 01.56	0.5
SRS	3.01	8	ePn	20 01.44	-0.5
KNT	3.02	358	ePn	20 02.04	-0.1
			eSn	20 37.00	
OHR	3.44	330	ePn	20 08.50	0.4
NPS	3.53	143	ePn	20 09.00	-0.4
GEC2	12.66	331	P	22 25.30	9.0X
	0.6s		0.42nm		3.8mb X

S.D. = 1.3 on 16 of 17 obs.

? OCT 11, 1993 05h 40m 44.34± 3.55s
18.531 N ±25.2km 119.246 E ±24.3km
DEPTH = 33.0km (normal)
PHILIPPINE ISLANDS REGION (248)

PIP	1.32	99	iPc	41 06.50	-0.1
			iS	41 20.50	
SZP	1.51	130	iPc	41 09.00	-0.3
BAG	2.46	149	ePc	41 22.80	-0.4
	0.9s		396.64nm		
BCP	2.47	148	eP	41 24.00	0.6
			eS	41 51.20	
CVP	2.58	108	ePd	41 25.00	0.2
			eS	41 49.00	
QCP	4.25	155	eP	42 04.40	16.0X
GQP	5.53	146	eP	42 12.00	5.4X
WR2	41.02	158	eP	48 26.20	0.0
	0.7s		7.20nm		4.5mb

S.D. = 0.5 on 6 of 8 obs.

& OCT 11, 1993 06h 04m 26.31s
34.082 N 117.863 W
DEPTH = 4.5km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 2.3 (PAS). Felt.

SSK	0.19	48	iPc	04 30.35	0.1
			eS	04 33.49	
PEC	0.61	108	eP	04 37.48	-1.1
			eS	04 45.76	
PLM	1.11	131	eP	04 46.25	-1.5
ABL	1.36	305	eP	04 50.90	-1.2
GSC	1.50	35	eP	04 54.29	0.3
ISA	1.66	343	eP	04 55.43	-0.8

6 obs. associated

& OCT 11, 1993 06h 37m 03.78s
36.875 N 121.280 W
DEPTH = 5.7km
CENTRAL CALIFORNIA (39)
<GM-P>. MD 3.0 (GM).

SAO	0.17	230	eP	37 07.21	-0.2
COE	0.49	321	eP	37 14.07	0.4
			eS	37 23.58	
ARN	0.51	337	ePd	37 14.11	0.0
			eS	37 21.85	
JEGM	1.14	304	eP	37 24.17	-1.3
HMR	1.34	342	eP	37 27.93	-1.0
CMB	1.36	31	eP	37 27.29	-2.0
			eS	37 42.78	
NTYM	1.87	324	eP	37 34.70	-1.9
MMPM	1.94	67	eP	37 37.94	0.0
			eS	38 03.65	
BCH	1.95	150	ePc	37 36.43	-1.4
MEMM	2.03	66	eP	37 39.69	0.8
			eS	38 06.41	
MTUM	2.22	77	eP	37 42.25	0.3
			eS	38 11.94	
MRCM	2.35	69	eP	37 44.84	1.0
			eS	38 17.61	
ISA	2.57	117	eP	37 45.47	-1.3
			eS	38 19.98	
BONR	2.60	65	eP	37 47.75	0.3
ABL	2.62	140	eP	37 45.81	-1.8
ORV	2.68	356	eP	37 47.55	-0.7
TNP	3.45	68	(Pn)	37 58.44	-0.9
GSC	3.95	112	eP	38 04.99	-1.4
TPNV	4.03	87	ePn	38 08.52	0.9

19 obs. associated

% OCT 11, 1993 06h 58m 40.12± 0.66s
26.231 S ± 6.4km 28.150 E ± 7.5km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)

SLR	0.51	14	iPc	58 50.20	-0.1
			S	58 57.70	
PRY	0.92	221	eP	58 58.50	0.2
			S	59 07.80	
KSR	1.19	288	eP	59 02.50	-0.3
BFS	1.39	241	eP	59 07.20	0.9
			S	59 26.50	
BFT	1.79	73	eP	59 12.30	0.2
			S	59 39.50	
SEK	2.14	193	eP	59 16.80	-0.3
			S	59 41.00	
BLF	3.35	211	eP	59 33.80	-0.6

S.D. = 0.6 on 7 of 7 obs.

& OCT 11, 1993 07h 19m 45.23s
36.584 N 121.174 W
DEPTH = 6.4km
4.1mb (3 obs.)
CENTRAL CALIFORNIA (39)
<GM-P>. MD 4.1 (GM). ML 4.1 (BRK). Felt (V) at Marina and (IV) at Aromas, Hollister and Soledad. Also felt at Salinas.

LLA	0.19	80	iP	19 50.14	1.0
			iS	19 53.45	
SAO	0.28	310	iPc	19 50.82	-0.2
PRS	0.30	212	iPd	19 51.08	-0.2
PRI	0.60	137	iPd	19 57.30	0.0
COE	0.78	329	iPc	20 01.08	0.3
GCC	0.80	304	iP	19 59.89	-1.1
ARN	0.82	339	iPd	20 01.59	0.2
MHC	0.84	334	ePc	20 01.90	-0.1
			iS	20 14.26	
PKEM	1.01	121	eP	20 05.20	0.6
STAN	1.15	316	ePc	20 05.76	-1.2
			iS	20 20.87	
FRI	1.24	70	iP	20 07.82	-0.9
PCC	1.33	314	iP	20 08.17	-1.9
JEGM	1.39	312	eP	20 08.87	-2.2
			eS	20 29.28	
BKS	1.54	327	iPd	20 11.08	-2.2
			i	20 11.35	
CMB	1.58	23	ePd	20 12.81	-1.0
			eS	20 31.65	
ZSP	1.61	328	iPd	20 12.92	-1.3
HMR	1.65	343	ePd	20 14.23	-0.5
BCH	1.65	147	ePd	20 12.96	-2.0
MMPM	2.00	59	ePc	20 20.71	0.5
			eS	20 47.02	
MEMM	2.09	58	ePc	20 22.05	0.9
			eS	20 49.83	
NTYM	2.16	327	ePd	20 20.21	-1.9
MTUM	2.23	69	iPc	20 24.09	0.7
			eS	20 53.88	
ABL	2.35	137	ePn	20 22.64	-2.5
ISA	2.37	112	ePn	20 24.42	-0.9
MRCM	2.39	62	ePn	20 26.83	1.1
			eS	20 58.45	
BONR	2.67	58	eP	20 30.28	0.5
ORV	2.98	355	ePc	20 32.34	-1.5
			eS	21 11.76	
TNP	3.49	63	ePn	20 41.58	0.3
SSK	3.70	129	ePn	20 43.34	-1.0
GSC	3.77	109	ePn	20 43.50	-1.7
MIN	3.77	355	eP	20 44.89	-0.4
LMEM	3.96	356	(Pn)	20 49.40	1.5
TPNV	3.97	83	ePn	20 47.72	-0.4
WDC	4.13	345	ePn	20 47.70	-2.5
PEC	4.24	128	eP	20 49.45	-2.4
PLM	4.79	131	eP	20 57.50	-2.3
LBFM	4.79	354	eP	20 59.50	-0.3
ARUT	6.29	77	eP	21 20.81	-0.1
GLA	6.30	122	eP	21 17.66	-3.3
MSU	7.40	72	eP	21 37.38	0.7
DUG	7.49	59	eP	21 38.95	1.2
HVU	8.33	49	(P)	21 53.85	4.3
DAU	8.66	61	eP	21 55.76	1.4
SRU	8.79	70	eP	21 56.25	0.3
TUC	9.58	113	eP	22 06.35	-0.4
PV09	9.75	75	eP	22 10.72	1.4
PV10	9.81	76	eP	22 10.31	0.2
PV08	10.14	75	eP	22 15.37	0.7
LRM	11.32	33	eP	22 43.30	12.6
NEW	12.05	13	eP	22 42.61	2.3
RSSD	15.06	55	(P)	23 23.43	3.0
	1.2s		8.86nm		4.1mb
LTX	16.36	111	eP	23 38.81	1.7
MIAR	22.52	87	eP	24 46.15	-0.8
	0.9s		9.26nm		4.3mb
FBA	32.47	339	(P)	26 19.24	1.1
	0.5s		1.08nm		4.0mb

54 obs. associated

& OCT 11, 1993 07h 27m 46.02s
36.592 N 121.180 W
DEPTH = 5.1km
CENTRAL CALIFORNIA (39)
<GM-P>. MD 3.0 (GM).

COE	0.77	329	eP	28 01.82	0.3
ISA	2.38	112	eP	28 26.19	-0.2

2 obs. associated

OCT 11, 1993 07h 55m 56.36± 0.33s
24.922 S ± 7.2km 179.977 W ± 5.4km
DEPTH = 500.0km (geophysicist)
5.0mb (18 obs.)
SOUTH OF FIJI ISLANDS (171)

DZM	12.78	280	iPd	58 45.40	1.1
			i	01 05.60	
PUZ	13.20	186	eP	58 48.40	0.0
WLZ	13.45	195	eP	58 55.80	4.8X
URZ	13.53	190	eP	58 51.30	-0.5
NOZ	13.76	187	eP	58 54.80	0.6
PGZ	15.96	190	eP	59 17.30	0.9
MNG	16.11	193	eP	59 14.80	-3.1X
CAW	16.66	193	eP	59 22.80	-0.5
MRW	16.86	194	eP	59 23.50	-1.8
TCW	16.94	195	eP	59 25.40	-0.6
QRZ	17.05	200	P	59 28.70	1.6
THZ	17.81	198	eP	59 35.60	1.1
LTZ	18.93	198	P	59 45.50	0.1
ARMA	25.70	251	iPc	00 48.70	1.0
	0.7s		15.00nm		4.6mb
CNB	28.37	241	iPc	01 12.30	1.3
CAN	28.66	241	iPd	01 14.30	0.8
BWA	28.95	244	iPd	01 14.60	-1.4
			i	01 18.00	
PPT	29.22	81	iPd	01 18.00	-0.4
	0.8s		70.10nm		5.2mb
PPN	29.36	81	iPd	01 19.20	-0.5
	0.6s		16.10nm		4.7mb
TVO	29.44	82	iPd	01 19.80	-0.6
	0.7s		80.90nm		5.4mb
CTA	31.52	272	iP	01 38.10	-0.1
	0.9s		54.62nm		5.1mb
			i	01 42.50	
PMO	31.65	78	iPd	01 38.90	-0.4
	0.9s		30.50nm		4.8mb
VAH	31.80	79	iPd	01 40.10	-0.4
	0.8s		17.70nm		4.6mb

```
TPT     31.91  78 iPd   01 41.20  -0.2
        0.9s    72.40nm          5.2mb
TOO     31.92 238 iPd   01 42.60   1.1
        0.4s    27.00nm          5.1mb
RUV     32.04  79 iPd   01 42.10  -0.4
        0.9s    27.50nm          4.8mb
STK     34.38 249 iPd   02 02.50   0.4
        0.4s    20.20nm          5.0mb
ADE     36.95 244 iPd   02 23.80   0.4
QIS     37.43 268 eP    02 27.00  -0.5
WR2     42.34 267 iPc   03 06.10  -1.1
        0.4s   121.90nm          5.8mb
                iScP    07 54.70
                eS      08 47.10
WRA     42.37 267 P     03 06.70  -0.7
        0.5s    30.30nm          5.1mb
FORT    45.98 250 iPd   03 34.10  -1.4
        0.5s    36.00nm          5.2mb
MBL     55.13 261 iPd   04 41.20  -1.7
        0.3s    15.00nm          4.8mb
MRWA    56.56 250 iPd   04 51.30  -1.5
        0.3s     7.00nm          4.5mb
CSY     59.21 206 iPc   05 14.40   4.2X
        0.6s    34.30nm          5.0mb
PLM     83.43  49 eP    07 32.77   0.9
GLA     84.67  50 eP    07 39.00   1.2
TUC     87.12  52 ePc   07 51.80   2.1
        1.1s     6.38nm          4.3mb
SRU     90.88  47 eP    08 07.31   0.3
NB2    143.09 351 PKP   14 29.80  -3.8X
        0.6s     1.80nm
HFS    143.55 349 ePKP  14 30.40  -4.0X
        0.4s     9.20nm
KSP    151.24 338 iPKP  14 53.00   6.1X
CLL    151.83 343 iPKPc 14 54.30   6.6X
BRG    151.96 341 iPKP  14 54.80   6.9X
BCAO   152.95 224 iPKPc 14 58.10   7.7X
        0.5s     8.00nm
                i       15 12.00
     S.D. = 1.0  on  36 of  45 obs.
-----------------------------------
%  OCT  11, 1993  08h 09m 00.43± 1.38s
   39.131 N ± 7.8km   27.711 E ±17.3km
   DEPTH =   5.0km  (geophysicist)
 TURKEY                            (366)
     ML 2.8 (ISK).

IZM     0.81 206 ePg    09 16.70   0.0
                eSg     09 30.20
EDC     1.22   5 ePn    09 24.20   0.6
EZN     1.28 303 ePn    09 24.80   0.2
KGT     1.36 347 ePn    09 25.70  -0.2
MFT     1.69 349 iPn    09 30.10  -0.7
     S.D. = 0.7  on   5 of   5 obs.
-----------------------------------
&  OCT  11, 1993  08h 11m 14.75s
   63.112 N          150.901 W
   DEPTH = 131.3km
 CENTRAL ALASKA                    (  1)
     <AEIC>.

TRF     0.44  39 iPd    11 33.71  -0.4
                eS      11 48.35
KTH     0.44 359 iPd    11 33.56  -0.4
                eS      11 47.02
HUR     0.59 103 eP     11 34.64  -0.1
                eS      11 49.48
CUT     0.77 157 iPd    11 35.68  -0.3
RND     0.97  71 eP     11 37.18  -0.7
MCK     1.08  54 eP     11 38.35  -0.5
                eS      11 56.25
SKT     1.17 195 iPd    11 39.24  -0.5
                eS      11 58.18
BWN     1.24  30 eP     11 40.60   0.1
PWA     1.54 162 iPc    11 43.60  -0.1
DHY     1.61  90 ePc    11 44.13  -0.5
                eS      12 06.96
GHO     1.63 145 ePc    11 44.44  -0.4
                eS      12 07.67
SUA     1.66 177 eP     11 45.18   0.0
                eS      12 08.08
PLRM    1.73 151 ePc    11 45.07  -0.9
PMR     1.73 151 eP     11 44.54  -1.4
SML     1.77 136 ePc    11 45.57  -0.9
                eS      12 10.66
NCG     1.81 199 eP     11 46.45  -0.6
                eS      12 11.74
WRH     1.85  41 eP     11 46.35  -1.0
CGLM    1.88 196 eP     11 47.21  -0.7
MLY     1.93   2 eP     11 47.15  -1.2
CRP     1.94 198 eP     11 45.75  -2.9
CP2     1.96 199 eP     11 48.07  -0.9
                eS      12 13.88
PMS     1.98 161 ePc    11 48.20  -0.8
BGL     1.98 201 eP     11 49.29   0.2
SPU     2.01 196 eP     11 48.80  -0.6
CKT     2.01 198 eP     11 49.10  -0.4
KNK     2.05 145 eP     11 48.97  -0.9
CCB     2.06  40 eP     11 48.93  -1.0
SCM     2.10 126 eP     11 49.62  -0.9
BKG     2.15 198 eP     11 50.54  -0.6
HDA     2.18  52 eP     11 50.52  -1.0
MDM     2.20  31 eP     11 50.60  -1.1
FBA     2.26  36 eP     11 51.04  -1.4
TTA     2.34 268 eP     11 52.00  -1.5
                eS      12 19.19
NKA     2.38 184 eP     11 54.37   0.4
TOA     2.41 113 ePc    11 53.80  -0.6
CFI     2.43 141 eP     11 53.52  -1.1
                eS      12 24.84
ILB     2.43  45 eP     11 53.31  -1.3
                eS      12 23.25
IL1     2.43  45 eP     11 53.27  -1.4
GLM     2.44  38 eP     11 53.77  -1.0
PAX     2.48  91 ePc    11 54.70  -0.7
                eS      12 24.82
DJE     2.51  66 eP     11 54.98  -0.7
                eS      12 25.21
SDG     2.53 101 eP     11 55.33  -0.6
                eS      12 26.92
PWL     2.56 151 eP     11 55.17  -1.2
SLKM    2.63 173 eP     11 56.33  -0.9
                eS      12 27.94
RDT     2.65 196 eP     11 57.03  -0.4
DFR     2.67 199 eP     11 57.51  -0.3
MPA     2.73 164 eP     11 57.50  -1.0
NCT     2.73 202 eP     11 58.66   0.0
TZL     2.75 110 eP     11 58.28  -0.5
REF     2.77 199 eP     11 59.03  -0.1
KLU     2.84 123 eP     11 58.31  -1.7
                eS      12 32.69
VLZ     2.93 131 eP     11 58.84  -2.1
SVW     2.99 230 ePd    12 00.80  -1.2
SEW     3.10 166 eP     12 01.97  -1.3
DOT     3.13  77 eP     12 02.29  -1.4
IM3     3.13 338 iPc    12 02.28  -1.5
IMA     3.20 339 eP     12 03.54  -1.3
INE     3.23 200 P      12 07.10   1.9
HIN     3.43 141 eP     12 06.20  -1.6
CVA     3.55 134 eP     12 08.36  -0.9
CNPM    3.60 183 eP     12 09.00  -1.0
GLB     3.71 114 eP     12 10.18  -1.4
SGAM    3.76 132 eP     12 10.14  -2.0
BC3     4.14  87 iPc    12 15.30  -2.0
HMT     4.21 128 eP     12 16.22  -2.0
CRQM    4.36 119 eP     12 19.07  -1.3
BALM    4.53 114 eP     12 20.80  -1.8
BM3     5.07  29 eP     12 28.14  -1.6
        68 obs. associated
-----------------------------------
%  OCT  11, 1993  08h 18m 35.57± 1.48s
   39.252 N ± 7.7km   27.789 E ±17.5km
   DEPTH =   5.0km  (geophysicist)
 TURKEY                            (366)
     ML 2.7 (ISK).

IZM     0.95 206 ePg    18 54.20   0.1
                eSg     19 07.90
EDC     1.10   3 ePn    18 56.30  -0.3
KGT     1.26 343 ePn    19 00.20   0.9
EZN     1.27 297 iPn    18 59.30  -0.3
MFT     1.58 346 ePn    19 04.00  -0.4
     S.D. = 0.7  on   5 of   5 obs.
-----------------------------------
&  OCT  11, 1993  08h 56m 55.99s
   36.585 N          121.174 W
   DEPTH =   6.7km
 CENTRAL CALIFORNIA                ( 39)
     <GM-P>. MD 3.2 (GM). ML 3.1
     (BRK).

SAO     0.28 310 iPc    57 01.55  -0.2
PRS     0.30 212 iP     57 01.90  -0.2
COE     0.78 329 iPc    57 11.85   0.3
GCC     0.80 304 iP     57 10.74  -1.0
ARN     0.82 339 iPd    57 12.22   0.1
                eS      57 24.59
MHC     0.84 334 eP     57 12.73   0.1
                eS      57 24.53
PKEM    1.01 121 eP     57 15.64   0.3
                eS      57 32.68
STAN    1.14 316 ePd    57 16.51  -1.2
                eS      57 31.36
FRI     1.24  71 iP     57 18.57  -0.8
PCC     1.33 314 iP     57 19.03  -1.8
JEGM    1.39 312 eP     57 19.68  -2.1
BKS     1.54 327 eP     57 22.51  -1.4
CMB     1.58  23 eP     57 23.64  -0.9
                e       57 44.97
HMR     1.64 343 eP     57 24.86  -0.5
BCH     1.65 147 eP     57 23.89  -1.8
MMPM    2.00  59 ePn    57 31.39   0.5
                eS      57 57.46
MEMM    2.09  58 ePn    57 32.38   0.6
                eS      58 01.55
NTYM    2.16 327 eP     57 30.79  -2.0
MTUM    2.23  69 ePn    57 34.13   0.0
                eS      58 03.68
ABL     2.35 137 ePn    57 33.82  -2.1
ISA     2.37 112 ePn    57 34.96  -1.1
MRCM    2.39  62 (Pn)   57 37.30   0.8
BONR    2.67  58 ePn    57 41.40   0.9
ORV     2.98 355 eP     57 43.79  -0.7
TNP     3.49  63 ePn    57 56.83   4.8
SSK     3.70 129 ePn    57 54.31  -0.7
GSC     3.77 109 ePn    57 54.67  -1.3
TPNV    3.97  83 ePn    57 59.18   0.4
        28 obs. associated
-----------------------------------
*  OCT  11, 1993  09h 13m 01.81± 0.73s
   24.795 N ±15.9km   63.266 E ±10.6km
   DEPTH =  24.0km  (  8 depth phases)
   4.6mb ( 18 obs.)  4.5Msz (  1 obs.)
 OFF COAST OF PAKISTAN             (356)

BOM    10.63 122 eP     15 34.80  -1.0
                eS      17 55.30
POO    11.64 120 eP     15 48.50  -1.1
                iS      17 57.70
MAIO   11.92 345 eP     16 07.00  13.7X
NDI    13.05  70 eP     16 03.50  -4.9X
                eS      18 18.50
GBA    17.39 127 Pd     17 09.50   5.0X
        0.7s     5.00nm          3.8mb
KOD    19.80 135 eP     17 39.00   5.1X
FRU    20.28  25 iPc    17 37.50  -1.0
        2.0s    40.00nm          4.4mb
                e       17 48.80  48kmX
ERE    21.98 319 iP     17 57.00   1.2
GRO    23.47 326 eP     18 15.00   4.7X
                i       18 20.00  18km
LSA    25.24  73 P      18 33.00   4.9X
PYA    25.30 324 eP     18 29.00   1.0
        1.0s   100.00nm          5.4mb
                i       18 38.00  32km
                i       19 09.00
CHTO   33.59  93 eP     19 52.20   9.7X
GTA    33.97  56 eP     19 46.50   0.8
        1.0s     6.00nm          4.5mb
                pP      19 53.00  22km
OHR    38.76 305 eP     20 25.80  -0.3
XAN    40.54  66 Pd     20 41.70   0.7
        0.8s     3.40nm          4.1mb
TIY    43.50  61 eP     21 06.50   1.3
KSP    44.30 318 eP     21 12.00   0.6
                e       21 19.80  26km
PRU    45.13 317 eP     21 25.80   7.8X
GEC2   45.37 315 P      21 20.00  -0.1
        0.9s     3.25nm          4.3mb
                e       21 27.60  25km
KHC    45.52 315 eP     21 21.50   0.3
        1.0s     3.50nm          4.2mb
                e       21 29.00  25km
CLL    46.42 318 eP     21 29.00   0.8
                i       21 36.90  26km
BCAO   47.48 252 ePc    21 43.00   5.9X
        0.4s     5.00nm          4.9mb
                i       21 48.20  17km
CDF    49.48 313 eP     21 50.80  -1.5
LPG    49.52 310 eP     21 59.70   6.8X
        1.1s     8.30nm          4.7mb
```

11d 09h

```
LPL     49.54 310 eP     21 59.60    6.7X
        1.2s    17.25nm          5.0mb
BSF     49.73 313 eP     21 53.70   -0.5
HAU     50.05 313 eP     21 56.20   -0.3
        1.1s    10.75nm          4.8mb
NB2     50.48 330 P      21 57.80   -1.8
        0.9s     2.60nm          4.2mb
LBF     51.55 311 eP     22 14.80    6.8X
        1.2s    13.10nm          4.7mb
SMF     51.63 311 eP     22 15.40    6.9X
        1.3s    22.00nm          4.9mb
LOR     51.65 312 eP     22 15.20    6.5X
        1.2s    13.10nm          4.7mb
SSF     51.88 311 eP     22 17.20    6.8X
        1.1s     8.30nm          4.6mb
TIK     59.03  20 eP     23 00.00   -1.7
        1.0s    20.00nm          5.2mb
      Z 18s      0.30um          4.5Msz
                 e      23 12.00  42kmX
                 i      25 22.00
WRA     82.19 116 P      25 26.20    3.6X
        0.6s     0.30nm          3.5mb X
WR2     82.21 116 eP     25 25.30    2.6
        1.4s     1.10nm          3.7mb
     S.D. = 1.3  on  19 of  35 obs.
-----------------------------------
   OCT  11, 1993  09h 43m 33.32± 0.75s
   53.147 N ± 5.5km     3.713 W ± 5.6km
   DEPTH =  10.0km  (geophysicist)
 UNITED KINGDOM                    (533)
      ML 2.3 (BGS). Felt (III) in the
      Bettws-y-Coed area.

YLL      0.28 269 iPgc   43 39.50    0.4
YRE      0.46 249 iPgc   43 42.80    0.1
WFB      0.51 203 ePg    43 43.30   -0.3
YRH      0.64 241 ePgc   43 45.70   -0.4
HCG      0.83 178 ePg    43 49.00   -0.3
HTR      1.10 166 ePn    43 54.20    0.2
WIM      1.15 331 ePnc   43 54.50   -0.4
HAE      1.32 147 ePn    43 57.90    0.2
HGH      1.61 159 ePn    44 02.00    0.2
DLF      1.70 276 eP     44 02.70   -0.4
                 eS      44 22.90
DCN      2.15 277 eP     44 10.50    0.8
                 eS      44 35.00
     S.D. = 0.5  on  11 of  11 obs.
-----------------------------------
%  OCT  11, 1993  09h 44m 49.80± 1.19s
   39.105 N ± 7.2km    27.624 E ±15.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.8 (ISK).

IZM      0.76 202 ePg    45 04.70    0.0
                 eSg     45 17.70
EZN      1.24 306 iPn    45 12.80    0.0
EDC      1.25   8 ePn    45 13.20    0.1
KGT      1.37 350 iPn    45 14.70   -0.2
MFT      1.70 351 ePn    45 19.70    0.0
     S.D. = 0.1  on   5 of   5 obs.
-----------------------------------
%  OCT  11, 1993  10h 06m 10.83± 0.88s
   39.126 N ± 6.3km    27.177 E ±13.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.7 (ISK).

IZM      0.73 175 ePg    06 25.20    0.0
                 eSg     06 37.70
EZN      0.96 317 ePn    06 29.00   -0.1
KGT      1.33   4 iPn    06 35.20   -0.1
EDC      1.33  23 ePn    06 35.20   -0.1
MFT      1.66   3 ePn    06 40.50    0.3
     S.D. = 0.3  on   5 of   5 obs.
-----------------------------------
%  OCT  11, 1993  10h 38m 39.74± 0.37s
   38.566 S ± 5.3km  175.682 E ± 5.2km
   DEPTH = 200.0km  (geophysicist)
 NORTH ISLAND, NEW ZEALAND         (159)

NGZ      0.61 186 P      39 07.20   -0.5
CNZ      0.64 189 P      39 07.60   -0.2
MOZ      0.69 275 Pc     39 08.00    0.1
                 S       39 27.10
DRZ      0.71 187 P      39 08.50    0.1
PAHZ     1.11 106 P      39 10.30   -0.3
URZ      1.16  75 Pd     39 09.80   -1.1
                 eS      39 28.60
WAHZ     1.25 155 Pc     39 11.90    0.3
TTH      1.32 138 P      39 12.70    0.6
BSZ      1.36 205 Pc     39 13.30    0.8
TEHZ     1.67 149 Pd     39 15.80    0.5
KUZ      1.82   1 P      39 17.40    0.7
MAHZ     1.83 111 P      39 17.30    0.5
NOZ      1.85  92 P      39 17.10    0.1
MNG      2.06 184 Pc     39 19.60    0.4
                 S       39 45.20
PUZ      2.08  77 eP     39 18.70   -0.8
                 S       39 44.70
PGZ      2.10 168 Pd     39 20.00    0.4
HBZ      2.28  66 P      39 21.60    0.1
KIW      2.37 194 P      39 22.70    0.2
CAW      2.58 190 Pc     39 25.10    0.2
MTW      2.59 183 Pc     39 25.00   -0.1
DIW      2.61 211 P      39 25.80    0.5
MRW      2.77 195 Pc     39 27.20    0.2
                 S       39 59.90
BLW      2.80 183 P      39 27.50    0.0
TCW      2.86 202 eP     39 28.20    0.1
QRZ      3.32 226 P      39 33.60    0.0
THZ      3.84 213 P      39 40.10    0.0
LTZ      4.95 211 P      39 53.50   -0.6
MQZ      5.62 203 P      40 01.40   -1.3
                 eS      41 02.00
WVZ      5.86 218 eP     40 06.90    1.1
                 eS      41 08.50
BWZ      7.38 214 eP     40 25.00   -0.7
ODZ      7.49 209 eP     40 26.20   -0.9
     S.D. = 0.6  on  31 of  31 obs.
-----------------------------------
&  OCT  11, 1993  10h 48m 02.12s
   63.071 N          150.069 W
   DEPTH =  97.7km
 CENTRAL ALASKA                    (  1)
      <AEIC>.

HUR      0.22 115 eP     48 15.98    1.4
TRF      0.39 346 iPc    48 17.18   -0.2
                 eS      48 28.61
KTH      0.62 322 iPc    48 18.59   -0.3
RND      0.65  58 ePc    48 18.77   -0.4
CUT      0.68 188 iPd    48 19.07   -0.2
MCK      0.84  37 eP     48 20.55   -0.4
BWN      1.14  13 ePd    48 23.93   -0.3
DHY      1.23  89 eP     48 24.90   -0.6
                 eS      48 43.04
SKT      1.29 212 iPd    48 25.53   -0.5
                 eS      48 43.13
GHO      1.41 157 eP     48 27.82    0.2
PWA      1.43 176 ePc    48 27.60   -0.1
SML      1.50 147 ePc    48 28.76    0.0
PLRM     1.55 163 eP     48 29.15   -0.1
PMR      1.55 163 eP     48 29.00   -0.2
NEA      1.57  16 iPd    48 28.76   -0.8
SUA      1.64 191 eP     48 30.55    0.0
                 eS      48 53.32
WRH      1.66  31 ePd    48 29.80   -0.8
SCM      1.78 133 eP     48 31.92   -0.4
KNK      1.83 155 eP     48 32.76   -0.1
PMS      1.85 172 eP     48 33.10   -0.1
CCB      1.87  31 iPd    48 32.44   -1.0
HDA      1.93  45 ePd    48 33.36   -0.8
NCG      1.94 211 ePd    48 33.93   -0.5
                 eS      48 58.08
THY      1.98  78 eP     48 35.61    0.7
CGLM     1.99 208 eP     48 34.68   -0.4
MLY      1.99 352 iPd    48 34.37   -0.7
TOA      2.05 117 ePc    48 35.90    0.1
CRP      2.06 209 eP     48 35.85   -0.2
MDM      2.06  22 ePd    48 35.19   -0.8
CP2      2.08 210 eP     48 36.13   -0.3
FBA      2.09  28 ePd    48 35.50   -0.8
PAX      2.10  91 ePc    48 36.61    0.1
                 eS      49 03.04
CKN      2.10 209 eP     48 36.60    0.1
SPU      2.11 207 eP     48 36.29   -0.4
                 eS      49 02.54
BGL      2.12 212 eP     48 36.96    0.2
CKT      2.13 209 eP     48 36.54   -0.4
SDG      2.15 103 eP     48 37.13    0.0
DJE      2.19  62 eP     48 36.83   -0.8
IL1      2.21  38 iPd    48 36.89   -1.0
ILB      2.21  38 ePd    48 36.92   -1.0
                 eS      49 02.05
GLM      2.26  30 ePd    48 37.78   -0.8
BKG      2.26 208 eP     48 38.10   -0.5
PWL      2.37 159 eP     48 39.60   -0.4
TZL      2.39 114 eP     48 40.43    0.2
NKA      2.40 194 eP     48 43.31    2.9
KLU      2.50 127 ePc    48 41.11   -0.8
SLKM     2.57 182 eP     48 43.10    0.3
                 eS      49 11.96
MPA      2.61 172 eP     48 43.11   -0.2
                 eS      49 13.00
VLZ      2.62 136 eP     48 41.79   -1.6
TTA      2.72 270 ePc    48 43.90   -0.9
RDT      2.74 205 eP     48 45.66    0.5
DFR      2.78 208 eP     48 46.45    0.8
NCT      2.86 210 eP     48 47.29    0.5
REF      2.88 207 eP     48 48.24    1.1
RED      2.96 207 eP     48 49.03    1.0
SEW      2.99 174 eP     48 48.05   -0.4
                 eS      49 22.33
HIN      3.18 146 eP     48 49.61   -1.4
TMW      3.21  82 eP     48 50.40   -1.1
CVA      3.26 139 eP     48 50.94   -1.1
SVW      3.27 235 eP     48 51.20   -1.1
ILIM     3.30 206 eP     48 53.39    0.6
IM3      3.33 333 ePc    48 51.88   -1.2
GLB      3.35 116 eP     48 52.40   -1.1
SGAM     3.46 136 eP     48 53.41   -1.5
CNPM     3.60 190 eP     48 56.33   -0.5
RAGM     3.72 134 eP     48 57.06   -1.4
OPT      3.75 205 eP     48 59.29    0.4
BC3      3.77  86 ePc    48 57.72   -1.5
HMT      3.90 132 eP     48 59.28   -1.6
CRQM     4.02 122 eP     49 00.77   -1.9
TGL      4.14 121 eP     49 02.54   -1.8
BALM     4.17 116 eP     49 02.86   -1.9
CDD      4.50 204 eP     49 08.64   -0.6
CTGM     4.63 113 eP     49 10.21   -0.9
YAH      4.80 121 eP     49 09.64   -3.9
BM3      4.93  25 eP     49 13.44   -1.8
        76 obs. associated
-----------------------------------
*  OCT  11, 1993  11h 04m 00.87± 1.75s
   42.270 N ± 5.5km  125.477 W ±19.5km
   DEPTH =  10.0km  (geophysicist)
 OFF COAST OF OREGON               ( 30)

FHC      1.85 142 (P)    04 34.89    2.0
RNO      2.08  37 Pd     04 35.93   -0.3
KMPM     2.11 151 (P)    04 36.13   -0.7
BBOR     2.16  72 P      04 37.42   -0.1
HSO      2.16  54 P      04 37.18   -0.3
                 S       05 07.45
MPOR     2.64  31 P      04 43.66   -0.7
HBO      2.80  55 P      04 46.99    0.3
LBFM     2.84 108 eP     04 46.76   -0.5
FBO      2.94  45 P      04 48.56    0.0
SSOR     3.39  39 P      04 55.45    0.5
KMOR     3.66  22 P      04 58.81    0.0
PGO      3.87  33 P      05 02.43    0.7
ORV      4.05 131 eP     05 02.29   -2.0
MTMW     4.43  31 P      05 09.24   -0.5
BMW      4.50  20 eP     05 09.92   -0.8
                 eS      05 59.64
     S.D. = 0.9  on  15 of  15 obs.
-----------------------------------
   OCT  11, 1993  11h 16m 18.47± 0.22s
    4.544 S ± 3.9km  153.316 E ± 5.0km
   DEPTH =  30.4km  (  9 depth phases)
   5.4mb ( 49 obs.)  5.0Msz ( 15 obs.)
 NEW IRELAND REGION, P.N.G.        (190)
      Mw 5.6 (HRV). Ms 5.1 (BRK).
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 38S, 70C
      Centroid Location:
      Origin Time        11:16:27.4 0.3
      Lat  4.29S 0.03 Lon 153.36E 0.03
      Dep  15.0 FIX Half-duration  1.4
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 0.79 0.04  Mtt= 1.27 0.05
        Mff=-2.06 0.05  Mrt= 1.13 0.10
        Mrf= 1.18 0.15  Mtf=-0.05 0.04
       Principal Axes:
        T  Val=  2.31  Plg=42  Azm=347
        N        0.23      40      207
        P       -2.53      22       97
```

```
        Best Double Couple:Mo=2.4*10**17
         NP1:Strike=141 Dip=43 Slip=  18
         NP2:          38     78      131

RAB       1.20 287 iPd-   16 41.00    1.7
KVG       3.17 308 eP     17 09.50    2.2
MDG       7.54 264 eP     18 14.80    5.6X
PMG       7.79 231 eP     18 16.00    3.4X
                   eS     19 43.00
HNR       8.18 127 eP     18 18.00   -0.1
CTA      16.91 203 iPc    20 16.00    1.4
         1.3s    86.54nm            4.7mb
                   i      20 19.40
                   ipP    20 34.00
                   isP    21 06.00
                   eS     23 21.00
                   e      23 45.00
                   iScS   32 18.00
                   e(PKKP39 25.00
BKM      19.59 133 iP     20 53.00    5.7X
GUA      19.81 335 eP     20 50.80    1.2
         0.9s   342.86nm            5.7mb
GUMO     19.87 335 eP     20 50.70    0.4
         1.1s   433.20nm            5.7mb
PJG      19.87 335 eP     20 50.70    0.4
TLE      20.51 266 ePc    20 58.00    1.0
QIS      20.77 219 eP     20 59.40   -0.2
DZM      21.57 145 iPc    21 06.90   -1.0
                   i      25 02.60
                   i      28 48.10
BRS      22.73 181 iPc    21 19.00   -0.2
                   e      25 27.00
MTN      23.41 248 iPd    21 25.90    0.0
         0.8s   419.00nm            6.0mb
WR2      23.98 229 iPd    21 32.00    0.5
         0.4s   184.20nm            6.0mb
                   iScP   25 19.30
                   eS     25 53.60
ARMA     25.79 183 iPd    21 49.10    0.4
         1.0s   239.00nm            5.8mb
KNA      26.57 243 iPd    21 56.00    0.1
STK      29.34 201 iPc    22 19.10   -1.7
         1.1s    10.70nm            4.5mb
                   iScP   29 09.10
DAV      30.00 292 eP+    22 23.60   -3.4X
BWA      30.08 188 eP     22 26.70   -0.8
                   ipP    22 31.60   17kmX
CNB      30.84 186 iPc    22 34.80    0.6
         0.8s    50.00nm            5.4mb
CAN      30.88 187 iPd    22 34.60    0.0
                   ipP    22 39.10   16kmX
CTB      31.31 292 ePd    22 22.00  -16.5X
PLP      32.23 299 ePc    22 45.50   -1.1
ADE      33.16 202 eP     22 54.20   -0.3
PCI      33.63 275 ePc    23 01.50    2.7
TOO      33.64 191 iPc    22 59.60    0.9
         0.7s    25.00nm            5.2mb
FORT     35.31 219 iPd    23 12.30   -0.7
         0.8s   157.00nm            6.0mb
GQP      35.70 301 eP     23 17.00    0.6
MBL      36.46 240 eP     23 21.60   -1.2
         0.8s   135.00nm            5.9mb
TSM      36.48 283 eP     23 23.40    0.3
QCP      37.21 301 eP     23 23.60   -5.6X
CVP      38.14 306 ePd    23 37.00    0.0
BCP      38.47 304 eP     23 41.20    1.2
BAG      38.49 303 ePc+   23 40.00   -0.1
         1.9s   421.05nm            5.9mb
                   eS     29 44.00
MEEK     39.77 233 eP     23 50.00   -0.5
         0.5s    73.00nm            5.7mb
COOL     40.03 225 eP     23 51.00   -1.7
MNG      41.08 154 eP     23 59.50   -1.6
MRW      41.26 155 eP     24 08.00    5.5X
PGZ      41.43 153 eP     24 02.70   -1.2
KAGJ     41.48 330 eP     24 05.50    1.1
LTZ      41.64 159 eP     24 04.90   -0.8
MSZ      41.98 164 eP     24 08.20   -0.2
KAKJ     42.36 344 eP     24 17.90    6.3X
BWZ      42.40 162 eP     24 10.10   -1.8
CHJJ     42.55 343 P      24 11.60   -1.6
KUMJ     42.61 331 P      24 13.30   -0.4
KLB      42.85 227 eP     24 14.60   -1.2
MRWA     43.01 231 iPd    24 16.40   -0.7
         0.8s   150.00nm            5.8mb
BAL      43.13 229 eP     24 18.20    0.2
         0.8s   116.00nm            5.7mb
```

```
MAT      43.24 342 (P)    24 17.00   -1.9
                   (S)    30 42.00
MTMJ     43.41 342 P      24 18.70   -1.6
TUZ      43.63 163 eP     24 20.70   -1.1
NIIJ     43.66 343 P      24 21.20   -0.9
SHNJ     43.80 333 eP     24 22.50   -0.9
MUN      44.18 227 eP     24 26.60    0.1
YAMJ     44.25 345 eP     24 26.20   -0.8
OFUJ     44.72 347 eP     24 28.50   -2.2
LEM      45.52 265 ePc    24 38.50    0.8
TPI      45.60 271 ePc    24 38.00   -0.1
                   e      26 00.00 418kmX
SSE      46.86 321 Pc     24 48.00    0.2
         1.4s    44.00nm            5.3mb
       Z  20s     1.40um            4.9Msz
       E  14s     0.40um
                   sP     24 54.50
                   PP     26 30.00
MRRJ     48.05 348 eP     25 01.70    4.7X
KUSJ     48.06 352 eP     25 00.40    3.4X
NJ2      48.97 320 Pd     25 05.00    0.8
       Z  24s     0.63um            4.5MszX
ASAJ     49.38 350 eP     25 07.80    0.6
KGM      50.38 276 ePd    25 15.20   -0.2
WHN      51.03 316 eP     25 20.50    0.5
         0.7s    15.00nm            5.1mb
       Z  20s     1.49um            5.0Msz
       E  22s     1.21um
                   pP     25 30.50   33km
VLA      51.25 340 iPc    25 29.00    7.5X
         1.2s    48.00nm            5.3mb
YSS      52.19 351 eP     25 34.50    6.0X
         1.0s    30.00nm            5.2mb
       Z  19s     0.70um            4.7Msz
IPM      53.02 279 ePd    25 35.00   -0.3
MDJ      53.36 339 eP     25 36.90   -0.4
SNY      53.51 333 Pc     25 35.00   -3.4X
       Z  24s     1.26um            4.9MszX
                   pP     25 49.00   52kmX
SNG      53.87 282 eP     25 42.00    0.6
CN2      54.28 335 eP     25 41.60   -2.4
         1.0s    45.00nm            5.5mb
       Z  16s     0.59um            4.7MszX
       N  15s     0.30um
       E  15s     0.23um
                   epP    25 49.00   24km
GYA      54.65 307 iPd    25 48.00    0.8
         1.0s    33.00nm            5.3mb
       Z  20s     1.03um            4.9Msz
                   pP     25 59.00   37km
LOE      55.39 295 eP     25 52.00   -0.6
BJI      55.97 326 eP     25 56.00   -0.3
       Z  24s     1.27um            4.9MszX
       E  20s     1.47um
                   eS     33 44.00
NST      56.33 292 eP     25 59.30   -0.1
TIY      56.64 322 eP     26 01.00   -0.4
       Z  20s     2.00um            5.2Msz
       N  21s     2.13um
XAN      56.79 316 Pd     26 02.00   -0.5
         1.0s    18.00nm            5.1mb
       Z  27s     1.31um            4.9MszX
       E  20s     0.79um
                   pP     26 07.00   16kmX
                   sP     26 11.60
                   S      33 54.00
KMI      57.27 304 eP     26 07.00    0.7
         1.8s   140.00nm            5.7mb
       Z  20s     1.70um            5.1Msz
                   pP     26 17.00   33km
PAE      57.32 108 iPc    26 08.80    2.4
PPN      57.45 108 iPc    26 09.70    2.4
         0.9s    23.30nm            5.2mb
BDT      57.82 294 eP     26 11.00    1.1
CHTO     58.34 295 ePc    26 13.50   -0.1
         1.2s    27.78nm            5.2mb
PMO      58.70 105 iPc    26 18.70    2.6
         0.9s    50.80nm            5.6mb
CD2      58.96 310 iPd    26 17.60   -0.2
       Z  20s     1.31um            5.1Msz
TPT      58.97 105 iPc    26 20.30    2.4
         0.9s    36.40nm            5.5mb
VAH      58.98 105 iPc    26 20.40    2.4
         0.7s    15.70nm            5.2mb
HHC      59.14 324 P      26 18.30   -0.6
         1.2s    10.00nm            4.8mb
       Z  26s     1.83um            5.1MszX
```

```
RUV      59.21 105 iPc    26 21.90    2.3
         0.9s    31.80nm            5.4mb
BTO      59.90 323 eP     26 23.00   -1.2
       N  12s     0.29um
       E  15s     0.41um
                   sP     26 33.00
                   ePP    28 31.00
LZH      61.41 315 eP     26 34.70    0.1
         2.0s   190.00nm            5.9mb
       Z  20s     1.04um            5.0Msz
       E  16s     0.37um
                   pP     26 45.00   34km
                   sP     26 50.00
                   PP     28 46.00
DRV      62.70 186 iP     26 42.00   -0.4
                   S      35 20.00
CIT      65.65 334 eP     27 01.50   -0.5
GTA      65.82 317 Pc     27 03.00   -0.4
         2.0s    98.00nm            5.6mb
       Z  20s     1.15um            5.1Msz
       E  15s     0.49um
                   pP     27 10.50   24km
                   sP     27 14.00
                   eS     35 50.00
                   ScS    36 57.00
CSY      68.42 197 eP     27 22.40    3.2X
         0.9s    27.80nm            5.4mb
LSA      68.52 304 Pd     27 22.00    0.9
         0.8s    34.00nm            5.5mb
YAK      68.81 348 eP     27 20.20   -1.5
         1.8s    70.00nm            5.5mb
       Z  14s     0.70um            5.0MszX
       N  14s     0.60um
SBA      73.60 177 eP     27 51.70    1.5
ILT      74.91  11 iPc    27 58.00    0.1
         1.6s    42.00nm            5.2mb
                   i      28 13.00   53kmX
                   i      30 49.00
                   eS     37 32.00
                   eSS    42 24.00
WMQ      75.90 317 P      28 08.00    3.8X
         2.0s    22.00nm            4.8mb
       Z  20s     0.80um            5.0Msz
                   PcP    28 21.00
                   PP     30 59.50
                   S      37 46.00
                   SKS    38 10.00
SVW      76.38  23 eP     28 06.30   -0.2
         1.0s    39.53nm            5.4mb
HYB      76.90 289 eP     28 09.50   -0.6
         1.2s    71.40nm            5.6mb
KOD      76.94 282 eP     28 11.20    0.4
TTA      77.34  21 eP     28 11.68   -0.2
         0.8s     4.16nm            4.5mb
GBA      77.40 285 P      28 13.60    0.7
         0.6s     6.00nm            4.8mb
TIK      77.70 352 eP     28 14.00    0.5
         2.0s    20.00nm            4.8mb
       Z  18s     0.50um            4.9Msz
                   e      28 29.00   53kmX
                   e      31 15.00
SLKM     78.22  25 eP     28 15.07   -1.6
PMS      78.88  24 eP     28 19.00   -1.3
PMR      79.24  24 (P)    28 21.54   -0.6
         1.5s    68.16nm            5.4mb
IMA      80.05  19 (P)    28 27.46    0.9
         1.3s    14.57nm            4.8mb
KLU      80.53  25 eP     28 28.90   -0.3
TOA      80.71  25 eP     28 19.00  -11.1X
FBA      81.46  22 eP     28 31.63   -2.2
         1.3s    27.27nm            5.1mb
POO      81.49 289 iPc    28 52.20   17.3X
KSH      83.14 310 P      28 45.50    2.2
         0.7s    70.00nm            5.9mb
       Z  20s     0.62um            5.0Msz
       N  18s     1.73um
       E  18s     1.08um
                   pP     28 56.00   33km
                   SKS    39 06.00
FRU      84.81 314 iP     28 53.00    1.5
         2.0s   150.00nm            5.8mb
                   e      29 03.50   33km
                   e      32 09.00
                   e      39 13.00
SPA      85.48 180 iPc    28 52.40   -2.2
         0.9s   309.09nm            6.5mb X
NRI      85.74 341 eP     28 53.00   -2.5
```

11d 11h

```
      3.0s    94.00nm          5.5mb
    Z  20s     1.20um          5.3Msz
                e     29 00.00  22km
                e     39 26.00
INK    88.03  21 eP    29 08.00   1.3
      1.0s     4.00nm          4.7mb
YBH    88.50  48 eP    29 00.52  -9.1X
    Z  18s     0.80um          5.2Msz
                eSKS  39 43.52
                eS    40 03.52
                eSS   45 58.52
                eLQ   52 22.52
                eLR   55 57.52
SVE    95.24 327 ePc   29 40.50   0.1
NVL   100.62 192 (Pdiff30 08.00   3.6X
                e     31 40.00
                e     34 15.00
                e     37 12.00
                e     37 50.00
                e     38 40.00
                e     39 15.00
SLR   118.83 237 ePKP  35 06.00  -0.5
      0.7s    11.00nm
FRS   119.66 232 e(PKP)35 13.00   5.3X
BUL   120.42 244 iPKP  35 09.40  -0.2
                i     35 13.70
CER   122.46 225 ePKP  35 11.00  -2.0
      0.5s    16.00nm
ZST   122.68 327 e(PKP)35 24.30  11.4X
BRG   122.70 331 e(PKP)35 12.80   0.0
SKO   123.28 318 iPKP  35 14.50   0.2
KHC   123.99 329 ePKP  35 15.50   0.0
      1.0s     7.00nm
                e     35 21.00
                Sg    35 28.00
POF   123.99 230 ePKP  35 18.00   2.0
OHR   124.10 318 iPKP  35 15.20  -0.8
GEC2  124.10 329 PKP   35 14.10  -1.7
      0.8s     4.63nm
                e     35 16.00
                e     35 18.50
                e     35 21.20
                e     35 27.90
GEC2  124.10 329 e(PKP)35 27.90  12.1X
      0.8s     7.40nm
GEC2  124.10 329 e(PKP)35 14.30  -1.5
      0.7s     1.30nm
GEC2  124.10 329 e(PKP)35 21.10   5.3X
      0.7s     3.90nm
GRF   124.80 331 ePKP  35 22.50   5.5X
    Z  21s     0.30um          4.9Msz
                e     35 29.40
BSF   128.20 332 ePKP  35 29.40   5.6X
      1.0s    13.40nm
HAU   128.28 332 ePKP  35 28.50   4.7X
      0.9s     8.70nm
LPL   129.87 330 ePKP  35 30.00   2.8X
      0.6s     3.45nm
LPG   129.87 330 ePKP  35 30.00   2.7
      0.7s     4.30nm
LOR   129.97 333 ePKP  35 30.40   3.4X
      0.8s     4.15nm
    Z  23s     0.40um          5.0MszX
LBF   130.13 333 ePKP  35 31.60   4.2X
      1.4s    16.55nm
SMF   130.44 333 ePKP  35 30.80   2.9X
      1.1s    19.55nm
FLN   130.61 337 ePKP  35 32.50   4.4X
      0.9s    12.80nm
    Z  24s     0.43um          5.1MszX
GRR   131.06 337 ePKP  35 33.30   4.3X
      1.1s    20.50nm
LPF   131.42 337 ePKP  35 34.10   4.4X
      0.7s     7.05nm
CNCB  134.01 118 PKP   35 37.00   0.8
                e     39 06.00
LPB   134.02 118 (PKP) 35 40.00   3.9X
LPAZ  134.08 118 PKP   35 35.30  -1.2
                i     39 05.80
BCAO  134.92 272 ePKPd 35 21.50 -15.9X
      0.5s    25.00nm
                i     35 37.50
                i     35 48.20
PPD   144.24 139 ePKP  35 55.00   1.0
ZFT   145.56 325 iPKP  35 58.50   2.6
TNF   145.73 327 iPKP  35 58.00   1.8
VAO   146.21 145 ePKP  35 59.30   1.9
```

```
VAO2  146.27 146 ePKP  35 55.00  -2.6
                e     36 01.00
BAO   150.90 134 ePKP  36 11.10   6.2X
                i     36 18.70
                i     36 20.00
                i     36 39.10
                i     36 43.80
KIC   158.08 276 PKP   36 24.54   9.9X
      1.1s    28.50nm
LIC   158.38 275 PKP   36 25.30  10.4X
      0.9s     6.00nm
LKO   158.49 284 PKP   36 20.75   5.7X
      0.9s    10.00nm
     S.D. = 1.3  on 124 of 163 obs.
-----------------------------------
%  OCT  11, 1993  12h 14m 10.51± 1.10s
   40.506 N ±13.2km   29.831 E ± 8.5km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.8 (ISK).

EYL     0.26  76 iPg   14 16.10   0.1
                eSg   14 22.60
HRT     0.34 339 iPg   14 17.60   0.1
                iSg   14 24.60
GPA     0.42 120 iPg   14 19.10  -0.1
ISK     0.81 314 ePn   14 25.60  -0.6
CTT     1.24 302 iPn   14 34.10   0.5
     S.D. = 0.6  on   5 of   5 obs.
-----------------------------------
%  OCT  11, 1993  12h 47m 40.38± 1.41s
   39.134 N ± 7.8km   27.684 E ±17.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.7 (ISK).

IZM     0.81 204 ePg   47 56.00   0.0
                eSg   48 07.00
EDC     1.22   6 ePn   48 02.20  -0.9
EZN     1.26 304 ePn   48 03.40  -0.3
KGT     1.35 348 ePn   48 05.70   0.5
MFT     1.68 350 ePn   48 10.70   0.7
     S.D. = 0.9  on   5 of   5 obs.
-----------------------------------
   OCT  11, 1993  13h 07m 29.56± 0.09s
   17.845 S ± 2.6km  178.726 W ± 2.7km
   DEPTH = 554.5km  (geophysicist)
   5.8mb ( 95 obs.)
 FIJI ISLANDS REGION             (181)
      Mw 6.0 (GS), 6.0 (HRV). mb 5.8
      (BRK). Depth from broadband
      displacement seismograms.
      FAULT PLANE SOLUTION: P-Waves
       NP1:Strike=300 Dip=90 Slip= -50
       NP2:        30     40      -180
       Principal Axes:
        T              Plg=33  Azm=357
        P                 33      243
      Comment: The focal mechanism is
        moderately well controlled
        and corresponds to normal
        faulting with a large strike-
        slip component. The preferred
        fault plane is not
        determined.
      RADIATED ENERGY
       No. of sta:  13  Focal mech.  F
       Energy        4.3±0.7*10**12 Nm
      MOMENT TENSOR SOLUTION
      Dep 557            No. of sta: 17
      Moment Tensor;   Scale 10**18 Nm
        Mrr= 0.09       Mtt= 0.81
        Mff=-0.90       Mrt= 0.78
        Mrf=-0.47       Mtf= 0.38
       Principal axes:
        T  Val=  1.31  Plg=32  Azm=358
        N        0.00      46      127
        P       -1.30      27      249
      Best Double Couple:Mo=1.3*10**18
       NP1:Strike= 32 Dip=46 Slip= 176
       NP2:       124     87       44
      CENTROID, MOMENT TENSOR    (HRV)
      Data Used: GDSN
      L.P.B.: 50S, **C
      Centroid Location:
      Origin Time        13:07:36.5 0.2
      Lat 17.50S 0.02 Lon 178.62W 0.01
```

```
      Dep 572.3 1.0 Half-duration  2.4
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 0.58 0.11  Mtt= 6.68 0.16
        Mff=-7.26 0.16  Mrt= 7.61 0.15
        Mrf=-3.80 0.16  Mtf= 4.82 0.15
       Principal Axes:
        T  Val= 12.03  Plg=32  Azm=353
        N       -0.02      45      121
        P      -12.01      28      243
      Best Double Couple:Mo=1.2*10**18
       NP1:Strike= 27 Dip=45 Slip= 177
       NP2:        119     88       45

UDU     2.07 324 eP    08 41.10   0.6
NDE     2.25 304 eP    08 42.80   1.3
MBU     2.59 289 eP    08 44.80   1.6
                eS    09 46.00
SVA     2.69 264 eP    08 44.80   1.1
                eS    09 44.40
AFI     7.75  61 eP    09 06.00 -19.8X
PVC    12.35 269 iPd   10 13.70   1.6
BKM    12.42 269 iPd   10 13.40   0.6
                iS    12 37.50
DZM    14.56 251 iPd   10 34.90   0.5
                iS    13 06.10
                ScP   17 52.90
                ScS   21 33.30
RAR    18.17 104 eP    11 09.77   0.4
       1.8s  1009.35nm          6.1mb
OUZ    18.61 200 P     11 16.70   3.3X
                e     11 42.10
                e     11 58.90
KUZ    19.46 193 P     11 23.10   1.7
                e     11 42.30  95kmX
                eS    14 32.30
HBZ    19.85 187 P     11 25.90   0.9
PUZ    20.33 187 P     11 28.20  -1.3
                eS    14 37.50
WLZ    20.56 193 P     11 33.50   1.9
                e     12 52.10
URZ    20.66 189 P     11 29.70  -2.8
                eS    14 43.80
                e     18 03.40
NOZ    20.89 187 P     11 33.60  -1.0
                e     18 05.80
PAHZ   21.26 189 P     11 37.10  -0.9
MOZ    21.35 194 P     11 39.00   0.2
                e     13 02.50
TTH    21.96 189 P     11 43.40  -0.9
WAHZ   22.19 190 P     11 44.00  -2.5
HNR    22.33 289 eP    11 47.00  -0.8
MNG    23.24 191 P     11 53.70  -2.2
KIW    23.59 192 P     11 57.50  -1.5
DIW    23.74 194 P     11 58.90  -1.5
CAW    23.79 192 P     11 58.90  -2.0
MRW    23.98 192 P     12 00.80  -1.8
SNZO   24.06 192 eP    12 01.95  -1.2
       1.5s   419.68nm          5.8mb
QRZ    24.11 196 P     12 03.60  -0.1
                e     12 25.20  99kmX
                e     13 32.10
                S     15 43.40
THZ    24.89 195 P     12 09.50  -1.2
       0.3s    39.00nm          5.5mb
LTZ    26.01 195 P     12 18.70  -1.8
                e     13 54.50
WVZ    26.69 197 P     12 25.30  -1.1
MQZ    26.79 194 P     12 25.80  -1.5
AFR    27.57  94 iPd   12 33.90  -0.4
       0.7s   103.60nm          5.6mb
PAE    27.75  94 iPd   12 35.50  -0.3
       0.5s    81.90nm          5.6mb
PPT    27.76  94 iPc   12 35.80  -0.2
       0.8s   175.70nm          5.7mb
    Z  38s  1350.00um          7.2MszX
PPN    27.90  94 iPd   12 36.80  -0.4
       0.8s    42.70nm          5.1mb
TVO    28.05  94 iPd   12 38.50  -0.1
       0.7s   124.80nm          5.7mb
BWZ    28.27 197 P     12 38.20  -2.0
       0.4s   124.00nm          5.9mb
                e     14 13.20
ODZ    28.54 196 P     12 41.20  -1.3
LRCZ   28.92 198 P     12 44.40  -1.6
MSZ    29.00 200 P     12 46.80   0.4
                e     14 23.60
TUZ    29.65 197 P     12 51.40  -0.7
```

```
PMO     29.69  89 iPd   12 52.50  -0.2
        1.2s   258.20nm          5.7mb
VAH     29.90  90 iPd   12 54.00  -0.5
        0.7s    41.90nm          5.2mb
TPT     29.96  89 iPd   12 54.80  -0.2
        0.9s    81.20nm          5.4mb
RUV     30.15  90 iPd   12 56.30  -0.3
        0.7s    85.80nm          5.5mb
SIZ     30.91 198 P     13 03.30   0.5
RIV     31.28 234 iPd   13 07.60   1.6
CTA     33.16 260 iPd   13 22.30   0.3
        1.0s   262.50nm          5.8mb
                  i     13 29.00
                  e     13 32.00
                  i     13 43.00
                  iPP   14 09.00
                  ipP   14 55.00 540kmX
                  iPcP  15 47.00
                  epPP  16 38.00
                  iS    18 01.50
                  iScP  18 43.00
                  iSS   21 00.00
                  iScS  22 46.00
                  i     25 24.00
CTAO    33.16 260 iPd   13 22.07   0.1
        1.3s  2474.06nm          6.7mb
                  epP   14 52.79 523kmX
                  ePcP  15 45.76
CNB     33.23 232 iPd   13 24.00   1.5
                  i     13 48.50 109kmX
                  i     14 59.70
                  iScP  18 44.80
CAN     33.50 232 iPd   13 25.80   1.0
                  e     13 34.80  31kmX
                  iScP  18 45.30
KVG     33.50 293 eP    13 23.50  -1.4
BWA     33.61 234 iPd   13 24.60  -1.1
PMG     34.15 280 iPd   13 31.04   0.7
                  epP   15 01.43 514kmX
YYYY    36.33 284 eP    13 49.70   1.2
MDG     36.87 286 eP    13 54.50   1.7
TOO     36.98 231 iPd   13 55.20   1.7
                  iPcP  15 49.00
                  iScP  18 58.10
STK     38.40 241 iPd   14 06.50   1.3
        1.2s   886.80nm          6.3mb
                  iScP  19 03.60
                  iScS  23 15.80
MNDI    38.50 283 eP    14 07.50   1.1
QIS     39.37 259 eP    14 12.50  -0.6
                  eS    19 06.20
MCQ     40.41 200 eP    14 22.40   1.3
ADE     41.42 237 iPd   14 30.40   0.9
KKH     43.43  32 eP    14 44.89  -0.4
MHA     43.93  32 iPd   14 48.81  -0.4
HKL     44.20  31 eP    14 50.96  -0.8
                  e     15 02.25  40kmX
WR2     44.32 260 iPc   14 51.40  -1.0
        0.7s    80.40nm          5.4mb
                  i     14 52.70   4kmX
                  ePP   16 16.00
                  i     19 26.60
WRA     44.34 260 P     14 51.70  -0.9
        0.8s   140.00nm          5.5mb
ASPA    44.52 254 eP    14 53.60  -0.3
        0.7s  6263.00nm          7.3mb X
      Z  23s     1.40um          4.8MszX
                  iPcP  16 25.70
                  iScP  19 27.10
                  iS    20 46.90
                  iScS  23 51.60
GUA     47.53 309 eP    15 16.80  -0.2
        0.8s   608.96nm          6.2mb
GUMO    47.60 309 eP    15 16.77  -0.7
        0.7s   459.62nm          6.1mb
PJG     47.60 309 eP    15 17.50   0.1
MTN     48.50 268 iPd   15 23.20  -1.1
        0.6s   654.00nm          6.3mb
TLE     48.89 278 iPd   15 27.50   0.3
FORT    49.76 245 iPd   15 32.60  -0.8
        0.8s   797.00nm          6.3mb
KNA     50.18 264 iPd   15 35.80  -0.8
DRV     55.63 199 iP    16 15.30   0.4
                  PP    18 06.00
                  S     23 30.00
COOL    55.71 244 eP    16 14.80  -1.3
        0.7s   118.00nm          5.3mb
MBL     57.70 256 iPd   16 28.80  -1.0
        0.7s   263.00nm          5.7mb
MEEK    58.17 249 eP    16 32.50  -0.5
        0.8s   603.00nm          6.0mb
KLB     58.58 244 iPd   16 34.50  -1.2
        0.9s   698.00nm          6.0mb
NWAO    58.97 242 iPd   16 37.41  -0.8
        0.8s   199.00nm          5.5mb
BAL     59.54 245 iPd   16 40.90  -1.1
        0.5s   248.00nm          5.8mb
MUN     59.88 243 eP    16 43.90  -0.4
        0.7s   656.00nm          6.1mb
BIP     60.19 291 ePd   16 45.00  -1.4
MRWA    60.26 246 iPd   16 45.80  -1.0
        0.5s    65.00nm          5.2mb
DAV     60.30 289 ePc+  16 46.00  -1.2
        0.8s   489.55nm          5.9mb
                  eS    24 20.00
SBA     60.46 183 iPd   16 49.80   2.4
        1.5s   930.56nm          5.9mb
                  e     18 14.50 397kmX
CTB     61.59 289 ePd   16 59.00   3.4X
PCI     62.60 278 ePc   17 03.70   1.5
PLP     62.61 293 ePc   17 00.80  -1.3
MAP     63.11 292 ePd   17 05.50   0.1
GQP     66.04 295 iPd   17 23.80   0.0
CSY     66.07 205 iPc   17 28.20   5.0X
        0.8s   369.10nm          6.0mb
                  iS    25 34.30
TSM     66.26 283 iPc   17 26.10   1.0
        0.7s   304.80nm          5.9mb
KAKJ    66.33 325 P     17 24.50  -0.6
CHJJ    66.88 324 P     17 27.90  -0.6
IIDJ    67.10 323 P     17 29.40  -0.5
TGY     67.44 294 iPd   17 33.50   1.1
PPR     67.57 289 ePc   17 31.00  -2.1
WKYJ    67.61 320 P     17 32.90  -0.2
WKYJ    67.61 320 P     17 33.10   0.0
OFUJ    67.67 328 eP    17 31.70  -1.6
MAJO    67.68 324 iPc   17 32.51  -0.9
        1.7s   534.48nm          5.8mb
MAT     67.68 324 iPc   17 32.40  -1.0
        1.2s   168.75nm          5.4mb
                  eS    25 41.00
NIIJ    67.73 325 P     17 33.00  -0.7
YAMJ    67.85 326 eP    17 33.90  -0.5
MTMJ    67.93 323 P     17 34.50  -0.6
TSRJ    68.27 321 P     17 36.90  -0.1
CVP     68.32 298 ePc   17 38.00   0.3
TKSJ    68.40 319 P     17 38.00   0.1
TKSJ    68.40 319 P     17 38.10   0.2
KKM     68.43 284 ePd   17 41.80   3.3X
        0.7s   286.40nm          5.9mb
BCP     68.76 296 eP    17 41.00   0.5
BAG     68.78 296 ePd-  17 40.00  -0.7
        1.0s   300.00nm          5.8mb
                  e     20 18.00
                  eS    26 01.00
ERM     69.19 331 ePc   17 41.81  -0.5
KUSJ    69.33 332 P     17 42.30  -0.9
HOOJ    69.41 331 eP    17 43.60   0.0
AOMJ    69.44 328 eP    17 43.70  -0.2
ADK     69.45   1 ePc   17 41.82  -1.9
KUMJ    69.55 316 eP    17 45.10   0.4
YONJ    69.56 320 P     17 43.80  -1.0
MRRJ    70.49 330 eP    17 49.40  -0.6
SMY     70.55 355 eP    17 48.60  -1.5
FX1     70.78 355 ePc   17 49.55  -1.9
ASAJ    71.06 332 P     17 54.30   1.0
SKR     71.72 343 iPd   17 56.20  -0.8
TATO    72.11 305 (P)   17 59.73  -0.1
SPA     72.27 180 iPd   17 59.80  -0.5
        1.1s   694.05nm          6.1mb
PET     73.23 346 eP    18 05.00  -0.6
                  e     18 16.50  38kmX
                  e     21 04.00
                  e     26 52.00
YSS     73.29 334 ePc   18 05.93  -0.1
        1.0s   210.00nm          5.6mb
                  e     21 00.00
                  eS    26 52.00
                  e     27 23.50
TPI     73.57 272 iPd   18 08.00  -0.4
                  e     20 00.00 527kmX
SDN     74.52  11 ePc   18 11.10  -1.7
        1.1s  1487.20nm          6.4mb
SSE     75.47 310 Pd    18 18.00  -0.5
        1.0s    21.00nm          4.5mb X
VLA     75.72 325 iPd   18 20.00   0.4
        2.2s   480.00nm          5.5mb
                  e     18 33.00  45kmX
                  iS    27 16.00
                  i     27 39.00
                  iPS   27 59.00
                  issS  28 14.00
STAN    76.47  43 iPc   18 24.75   0.8
        1.3s   770.00nm          6.0mb
                  ipPc  20 21.30 547kmX
SAO     76.59  44 iPc   18 25.10   0.5
        1.1s   694.49nm          6.0mb
                  epP   20 22.86 554kmX
                  PP    21 20.19
BCH     76.63  46 ePc   18 25.83   0.8
                  epP   20 23.38 553kmX
BKS     76.71  43 iPc   18 25.79   0.6
        1.2s   660.00nm          5.9mb
                  epPc  20 22.59 548kmX
COE     76.72  43 iPc   18 26.17   0.9
                  epP   20 24.89 559kmX
NTYM    76.73  42 ePc   18 25.61   0.3
                  epP   20 24.01 557kmX
MHC     76.79  43 iPc   18 26.39   0.6
        1.3s   620.00nm          5.9mb
                  ipPc  20 22.89 546kmX
HKC     76.80 299 iP    18 27.80   1.8
ARN     76.86  43 iPc   18 26.77   0.6
                  epPd  20 24.50 553kmX
KMPM    77.03  40 iPc   18 27.74   0.7
                  epP   20 25.29 552kmX
ABL     77.04  47 iPc   18 27.89   0.5
                  epP   20 25.43 552kmX
HMR     77.15  43 ePc   18 28.55   1.0
ARC     77.33  39 iPc   18 29.44   1.0
        1.3s   460.00nm          5.7mb
                  epPc  20 26.69 549kmX
FHC     77.34  39 eP    18 29.83   1.2
        1.1s   461.26nm          5.8mb
NJ2     77.66 310 Pc    18 31.40   0.9
        1.0s    39.00nm          4.8mb X
                  S     27 40.00
SSK     77.77  48 iPc   18 31.39   0.1
                  epP   20 30.27 558kmX
GZH     77.83 299 iP    18 35.00   3.5X
PLM     77.92  49 iPc   18 32.87   0.8
                  epP   20 30.28 549kmX
MDJ     77.96 325 iPc   18 32.52   0.7
        1.4s   280.00nm          5.5mb
                  esP   21 27.33
                  S     27 41.50
PEC     77.98  48 (P)   18 33.14   0.9
ISA     77.99  46 iPc   18 33.11   0.9
        1.1s   756.42nm          6.0mb
                  epP   20 31.05 552kmX
CMB     78.00  43 iPc   18 32.44   0.2
        1.2s   390.00nm          5.7mb
                  ipPc  20 28.97 543kmX
                  esPd  21 26.58
WDC     78.09  40 iPc   18 32.77   0.2
        1.5s   803.72nm          5.9mb
                  epPc  20 29.97 547kmX
                  esPd  21 28.24
ORV     78.14  42 iPc   18 33.01   0.1
        1.2s   320.00nm          5.6mb
                  epPc  20 30.26 547kmX
PFO     78.34  49 iPc   18 34.44   0.2
                  ipPc  20 30.97 543kmX
                  esP   21 27.26
KDC     78.40  14 eP    18 32.60  -1.2
        1.2s  1535.90nm          6.3mb
MIN     78.53  41 iPc   18 34.70  -0.4
        1.5s   420.00nm          5.7mb
                  epPc  20 31.80 546kmX
MMPM    78.66  44 ePc   18 36.55   0.4
                  epP   20 35.61 557kmX
LMEM    78.67  41 ePc   18 36.28   0.4
YBH     78.67  39 iPc   18 36.36   0.7
        1.1s   390.00nm          5.7mb
                  epPc  20 34.11 549kmX
MEMM    78.75  44 ePc   18 37.11   1.0
                  epP   20 35.94 555kmX
MTUM    78.83  45 iPc   18 37.68   0.9
                  ePcP  18 42.80
                  epP   20 36.41 555kmX
LBFM    78.94  40 iPc   18 37.91   0.6
```

11d 13h

		epP	20	37.33	559kmX	
GSC	78.96	47	iPc	18	37.75	0.[illegible]
		epPc	20	34.29	541kmX	
		esPd	21	32.56		
MRCM	79.04	45	iPc	18	38.66	0.7
		epP	20	38.48	561kmX	
QIZ	79.15	294	P	18	39.90	1.4
KGM	79.16	276	iPd	18	39.90	1.1
	0.6s	266.70nm			5.8mb	
		e	21	44.10		
DBO	79.18	38	P	18	39.02	0.7
CDD	79.22	13	ePc	18	37.39	-0.8
GLA	79.25	50	iPc	18	39.95	1.1
		epPd	20	38.78	554kmX	
BONR	79.33	44	iPc	18	40.17	0.6
		epP	20	39.77	559kmX	
RNO	79.37	37	P	18	40.18	0.9
AUI	79.64	13	eP	18	39.69	-0.6
AUI	79.64	13	eP	18	40.21	0.0
AGU	79.66	13	ePc	18	39.90	-0.6
AUH	79.66	13	eP	18	40.01	-0.5
AUW	79.66	13	eP	18	40.16	-0.2
AUE	79.67	13	ePc	18	40.09	-0.3
AUL	79.68	13	eP	18	40.11	-0.4
SNY	79.74	320	Pc	18	40.60	-0.5
		S	28	03.00		
CN2	79.79	323	Pc	18	41.80	0.5
	1.3s	220.00nm			5.4mb	
		S	28	03.50		
		SS	33	21.00		
PDB	79.89	12	ePc	18	40.64	-0.9
OPT	79.97	13	eP	18	41.37	-0.7
COR	80.03	37	iPc	18	43.10	0.5
	1.7s	98.00nm			5.0mb	
		epPc	20	41.62	551kmX	
		esPd	21	38.57		
		ePP	22	22.00		
		eSKS	28	30.00		
		eS	28	40.00		
		eSS	34	18.00		
XLV	80.12	14	eP	18	42.45	-0.3
TNP	80.13	45	iPc	18	44.27	0.7
	0.9s	121.97nm			5.3mb	
		epP	20	43.65	556kmX	
TPNV	80.19	46	iPc	18	44.43	0.6
	1.3s	507.56nm			5.8mb	
		epP	20	43.61	555kmX	
CNPM	80.29	14	ePc	18	43.26	-0.4
HOM	80.32	14	eP	18	43.97	0.2
WHN	80.32	306	eP	18	45.70	1.3
	1.2s	59.00nm			4.9mb	
		iS	28	08.00		
INE	80.38	13	ePc	18	43.29	-1.0
ILIM	80.42	13	ePc	18	43.32	-1.1
KMOR	80.56	36	P	18	46.00	0.6
BRLK	80.59	14	eP	18	45.38	0.2
BRLK	80.59	14	eP	18	45.58	0.4
SSOR	80.67	37	P	18	46.11	0.0
RED	80.76	13	iPc	18	44.95	-1.3
RS2	80.81	13	ePc	18	45.32	-1.3
RSO	80.81	13	ePc	18	45.30	-1.3
RDW	80.81	13	iPc	18	45.34	-1.2
SVW	80.84	11	ePc	18	45.90	-0.6
	1.1s	297.00nm			5.7mb	
REF	80.84	13	iPc	18	45.47	-1.3
REF	80.84	13	eP	18	45.96	-0.8
NCT	80.86	13	ePc	18	45.46	-1.3
DFR	80.94	13	ePc	18	45.66	-1.4
RDT	80.98	13	eP	18	45.85	-1.4
TIA	80.98	313	eP	18	48.10	0.4
		S	28	15.00		
ONR	81.16	35	P	18	49.46	1.1
BMW	81.21	35	P	18	49.35	0.6
SEW	81.22	14	ePc	18	47.47	-0.9
VBEM	81.29	37	P	18	49.54	0.2
NKA	81.39	13	eP	18	49.80	0.6
SLKM	81.40	14	iPc	18	48.70	-0.7
MID	81.41	16	ePc	18	48.90	-0.4
BKG	81.46	13	iPc	18	48.22	-1.5
VIPM	81.53	38	P	18	51.05	0.5
MZX	81.54	62	(P)	18	52.50	1.7
MPA	81.58	14	iPc	18	49.38	-0.8
CROR	81.59	37	P	18	51.01	0.3
CKT	81.59	13	ePc	18	48.97	-1.4
SHW	81.59	36	ePc	18	51.54	0.8
		epP	20	51.58	557kmX	
SPU	81.61	13	iPc	18	48.87	-1.6

BGL	81.61	13	ePc	18	49.36	-1.2
CKN	81.62	13	eP	18	49.54	-0.9
CP2	81.64	13	ePc	18	49.67	-1.1
CRP	81.66	13	iPc	18	48.93	-1.9
		epP	20	49.69	561kmX	
CGLM	81.73	13	iPc	18	49.70	-1.4
NCG	81.79	13	ePc	18	50.12	-1.3
TUC	81.90	52	iPc	18	55.12	2.5
	1.7s	940.48nm			6.0mb	
		epP	20	54.71	553kmX	
ASR	81.93	36	P	18	52.89	0.4
STW	82.00	34	P	18	53.45	0.9
VGB	82.02	37	iPc	18	53.03	0.2
		epP	20	53.13	556kmX	
GMW	82.11	35	iPc	18	53.56	0.4
		epP	20	54.30	560kmX	
SUA	82.14	13	ePc	18	52.26	-0.9
IPM	82.14	277	ePd	18	55.40	1.3
	1.0s	580.30nm			6.1mb	
		e	22	09.90		
PWL	82.15	14	iPc	18	52.26	-0.9
LON	82.16	36	P	18	53.52	0.0
HIN	82.20	15	ePc	18	52.65	-0.8
PMS	82.21	14	ePc	18	52.80	-0.6
FMW	82.35	35	P	18	55.06	0.4
SKT	82.44	13	ePc	18	52.41	-2.1
TTA	82.46	10	ePc	18	54.70	0.0
	1.4s	867.70nm			6.1mb	
PWA	82.50	13	ePc	18	53.60	-1.2
CVA	82.52	16	ePc	18	54.32	-0.6
JBO	82.53	37	P	18	55.82	0.5
ARUT	82.55	47	ePc	18	56.56	0.7
CFI	82.57	15	ePc	18	54.58	-0.5
RMW	82.58	35	ePc	18	56.00	0.3
		epP	20	56.81	559kmX	
KNK	82.61	14	ePc	18	54.79	-0.6
PLRM	82.61	14	ePc	18	54.65	-0.7
PMR	82.61	14	ePc	18	54.60	-0.7
	1.4s	1154.60nm			6.2mb	
SGAM	82.62	16	ePc	18	55.13	-0.4
RAGM	82.67	16	ePc	18	55.39	-0.4
HMT	82.74	16	ePc	18	55.74	-0.4
MCW	82.77	34	P	18	57.02	0.5
ANM	82.79	6	ePc	18	56.74	0.6
GHO	82.82	14	iPc	18	55.99	-0.5
VLZ	82.88	15	ePc	18	56.05	-0.6
VLZ	82.88	15	eP	18	56.56	-0.1
SIT	82.93	22	ePc	18	57.10	0.1
EBG	82.95	36	P	18	57.96	0.5
JCW	82.95	34	P	18	57.73	0.3
SML	82.98	14	ePc	18	56.48	-0.8
CUT	83.08	13	ePc	18	56.88	-0.8
SCM	83.24	14	ePc	18	58.21	-0.4
KLU	83.29	15	iPc	18	58.31	-0.6
SNG	83.36	280	eP	19	02.50	2.4
	1.5s	1777.78nm			6.4mb	
		e	37	25.50		
CRQM	83.39	17	ePc	18	59.25	-0.3
WAH2	83.42	36	P	19	00.39	0.7
YAH	83.46	18	iPc	19	00.25	0.3
TGL	83.48	17	ePc	18	59.64	-0.3
BJI	83.53	316	iPc	19	00.76	0.4
LNOR	83.66	38	P	19	01.01	0.0
HUR	83.73	13	eP	19	00.25	-0.7
WTV	83.74	36	P	19	01.54	0.1
TOA	83.75	15	ePc	19	01.30	0.1
MSU	83.77	46	iPc	19	03.35	1.3
		epP	21	03.33	552kmX	
		ePP	22	24.16		
GLB	83.79	16	iPc	19	00.85	-0.5
GLB	83.79	16	eP	19	01.01	-0.3
MAW	83.82	200	iPd	19	03.00	1.6
	0.9s	183.33nm			5.7mb	
BALM	83.85	17	iPc	19	01.34	-0.4
TZL	83.88	15	ePc	19	01.86	0.1
KTH	83.98	12	ePc	19	00.45	-1.8
ENH	83.99	304	ePc	19	04.26	1.4
TRF	84.01	12	iPc	19	01.28	-1.3
SAW	84.05	36	P	19	03.03	0.1
CTGM	84.07	17	iPc	19	02.64	-0.2
DUG	84.15	45	eP	19	03.21	-0.5
	1.4s	285.94nm			5.7mb	
		ipPc	21	02.73	549kmX	
		isPd	21	59.67		
SDG	84.27	15	ePc	19	03.06	-0.6
RND	84.27	13	ePc	19	03.00	-0.7
DHY	84.31	14	iPc	19	03.26	-0.8

MCK	84.55	13	ePc	19	04.01	-1.0
PAX	84.67	15	ePc	19	04.54	-1.1
GYA	84.74	300	iPd	19	08.20	1.3
	1.2s	170.00nm			5.6mb	
MRX	84.74	67	(P)	19	09.00	2.3
DPW	84.81	36	P	19	06.88	0.2
BWN	84.82	12	ePc	19	05.31	-1.0
HVU	84.94	43	iPc	19	08.08	0.5
		ePP	22	33.31		
THY	84.98	14	eP	19	07.44	0.3
TIY	85.00	312	Pc	19	09.00	1.2
	0.8s	47.00nm			5.2mb	
		PP	22	33.00		
SRU	85.19	46	iPc	19	09.47	0.6
		epP	21	10.46	555kmX	
NEA	85.26	12	ePc	19	06.72	-1.7
DAU	85.30	45	eP	19	09.79	0.3
		pP	22	36.54		
MLY	85.34	12	ePc	19	07.22	-1.6
WRH	85.37	13	ePc	19	07.91	-1.0
ILT	85.50	0	iPc	19	08.00	-1.3
	1.0s	450.00nm			6.1mb	
		i	22	32.00		
		i	28	40.00		
		iS	28	53.00		
DJE	85.52	14	eP	19	09.45	-0.2
HDA	85.56	13	ePc	19	08.87	-1.0
TMW	85.57	15	ePc	19	09.66	-0.3
DOT	85.58	15	ePc	19	09.43	-0.5
CCB	85.59	13	ePc	19	08.80	-1.1
NEW	85.64	36	iPc	19	10.55	0.0
	1.1s	308.09nm			5.9mb	
BC3	85.67	16	iPc	19	10.04	-0.4
IM3	85.67	10	iPc	19	09.82	-0.5
LOE	85.73	290	iPd	19	12.90	1.4
IMA	85.76	10	ePc	19	10.40	-0.5
MDM	85.77	13	ePc	19	09.53	-1.3
III	85.80	69	(P)	19	14.50	2.3
COL	85.81	13	iPc	19	09.75	-1.3
	1.3s	1038.09nm			6.4mb	
		epP	21	09.74	549kmX	
FBA	85.81	13	ePc	19	09.80	-1.2
	1.0s	594.00nm			6.3mb	
PV09	85.88	48	ePc	19	12.95	0.6
		epP	21	14.14	555kmX	
IL1	85.89	13	ePc	19	10.24	-1.2
ILB	85.89	13	ePc	19	10.27	-1.1
PV10	85.89	48	iPc	19	12.46	0.1
		epP	21	13.31	553kmX	
NNT	85.94	285	iPd	19	14.70	2.1
GLM	85.97	13	ePc	19	10.62	-1.2
XAN	85.98	308	Pc	19	14.00	1.5
	1.0s	100.00nm			5.5mb	
		SKS	28	45.50		
		S	29	05.00		
		SS	34	52.00		
HIA	86.14	325	iPc	19	13.20	0.3
		epPc	21	13.38	549kmX	
		esPd	22	10.00		
		ePP	22	36.48		
LTX	86.22	58	iPc	19	13.88	0.0
		epP	21	14.72	553kmX	
		esPd	22	10.01		
PV08	86.26	48	ePc	19	14.53	0.4
		epP	21	16.71	561kmX	
ALQ	86.29	52	ePc	19	14.76	0.5
	1.1s	216.93nm			5.8mb	
		epP	21	16.33	557kmX	
ANMO	86.29	52	ePc	19	14.42	0.2
		epPc	21	15.26	553kmX	
		esPd	22	12.20		
MCMT	86.39	41	iPc	19	15.50	1.0
		i	21	18.10	563kmX	
NST	86.59	288	eP	19	18.00	2.3
LTMT	86.70	41	ePc	19	17.40	1.3
		e	21	22.50	577kmX	
PPM	86.79	69	(P)	19	19.50	2.2
HBMT	87.01	40	iPc	19	17.80	0.3
		e	21	23.70	581kmX	
HHC	87.01	315	P	19	18.70	1.3
	1.0s	23.00nm			4.9mb	
IIT	87.06	69	(P)	19	20.50	2.3
TPMT	87.08	41	iPc	19	19.50	1.6
		e	21	25.10	579kmX	
BGMT	87.08	41	iPc	19	18.80	1.0
		e	21	21.90	565kmX	
LRM	87.12	40	iPc	19	18.10	0.1

11d 13h

		e	21	24.10	581kmX	
		ePKKP	37	07.90		
BUT	87.14	40 ePc	19	18.50	0.5	
		e	21	24.10	579kmX	
KMI	87.53	297 iPd	19	22.48	2.1	
	1.5s	350.00nm			5.9mb	
		iS	29	20.00		
MEMT	87.92	41 ePc	19	22.50	0.8	
		e	21	26.40	567kmX	
HRY	87.92	39 iPc	19	22.00	0.4	
		e	21	28.40	582kmX	
SXM	88.04	40 iPc	19	22.90	0.7	
		e	21	25.70	561kmX	
BDT	88.13	289 iPd	19	25.00	2.1	
	0.8s	124.60nm			5.8mb	
CHTO	88.69	290 ePd	19	27.07	1.6	
	1.0s	116.25nm			5.7mb	
CD2	88.78	303 iPd	19	27.30	1.5	
	1.4s	88.00nm			5.5mb	
LVVM	88.95	69 (P)	19	27.50	0.9	
GLD	89.17	48 ePc	19	28.57	1.0	
	1.4s	384.09nm			6.1mb	
		epP	21	30.76	556kmX	
YAK	89.38	338 iPc	19	27.50	-0.2	
	2.0s	497.00nm			6.1mb	
		i	23	05.00		
		i	29	02.00		
		i	29	26.00		
LZH	90.61	308 Pc	19	35.80	1.6	
	1.4s	77.00nm			5.5mb	
CIT	90.90	325 eP	19	30.00	-5.0X	
		e	29	15.00		
NVL	91.32	183 iPd	19	37.00	0.3	
	2.0s	336.00nm			6.0mb	
		ePcP	19	48.00		
		e	20	35.00		
		ipP	21	41.00	564kmX	
		e	21	55.00		
		esP	22	20.00		
		ePP	23	03.00		
		ePPP	25	16.00		
		iS	29	16.00		
		e	29	48.00		
		e	30	05.00		
		e	31	59.00		
		esS	32	22.00		
		eSS	33	59.00		
RSSD	91.73	44 ePc	19	39.21	0.0	
	0.9s	121.25nm			5.9mb	
		epP	21	42.69	560kmX	
		ePP	23	24.51		
INK	91.90	15 eP	19	39.00	-0.2	
	1.0s	69.00nm			5.6mb	
SNA	92.04	179 iPd	19	40.80	0.8	
	0.8s	413.43nm			6.5mb	
WMOK	92.05	54 ePc	19	40.27	-0.4	
	1.3s	127.58nm			5.8mb	
		epPc	21	41.44	547kmX	
MEO	92.22	54 iPd	19	41.50	0.0	
ACO	92.45	52 iPd	19	37.40	-5.1X	
YKA	94.40	25 eP	19	50.70	-0.1	
	1.0s	53.50nm			5.7mb	
TUL	94.75	54 iP	19	54.20	1.2	
GTA	94.76	310 eP	19	53.50	0.4	
	1.0s	12.00nm			5.1mb	
TIK	96.01	345 eP	19	58.00	0.2	
MIAR	96.05	56 eP	19	59.15	0.3	
LSA	98.74	298 eP	20	13.20	1.5	
CCM	98.85	53 eP	20	21.22	9.8X	
ULM	99.06	40 eP	20	14.00	1.9	
FVM	99.46	53 eP	20	14.09	-0.1	
	1.4s	56.31nm			5.8mb	
ELC	100.20	54 ePdiff	20	17.73	0.2	
GUN	102.77	295 Pdiff	20	38.80	9.1X	
PKI	103.10	295 Pdiff	20	31.60	0.5	
KKN	103.26	295 Pdiff	20	32.60	0.9	
DMN	103.37	295 Pdiff	20	33.20	1.0	
RES	105.45	16 ePdiff	20	40.50	0.5	
	1.0s	3.00nm			5.1mb	
JSC	105.86	59 PKP	25	10.30	18.2X	
LHS	106.26	58 Pdiff	21	00.20	15.7X	
NAV	106.78	56 PKP	25	03.10	9.3X	
HYB	106.91	283 ePKP	25	01.00	6.4X	
	1.2s	71.40nm				
		e	25	14.50		
GBA	107.02	279 PKP	24	57.00	2.3	
BLA	107.05	56 PKP	25	13.20	18.9X	

KSH	112.79	306 ePKP	25	05.50	0.2	
DAG	120.16	5 ePKP	25	17.50	-0.5	
SVE	121.42	326 ePKPc	25	20.00	-1.0	
	1.8s	20.00nm				
		e	26	59.00		
ARU	122.62	326 ePKPc	25	23.00	-0.3	
		e	27	14.00		
		e	27	20.00		
		eSS	36	17.00		
GRM	123.68	205 iPKPc	25	27.50	1.3	
	1.0s	144.00nm				
MAIO	125.79	302 iPKPd	25	30.80	0.5	
		i	27	24.00		
CER	126.25	199 iPKPc	25	27.00	-4.2X	
	1.5s	140.00nm				
		i	27	30.50		
HVD	126.49	206 ePKP	25	30.00	-1.9	
	0.8s	35.00nm				
		e	27	39.00		
ASH	126.57	304 ePKP	25	32.00	0.4	
SUR	126.67	201 iPKPd	25	35.00	2.8X	
	0.7s	105.00nm				
		e	26	47.50		
SEK	127.50	210 e(PKP)	25	24.00	-9.8X	
	1.5s	222.22nm				
		e	27	30.00		
SDF	127.88	348 ePKP	25	33.00	-0.1	
		iSKP	28	02.80		
BOSA	128.25	207 ePKP	25	36.03	1.0	
		ipPKPd	27	51.88		
		eSKP	28	05.55		
POF	129.71	201 iPKPc	25	40.00	2.3	
	1.0s	200.00nm				
		e	27	58.00		
SOB1	130.43	119 ePKP	25	38.80	-0.8	
SHI	131.98	294 ePKP	25	41.00	-1.3	
KAF	132.42	344 ePKP	25	38.00	-3.9X	
OBN	134.10	332 ePKP	25	46.00	0.7	
NUR	134.21	344 ePKP	25	34.00	-11.3X	
		iSKP	28	24.40		
NB2	136.28	353 PKP	25	37.00	-12.3X	
	0.6s	2.30nm				
ERE	136.67	310 ePKP	25	52.00	1.2	
HFS	136.82	351 ePKP	25	37.90	-12.4X	
	0.4s	4.70nm				
WIN	136.96	202 ePKP	25	41.00	-11.0X	
	1.3s	190.00nm				
		i	28	35.00		
EDR	140.89	3 ePKP	25	51.20	-6.6X	
EDU	141.23	4 ePKP	25	52.60	-5.8X	
EAB	141.49	5 ePKP	25	53.40	-5.5X	
EBH	141.49	4 ePKP	25	53.50	-5.4X	
EBL	142.00	4 ePKP	25	54.00	-5.8X	
EKA	142.43	4 PKPc	25	56.70	-3.8X	
	0.8s	22.40nm				
AAE	142.56	261 ePKP	26	01.50	-0.9	
GAZ	143.06	309 ePKP	26	01.00	-1.1	
KIS	143.10	328 iPKP+	25	59.00	-2.9	
		e	29	16.00		
WIM	143.48	6 iPKPc	25	59.90	-2.4	
KAS	143.63	317 iPKPc	26	03.20	0.1	
DCN	143.95	9 iPKPc	26	01.60	-1.5	
	1.0s	626.00nm				
DLF	144.10	8 iPKPc	26	02.20	-1.2	
	0.9s	740.00nm				
CLI	144.21	329 iPKPc	26	02.50	-1.4	
WME	144.26	6 ePKPc	26	02.10	-1.5	
YRC	144.37	6 iPKPc	26	02.80	-1.0	
PTT	144.37	330 ePKP	25	57.00	-7.1X	
OJC	144.45	339 iPKPd	26	03.90	-0.2	
		e	28	53.10		
CFR	144.70	326 ePKPc	26	04.00	-0.7	
YRH	144.78	6 iPKPc	26	04.00	-0.6	
VAL	144.78	12 iPKP	26	05.20	0.6	
	1.1s	5.00nm				
UZH	144.85	336 iPKPc+	26	06.00	1.2	
	1.3s	585.00nm				
KSP	144.96	343 ePKP	26	04.90	-0.1	
	0.9s	240.00nm				
		ic	26	06.00		
		i	26	14.00		
		i	28	54.30		
VRI	144.97	328 ePKPc	26	05.00	-0.1	
RAC	145.08	341 ePKP	26	06.00	0.8	
SPC	145.17	338 ePKP	25	58.00	-7.6X	
		i	26	05.80		
		e	28	39.90		

		i	28	54.00		
		e(PP)	29	26.20		
CLL	145.33	347 iPKP	26	05.60	0.1	
	1.7s	700.00nm				
		i	28	23.90		
		iSKP	28	55.00		
DPC	145.37	343 iPKPc	26	06.48	0.8	
HCG	145.38	5 ePKPc	26	05.70	0.1	
BRG	145.53	346 iPKPd	26	06.20	0.3	
	1.2s	300.00nm				
		i	26	18.00		
		i	26	34.00		
ISR	145.57	328 ePKPc	26	07.00	0.8	
MLR	145.62	329 iPKPc	26	06.50	0.1	
JARJ	145.64	301 PKPd	26	13.37	6.6X	
WTS	145.64	354 ePKP	26	07.00	1.0	
	0.7s	153.40nm				
		e	28	56.00		
HTR	145.65	5 iPKPc	26	06.90	0.8	
HAE	145.75	4 iPKPc	26	07.40	1.2	
KFNJ	145.97	301 PKPc	26	14.41	7.3X	
MASJ	145.97	301 PKPd	26	13.94	6.6X	
HGH	146.13	5 iPKPc	26	08.30	1.5	
PRU	146.20	345 iPKPc	26	09.20	2.2	
	1.4s	232.00nm				
		i	26	11.60		
		e	28	16.70		
MTUR	146.24	329 ePKP	26	10.00	2.6	
MOX	146.25	348 ePKP	26	07.10	0.0	
	1.7s	284.00nm				
VRAC	146.26	342 iPKPc	26	09.60	2.5	
	1.4s	421.80nm				
		i	26	12.60		
FAM	146.28	307 ePKP	26	09.00	1.4	
LISJ	146.29	300 PKPc	26	15.48	7.8X	
PSZ	146.36	337 iPKPc	26	09.80	2.4	
EYL	146.37	318 ePKP	26	07.60	-0.1	
HOF	146.51	348 ePKP	26	07.40	-0.1	
BNS	146.62	353 iPKPc	26	10.40	2.8X	
	1.4s	160.00nm				
ITU	146.77	320 iPKPc	26	11.50	3.3X	
CSS	146.80	307 ePKPd	26	11.50	3.0X	
ENN	146.94	355 ePKP	26	11.00	2.9X	
	0.7s	130.00nm				
		e	28	59.00		
SRO	147.01	339 iPKP	26	13.10	4.8X	
		i	27	33.80		
		iPP	29	37.30		
		e	36	47.00		
UCC	147.03	356 PKPc+	26	12.00	3.7X	
ZST	147.09	340 ePKP	26	11.80	3.3X	
		epPKP	28	27.00		
		ePP	29	31.30		
MEM	147.09	354 iPKPc	26	11.43	3.1X	
	1.1s	78.00nm				
TNS	147.19	351 iPKPc	26	12.10	3.4X	
		i	26	15.20		
		e	26	28.90		
ALT	147.22	316 ePKP	26	11.40	2.3	
GRF	147.23	348 ePKP	26	09.30	0.6	
		ic	26	12.60		
		ed	26	16.10		
		epPKPd	28	22.20		
KHC	147.24	345 PKP	26	09.00	0.3	
	1.2s	197.50nm				
		i	26	12.50		
		e	27	08.00		
		e	27	29.00		
		e	28	06.00		
		e	29	12.00		
		e	29	31.00		
		e	30	50.00		
VKA	147.27	341 iPKPc	26	12.50	3.7X	
SNF	147.32	356 iPKPc	26	12.18	3.4X	
		id	26	15.76		
WET	147.39	346 ePKP	26	09.50	0.5	
GEC2	147.47	345 PKP	26	09.20	0.0	
	0.9s	3.00nm				
		e	26	12.90		
		e	26	17.20		
		e	29	47.30		
		e	30	00.80		
PPCY	147.58	308 ePKP	26	13.00	3.3X	
BCK	147.71	313 ePKP	26	12.00	2.1	
SOP	147.71	341 ePKPd	26	13.80	4.3X	
DOU	147.72	356 iPKPc	26	13.80	4.4X	
KHL	148.00	315 iPKP	26	13.00	2.6	

11d 13h

```
WLF   148.01 354 iPKPc 26 14.50   4.6X
                 id    26 18.98
                 e     28 27.00
LANF  148.49 352 PKP   26 15.45   4.7X
HOFF  148.51 352 PKP   26 15.83   5.2X
ELL   148.53 312 ePKP  26 15.00   3.7X
FUR   148.67 347 ePKPc 26 16.00   5.0X
                 i     26 21.80
ALN   148.68 322 ePKP  26 15.08   3.9X
BHG   148.72 345 iPKPc 26 15.80   4.7X
                 i     26 22.40
STR   148.89 352 PKP   26 16.19   4.9X
WLS   149.11 352 PKP   26 16.66   4.9X
CDF   149.12 352 PKP   26 16.77   5.0X
FLN   149.13   2 ePKP  26 11.40  -0.2
       0.9s   15.05nm
KBA   149.20 344 iPKPc 26 16.30   4.2X
                 i     26 24.50
                 i     28 35.60
LDF   149.31   2 ePKP  26 11.30  -0.6
       1.3s   32.85nm
ECH   149.33 352 PKP   26 16.95   4.9X
LIBD  149.33 352 PKP   26 17.10   5.1X
WATA  149.39 346 iPKPc 26 17.30   5.0X
                 i     26 25.20
WTTA  149.45 346 iPKPc 26 17.60   5.2X
                 i     26 25.60
                 i     28 37.30
VITF  149.46 354 PKP   26 17.32   5.1X
PTJ   149.48 340 ePKP  26 16.10   3.7X
MOTA  149.49 347 iPKPc 26 17.50   5.0X
                 i     26 24.80
ZAG   149.54 339 ePKPc 26 17.00   4.7X
FEL   149.54 351 PKP   26 17.53   5.1X
SLE   149.58 350 iPKPc 26 17.60   5.2X
SQTA  149.58 347 iPKPc 26 17.90   5.3X
                 i     26 25.90
HAU   149.63 353 ePKP  26 12.00  -0.5
       0.8s    4.05nm
MOF   149.69 352 PKP   26 17.87   5.2X
BSF   149.75 353 ePKP  26 12.20  -0.6
       1.1s   14.90nm
LJU   149.80 341 ePKP  26 13.00   0.2
LJU   149.80 341 iPKP  26 18.00   5.2X
                 ePKPab26 25.60
                 e     27 18.00
                 epP'ab28 32.00
                 e     28 38.50
LPF   149.83   3 ePKP  26 12.30  -0.4
       1.2s   23.20nm
ZLA   149.87 350 ePKPc 26 18.30   5.4X
SRS   149.91 325 ePKP  26 17.64   4.5X
OGA   149.96 347 ePKP  26 13.60   0.4
VOY   150.00 342 ePKPc 26 18.30   5.1X
                 e     26 19.50
                 e     26 43.30
                 e     28 38.50
                 e     28 45.00
                 eSKPdf28 54.30
BBS   150.02 352 PKP   26 18.64   5.5X
VBY   150.06 340 ePKP  26 12.70  -0.4
VBY   150.06 340 iPKP  26 19.10   6.0X
LOMF  150.22 352 PKP   26 19.40   5.9X
OUR   150.23 324 ePKP  26 18.56   5.0X
SOH   150.25 325 ePKP  26 18.20   4.5X
KNT   150.26 326 ePKP  26 18.52   4.9X
OSS   150.32 348 ePKPc 26 20.00   6.3X
TRI   150.33 342 PKP   26 19.34   5.8X
       1.3s 3528.85nm
LLS   150.36 349 ePKPc 26 19.60   5.8X
SKO   150.42 329 ePKP  26 13.00  -0.8
       0.9s   70.00nm
                 i     26 19.60
                 i     26 29.00
                 i     28 30.00
RIY   150.48 341 iPKPc 26 19.70   6.0X
LOR   150.58 356 ePKP  26 13.70  -0.2
       1.1s   13.65nm
VDL   150.64 348 ePKPc 26 20.60   6.3X
GRG   150.67 326 ePKP  26 19.56   5.3X
BCI   150.78 331 iPKPd 26 19.00   4.6X
SSF   150.81 357 ePKP  26 14.50   0.3
       1.1s    4.90nm
LBF   150.86 356 ePKP  26 14.20  -0.2
AVF   151.08 357 ePKP  26 14.40  -0.2
       1.1s    7.35nm
TMA   151.12 349 ePKPc 26 21.50   6.5X
PHP   151.13 329 ePKP  26 21.20   6.3X
LIT   151.22 325 ePKP  26 20.72   5.6X
SAL   151.26 346 PKP   26 22.00   7.1X
       1.3s  521.60nm
SDA   151.29 331 iPKPc 26 22.70   7.6X
MFF   151.30   2 ePKP  26 14.50  -0.5
       0.9s   13.10nm
FNA   151.33 327 ePKP  26 21.56   6.3X
MMK   151.33 350 iPKPc 26 22.50   7.1X
BGF   151.34 358 ePKP  26 15.00   0.0
       1.1s   12.70nm
OHR   151.38 328 iPKP  26 15.20  -0.1
       0.7s   90.00nm
                 i     26 21.60
                 i     26 31.50
DIX   151.39 351 ePKPc 26 22.90   7.4X
EMS   151.47 352 ePKPc 26 22.80   7.3X
LACI  151.51 330 ePKP  26 20.00   4.6X
TCF   151.63 359 ePKP  26 15.30  -0.2
       1.2s   17.25nm
HVAR  151.66 336 iPKP  26 21.60   6.0X
TIR   151.66 330 ePKP  26 24.00   8.4X
MAF   151.68 358 ePKP  26 14.90  -0.7
       1.3s   17.35nm
ORO   151.74 350 PKP   26 22.94   7.2X
       0.9s   57.90nm
KBN   151.75 328 ePKP  26 20.50   4.6X
RSL   151.88 352 PKP   26 23.48   7.4X
LSD   152.03 351 PKP   26 24.25   7.8X
LPL   152.04 352 ePKP  26 16.60   0.2
       1.1s   10.25nm
AGG   152.06 323 ePKP  26 22.56   6.2X
LSK   152.20 327 ePKP  26 24.20   7.6X
BOB   152.30 347 PKP   26 24.87   8.3X
       1.0s  202.10nm
RSP   152.32 351 PKP   26 23.29   6.7X
TPE   152.39 328 ePKP  26 21.50   4.8X
BNI   152.50 352 PKP   26 25.45   8.5X
       1.2s  113.00nm
SSB   152.51 355 PKP   26 24.85   8.1X
RRL   152.61 351 PKP   26 25.48   8.3X
BHB   152.62 351 PKP   26 23.65   6.7X
RJF   152.62 360 ePKP  26 16.80  -0.1
       0.8s    6.70nm
PCP   152.69 349 PKP   26 26.08   9.0X
FIR   152.81 344 ePKP  26 17.00  -0.1
PZZ   152.97 351 PKP   26 25.53   7.9X
ROB   153.05 350 PKP   26 25.44   7.8X
ASS   153.06 341 PKP   26 28.54  10.9X
       1.1s 1086.40nm
FIN   153.08 349 PKP   26 25.85   8.3X
SAOF  153.41 350 PKP   26 23.03   5.0X
AUTN  153.42 350 PKP   26 27.08   8.7X
IMI   153.42 349 PKP   26 26.81   8.7X
TOUF  153.43 350 PKP   26 22.38   4.1X
AQU   153.47 340 PKP   26 34.08  15.9X
       0.1s   98.50nm
AURF  153.54 350 PKP   26 21.95   3.6X
PGF   154.51 347 PKP   26 28.81   9.1X
BCAO  158.48 234 iPKPd 26 25.50   0.2
       0.9s  248.00nm
                 i     27 05.20
                 i     30 47.00
LIC   166.91 151 PKP   26 33.66   0.4
       1.0s   34.50nm
KIC   167.16 152 PKP   26 33.72   0.3
       1.0s   32.00nm
TIC   167.29 150 PKP   26 33.80   0.3
       0.9s   29.50nm
LKO   169.39 140 PKP   26 35.04   0.2
       0.9s   19.00nm
     S.D. = 1.0  on 457 of 583 obs.
-----------------------------------
&  OCT  11, 1993  13h 29m 09.04s
   32.385 N          115.059 W
   DEPTH =   6.0km  (geophysicist)
 CALIF.-BAJA CALIF. BORDER REGION( 45)
      <PAS-P>. ML 2.9 (PAS).

GLA     0.69  16 eP    29 21.13  -1.8
PLM     1.80 303 (P)   29 39.20  -1.8
        2 obs. associated
-----------------------------------
?  OCT  11, 1993  14h 06m 54.83± 1.87s
   28.557 S ± 9.6km   30.611 E ±20.3km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA        (584)
      ML 3.3 (PRE).

BFT     2.90 350 eP    07 42.60  -0.2
                 S     08 17.00
SLR     3.49 323 eP    07 49.90  -1.2
                 S     08 46.00
BLF     3.92 261 eP    07 57.90   0.7
                 S     08 42.90
KSR     4.26 308 eP    08 01.90  -0.1
HVD     4.90 244 e(P)  08 11.50   0.4
                 S     09 06.00
GRM     5.87 215 e(P)  08 24.00  -0.7
                 S     09 26.00
BUL     8.57 347 eP    08 51.00 -11.7X
                 i     11 21.40
KRI    11.71 355 iPn   09 46.70   0.9
                 iSn   11 48.40
                 iSg   13 08.50
     S.D. = 0.9  on   7 of   8 obs.
-----------------------------------
%  OCT  11, 1993  14h 29m 39.26± 0.86s
   60.398 N ± 8.0km    5.252 E ±10.4km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN NORWAY                 (535)
      MD 1.3 (BER).

BER     0.04 111 eP    29 40.51  -0.8
ASK     0.09 342 iPc   29 41.76  -0.1
                 eS    29 45.02
EGD     0.13 186 iPd   29 42.33   0.0
                 eS    29 46.24
SUE     0.70 340 eP    29 52.68  -0.4
                 eS    30 06.46
NRA0    3.12  81 ePg   30 29.68   0.3
                 eLg   31 08.50
     S.D. = 0.6  on   5 of   5 obs.
-----------------------------------
?  OCT  11, 1993  14h 34m 52.08± 5.39s
   39.039 N ±20.3km   26.133 E ±53.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.9 (ISK).

EZN     0.80  11 iPg   35 07.40  -0.2
                 iSg   35 20.90
IZM     1.09 126 ePg   35 12.60   0.0
                 eSg   35 28.60
KGT     1.67  32 iPn   35 21.60   0.1
EDC     1.87  45 ePn   35 24.20  -0.2
MFT     1.96  26 ePn   35 26.00   0.3
     S.D. = 0.3  on   5 of   5 obs.
-----------------------------------
%  OCT  11, 1993  14h 39m 54.30± 0.83s
   39.676 N ± 9.3km   29.520 E ± 8.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.8 (ISK).

ALT     0.77 143 ePg   40 09.40   0.0
                 eSg   40 21.90
EYL     1.01  29 ePn   40 13.60   0.0
BNT     1.40 299 ePn   40 19.60  -0.3
EDC     1.44 298 ePn   40 20.20  -0.2
KGT     1.87 295 ePn   40 27.10   0.5
     S.D. = 0.4  on   5 of   5 obs.
-----------------------------------
?  OCT  11, 1993  15h 45m 28.09± 1.53s
   44.594 N ±11.9km   11.417 E ±19.7km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                  (545)
      MD 2.8 (FIR).

FIR     0.82 188 ePg   45 44.00   0.0
                 iSg   45 55.00
RIY     2.24  69 iPn   46 05.20  -0.5
                 iSn   46 26.50
VOY     2.26  50 ePn   46 04.90  -1.3
                 eSn   46 32.90
CEY     2.42  61 ePn   46 10.00   1.7
                 e(Sn) 46 33.70
                 eSg   46 44.70
LJU     2.63  56 eP    46 17.00   5.6X
                 e(Sn) 46 40.20
                 e     46 53.50
VBY     2.87  70 ePn   46 14.60  -0.1
                 e     46 41.80
                 i     47 01.00
```

```
GEC2     4.53  19 Pg     47 00.00   21.6X
                  Sn     47 20.10
KHC      4.77  17 ePn    46 42.00    0.2
                  e      47 05.50
                  e      47 27.00
                  eSn    47 40.50
                  e      48 15.50
     S.D. = 1.3  on   6 of   8 obs.
-----------------------------------------
% OCT  11, 1993  15h 52m 30.54± 3.34s
   43.811 N ±20.5km     7.075 E ±14.0km
   DEPTH =   5.0km  (geophysicist)
 NEAR SOUTH COAST OF FRANCE        (379)
      ML 2.6 (GEN).

STV      0.47  23 P      52 40.18    0.2
                  S      52 47.50
IMI      0.60  80 P      52 42.01   -0.5
                  S      52 50.16
PZZ      0.69   2 P      52 44.21   -0.2
                  S      52 54.16
ROB      0.75  50 P      52 45.95    0.3
                  S      52 57.08
FIN      0.91  64 P      52 48.46    0.0
BHB      1.04   7 P      52 49.84   -0.8
RRL      1.13 349 P      52 52.22   -0.1
PCP      1.29  55 P      52 55.24    0.4
RSP      1.35   6 P      52 55.73   -0.2
LSD      1.65   2 P      53 01.37    0.9
     S.D. = 0.5  on  10 of  10 obs.
-----------------------------------------
   OCT  11, 1993  15h 54m 21.24± 0.07s
   32.020 N ± 1.8km  137.832 E ± 1.9km
   DEPTH = 350.7km  (geophysicist)
   6.4mb (168 obs.)
 SOUTH OF HONSHU, JAPAN            (211)
      Mw 6.8 (GS), 6.9 (HRV). mb 6.7
      (BRK). Mo=3.9*10**19 Nm (PPT).
      One person died of a heart
      attack and four other people
      were injured in the Tokyo area.
      Felt (IV JMA) at Tokyo and
      Yokohama; (III JMA) at Chiba,
      Fukushima and Utsunomiya; (II
      JMA) at Kushiro, Morioka and
      Sendai. Depth from broadband
      displacement seismograms.
      FAULT PLANE SOLUTION: P-Waves
       NP1:Strike=359 Dip=90 Slip=-110
       NP2:        269      20      -360
       Principal Axes:
        T                Plg=42  Azm=108
        P                  42       250
      Comment: The focal mechanism is
        poorly controlled and
        corresponds to normal
        faulting with a moderate
        strike-slip component. The
        preferred fault plane is not
        determined.
      RADIATED ENERGY
       No. of sta:  16  Focal mech.  F
       Energy        1.0±0.2*10**14 Nm
      MOMENT TENSOR SOLUTION
      Dep 361            No. of sta: 12
      Moment Tensor;    Scale 10**19 Nm
        Mrr= 0.07        Mtt= 0.08
        Mff=-0.15        Mrt= 0.03
        Mrf=-2.00        Mtf=-0.37
       Principal axes:
        T  Val=  2.00  Plg=45  Azm= 78
        N        0.06      10      179
        P       -2.06      43      279
      Best Double Couple:Mo=2.0*10**19
       NP1:Strike= 81 Dip=11 Slip= 172
       NP2:       179      89       80
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 49S, **C  M.W.: 43S, 95C
      Centroid Location:
      Origin Time        15:54:27.7 0.1
      Lat 32.12N 0.01 Lon 138.02E 0.01
      Dep 364.5 0.4 Half-duration  6.8
      Moment Tensor;    Scale 10**19 Nm
        Mrr=-0.04 0.01  Mtt= 0.04 0.01
        Mff= 0.00 0.01  Mrt=-0.09 0.01
        Mrf=-2.42 0.01  Mtf=-0.39 0.01
        Principal Axes:
         T  Val=  2.42  Plg=44  Azm= 83
         N        0.07       9      182
         P       -2.48      44      281
       Best Double Couple:Mo=2.5*10**19
        NP1:Strike= 93 Dip= 9 Slip=-179
        NP2:         2      90      -81

WKYJ     2.89 320 P      55 24.30    4.2X
                  S      56 13.50
IIDJ     3.45   1 P      55 28.10    2.8
TKSJ     3.73 303 P      55 32.10    4.1X
TKSJ     3.73 303 P      55 32.30    4.3X
                  S      56 28.80
TSRJ     3.83 337 P      55 32.60    3.6X
                  S      56 30.00
CHJJ     4.13  13 P      55 33.30    1.2
MAJO     4.52   4 ePd    55 38.01    1.8
                  eS     56 41.32
MAT      4.52   4 iPd    55 37.70    1.5
                  eS     56 38.00
MTMJ     4.55 360 P      55 38.80    2.1
KAKJ     4.60  24 P      55 35.60   -1.4
YONJ     4.82 312 P      55 43.50    4.0X
                  S      56 48.50
SHK      4.99 302 iPc    55 45.40    4.1X
         0.4s  3389.83nm
NIIJ     5.30  10 P      55 44.40   -0.2
                  S      56 50.30
SAP     11.36  13 iP     56 57.20    0.8
                  eS     58 58.00
VLA     12.03 339 iPc+   57 05.00    0.5
     Z  11s    47.50um
     N  11s    37.40um
     E  11s    63.00um
MDJ     14.13 335 iPd    57 28.34   -0.5
                  sP     58 54.00
                  ScP    05 19.50
                  ScS    08 55.00
SSE     14.23 271 iPd    57 29.23   -0.7
         1.0s   450.00nm          5.8mb
     N  12s    277.00um
     E  12s    609.00um
DL2     14.87 302 P      57 36.00   -0.9
         1.0s  2650.00nm          6.5mb
                  S      00 10.00
SNY     15.01 315 iPd    57 38.00   -0.2
     N  11s    126.00um
     E  11s     50.90um
                  S      00 14.00
                  ScS    08 58.40
CN2     15.27 324 iPd    57 40.60   -0.5
     N  13s     19.10um
     E  13s     59.10um
                  eS     00 22.00
KUR     15.33  28 iPc    57 41.00   -0.6
         1.0s  9050.00nm          7.1mb
                  iS     00 24.00
YSS     15.44  13 iP+    57 41.00   -1.8
                  iS     00 24.00
YSS     15.44  13 iPc+   57 44.50    1.7
         0.4s  1820.00nm          6.8mb
     Z  14s     32.50um          4.5MszX
     N  14s     40.30um
     E  14s     39.00um
                  iS     00 24.00
TATO    15.98 248 iPd    57 48.86    0.2
         0.9s  8104.73nm          7.1mb
NJ2     16.10 275 Pd     57 50.60    0.7
         0.8s   760.00nm          6.1mb
     Z  20s     44.40um          6.4MszX
     N  11s     28.60um
     E  10s     29.60um
                  sP     59 20.00
                  S      00 40.00
                  ScP    05 24.00
TIA     17.64 289 Pd     58 05.70   -0.1
     N  12s     88.30um
                  S      01 09.00
                  ScP    05 27.50
                  ScS    09 06.50
QZH     18.31 252 iPd    58 12.00   -0.5
         1.0s   640.00nm          5.9mb
     Z  10s     88.90um          4.6Msz
     N  10s     36.80um
                  S      01 22.00
BJI     19.23 301 iPd    58 22.03    0.5
         1.0s   370.00nm          5.7mb
                  sP     59 58.00
                  eS     01 38.00
GUMO    19.45 159 iPc    58 23.29   -0.6
                  epP    59 27.62
PJG     19.45 159 eP     58 23.30   -0.6
GUA     19.51 159 e(P)   58 24.30   -0.2
         0.7s  5457.53nm          7.0mb
WHN     20.12 272 iPd    58 31.50    1.2
     Z  14s    119.00um          6.4MszX
     N  10s     13.20um
     E  13s     16.30um
                  sP     00 12.00
                  iS     01 56.00
                  iScP   05 33.00
                  iScS   09 15.80
CVP     20.31 229 iPd    58 33.00    0.8
PIP     20.66 233 eP     58 37.00    1.4
TIY     21.57 292 Pd     58 45.00    0.6
         1.0s  1060.00nm          6.1mb
     Z  16s     70.10um          6.2MszX
     N  20s    143.00um
     E  20s    155.00um
                  S      02 21.00
HIA     21.93 327 iPd    58 49.03    1.3
BCP     22.04 229 eP     58 52.20    3.1X
BAG     22.06 229 iPd-   58 47.60   -1.7
         1.0s   618.00nm          5.9mb
                  i      00 30.00
                  i      02 25.00
HHC     22.83 300 Pd     58 55.30   -1.0
         0.8s   430.00nm          5.8mb
     Z  14s     69.10um          6.2MszX
                  S      02 39.00
QCP     23.10 225 eP     59 12.00   13.2X
HKC     23.13 251 iP     59 00.60    1.6
GZH     23.42 254 iPc    59 03.00    1.3
         1.2s   680.00nm          5.9mb
     N  11s     25.60um
     E  10s     13.30um
                  iS     02 48.00
TGY     23.60 225 ePd    59 04.00    0.5
MCO     23.71 251 eP     59 05.30    0.9
PLP     23.91 213 ePc    59 05.50   -0.7
BTO     23.92 299 iPc    59 06.00   -0.3
         0.8s   560.00nm          5.9mb
     N  10s     28.30um
     E  13s     72.50um
                  S      02 52.50
PGP     24.06 224 ePc    59 08.20    0.5
XAN     24.29 283 iP     59 09.20   -0.5
         0.5s   320.00nm          5.9mb
     Z  14s     42.30um          6.1MszX
     N  10s     20.60um
     E  10s     51.50um
                  sP     00 57.00
ENH     24.30 273 iPd    59 09.59   -0.1
MAP     25.11 214 iPd    59 18.00    0.9
PET     25.82  30 iP+    59 22.00   -1.2
     Z  14s    118.70um          6.6MszX
                  esP    00 20.00
                  eS     03 20.00
BIP     26.01 207 ePc    59 25.50    0.2
CIT     26.67 326 iP-    59 32.00    1.0
     Z  15s     81.81um          6.4MszX
     N  15s     65.44um
     E  15s     55.93um
                  eS     03 40.00
DAV     27.31 207 eP+    59 35.60   -1.4
         1.0s   704.00nm          5.9mb
                  e      00 52.10
                  eS     03 30.50
GYA     27.70 267 iPd    59 39.00   -1.5
         1.0s  1000.00nm          6.1mb
     Z  18s     50.70um          6.1Msz
     N  11s     49.00um
     E  11s     24.70um
                  pP     00 47.00 376kmX
                  sP     01 31.00
                  PcP    02 48.80
                  S      03 56.00
                  sS     05 50.00
                  ScP    05 51.00
                  PcS    06 30.00
                  ScS    09 46.00
CTB     27.77 210 eP     59 45.00    4.0X
QIZ     28.28 250 iPd    59 46.77    1.3
```

11d 15h

```
        1.2s   500.00nm          5.7mb
PPR    28.33 223 iPd   59 45.00  -0.9
LZH    28.36 288 iPd   59 45.76  -0.5
        1.4s  1810.00nm          6.2mb
                pP   00 52.00 359kmX
                sP   01 35.00
CD2    29.02 277 iPd   59 51.00  -1.0
     Z  15s    46.50um          6.2MszX
     E  20s   227.00um
                S    04 16.00
                SS   06 26.00
YAK    30.47 352 iPc+  00 03.00  -1.1
        1.2s  1826.00nm          6.3mb
                ePPP 01 05.00
                e    01 14.00
                e    01 49.00
                iS   04 33.00
                i    09 55.00
KMI    31.48 266 iPd   00 12.87  -0.8
        2.0s  1770.00nm          6.0mb
     Z  16s    71.00um          6.4MszX
     E  13s    42.60um
                epPd 01 21.30 362kmX
                ec   02 02.96
GTA    31.56 294 iPd   00 12.80  -1.3
        1.2s   350.00nm          5.6mb
     Z  22s    32.20um          6.0Msz
     E  10s    26.00um
                pP   01 19.00 347kmX
                PP   01 35.00
                PcP  02 57.00
                S    04 56.00
                ScP  06 04.00
                PcS  06 41.00
                SS   07 18.00
                ScS  10 01.00
IRK    31.63 320 ePc   00 15.00   0.6
        2.0s  5684.00nm          6.6mb
     Z  16s    76.30um          6.5MszX
                epP  00 34.00  81kmX
                e    00 59.00
                ePP  01 24.00
                ePPP 01 39.00
                e    02 57.00
                ePcP 03 06.00
                e    03 30.00
                epP  04 31.00
                e    04 47.00
                iS   04 58.00
                eSS  07 05.00
                e    09 04.00
                e    09 40.00
KKM    32.80 223 ePd   00 29.00   4.2X
                e    10 14.50
TSM    33.34 218 eP    00 29.50   0.3
        0.9s   721.50nm          6.0mb
SMY    33.35  41 ePd   00 29.80   0.8
        1.2s  6089.50nm          6.8mb
                e    01 52.50
LOE    35.69 255 eP    00 48.40  -0.7
KVG    36.56 158 eP    00 55.20  -1.1
AAI    36.67 196 eP    00 59.00   1.8
PCI    36.91 211 ePc   00 58.60  -0.6
        1.3s     7.90nm          3.9mb X
CHTO   37.30 259 iPd   01 02.81   0.3
                ipPd 02 12.06 346kmX
                ec   02 53.45
UER    37.32 315 iP    01 02.00  -0.3
        1.3s  1160.00nm          6.1mb
                e    02 12.00
                PPP  02 38.00
                iS   06 24.00
PCT    37.40 251 eP    01 05.00   1.7
                e    06 27.00
MDG    37.83 167 eP    01 07.20   0.4
NST    37.90 254 iPd   01 08.00   0.6
BDT    38.02 257 iPd   01 09.00   0.7
MNDI   38.37 171 eP    01 11.00  -0.5
ADK    38.44  45 ePc   01 11.13  -0.4
        1.1s  2511.20nm          6.4mb
                ePP  02 46.59
RAB    38.51 157 iP+   01 12.00  -0.4
        0.3s  1818.18nm          6.8mb
                iS   06 38.00
                i    30 11.00
                iS   30 28.00
KBR    39.28 252 iPd   01 26.00   7.3X
LSA    39.90 279 iPd   01 25.42   1.1
        1.2s   140.00nm          5.1mb X
                (pP) 02 33.85 344kmX
                PP   03 04.50
                ScP  06 32.40
NNT    39.92 250 eP    01 24.90   0.9
TIK    39.96 356 iPc-  01 24.50   0.8
                i    03 03.00
                iS   07 02.00
WMQ    40.70 302 iPd   01 30.76   0.5
     Z  24s    42.20um          6.2MszX
                id   03 16.98
                ScP  06 38.50
                S    07 15.00
                PcS  07 16.50
                ScS  10 54.00
PMG    42.15 166 iPc   01 40.58  -1.4
                ipPc 02 49.27 343kmX
                iPP  03 33.42
SNG    42.55 243 iPd   01 46.70   1.4
        1.0s  1740.00nm          6.2mb
                eS   07 40.00
ILT    43.80  22 iPc   01 56.00   1.4
                iS   07 56.00
ILT    43.80  22 iPc   01 52.60  -2.0
        0.8s   690.00nm          5.9mb
     N  16s    13.00um
     E  15s     5.30um
                ipP  03 40.00 616kmX
IPM    43.96 239 ePd   01 57.00   0.5
        1.3s  1335.30nm          6.0mb
                e    02 21.00
KGM    44.11 234 iPd   01 58.70   1.0
        1.0s  1742.40nm          6.2mb
                e    02 12.00
                e    03 10.10
KLM    44.52 237 eP    02 02.00   1.0
GUN    44.85 279 P     02 04.20   0.3
TPI    44.91 225 iPd   02 03.00  -1.0
                e    13 00.00
MTN    45.07 189 iPc   02 04.10  -1.1
        0.8s  1209.00nm          6.2mb
PKI    45.35 279 P     02 07.80  -0.1
KKN    45.39 279 P     02 08.20   0.2
DMN    45.59 279 P     02 09.80   0.1
HNR    46.33 149 eP    02 15.00   0.0
NRI    46.54 338 iPd-  02 14.00  -2.1
        1.2s   612.00nm          5.7mb
     Z  18s   112.00um          6.9Msz
     E  16s    52.00um
                e    03 45.00
                e    04 02.00
ANM    47.41  29 ePc   02 23.10   0.3
LEM    48.19 222 ePd   02 29.00  -0.6
     Z  20s    12.06um          5.9Msz
                eS   09 01.00
                eLR  12 42.00
KNA    48.29 192 iPc   02 29.60  -0.4
SDN    48.44  42 ePc   02 28.40  -2.4
                e    03 51.40
KSH    49.89 297 Pd    02 43.50   1.2
        1.5s  5660.00nm          6.7mb
     Z  16s    28.00um          6.4MszX
     N  14s    17.60um
     E  14s    19.10um
                PcP  03 54.00
                PP   04 45.00
                S    09 28.00
FRU    50.28 301 iPd+  02 44.80  -0.3
        2.5s  3820.00nm          6.3mb
                e    03 57.00
                e    04 36.00
                e    05 56.00
                iS   09 31.00
TTA    51.22  32 ePc   02 50.90  -0.9
SVW    51.29  35 ePc   02 51.90  -0.3
WRA    51.78 184 P     02 54.79  -1.3
        0.7s   145.40nm          5.4mb
WR2    51.78 184 eP    02 54.30  -1.8
        0.7s     1.70nm          3.5mb X
                ePP  04 17.10
                eS   09 42.90
                eP'P' 32 30.60
NDI    51.82 283 iPd   02 55.80  -0.7
        0.5s    71.83nm          5.3mb X
                eS   09 49.50
BRW    52.16  22 eP    02 59.90   1.5
QIS    52.31 178 iPc   02 58.90  -1.1
                e    04 46.00
                e    04 56.50
                eS   09 53.20
AUP    52.35  37 eP    02 59.91  -0.2
CTA    52.44 170 iP    02 59.70  -1.3
        1.0s   262.50nm          5.5mb
                i    03 11.00
                i    03 16.00
                i    03 28.00
                i    03 42.00
                ipP  04 13.00 350kmX
CTAO   52.44 170 iPc   02 59.98  -1.0
        1.1s  1191.97nm          6.1mb
                ipPc 04 11.99 343kmX
                esP  04 53.10
IMA    52.50  29 ePc   03 00.20  -1.0
KDC    52.87  39 ePc   03 02.10  -1.7
CRP    52.97  35 iPc   03 03.32  -1.4
SLKM   53.93  36 ePc   03 08.75  -2.7
PWA    54.05  34 ePc   03 10.10  -2.2
PMS    54.22  35 ePc   03 11.70  -1.9
PMR    54.41  34 ePc   03 12.80  -2.1
COL    54.91  30 iPc   03 16.87  -1.6
        0.6s  1363.00nm          6.5mb
                pP   04 35.20 374kmX
FBA    54.91  30 ePc   03 17.00  -1.5
HYB    55.16 270 iPd   03 20.00  -0.9
        1.0s  1550.00nm          6.4mb
                e    03 38.50
                e    04 06.00
                e    04 18.50
                eS   10 36.00
                e    12 27.00
ASPA   55.50 184 iPd   03 21.30  -1.7
        0.6s   353.40nm          6.0mb
     Z  20s    11.80um          6.0Msz
                isP  03 50.70
                iPP  04 45.90
                iS   10 35.10
                iScS 12 36.10
                iP'P' 32 54.70
MBL    55.62 200 iPd   03 22.40  -1.4
TOA    55.78  33 ePc   03 24.10  -0.6
KLU    55.96  34 eP    03 24.02  -1.9
MID    55.96  37 ePc   03 25.20  -0.6
        0.9s  1347.00nm          6.4mb
SVE    57.03 320 iPd-  03 32.00  -1.4
        2.5s  4000.00nm          6.4mb
     Z  12s     9.50um          6.1MszX
     N  12s    12.50um
     E  12s    18.00um
                e    05 40.00
                iS   10 59.00
                i    12 40.00
                eSSS 17 28.00
BKM    57.36 145 iPc   03 36.00  -0.1
                i    11 17.50
PVC    57.46 145 iPc   03 37.10   0.4
BALM   57.73  35 ePc   03 36.72  -1.6
DHH    57.79  84 eP    03 39.00  -0.1
GBA    57.90 266 P     03 39.70  -0.3
        0.6s   999.90nm          6.4mb
ARU    58.21 320 iPd-  03 41.00  -0.5
     Z  12s    23.50um          6.5MszX
     N  15s    19.00um
     E  12s    16.00um
                e    04 57.00
                e    05 31.00
                e    05 51.00
                e    07 31.00
                eS   11 13.00
                e    12 46.00
POO    58.65 273 iPd   03 44.80  -0.3
        1.0s   620.00nm          6.0mb
YKU    59.27  36 eP    03 49.40   0.8
        1.1s  3517.00nm          6.7mb
HKL    59.33  84 eP    03 49.67  -0.4
BOM    59.37 274 iP    03 48.40  -1.5
                iS   11 28.40
KOD    59.56 263 iP    03 51.00  -0.7
        0.8s   738.81nm          6.2mb
                iS   11 35.00
MHA    59.86  84 eP    03 53.15   0.0
KKH    59.99  85 eP    03 53.38  -0.7
INK    60.18  25 ePc   03 53.50  -1.2
        0.6s    82.00nm          5.4mb
```

```
DZM    60.36 149 iPc    03 56.20  -0.3
                 i      08 02.70
                 i      11 43.90
BRS    60.77 165 iPc    03 58.50  -0.6
                 ipP    04 18.00  75kmX
                 i      04 42.00
                 iPP    05 18.00
                 iS     11 12.00
                 i(sS)  11 45.00
                 iScS   13 18.50
MEEK   61.14 200 iPc    04 00.20  -1.4
       0.8s   345.00nm          5.9mb
SIT    62.13  38 ePc    04 07.40  -0.3
       1.1s  1835.40nm          6.5mb
FORT   63.14 189 iPd    04 14.20  -0.3
       0.8s   512.00nm          6.2mb
SVA    63.25 136 eP     04 17.00   1.6
MAIO   63.27 298 iPd    04 16.00   0.4
       1.0s   150.00nm          5.6mb
                 eS     12 28.00
ARMA   63.46 167 iPc    04 15.60  -1.2
       1.1s   591.00nm          6.1mb
ASH    63.53 300 P-     04 17.50   0.4
       1.6s  7230.00nm          7.1mb
                 i      06 44.00
                 iPPP   08 18.00
                 iS     12 24.00
                 iSP    12 40.00
                 i      13 32.00
                 SSS    19 27.00
STK    63.65 176 iPc    04 17.10  -0.7
       0.8s   225.20nm          5.8mb
                 iS     12 20.00
                 iScS   13 38.00
                 eP'P'  33 12.30
ABKT   63.71 300 iPd    04 17.97  -0.3
                 epPd   05 33.02  339kmX
                 isPc   06 12.75
MRWA   64.34 201 eP     04 21.10  -1.2
COOL   64.53 196 eP     04 22.00  -1.5
       0.8s   236.00nm          5.9mb
KBS    65.08 350 eP     04 27.00   0.5
                 e      12 38.50
KBS    65.08 350 eP     04 28.00   1.5
ALE    65.27   3 iPc    04 27.18  -0.5
BAL    65.43 200 iPd    04 28.00  -1.2
       0.3s   113.00nm          6.1mb
KLB    66.06 199 iPc    04 32.10  -1.1
       0.8s   314.00nm          6.1mb
AFI    66.43 125 P      04 35.00  -0.9
                 eS     13 00.00
                 eLR    20 40.00
ADE    66.64 179 eP     04 36.90   0.2
RIV    66.69 168 iPd+   04 38.10   1.1
                 ipP    05 55.00  345kmX
                 isP    06 36.00
                 iS     13 00.00
                 iSKS   14 06.00
                 isS    15 20.00
                 isSKS  16 36.00
BWA    66.84 170 iPc    04 38.20   0.2
                 i      04 39.80
                 ipP    06 02.00  381kmX
                 i      06 15.10
                 iS     13 02.30
MUN    66.86 200 eP     04 37.60  -0.5
       0.5s   276.00nm          6.2mb
KEV    67.07 339 iPd    04 39.13   0.1
                 epPd   05 58.31  356kmX
                 esPc   06 34.17
NWAO   67.46 199 eP     04 39.50  -2.4
       0.8s   548.00nm          6.3mb
CAN    67.80 170 iPc    04 43.40  -0.5
                 i      04 45.20
                 epP    05 58.00  332kmX
                 i      06 07.40
                 iS     13 12.60
CNB    67.85 170 eP     04 44.00  -0.3
       1.0s   328.00nm          6.0mb
                 i      04 45.40
RES    68.16  13 ePc    04 44.80  -0.9
       0.6s    78.00nm          5.6mb
SDF    68.48 337 iP     04 46.50  -1.2
KTK1   68.60 339 eP     04 47.82  -0.6
BAK    68.66 305 iPd    04 53.00   3.8X
                 iS     13 25.00
TRO    69.48 341 eP     04 53.22  -0.5
MOS    69.51 324 iPd    04 54.00  -0.1
       2.0s  3200.00nm          6.7mb
     Z  18s    52.00um          6.8Msz
     N  18s    23.00um
     E  18s    40.00um
                 iPPP   09 22.00
                 eS     13 28.00
                 e      14 15.00
TOO    69.60 174 iPc    04 55.00   0.2
       0.6s   215.00nm          6.1mb
YKA    69.62  28 P      04 54.80   0.1
       0.9s   502.00nm          6.2mb
GRO    70.26 309 iPd-   04 59.00   0.1
       1.0s  1600.00nm          6.7mb
     Z  12s    80.00um          7.2MszX
     N  15s    60.00um
     E  14s    70.00um
                 iS     13 40.00
                 iPS    14 26.00
OBN    70.32 323 iPd    04 58.62  -0.4
       1.3s  3480.00nm          6.9mb
     Z  17s    44.00um          6.8MszX
     N  17s    20.00um
     E  17s    31.00um
                 esPc   06 54.21
                 e      07 38.00
                 ePPP   09 20.00
                 iS     13 40.00
                 iSP    14 22.00
                 eSS    18 23.00
                 eSSS   21 33.00
DAG    70.49 354 iPd-   05 00.10   0.4
       1.2s  1250.00nm          6.5mb
SHI    71.33 294 iPd    05 05.00  -0.6
MTA    71.58 308 iPd    05 06.20  -0.4
       0.8s   110.00nm          5.6mb
     Z  17s    12.00um          6.2MszX
     N  17s    10.50um
     E  17s    23.50um
                 i      07 56.00
                 iS     13 55.80
                 iPS    14 32.00
                 iPS    14 38.00
                 eSS    18 42.00
PYA    71.67 311 eP     05 06.00  -1.2
       2.0s  4840.00nm          6.9mb
     Z  18s    20.00um          6.4Msz
     N  18s     6.50um
     E  18s    19.00um
                 i      05 28.00
                 i      06 19.00
                 i      07 51.00
                 ePPP   09 38.00
                 eS     13 54.00
                 iPS    14 36.00
LOF    71.95 341 eP     05 07.07  -1.3
STW    72.07  44 P      05 09.57   0.1
TAB    72.16 304 iP-    05 10.00  -0.3
                 i      05 12.80
MCW    72.31  43 P      05 11.00   0.1
ERE    72.46 307 iP-    05 12.00   0.0
ONR    72.61  45 P      05 13.15   0.6
GMW    72.88  44 iPc    05 14.11  -0.1
                 pP     06 37.20  370kmX
NUR    72.96 332 iP     05 13.60  -0.7
     Z  18s    18.00um          6.4Msz
                 e      06 36.00
                 e      07 09.00
                 ePP    08 01.00
                 eS     14 08.00
                 e      16 32.00
                 eSS    18 56.00
                 LR     38 20.00
JCW    73.08  43 P      05 15.27   0.0
BMW    73.13  46 P      05 15.59  -0.1
KER    73.29 300 iPd    05 18.20   1.2
KMOR   73.38  46 P      05 16.92  -0.2
RMW    73.51  44 ePc    05 17.72  -0.2
FMW    73.85  45 P      05 19.68  -0.3
LON    73.85  45 P      05 19.23  -0.6
SHW    73.87  45 ePc    05 20.19   0.1
COR    74.00  47 iPc    05 21.10   0.5
SOC    74.02 312 iPd-   05 20.50  -0.2
       2.0s  7275.00nm          7.1mb
     Z  17s    18.00um          6.4MszX
     N  16s     9.00um
     E  18s    13.00um
                 eS     14 14.00
RNO    74.06  48 P      05 21.43   0.4
ASR    74.28  45 P      05 22.10  -0.3
SSOR   74.39  47 P      05 23.03   0.0
WTV    74.47  43 P      05 22.57  -0.8
JNW    74.48 349 eP     05 25.16   2.3
JNE    74.49 349 eP     05 25.57   2.6
EBG    74.51  44 P      05 23.47  -0.1
DHR    74.74 292 eP     05 24.00  -1.1
DBO    74.76  49 P      05 26.12   1.0
SAW    74.79  43 P      05 24.43  -0.7
VBEM   74.83  46 P      05 25.24  -0.3
OUZ    74.85 150 eP     05 26.60   1.3
                 e      06 51.50
ANN    74.89 314 iPd-   05 25.50  -0.1
       1.2s  3360.00nm          6.9mb
     Z  19s    13.50um          6.3Msz
     N  21s    25.00um
     E  21s    11.00um
                 e      05 40.00
                 e      08 22.00
                 iS     14 30.00
VGB    75.09  46 iPc    05 26.63  -0.2
WAH2   75.19  44 P      05 27.13  -0.1
CROR   75.24  46 P      05 27.37  -0.3
ARC    75.33  51 ePc    05 28.54   0.4
       1.4s  3530.00nm          6.9mb
EKR    75.37  51 iP     05 29.75   1.3
DPW    75.40  42 P      05 28.14  -0.4
FHC    75.42  51 iP     05 30.07   1.3
MNK    75.45 325 iP     05 26.00  -2.5
     Z  16s    43.50um          6.9MszX
                 e      08 18.00
                 ePPP   10 02.00
                 iS     14 32.00
                 eSS    19 28.00
KMPM   75.52  51 eP     05 31.01   1.6
JBO    75.69  45 P      05 29.97  -0.2
VIPM   75.70  46 P      05 30.32  -0.1
YBH    75.79  50 eP     05 29.52  -1.3
       1.3s  1560.00nm          6.6mb
     Z  19s     5.00um          5.8Msz
                 epP    06 47.52  342kmX
                 esP    07 27.52
                 ePP    08 26.52
                 eS     14 40.52
                 esS    17 01.52
                 eSS    19 43.52
NEW    75.81  42 eP     05 30.26  -0.5
       1.0s  1485.71nm          6.7mb
UPP    76.12 333 iPc    05 31.80  -0.3
       0.9s  1800.00nm          6.8mb
                 iS     14 42.00
LNOR   76.40  44 P      05 33.87  -0.2
WDC    76.49  51 iPc    05 34.28  -0.3
       2.3s  6779.56nm          7.0mb
                 ipPc   06 52.36  342kmX
                 esP    07 29.88
LBFM   76.52  50 iPc    05 34.95  -0.1
                 pP     06 58.17  367kmX
SIM    76.79 315 iP-    05 36.00  -0.2
                 sP     07 32.00
                 e      08 38.00
                 iS     14 52.00
KUZ    77.05 150 P      05 38.10   0.6
LMEM   77.14  50 eP     05 38.92   0.5
MIN    77.22  50 ePc    05 37.90  -0.9
       1.5s  1270.00nm          6.5mb
HFS    77.40 335 eP     05 38.80  -0.4
       0.6s   756.30nm          6.7mb
     Z  16s     9.97um          6.2MszX
                 LR     36 43.00
NTYM   77.52  53 ePd    05 40.18  -0.1
NB2    77.62 336 P      05 39.60  -0.9
       0.5s   260.70nm          6.3mb
KVT    77.63 311 iP     05 40.00  -0.9
MOL    77.68 339 eP     05 40.54  -0.2
ORV    77.70  51 ePc    05 36.67  -4.6X
       1.3s  2030.00nm          6.8mb
     Z  18s     8.00um          6.1Msz
                 epP    06 59.67  364kmX
                 esP    07 37.67
                 eS     14 59.67
                 eSS    20 07.67
                 eLQ    26 16.67
ORV    77.70  51 iPc    05 40.39  -0.9
                 pP     07 03.19  363kmX
```

11d 16h

NAO	77.91	336	P	05	39.50	-2.5
WLZ	77.94	150	P	05	43.60	1.2
ZSP	78.02	53	iP	05	43.81	0.8
BKS	78.07	53	ePc	05	42.94	-0.4
	1.2s	2890.00nm				7.0mb
	Z 19s	7.00um				6.0Msz
			epP	07	02.10	345kmX
			epS	07	40.10	
			ePP	08	45.10	
			eS	15	05.10	
			epS	16	44.10	
			eSS	20	15.10	
			eLQ	26	27.10	
JEGM	78.11	53	ePd	05	43.74	0.3
MOZ	78.15	151	P	05	44.20	0.7
			e	06	23.60	
			e	07	13.60	
PCC	78.17	53	iP	05	44.07	0.3
HMR	78.22	52	ePd	05	44.59	0.5
RYD	78.29	292	iPd	05	43.60	-1.1
STAN	78.36	53	ePc	05	44.10	-0.7
	1.2s	3550.00nm				7.1mb
GCC	78.68	53	iP	05	47.42	0.9
GDH	78.68	4	iPc	05	44.60	-1.3
	0.7s	173.97nm				6.0mb
			i	07	07.00	
KIS	78.70	319	iP-	05	46.00	-0.5
			i	07	40.00	
			i	08	53.50	
			iPPP	10	40.00	
			iS	15	11.00	
MHC	78.75	53	eP	05	46.19	-1.0
	2.3s	6000.00nm				7.0mb
	Z 19s	5.00um				5.9Msz
			epP	07	07.19	353kmX
			epS	07	45.19	
			ePP	08	50.19	
			eS	15	13.19	
			esS	17	36.19	
			eSS	20	28.19	
			eLQ	26	37.19	
MJMA	78.76	293	eP	05	46.40	-0.9
COE	78.78	53	ePc	05	46.84	-0.3
ARN	78.82	53	iPc	05	47.03	-0.4
HBZ	78.89	148	P	05	46.00	-1.4
GAZ	78.91	307	iP	05	48.10	0.3
URZ	78.92	149	P	05	46.10	-1.4
KAS	78.93	312	iPd	05	48.60	0.7
CNZ	79.05	151	P	05	48.80	0.4
NGZ	79.05	151	P	05	48.80	0.3
KONO	79.19	336	iPd	05	38.67	-10.1X
			isPc	07	36.76	
FOO	79.19	339	eP	05	48.76	0.0
SAO	79.19	53	ePc	05	48.60	-0.7
	2.2s	4166.46nm				6.9mb
			epP	07	08.84	349kmX
			esP	07	47.63	
CMB	79.24	52	iPc	05	48.89	-0.7
	1.1s	790.00nm				6.5mb
	Z 20s	7.00um				6.0Msz
			ipPc	07	07.25	340kmX
			esPd	07	47.25	
			ePP	08	54.30	
			e	15	17.30	
			e	20	31.30	
			e	26	36.30	
QRZ	79.26	154	eP	05	49.60	0.2
	1.1s	550.00nm				6.3mb
			e	07	13.70	
PUZ	79.26	149	P	05	48.60	-0.9
IAS	79.33	319	eP	05	51.00	1.2
PAHZ	79.39	150	eP	05	49.50	-0.6
PRS	79.47	54	iP	05	51.47	0.7
TAHZ	79.49	150	eP	05	51.50	0.7
NOZ	79.61	149	P	05	51.00	-0.2
LVV	79.63	323	iP	05	53.00	1.6
	Z 20s	39.00um				6.7Msz
	N 18s	17.30um				
	E 18s	24.30um				
			i	08	57.00	
			iPPP	10	51.00	
			iS	15	21.00	
BUT	79.64	42	ePc	05	52.00	0.3
HRY	79.65	41	ePc	05	51.68	0.0
SUE	79.70	339	eP	05	51.04	-0.4
HBMT	79.75	42	iPc	05	52.33	-0.1
			epP	07	18.10	376kmX

DIW	79.77	153	eP	05	51.60	-0.5
RAR	79.78	123	iPc	05	53.08	0.6
			epPc	07	11.98	342kmX
			esPd	07	49.51	
WAHZ	79.80	151	P	05	51.40	-0.9
LRM	79.82	42	iPc	05	52.63	-0.1
			epP	07	16.00	364kmX
			eP'P'	35	23.70	
CLI	79.86	319	ePc	05	52.00	-0.6
ODD1	79.99	337	eP	05	53.81	0.7
QASM	80.01	294	eP	05	52.67	-1.2
ASK	80.01	338	eP	05	52.88	-0.2
BER	80.04	338	eP	05	52.41	-0.8
PRI	80.05	54	iP	05	55.28	1.3
PTT	80.13	320	eP	05	47.00	-7.0X
EGD	80.16	338	eP	05	53.96	0.1
CFR	80.17	317	eP	05	52.00	-2.2
MCMT	80.17	43	ePc	05	54.00	-0.6
KIW	80.21	152	eP	05	54.30	0.0
THZ	80.21	154	eP	05	53.10	-1.3
	0.9s	66.00nm				5.5mb
			e	07	17.50	
MNG	80.22	152	eP	05	53.40	-1.0
TEHZ	80.24	151	eP	05	55.30	0.8
FRI	80.25	52	iP	05	55.22	0.4
TCW	80.26	153	P	05	53.90	-0.7
SXM	80.33	41	ePc	05	55.10	-0.2
			e	07	12.70	
MMPM	80.37	52	ePc	05	55.65	-0.2
BGMT	80.40	42	iPc	05	55.69	-0.1
			ipP	07	21.90	378kmX
MEMM	80.40	52	iPc	05	56.15	0.6
BSD	80.41	331	iPc	05	54.40	-0.9
BLS5	80.42	337	eP	05	55.64	0.3
CAW	80.48	152	eP	05	55.40	-0.3
SNZO	80.51	153	iPc	05	54.88	-0.9
	1.1s	1313.33nm				6.7mb
			ipPc	07	14.89	347kmX
			isPd	07	52.96	
PGZ	80.54	151	P	05	55.20	-0.8
			e	07	20.60	
VRI	80.58	319	eP	05	53.50	-2.9
WVZ	80.59	156	P	05	56.70	0.5
BONR	80.66	51	ePc	05	56.93	-0.4
MRCM	80.68	51	ePc	05	57.42	0.0
CCW	80.70	153	P	05	57.30	0.5
LTMT	80.77	43	ePc	05	58.18	0.4
MEMT	80.79	42	iPc	05	57.81	0.1
MTUM	80.82	52	ePd	05	57.65	-0.4
AKU	80.84	350	iP	05	59.30	2.0
	1.7s	1338.46nm				6.5mb
LTZ	80.87	155	eP	05	57.90	0.1
TPMT	80.91	43	ePc	05	58.90	0.4
BCH	80.97	54	iPc	05	58.71	-0.1
KMY	80.98	337	eP	05	58.36	0.2
COP	81.01	332	eP-	05	58.50	0.1
	1.1s	962.03nm				6.5mb
			ipP	06	30.50	126kmX
UQSK	81.07	295	eP	06	00.30	0.9
MSZ	81.10	159	eP	05	59.70	0.8
	1.0s	596.00nm				6.4mb
ISR	81.11	318	eP	05	59.50	0.3
MLR	81.24	319	eP	05	58.00	-2.0
UZH	81.26	323	eP-	06	00.20	0.4
	1.5s	1950.00nm				6.7mb
			i	09	08.00	
			i	11	06.00	
			iS	15	36.00	
TNP	81.31	50	ePc	06	00.25	-0.4
OJC	81.49	325	eP	06	01.10	0.0
	1.5s	3100.00nm				6.9mb
	Z 16s	55.30um				7.0MszX
			i	06	03.20	
			iS	15	39.70	
BWZ	81.59	157	P	06	01.10	-0.3
			e	07	34.70	
PTI	81.60	44	ePc	06	02.65	0.7
EYL	81.64	313	eP	06	02.10	-0.1
MUD	81.70	334	iPc	06	06.00	4.1X
	1.2s	1440.00nm				6.7mb
GPA	81.71	313	iP	06	02.00	-0.4
BHL	81.73	305	Pd	06	00.00	-2.7
			PP	08	06.00	
			S	15	34.00	
ABL	81.74	54	ePc	06	02.45	-0.5
CEI	81.78	322	eP	06	07.00	4.5X
HRT	81.80	313	iP	06	03.50	0.6

ISA	81.81	53	ePc	06	01.79	-1.3
	2.4s	2620.88nm				6.6mb
			S	15	41.77	
MQZ	81.81	155	eP	06	03.50	0.9
BUC1	81.88	318	iPc	06	04.00	0.9
CMP	81.88	319	iPc	06	07.00	3.8X
MTUR	81.89	319	ePd	06	03.00	-0.3
MSCZ	81.94	158	eP	06	04.50	1.2
SPC	81.95	324	iP	06	03.80	0.2
			i	06	06.10	
			ipP	07	35.40	403kmX
			iPP	09	17.20	
			iS	15	48.00	
CMCZ	81.95	158	eP	06	04.80	1.4
HVU	81.99	45	iPc	06	04.53	0.5
			pP	07	28.38	364kmX
ISK	82.03	314	iP	06	06.10	2.1
ITU	82.04	314	iPc	06	03.50	-0.5
KMSA	82.17	289	eP	06	04.50	-0.6
IZI	82.20	313	iP	06	06.10	1.1
FAM	82.27	306	eP	06	04.50	-0.8
FRB	82.29	12	eP	06	05.50	0.7
	0.5s	120.00nm				6.0mb
ODZ	82.30	157	eP	06	05.30	0.2
RAC	82.36	326	eP	06	07.00	1.5
			i	06	08.00	
			iS	15	51.00	
CTT	82.37	314	iP	06	05.10	-0.6
DMK	82.38	315	iP	06	04.70	-1.1
ALT	82.54	312	iP	06	07.00	0.2
TPNV	82.58	51	ePc	06	06.57	-0.5
	0.8s	1345.23nm				6.8mb
			epP	07	30.18	362kmX
DRA	82.68	319	ePd	06	08.00	0.8
SALJ	82.73	303	Pc	06	08.90	1.1
KSP	82.74	327	iPd	06	07.60	0.2
	1.1s	1468.00nm				6.7mb
			i	06	09.20	
			iPP	07	36.20	
			iS	15	52.00	
			e	35	20.00	
CSS	82.74	307	eP	06	07.50	-0.3
REY	82.84	351	iP	06	11.50	3.9X
DUG	82.90	47	iPc	06	09.18	0.5
	Z 18s	4.82um				5.9Msz
			ipPc	07	28.37	341kmX
			isPc	08	08.10	
			S	15	53.36	
BRNL	82.95	329	ePd	06	28.00	19.6X
BRN	83.02	329	ePd	06	10.50	1.8
GZR	83.05	320	ePd	06	10.00	0.8
GSC	83.14	53	iPc	06	09.71	-0.1
			ipPc	07	28.61	339kmX
			esPd	08	08.34	
SSK	83.15	54	eP	06	09.69	-0.3
BNT	83.15	314	eP	06	09.40	-0.3
BCK	83.15	310	eP	06	09.20	-0.7
EDC	83.19	314	iP	06	10.20	0.3
MFT	83.29	314	eP	06	11.60	1.2
KHL	83.34	311	iP	06	10.00	-0.8
JRDJ	83.45	302	Pd	06	12.00	0.5
PPCY	83.46	307	eP	06	11.00	-0.3
KGT	83.47	314	eP	06	11.60	0.3
BZS	83.54	321	ePc	06	02.00	-9.5X
VRAC	83.65	326	iPd	06	12.30	0.4
	1.7s	4932.70nm				7.1mb
			i	07	34.70	
			e	08	17.40	
			e	09	28.90	
			iS	16	00.60	
DAU	83.73	46	iPc	06	13.38	0.4
			epP	07	37.67	365kmX
SHWJ	83.76	302	Pc	06	14.10	0.9
BRG	83.79	328	iPd	06	11.80	-0.9
	1.7s	1550.00nm				6.6mb
			ipP	07	40.30	385kmX
			isP	08	18.20	
			eSKS	15	59.00	
			iS	16	06.00	
			esS	18	38.00	
			eP'P'	32	19.00	
SRO	83.82	324	iP	06	17.40	4.6X
			i(pP)	07	31.20	314kmX
			iPP	09	33.60	
			iS	16	09.20	
CLL	83.90	329	iPd	06	12.80	-0.4
	1.5s	1950.00nm				6.7mb

```
                 epP   07 41.00 384kmX
                 isP   08 12.40
                 iS    16 04.00
                 e     35 15.00
ARUT   83.92  49 iPc   06 13.65  -0.2
ALN    83.97 315 eP    06 14.70   1.0
ELL    84.01 310 iP    06 15.00   0.8
MDRJ   84.04 301 P     06 15.00   0.5
PRU    84.14 327 eP    06 15.10   0.7
       1.5s  1740.00nm          6.7mb
     Z  17s    11.00um          6.3MszX
     N  16s    25.30um
     E  16s    12.80um
                 e     06 52.10
                 ipP   07 42.60 380kmX
                 isP   08 13.60
                 iPP   09 36.40
                 e     12 52.00
                 eSKS  16 01.00
                 S     16 08.10
                 esS   18 40.00
                 eSS   21 31.00
                 e     35 12.20
ZST    84.16 325 eP    06 14.20  -0.4
       1.5s   992.00nm          6.4mb
                 i     06 16.40
                 ipP   07 43.50 389kmX
                 iPP   09 34.10
                 eS    16 07.30
PLM    84.20  54 ePc   06 14.82  -0.5
MSU    84.30  48 iPc   06 16.28   0.5
                 pP    07 41.29 368kmX
PFO    84.33  54 iPc   06 15.44  -0.5
                 ipPc  07 34.90 341kmX
                 isPd  08 12.42
EMUT   84.36  46 eP    06 16.49   0.4
EZN    84.45 314 iP    06 16.40   0.3
VKA    84.50 325 iPc   06 16.80   0.5
       5.5s  5541.00nm          6.6mb X
     Z  16s    18.10um          6.5MszX
                 i     06 31.50
                 i     16 30.00
                 LR    48 19.00
UZD    84.50 323 iP    06 16.70   0.4
ABHA   84.68 288 eP    06 20.00   2.0
CIN    84.68 311 iPd   06 17.00  -0.4
IZM    84.73 312 eP    06 17.60  -0.1
SOP    84.78 325 iPc   06 17.40  -0.3
SRU    84.97  47 iPc   06 18.79  -0.2
                 epP   07 42.66 362kmX
MOX    84.99 329 ePc+  06 18.70   0.0
       2.0s  1445.00nm          6.5mb
     Z  18s    14.00um          6.4Msz
                 epP   07 49.60 396kmX
                 esP   08 25.00
                 iS    16 09.00
AFR    85.00 114 iPd   06 21.30   2.2
       1.1s  2328.60nm          6.9mb
PMO    85.02 111 iPd   06 21.20   2.0
       1.8s  7457.70nm          7.2mb
HOF    85.11 329 ePKP  06 19.30   0.0
PPT    85.17 114 iPd   06 22.20   2.2
       1.2s  2027.90nm          6.8mb
     Z  41s  *******um          9.3MszX
KHC    85.19 327 Pd    06 19.50  -0.2
       1.2s   415.00nm          6.2mb
     Z  16s    25.30um          6.7MszX
     N  16s    11.00um
     E  16s    17.50um
                 e     07 49.50
                 ePP   09 41.50
                 e     11 40.50
                 S     16 06.00
PAE    85.22 114 iPd   06 22.40   2.2
       1.3s  1819.50nm          6.8mb
TPT    85.23 111 iPd   06 22.20   1.9
       1.4s  3220.30nm          7.0mb
PPN    85.26 114 iPd   06 22.60   2.2
       1.2s  1770.90nm          6.8mb
EDR    85.27 339 eP    06 19.60  -0.3
WAJH   85.28 298 eP    06 22.33   1.8
SRS    85.29 316 iP    06 21.05   0.7
ULM    85.31  31 eP    06 23.00   2.8
GEC2   85.34 327 P     06 19.90  -0.6
       1.4s   313.74nm          6.0mb
                 e     06 25.60
                 e     06 28.10
                 e     07 51.90
                 e     09 42.30
                 e     17 17.70
GEC2   85.34 327 e(P)  06 28.90   8.4X
       0.3s     3.80nm          4.7mb X
VAH    85.37 111 iPd   06 22.80   1.9
       1.5s  2348.30nm          6.8mb
WIT    85.42 333 eP    06 22.00   1.4
                 epP   07 52.00 391kmX
                 ePP   09 46.00
                 eSKS  16 25.00
WET    85.50 327 eP    06 21.10  -0.2
     Z  13s    16.00um          6.6MszX
                 eS    16 09.00
RUV    85.53 111 iPd   06 23.70   2.0
       1.4s  2913.60nm          7.0mb
OUR    85.55 315 eP    06 22.69   1.1
TVO    85.55 114 iPd   06 24.10   2.2
       1.3s  3627.50nm          7.1mb
RSSD   85.55  40 eP    06 20.94  -0.9
       0.8s   333.85nm          6.3mb
                 pP    07 45.13 363kmX
KAC    85.57 341 eP    06 21.70   0.3
SOH    85.61 316 eP    06 22.53   0.6
KNT    85.67 317 iP    06 21.78  -0.4
EDU    85.73 339 eP    06 22.10  -0.1
GLA    85.77  54 iPc   06 22.75  -0.1
KPL    85.81 341 eP    06 22.90   0.4
KSB    85.85 341 eP    06 22.80   0.1
GRF    85.86 328 iPd   06 22.90   0.0
       1.5s  1788.00nm          6.8mb
     Z  20s    11.00um          6.3Msz
                 e     35 07.30
THE    85.96 316 eP    06 23.06  -0.5
                 eS    16 13.60
PAIG   85.98 315 eP    06 24.26   0.6
SKO    85.99 318 iPd   06 24.00   0.3
       8.0s  *******nm          6.9mb X
     Z  16s    12.04um          6.4MszX
                 i     06 25.50
                 i     07 52.00
                 i     08 24.00
                 iPP   09 38.00
                 iPS   17 19.00
                 iPPP  18 47.00
                 i     20 04.00
                 LR    49 30.00
WTS    85.99 332 eP    06 23.50   0.1
                 epP   07 54.00 393kmX
                 ePP   09 50.00
                 eSKS  16 22.00
ELO    86.00 340 eP    06 24.20   0.7
GRG    86.09 317 iP    06 24.90   0.7
EBH    86.13 340 eP    06 25.20   1.1
ESY    86.14 339 eP    06 24.00  -0.2
PV09   86.20  46 eP    06 24.75  -0.4
                 e     06 26.76
PLE    86.24 320 iPd   06 25.15   0.1
IVA    86.26 319 iPd   06 25.04  -0.1
PTJ    86.31 324 iP    06 26.00   0.7
EDI    86.31 339 eP    06 24.30  -0.6
PV10   86.33  46 iPc   06 26.00   0.2
ZAG    86.35 323 iPd   06 25.50   0.2
EBL    86.39 339 eP    06 25.60   0.2
PVY    86.41 319 iPd   06 25.28  -0.6
EAB    86.42 340 eP    06 26.00   0.5
PV08   86.45  46 ePc   06 26.36  -0.1
EAU    86.45 339 eP    06 26.40   0.7
BCI    86.50 319 iP    06 25.50  -0.7
BHG    86.53 326 eP    06 25.90  -0.3
                 i     06 27.50
DBN    86.54 333 iP-   06 27.00   0.9
                 epP   07 57.00 390kmX
                 e     08 28.00
                 iPP   09 53.00
                 iSKS  16 17.00
                 iS    16 29.00
                 e     19 56.00
                 eSS   22 20.00
LIT    86.58 316 iP    06 25.69  -0.9
BNS    86.63 331 iPd   06 26.95   0.4
       2.5s  1380.00nm          6.4mb
     Z  15s    30.00um          6.8MszX
                 ipPc  07 04.04 146kmX
                 ec    07 56.66
                 iPP+  09 54.00
                 iS    17 33.00
TNS    86.66 330 ePd   06 27.90   1.0
                 iPP   09 55.70
                 iS    16 32.60
PHP    86.74 318 iPc   06 27.10  -0.3
KBA    86.76 326 iPc   06 28.20   0.6
       1.1s   327.00nm          6.2mb
                 i     06 34.40
                 i     07 53.70
                 i     10 01.90
FNA    86.79 317 eP    06 27.42  -0.2
EKA    86.80 339 Pc    06 27.40   0.1
       0.7s    45.30nm          5.5mb
ESK    86.83 339 eP    06 29.00   1.5
       1.2s   700.00nm          6.5mb
TTG    86.91 319 iPd   06 27.12  -0.9
OHR    86.91 318 iPd   06 27.30  -0.9
       0.8s   740.00nm          6.7mb
LJU    86.92 324 eP    06 26.80  -1.3
LJU    86.92 324 e(P)  06 27.30  -0.8
                 iPcP  06 28.50
                 e     06 32.50
                 e     06 53.00
                 epP   07 56.50 386kmX
                 esP   08 28.00
                 isP   08 31.00
                 e     09 56.00
                 iPP   10 00.60
                 e     11 12.00
VBY    86.93 324 eP    06 27.30  -0.9
                 iPcP  06 28.70
FUR    86.95 327 eP    06 28.00  -0.2
     Z  14s    26.00um          6.8MszX
                 e     07 56.90
                 ePP   10 00.20
                 eS    16 18.60
BRY    86.99 320 iPd   06 27.33  -1.3
HLW    87.03 303 iPd-  06 30.50   1.6
                 e     08 03.00
                 e     09 59.00
                 eS    16 21.00
                 eSS   16 35.00
SDA    87.03 319 iPc   06 30.30   1.6
STB    87.05 331 iPc   06 28.15  -0.5
       2.6s   311.00nm          5.8mb
                 id    06 29.81
LACI   87.19 319 iPc   06 29.50   0.1
ULC    87.23 319 iPd   06 28.21  -1.5
KBN    87.24 317 iPc   06 28.70  -1.1
VOY    87.24 325 ePc   06 28.30  -1.5
                 e     06 33.50
                 e     07 05.50
                 e     07 58.50
                 e     10 02.00
BDV    87.25 319 iPd   06 28.28  -1.5
TIR    87.29 318 eP    06 31.50   1.6
                 iS    16 22.00
ENN    87.29 332 iPd   06 29.50  -0.2
       1.0s   216.00nm          6.0mb
                 epP   07 58.00 382kmX
                 e     08 33.00
                 ePP   10 01.00
                 ePS   17 35.00
HCY    87.32 320 iPd   06 28.63  -1.4
AGG    87.36 315 eP    06 28.58  -1.8
MEM    87.38 332 iPd   06 31.02   0.9
                 i     16 37.80
WATA   87.41 327 iPc   06 29.40  -1.2
                 i     06 31.40
GCD    87.43 339 eP    06 31.20   0.8
WTTA   87.44 327 iPc   06 30.10  -0.7
       2.5s  1292.00nm          6.4mb
                 i     06 31.90
                 i     10 05.00
RIY    87.48 324 iPd   06 31.30   0.5
XDE    87.60 339 eP    06 32.30   1.1
MOTA   87.63 327 iPc   06 30.70  -1.0
       1.0s   275.00nm          6.1mb
                 i     06 32.60
LSK    87.65 317 eP    06 31.40  -0.4
SQTA   87.67 327 iPc   06 31.10  -0.7
       1.4s   589.00nm          6.3mb
                 i     06 32.80
HOFF   87.84 330 P     06 33.58   1.2
LANF   87.88 330 P     06 32.47  -0.2
UCC    87.89 333 P-    06 33.00   0.4
                 e     08 00.00
                 e+    10 03.00
```

11d 16h

		S	16	23.00		
		i	16	40.00		
		e	17	47.00		
TPE	87.90	317	iPc	06	30.00	-2.9
HVAR	87.93	321	eP	06	31.30	-1.7
OGA	88.01	327	iPc	06	33.10	-0.5
WLF	88.05	331	iPd	06	34.88	1.5
	2.4s	482.50nm				6.0mb
			ipPc	08	05.34	390kmX
			ic	10	08.52	
			e	16	42.00	
			e	17	33.00	
GIM	88.08	339	eP	06	34.40	0.9
SNF	88.14	332	iPc	06	34.31	0.5
			ic	08	03.25	
			id	10	08.09	
ARO	88.14	282	ePd	06	36.00	1.5
SRN	88.18	317	iPc	06	34.40	0.2
IGT	88.21	317	eP	06	33.54	-0.9
DOU	88.35	332	Pd	06	35.80	1.0
			e	16	48.00	
SLE	88.50	329	ePd	06	35.30	-0.3
WLS	88.51	330	P	06	35.18	-0.5
CDF	88.54	330	iPc	06	35.40	-0.5
	1.6s	940.30nm				6.5mb
OSS	88.56	327	ePd	06	35.60	-0.5
LIBD	88.60	329	P	06	36.74	0.7
FEL	88.63	329	P	06	36.68	0.3
ECH	88.74	330	P	06	36.05	-0.7
ZLA	88.76	328	ePd	06	36.80	-0.1
WME	88.80	338	eP	06	37.80	0.9
TUC	88.95	52	iPc	06	39.37	1.3
	2.2s	2398.18nm				6.7mb
	Z 18s	6.57um				6.1Msz
			ipPc	07	58.83	337kmX
			esPd	08	38.84	
LLS	88.95	328	ePc	06	37.30	-0.7
YRC	89.01	338	eP	06	37.40	-0.4
VDL	89.02	327	ePc	06	37.90	-0.4
MOF	89.03	329	P	06	37.49	-0.7
BBS	89.16	329	P	06	37.91	-0.8
BSF	89.19	329	iPc	06	38.00	-1.0
	1.1s	249.10nm				6.1mb
YRE	89.19	338	eP	06	38.70	0.0
VITF	89.24	330	P	06	37.49	-1.5
HAU	89.25	330	iPc	06	38.40	-0.7
	1.4s	456.55nm				6.2mb
	Z 22s	10.57um				6.2Msz
YRH	89.38	338	eP	06	39.30	-0.3
HAE	89.38	337	eP	06	39.50	-0.1
HCG	89.51	338	eP	06	40.00	-0.2
LOMF	89.55	329	P	06	39.68	-0.9
DLF	89.56	340	eP	06	40.10	-0.3
	1.0s	1218.00nm				6.8mb
TMA	89.58	327	ePd	06	39.80	-1.0
HTR	89.59	337	eP	06	40.40	-0.2
JAQ	89.72	19	ePc	06	41.00	-0.1
DCN	89.74	340	eP	06	41.10	-0.1
	1.0s	1189.00nm				6.8mb
HGH	89.81	337	eP	06	42.00	0.4
MMK	90.03	328	ePc	06	42.80	-0.2
ANMO	90.11	48	iPc	06	43.71	0.2
			ipPc	08	04.82	344kmX
			esPd	08	42.34	
ALQ	90.11	48	ePc+	06	43.53	0.0
	2.1s	2405.98nm				6.8mb
	Z 19s	7.33um				6.1Msz
			epP	08	08.86	364kmX
FIR	90.16	324	iPd	06	45.00	1.7
			iPP	10	27.00	
			iS	16	36.00	
DIX	90.26	328	ePc	06	43.80	-0.3
EMS	90.48	328	ePc	06	44.40	-0.6
WPM	90.71	30	eP	06	36.50	-9.3X
LSD	90.85	328	P	06	47.33	0.5
LOR	90.88	331	iPc	06	45.90	-0.7
	1.5s	990.30nm				6.5mb
	Z 28s	11.52um				6.2MszX
PCP	90.91	326	P	06	46.46	-0.4
RSL	90.91	328	P	06	46.11	-0.9
LPL	91.00	328	iPc	06	47.00	-0.5
	1.3s	782.70nm				6.5mb
LPG	91.00	328	iPc	06	47.20	-0.4
	1.3s	909.75nm				6.5mb
RSP	91.04	327	P	06	47.01	-0.5
LBF	91.05	330	iPc	06	46.70	-0.7
	1.4s	548.90nm				6.3mb
SSF	91.19	331	iPc	06	47.60	-0.4
	1.4s	690.05nm				6.4mb
BHB	91.27	327	P	06	47.06	-1.4
FIN	91.31	326	P	06	47.35	-1.3
SMF	91.38	330	eP	06	48.40	-0.5
	1.5s	1307.90nm				6.7mb
HYF	91.38	331	iPc	06	49.00	0.1
FLN	91.38	334	iPc	06	48.40	-0.5
	1.5s	1007.00nm				6.6mb
	Z 28s	11.20um				6.2MszX
LDF	91.39	334	iPc	06	48.40	-0.5
	1.3s	814.45nm				6.5mb
ROB	91.41	327	P	06	48.34	-0.8
RRL	91.43	328	P	06	49.07	-0.4
JLP	91.58	335	eP	06	49.50	-0.2
PZZ	91.61	327	P	06	48.94	-1.2
JRS	91.62	335	eP	06	50.00	0.1
JVM	91.64	335	eP	06	49.60	-0.4
IMI	91.69	326	P	06	49.67	-0.8
SAOF	91.79	327	P	06	50.75	-0.1
VAL	91.83	341	iP	06	52.60	1.8
	1.1s	3.10nm				4.2mb X
GRR	91.83	334	iPc	06	50.70	-0.2
	1.0s	806.40nm				6.7mb
AUTN	91.84	327	P	06	50.97	-0.4
CME	91.85	337	eP	06	51.80	0.8
BGF	91.86	331	iPc	06	50.70	-0.4
	1.4s	683.10nm				6.5mb
TOUF	91.91	327	P	06	51.14	-0.5
SBF	91.94	327	iPc	06	50.40	-1.2
	1.1s	379.00nm				6.3mb
AURF	91.97	327	P	06	51.75	0.0
CPZ	91.99	337	eP	06	52.50	0.9
MVIF	92.05	327	P	06	51.45	-0.8
REVF	92.07	327	P	06	52.16	0.0
SSB	92.15	329	P	06	51.98	-0.6
PGF	92.18	325	iPc	06	51.90	-0.9
	1.4s	267.50nm				6.1mb
LPF	92.20	334	iPc	06	52.50	-0.1
	1.1s	953.35nm				6.7mb
MAF	92.25	331	iPc	06	52.90	0.0
	1.6s	1577.10nm				6.8mb
CALN	92.28	327	P	06	52.92	-0.4
COLF	92.33	330	P	06	53.29	-0.1
TCF	92.34	331	iPc	06	53.20	-0.2
	1.5s	1128.20nm				6.7mb
FRF	92.54	327	iPc	06	53.00	-1.3
	1.4s	390.35nm				6.2mb
LSF	92.65	331	eP	06	54.40	-0.4
	1.1s	847.85nm				6.7mb
LRG	92.75	327	iPc	06	54.30	-0.9
	1.4s	507.10nm				6.4mb
	Z 25s	11.00um				6.2MszX
LMR	92.78	327	iPc	06	54.40	-1.0
	1.4s	538.45nm				6.4mb
AAE	92.86	282	P	06	58.20	1.6
MFF	93.03	332	iPc	06	56.50	0.0
	1.4s	1261.65nm				6.8mb
ACO	93.33	42	iPd	06	52.40	-5.7X
RJF	93.42	331	iPc	06	58.30	0.0
	1.4s	1146.65nm				6.8mb
	Z 28s	7.05um				6.0MszX
CAF	93.50	330	iPc	06	58.90	0.2
	1.4s	742.35nm				6.6mb
LFF	94.04	331	iPc	07	01.20	0.0
	1.3s	892.45nm				6.7mb
LPO	94.06	331	iPc	07	01.50	0.2
	1.3s	528.55nm				6.5mb
MTHF	94.89	329	P	07	06.34	1.2
WMOK	94.91	44	iPc	07	04.99	-0.4
	2.1s	1753.46nm				6.8mb
			ipPc	08	25.27	339kmX
			isPd	09	04.45	
MEO	95.00	43	iPc	07	06.00	0.2
OCO	95.12	42	iPd	07	07.60	1.3
LSPF	95.16	329	P	07	07.57	1.2
ETER	95.26	328	iPd	07	07.27	0.5
FNO	95.35	42	iPd	07	07.70	0.4
LESF	95.36	330	P	07	08.50	1.2
GRBF	95.40	329	P	07	07.66	0.1
LTX	95.55	50	eP	07	06.90	-1.6
			e	07	08.39	
			epP	08	32.69	365kmX
EPF	95.76	330	iPc	07	08.40	-0.7
	1.6s	231.95nm				6.1mb
TUL	95.79	41	iP	07	10.10	0.8
ELIZ	96.43	331	iPc	07	12.95	0.9
CCM	96.62	37	ePc	07	22.79	9.8X
			epPc	08	44.73	347kmX
			esPd	09	22.26	
EGRA	96.73	330	iPc	07	13.17	-0.2
GAC	96.95	23	ePc	07	14.00	-0.3
ELF	97.00	28	P	07	15.90	1.3
FVM	97.10	36	eP	07	14.27	-0.9
	1.1s	190.89nm				6.2mb
ACTO	97.14	27	P	07	16.20	1.0
DLA	97.18	28	P	07	16.90	1.5
LDN	97.18	28	P	07	16.40	1.0
ESEL	97.25	327	iPc	07	16.36	0.6
ECRI	97.29	332	iPd	07	17.56	1.5
WLVO	97.49	26	P	07	17.66	0.9
EBR	97.50	329	eP	07	16.00	-0.9
			e	11	18.00	
			i	17	16.00	
			i	18	00.00	
			i	19	34.00	
EROQ	97.53	329	iPd	07	17.67	0.6
TYNO	97.65	27	P	07	18.48	0.9
STCO	97.82	26	P	07	18.95	0.7
CBM	98.00	18	ePDIFc	07	19.94	0.9
	2.0s	224.42nm				6.2mb
			epPc	08	43.26	354kmX
MIAR	98.02	41	ePDIFc	07	18.60	-0.8
	2.1s	1015.18nm				6.8mb
			epPc	08	42.47	356kmX
			esPd	09	18.62	
ELC	98.24	36	ePc	07	20.21	-0.1
RSNY	98.29	23	eP	07	22.01	1.5
LST	98.57	37	P	07	22.86	1.0
ETOR	98.60	330	iPc	07	22.43	0.4
YSNY	98.69	26	ePDIFc	07	22.96	0.6
	2.1s	522.82nm				6.5mb
			ipPc	08	45.18	348kmX
			esPd	09	22.70	
ECHE	99.15	329	eP	07	25.09	0.6
ERUA	99.26	334	iPd	07	25.72	0.8
GUD	99.61	332	iPd	07	27.27	0.6
CSY	100.21	191	ePdiff	07	33.40	5.1X
	0.9s	12.70nm				5.4mb X
			i	11	43.00	
OXF	100.29	38	iPdiff	07	28.42	-1.1
			epPc	08	52.29	
			esPd	09	28.15	
EVIA	100.60	329	iPdiff	07	32.04	1.1
EALH	100.77	328	iPdiff	07	32.21	0.7
PAF	100.82	218	e(Pdif	07	36.00	4.6X
			e(SKS)	17	49.00	
EPLA	100.87	333	iPdiff	07	33.08	1.1
EHUE	101.33	329	iPdiff	07	34.77	0.6
GPD	101.44	24	Pdiff	07	31.72	-2.7
ENIJ	101.86	328	ePdiff	07	36.53	0.1
GBTN	101.97	34	ePdiff	07	37.61	0.7
ECOG	102.20	329	ePdiff	07	38.22	0.2
ELUQ	102.26	330	iPdiff	07	39.07	0.8
EHOR	102.45	331	iPdiff	07	39.93	0.9
MYNC	102.49	34	ePdiff	07	40.12	0.8
			ipPc	09	01.78	
			esP	09	39.30	
EGUA	102.57	329	iPdiff	07	39.53	-0.1
EPRU	103.17	330	iPdiff	07	43.56	1.3
EJIF	103.71	330	ePdiff	07	45.87	1.2
PPM	105.82	55	(Pdiff	07	59.50	4.5X
IFR	106.05	328	ePKP	12	00.00	-5.6X
			i	12	18.00	
BCAO	111.96	290	iPdiff	08	22.10	0.3
	0.9s	225.00nm				
			i	12	19.80	
			i	13	05.80	
MTD	112.28	264	iPKP	12	23.90	6.2X
			i	13	16.20	
			i	14	53.30	
			i	23	25.00	
MAW	113.76	204	PKP	12	18.90	-0.1
	1.1s	114.13nm				
KRI	113.96	265	iPKP	12	37.00	15.9X
			i	13	35.30	
			i	15	37.80	
			i	23	28.00	
BUL	116.32	262	iPdiff	08	43.20	2.1
BUL	116.32	262	ePKP	12	27.00	1.5
			i	13	33.80	
			i	15	27.80	
			i	23	02.30	
BFT	117.49	256	iPdiff	08	42.50	-3.8X

```
      1.5s    24.00nm
                i     12 28.50
SLR   118.96 256 iPdiff08 53.00   0.2
      1.5s   420.00nm
    Z  18s    39.30um          7.1Msz
                i     12 30.00
SEK   120.51 254 e(Pdif08 48.50 -11.1X
      1.4s   372.09nm
                i     12 26.00
LBTB  120.90 258 ePKP  12 33.73  -0.3
SPA   121.84 180 iPKPc 12 32.00  -2.5
      0.6s    52.44nm
    Z  20s     3.33um          6.0Msz
                i     14 10.30
BLF   121.97 254 iPKPd 12 50.50  14.5X
                i     15 03.00
BOSA  122.42 254 ePKP  12 36.90   0.3
FRS   122.91 253 e(Pdif09 12.50   2.5
      1.2s   187.50nm
                i     12 37.10
HVD   123.07 252 e(Pdif09 20.00   9.1X
      1.0s   160.00nm
                i     12 38.00
GRM   123.12 249 iPKPc 12 39.00   1.0
      1.0s   180.00nm
                i     14 19.50
LKO   125.87 314 PKP   12 42.62  -1.2
      0.9s   195.50nm
WIN   127.05 265 iPKPd 12 48.50   2.4
      1.5s   190.00nm
    Z  20s    20.00um          6.8Msz
                i     14 46.00
POF   127.18 256 iPKPd 12 48.00   2.2
      1.1s   160.00nm
                e     14 46.00
SUR   127.43 252 iPKPc 12 50.00   3.5X
      1.0s   260.00nm
                i     14 51.00
TIC   127.73 311 PKP   12 47.66   0.3
      0.4s    56.50nm
KIC   127.76 310 PKP   12 47.84   0.4
      0.8s   206.50nm
MBO   127.91 328 iPKPd 12 46.90  -0.7
LIC   128.05 310 PKP   12 48.26   0.3
      0.8s   178.00nm
    Z  20s     8.00um          6.4Msz
CER   128.94 251 iPKPc 12 45.00  -4.1X
      1.5s  1620.00nm
                i     14 56.50
MAMG  128.99 320 PKP   12 49.70  -0.1
KING  129.72 321 PKP   12 48.00  -3.1X
TOV   130.75  37 ePKPc 12 44.30  -8.8X
                ePP   12 53.80
CAR   131.53  33 ePKP  12 58.00   3.3X
NVL   131.55 201 (PKP)c12 38.00 -14.9X
      2.0s   249.00nm
                i     12 54.00
                e     13 21.00
                i     14 25.00
                e     14 39.00
                e     15 16.00
                i     15 32.00
                i     15 45.00
                i     16 19.00
                i     17 14.00
                e     17 43.00
                e     18 20.00
                e     18 59.00
                e     19 28.00
                e     19 31.00
                e     19 51.00
                e     20 43.00
                e     21 15.00
                e     21 31.00
                e     22 48.00
                e     24 38.00
                e     25 13.00
BOG   132.58  46 ePKP  13 01.00   4.0X
                iPP   15 26.00
SNA   135.84 198 e(PKP)12 47.80 -13.3X
      0.9s    50.42nm
                e     15 54.60
NNA   142.41  66 ePKP  13 09.50  -5.2X
      0.7s    78.77nm
ARE   149.23  67 ePKP  13 27.00   0.9
LPAZ  151.71  63 ePKPc 13 30.48   0.2
                ec    13 38.20
                ec    13 45.38
                epP'df14 58.21
                e     15 05.11
LPB   151.88  63 PKP   13 32.00   1.8
      1.0s   920.00nm
CNCB  152.14  63 PKP   13 31.60   0.8
CCH   153.88  62 PKP   13 33.20   0.3
                i     13 55.70
RTRS  156.58  93 e(PKP)13 37.00   1.3
SOB1  157.27 357 ePKP  13 36.20  -0.9
                e     14 10.50
RTCB  157.36  96 ePKPd 13 37.50   0.7
ZON   157.47  96 e(PKP)13 35.50  -1.4
MDZ   157.48  99 i(PKP)13 37.00   0.1
                i     17 51.40
RTLL  157.62  95 ePKPd 13 37.50   0.5
RTCV  157.64  97 ePKP  13 39.50   2.5
CFA   157.85  96 e(PKP)13 37.00  -0.3
RFA   157.89 104 ePKPd 13 35.00  -2.3
RTPR  159.11  92 e(PKP)13 40.00   1.4
MRA   160.08  97 e(PKP)13 40.00   0.4
BAO   162.85  19 iPKPc 13 44.30   1.3
                i     13 46.00
LPA   166.53 107 PKPc+ 13 48.10   2.6
                ePP   18 41.00
                epPP  20 01.00
PPD   167.15  42 ePKP  13 47.50   1.1
                e     14 53.90
CDCB  168.04  12 ePKP  13 47.00  -0.1
                i     13 48.10
                e     14 56.90
                e     15 14.50
CACB  168.93  23 ePKP  13 47.40  -0.3
                e     13 52.60
                e     14 20.60
                e     15 02.00
                i     15 24.50
                e     18 37.50
                e     18 50.40
                i     20 12.20
                e     20 44.20
                e     24 52.50
                e     38 55.80
VAO   170.06  27 ePKP  13 50.30   2.1
                e     15 07.10
VAO2  170.42  25 ePKP  13 50.80   2.3
                e     15 08.50
RSTA  170.49  41 ePKP  13 48.90   0.6
                e     15 08.00
     S.D. = 1.0  on 668 of 713 obs.
-------------------------------------
%  OCT  11, 1993  15h 59m 54.69± 0.64s
   41.107 N ± 6.9km   28.462 E ± 5.1km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.7 (ISK).

CTT      0.05 329 iPg   59 56.10  -0.7
ISK      0.45  95 iPg   00 03.60  -0.3
                eSg   00 12.00
EDC      0.89 211 ePg   00 11.00  -0.7
DMK      0.89 324 ePn   00 12.20   0.5
MFT      0.95 251 iPn   00 12.60  -0.2
HRT      0.96 107 ePn   00 13.50   0.6
KGT      1.10 234 ePn   00 16.00   0.7
     S.D. = 0.7  on   7 of   7 obs.
-------------------------------------
?  OCT  11, 1993  16h 18m 04.11± 1.46s
   41.101 N ±38.5km   28.882 E ± 8.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.6 (ISK).

ISK      0.14 105 iPg   18 07.60   0.2
                iSg   18 09.10
CTT      0.35 278 iPg   18 11.10  -0.1
HRT      0.66 115 ePg   18 17.00  -0.2
MFT      1.25 256 ePn   18 27.60   0.1
     S.D. = 0.4  on   4 of   4 obs.
-------------------------------------
&  OCT  11, 1993  16h 47m 21.86s
   59.943 N          152.964 W
   DEPTH = 111.9km
 SOUTHERN ALASKA                   (  2)
      <AEIC>.

INE      0.13 337 eP    47 36.97   0.8
                eS    47 49.58
ILIM     0.14   1 eP    47 36.74   0.7
                eS    47 49.20
INW      0.15 326 eP    47 36.94   0.8
OPT      0.32 205 iPd   47 37.47  -0.7
                eS    47 49.44
RED      0.49  11 iPd   47 38.41  -0.8
                eS    47 51.56
RS2      0.53  11 iPd   47 38.96  -0.7
RDW      0.55   8 ePd   47 38.88  -0.8
REF      0.56  13 iPd   47 39.07  -0.8
                eS    47 52.69
AUL      0.61 203 ePd   47 39.18  -0.8
                eS    47 53.70
AUE      0.62 200 ePd   47 38.88  -1.1
NCT      0.62   2 iPd   47 39.43  -0.7
                eS    47 53.26
AUH      0.63 203 ePd   47 39.34  -0.8
                eS    47 52.43
AUW      0.63 204 eP    47 39.36  -0.7
AGU      0.63 202 eP    47 39.30  -0.9
PDB      0.64 256 iPc   47 39.30  -0.8
                eS    47 53.10
AUI      0.65 201 eP    47 39.13  -1.1
                eS    47 53.06
DFR      0.67  12 iPd   47 39.68  -0.8
RDT      0.69  23 iPd   47 39.79  -0.9
HOM      0.73 113 ePc   47 40.24  -0.6
                eS    47 54.84
XLV      0.80 127 eP    47 40.38  -1.1
                eS    47 55.41
CNPM     0.97 115 iPc   47 42.22  -1.0
                eS    47 58.02
BRLK     1.06  99 eP    47 43.28  -0.9
                eS    47 59.70
CDD      1.07 199 ePd   47 42.81  -1.5
                eS    47 59.59
BKG      1.18  17 iPd   47 44.77  -0.8
                eS    48 02.94
CKT      1.32  16 iPd   47 46.13  -0.9
SPU      1.32  19 iPd   47 46.10  -1.0
                eS    48 05.72
CKN      1.34  16 eP    47 46.56  -0.8
BGL      1.35  12 iPd   47 46.94  -0.6
CRP      1.39  16 ePd   47 47.25  -0.7
                eS    48 07.67
CGLM     1.45  19 ePd   47 47.78  -0.9
SLKM     1.48  66 eP    47 47.49  -1.5
                eS    48 08.10
NCG      1.52  15 eP    47 48.63  -0.9
SVW      1.76 313 ePd   47 50.80  -1.6
SEW      1.77  83 eP    47 50.78  -1.7
SUA      1.88  35 ePd   47 52.95  -1.0
                eS    48 17.74
MPA      1.88  72 eP    47 52.47  -1.4
PMS      2.13  51 eP    47 55.80  -1.3
SKT      2.16  18 ePd   47 56.10  -1.4
                eS    48 23.93
KDC      2.22 173 ePc   47 55.10  -3.1
PWA      2.29  40 P     47 58.70  -0.4
PWL      2.47  66 eP    47 59.03  -2.6
PLRM     2.51  47 eP    47 59.70  -2.3
PMR      2.51  47 eP    48 00.50  -1.5
KNK      2.66  54 eP    48 01.75  -2.4
GHO      2.70  45 eP    48 02.21  -2.4
CUT      2.79  27 eP    48 04.37  -1.5
CFI      2.85  62 eP    48 04.62  -2.0
SML      2.94  48 eP    48 05.22  -2.6
HIN      3.26  79 eP    48 09.86  -2.3
                eS    48 47.32
TTA      3.34 335 P     48 11.30  -1.9
SCM      3.34  53 eP    48 11.25  -2.1
MID      3.40  96 P     48 12.10  -1.9
HUR      3.44  26 eP    48 13.37  -1.2
VLZ      3.49  67 eP    48 13.34  -1.8
                eS    48 52.09
CVA      3.65  77 eP    48 15.01  -2.3
TRF      3.74  19 eP    48 16.62  -2.2
KTH      3.75  14 eP    48 16.62  -2.2
KLU      3.79  63 eP    48 16.47  -3.0
SGAM     3.91  78 eP    48 18.39  -2.6
TOA      3.95  54 eP    48 19.50  -2.1
RND      3.99  28 eP    48 20.05  -2.0
DHY      4.13  38 eP    48 21.74  -2.3
                eS    49 08.88
RAGM     4.17  80 eP    48 22.09  -2.4
MCK      4.25  25 eP    48 24.04  -1.6
```

11d 16h

```
HMT     4.37  81 eP    48 24.55  -2.7
SDG     4.42  51 P     48 26.50  -1.5
BWN     4.55  20 eP    48 27.75  -1.9
GLB     4.74  68 eP    48 29.38  -3.0
CRQM    4.95  76 eP    48 33.03  -2.3
WRH     5.08  25 eP    48 33.73  -3.2
TGL     5.10  76 eP    48 34.97  -2.3
MLY     5.21  10 eP    48 36.92  -1.9
HDA     5.29  30 eP    48 36.95  -2.9
CCB     5.30  25 eP    48 36.78  -3.1
BALM    5.36  74 eP    48 38.63  -2.3
MDM     5.49  22 eP    48 39.71  -2.9
FBA     5.52  24 ePc   48 39.90  -3.1
ILB     5.61  28 eP    48 40.80  -3.4
IL1     5.61  28 eP    48 41.03  -3.2
YAH     5.62  81 ePc   48 42.46  -2.1
GLM     5.68  25 eP    48 42.17  -3.1
CTGM    5.85  75 eP    48 45.80  -1.8
IM3     6.07 357 eP    48 48.29  -2.3
IMA     6.16 357 eP    48 50.20  -1.7
      84 obs. associated
-----------------------------------
?  OCT  11, 1993  16h 53m 04.13± 1.45s
   14.463 N ±19.6km   92.690 W ±10.6km
   DEPTH =  33.0km  (normal)
   3.9mb (  1 obs.)
 NEAR COAST OF CHIAPAS, MEXICO   ( 69)
      MD 4.2 (GCG).

TPX     0.60  43 iP    53 16.00  -0.2
                iS    53 29.00
BVA     2.00  84 ePc   53 36.71   0.2
PCG     2.02  92 eP    53 37.51   0.7
IXG     2.19  97 ePd   53 38.23  -0.8
YUP     2.81  95 eP    53 47.97   0.1
                eS    54 22.87
OXX     4.68 304 (P)   53 42.00 -32.4X
IISM    6.36 316 (P)   54 47.50   9.5X
LVVM    6.36 326 (P)   54 32.00  -6.0X
PPM     7.30 310 eP    54 52.50   0.8
LTX    17.95 327 (P)   57 08.40  -4.5X
GBTN   22.44  18 (P)   58 02.16   0.5
ALQ    23.87 331 eP    58 14.50  -1.3
        1.0s     4.00nm          3.9mb
GBA   150.45  20 PKP   13 05.00  15.8X
     S.D. = 0.9  on   8 of  13 obs.
-----------------------------------
%  OCT  11, 1993  17h 08m 47.38± 1.03s
   47.029 N ± 8.8km    0.352 W ±13.8km
   DEPTH =   5.0km  (geophysicist)
 FRANCE                          (538)
      ML 3.1 (LDG).

MFF     0.45 162 Pg    08 55.20  -1.2
                Sg    09 01.10
LPF     1.11 335 Pg    09 07.90  -0.7
                Sg    09 22.80
GRR     1.40 346 Pn    09 13.60   0.0
                Pg    09 14.90
                Sg    09 32.80
LSF     1.51 120 Pg    09 16.50   1.3
                Sg    09 37.60
LDF     1.57   6 Pn    09 15.20  -0.8
                Pg    09 17.70
                Sg    09 39.50
FLN     1.74 357 Pg    09 19.90   1.5
                Sg    09 43.40
TCF     1.91 112 Pg    09 24.80   3.8X
                Sg    09 49.40
RJF     2.16 142 Pg    09 26.30   1.8
                Sg    09 55.20
MAF     2.17 111 Pn    09 23.40  -1.2
                Pg    09 28.90
                Sg    09 56.80
LFF     2.22 160 Pg    09 28.30   2.9X
                Sg    09 55.40
BGF     2.25 101 Pn    09 25.60  -0.2
                Pg    09 30.40
                Sg    09 59.60
AVF     2.55  94 Pn    09 29.50  -0.6
                Pg    09 37.40
                Sg    10 08.40
LPO     2.58 155 Pg    09 35.40   4.9X
                Sg    10 06.70
SSF     2.64  88 Pg    09 37.90   6.6X
                Sg    10 12.40
CAF     2.70 140 Pg    09 37.30   5.1X
                Sg    10 11.70
LOR     2.88  84 Pg    09 43.30   8.4X
                Sg    10 19.80
SMF     2.90  96 Pg    09 43.80   8.7X
                Sg    10 19.20
LBF     2.96  89 Pg    09 44.10   8.1X
                Sg    10 21.40
     S.D. = 1.3  on  10 of  18 obs.
-----------------------------------
*  OCT  11, 1993  17h 42m 09.89± 0.90s
   51.500 N ± 6.0km    6.800 E ±14.3km
   DEPTH =  10.0km  (geophysicist)
 GERMANY                         (543)
      ML 2.2 (BNS). Felt (IV) in the
      Oberhausen area.

WTS     0.50   1 ePg   42 20.00   0.0
       0.5s    14.30nm
BNS     0.59 156 iPg   42 21.33  -0.4
       0.4s    92.00nm
                iSg   42 29.90
STB     0.91 178 ePg   42 27.73   0.5
       0.6s    40.00nm
                ic    42 27.86
                iSg   42 39.88
KLL     0.91 200 iPgd  42 27.57   0.3
       0.4s  *******nm
                iSg   42 40.83
ENN     0.92 217 ePg   42 27.00  -0.4
       0.4s     6.90nm
                eSg   42 42.00
     S.D. = 0.6  on   5 of   5 obs.
-----------------------------------
?  OCT  11, 1993  17h 46m 08.73± 1.32s
   41.023 N ±18.1km   28.879 E ± 7.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.6 (ISK).

ISK     0.14  73 iPg   46 12.10   0.1
                iSg   46 14.60
CTT     0.36 290 iPg   46 16.50   0.3
DMK     1.16 314 ePn   46 30.20  -0.2
MFT     1.23 259 ePn   46 31.60  -0.1
     S.D. = 0.4  on   4 of   4 obs.
-----------------------------------
&  OCT  11, 1993  17h 46m 36.49s
   59.581 N          153.197 W
   DEPTH = 104.9km
 SOUTHERN ALASKA                 (  2)
      <AEIC>.

OPT     0.07 347 iP    46 50.42   0.7
                eS    47 01.00
AUL     0.23 211 iP    46 50.96   0.9
AUE     0.24 202 eP    46 50.78   0.8
AUH     0.25 210 eP    46 51.27   1.1
AUW     0.25 214 eP    46 51.05   1.0
AUI     0.27 206 eP    46 50.89   0.7
                eS    47 02.10
INE     0.49   8 eP    46 52.63  -0.5
                eS    47 05.96
INW     0.49   4 eP    46 52.18  -0.9
                eS    47 04.74
ILIM    0.51  13 eP    46 52.36  -0.8
                eS    47 05.37
PDB     0.55 293 eP    46 52.39  -0.9
CDD     0.69 200 iP    46 53.56  -1.0
                eS    47 06.47
XLV     0.76  99 eP    46 54.50  -0.7
                eS    47 09.02
HOM     0.79  84 eP    46 55.35  -0.1
RED     0.87  14 eP    46 55.37  -0.9
                eS    47 10.04
RS2     0.91  14 eP    46 56.13  -0.8
RDW     0.93  12 eP    46 56.17  -0.8
                eS    47 11.19
REF     0.94  15 eP    46 56.36  -0.8
NCT     0.99   8 eP    46 56.81  -0.8
                eS    47 12.45
CNPM    1.00  92 eP    46 56.71  -0.9
                eS    47 12.17
DFR     1.05  14 iP    46 57.38  -0.8
                eS    47 14.10
RDT     1.07  21 iP    46 57.45  -1.0
                eS    47 13.73
BRLK    1.19  80 eP    46 58.67  -1.0
                eS    47 15.43
NKA     1.52  39 eP    47 04.43   0.8
BKG     1.56  17 iP    47 03.50  -0.8
CKT     1.70  16 eP    47 05.08  -0.9
SPU     1.70  19 eP    47 04.93  -1.1
CKN     1.72  17 eP    47 05.52  -0.7
BGL     1.74  13 eP    47 05.81  -0.6
SLKM    1.76  57 eP    47 05.91  -0.8
CRP     1.77  17 eP    47 06.13  -0.8
CGLM    1.83  18 eP    47 06.65  -1.0
KDC     1.88 168 eP    47 05.40  -2.7
NCG     1.90  15 eP    47 07.77  -0.8
SVW     1.95 323 P     47 08.00  -1.1
MPA     2.13  63 eP    47 10.23  -1.2
SUA     2.25  32 eP    47 12.53  -0.6
PMS     2.46  46 P     47 14.60  -1.2
SKT     2.54  18 eP    47 15.96  -1.0
PWA     2.64  37 P     47 17.30  -1.0
PWL     2.74  60 eP    47 17.50  -2.2
MTU     2.83  79 eP    47 19.16  -1.7
PLRM    2.85  43 eP    47 19.31  -1.7
PMR     2.85  43 eP    47 18.41  -2.6
KNK     2.98  50 eP    47 20.78  -2.1
GHO     3.04  42 eP    47 22.22  -1.5
CFI     3.14  57 eP    47 23.28  -1.6
CUT     3.17  25 eP    47 24.46  -0.9
SML     3.27  45 eP    47 24.73  -2.1
HIN     3.46  73 eP    47 27.75  -1.7
FID     3.56  68 eP    47 27.33  -3.3
VZW     3.62  63 eP    47 29.12  -2.5
KLU     4.07  59 eP    47 34.97  -2.9
      52 obs. associated
-----------------------------------
*  OCT  11, 1993  18h 52m 27.41± 2.44s
   36.588 N ±22.7km   29.017 E ± 8.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 3.5 (ISK).

ELL     0.73  77 iPg   52 42.00   0.1
                iSg   52 54.00
CIN     1.25 324 eP    52 51.00   0.3
BCK     1.53  55 iPn   52 54.80  -0.1
KHL     1.78  13 iPn   52 58.00  -0.5
IZM     2.28 323 ePn   53 05.60  -0.2
ALT     2.61  19 ePn   53 10.40   0.0
EZN     3.87 328 ePn   53 28.00  -0.1
EYL     4.07  12 ePn   53 31.60   0.5
     S.D. = 0.3  on   8 of   8 obs.
-----------------------------------
&  OCT  11, 1993  18h 59m 45.05s
   32.366 N          115.068 W
   DEPTH =   6.0km  (geophysicist)
 CALIF.-BAJA CALIF. BORDER REGION( 45)
      <PAS-P>. ML 4.1 (PAS), 4.1 (GS).

PLM     1.80 304 ePn   00 13.80  -3.3
                ePg   00 19.18
SSK     2.87 311 (Pn)  00 29.81  -2.5
GSC     3.27 334 ePn   00 34.23  -3.7
TUC     3.63  90 ePn   00 41.18  -1.8
ABL     4.26 307 (P)   00 52.76   0.6
ISA     4.34 320 ePn   00 49.33  -3.8
TPNV    4.67 348 ePn   00 55.79  -2.2
BCH     5.04 305 ePn   01 00.26  -2.8
ARUT    5.57  13 ePn   01 08.11  -2.6
                eS    02 38.38
MTUM    5.75 331 (Pn)  01 19.36   6.2
BONR    6.17 335 ePn   01 16.69  -2.5
MSU     6.57  20 ePn   01 23.81  -1.0
                ePg   01 43.50
CMB     7.14 324 ePg   01 57.44  24.9
ARN     7.28 315 ePg   01 58.40  23.9
ALQ     7.62  68 ePn   01 38.03  -1.5
SRU     7.68  27 ePn   01 39.57  -0.7
PV10    7.76  38 ePn   01 39.65  -1.8
                ePg   02 07.84
                eS    03 48.38
PV09    7.80  37 ePn   01 40.32  -1.8
                eS    03 51.37
DUG     8.02  12 ePg   02 14.98  29.9
PV08    8.11  38 ePn   01 45.18  -1.3
                ePg   02 21.75
                eS    03 58.72
EMUT    8.19  24 (Pn)  01 45.96  -1.5
                eS    04 01.32
LTX    10.25 104 eP    02 15.46  -0.4
```

```
LRM     13.59   8 eP    03 02.90   1.9
        23 obs. associated
-------------------------------------
&  OCT  11, 1993  19h 29m 51.41s
   32.382 N          115.064 W
   DEPTH =   6.0km  (geophysicist)
 CALIF.-BAJA CALIF. BORDER REGION( 45)
      <PAS-P>. ML 2.9 (PAS).

GLA      0.70  17 eP    30 03.87  -1.5
PLM      1.80 303 eP    30 21.60  -1.7
GSC      3.25 334 (Pn)  30 44.54   0.5
         3 obs. associated
-------------------------------------
*  OCT  11, 1993  19h 44m 36.62± 1.55s
   49.192 N ±13.8km    6.981 E ± 8.7km
   DEPTH =  10.0km  (geophysicist)
 GERMANY                          (543)
      ML 2.0 (UCC).

RUP      0.51   6 ePg   44 47.00   0.0
WLF      0.72 311 iPd   44 49.63  -1.1
                  iS    44 59.06
ABH      0.78  28 ePg   44 52.20   0.3
DOU      1.80 301 iP    45 08.90   1.1
GEC2     4.44  92 Pn    45 45.30  -0.3
                  Sn    46 34.60
                  Sg    46 59.00
     S.D. = 1.1  on   5 of   5 obs.
-------------------------------------
   OCT  11, 1993  20h 41m 12.85± 0.31s
   41.846 N ± 3.2km   20.032 E ± 3.4km
   DEPTH =  10.0km  (geophysicist)
 ALBANIA                          (391)
      ML 3.3 (THE), 2.9 (TIR).

LACI     0.32 229 iPgd  41 19.30  -0.2
                  iSg   41 24.60
PHP      0.35 118 iPgc  41 19.30  -0.7
                  iSg   41 25.10
SDA      0.45 297 iPgc  41 22.50   0.5
                  iSg   41 30.20
TIR      0.51 194 iPgd  41 24.00   0.7
                  iSg   41 32.00
BCI      0.52   3 iPgd  41 22.60  -0.8
                  iSg   41 31.10
ULC      0.60 282 iPgc  41 24.38  -0.5
                  iSg   41 33.76
PVY      0.75 357 iPgd  41 27.31  -0.3
                  iSg   41 38.60
TTG      0.82 316 iPgc  41 28.05  -0.6
                  iSg   41 41.25
OHR      0.93 142 iPg   41 29.70  -1.0
       0.4s   320.00nm
                  iSg   41 42.70
                  i     41 44.30
BDV      1.00 296 iPgd  41 31.61  -0.1
                  iSg   41 47.35
IVA      1.03 355 iPgd  41 32.43   0.1
                  iSg   41 47.76
SKO      1.06  83 iPg   41 33.00   0.2
       0.3s   680.00nm
                  iSg   41 45.70
HCY      1.29 298 iPgc  41 37.32   0.6
                  iSg   41 56.98
KBN      1.35 155 iPnd  41 36.70  -1.0
                  iSn   41 55.70
VLO      1.43 197 ePn   41 39.50   0.6
FNA      1.47 136 ePb   41 39.22  -0.2
                  eSb   42 03.58
BRY      1.53 314 iPgd  41 41.25   1.0
                  iSg   42 04.02
TPE      1.55 181 ePn   41 39.00  -1.5
PLE      1.56 343 iPgc  41 42.01   1.3
                  iSg   42 04.51
LSK      1.75 166 ePn   41 45.60   2.1
GRG      1.99 116 ePn   41 46.34  -0.6
                  eSn   42 14.54
LIT      2.55 132 ePn   41 53.94  -1.0
                  eSn   42 29.90
SOH      2.70 111 ePn   41 58.94   1.8
SRS      2.77 104 ePn   41 58.82   0.7
HVAR     2.96 298 ePn   42 00.30  -0.5
AGG      3.32 147 ePn   42 06.02   0.1
                  eSn   42 46.54
OUR      3.35 116 iPn   42 06.82   0.6
VOY      6.09 315 ePc   42 44.10  -1.1
                  e     43 54.50
     S.D. = 0.9  on  28 of  28 obs.
-------------------------------------
   OCT  11, 1993  20h 51m 06.06± 0.59s
   49.197 N ± 5.3km    6.916 E ± 7.4km
   DEPTH =  10.0km  (geophysicist)
 GERMANY                          (543)
      ML 2.9 (STR), 2.9 (GRF), 2.5
      (UCC).

RUP      0.51  11 ePg   51 16.40  -0.1
WLF      0.68 313 iPd   51 18.81  -0.8
                  iS    51 28.35
ABH      0.80  31 ePg   51 21.40  -0.2
MOF      1.35 174 Pg    51 30.20  -0.9
                  Sg    51 47.63
TNS      1.43  44 ePnd  51 33.90   1.8
                  eSn   51 51.00
                  eSg   51 52.20
FEL      1.51 151 Pg    51 32.93  -0.3
                  Sg    51 52.68
MEM      1.53 338 iPc   51 32.73  -0.7
                  id    51 34.90
                  iS    51 54.96
ENN      1.70 338 iPg   51 37.80   2.0
       0.5s    15.00nm
                  eSg   52 00.00
DOU      1.76 302 P     51 35.80  -0.9
                  id    51 38.80
                  iS    51 58.20
BBS      1.78 167 Pg    51 39.00   1.9
                  Sg    52 01.75
LOMF     1.85 182 Pg    51 38.56   0.4
                  Sg    52 02.98
SNF      2.15 309 P     51 49.30   6.9X
GRF      2.85  78 e(Pg) 52 00.80   8.3X
                  eSg   52 37.50
KHC      4.37  88 ePn   52 13.00  -1.0
                  e     52 26.00
                  e     53 03.00
                  eSg   53 29.00
GEC2     4.48  92 Pn    52 14.40  -1.2
                  Sn    53 06.00
                  Sg    53 28.60
     S.D. = 1.3  on  13 of  15 obs.
-------------------------------------
*  OCT  11, 1993  22h 19m 01.92± 1.65s
   41.831 N ±10.7km    2.647 E ±11.7km
   DEPTH =  10.0km  (geophysicist)
 SPAIN                            (377)
      ML 2.7 (LDG).

ETER     0.50  18 eP    19 12.59   0.6
                  e     19 21.00
PERF     0.68  14 Pg    19 14.70  -0.6
TRGS     0.84 323 Pg    19 17.71  -0.6
MTHF     1.11 356 Pg    19 22.53  -0.2
GRBF     1.30 321 Pg    19 26.12   0.0
LESF     1.57 320 Pg    19 30.87   1.0
EROQ     1.96 240 iPc   19 35.52  -0.1
                  e     19 59.70
EPF      2.09 306 Pn    19 37.30  -0.1
                  Sg    20 07.00
EGRA     2.24 280 eP    19 32.93  -6.6X
                  e     19 57.30
LPO      3.04 340 Pg    19 58.70   7.7X
                  Sg    20 40.20
     S.D. = 0.7  on   8 of  10 obs.
-------------------------------------
*  OCT  11, 1993  23h 18m 05.72± 1.00s
   41.891 N ± 8.8km   23.129 E ± 7.9km
   DEPTH =  10.0km  (geophysicist)
 GREECE-BULGARIA BORDER REGION   (363)
      ML 3.3 (THE).

KNT      0.75 193 ePg   18 20.32  -0.1
                  iSg   18 26.17
SRS      0.85 156 iPg   18 23.00   0.9
                  eSg   18 34.80
SOH      1.08 171 ePg   18 26.96   0.9
                  eSg   18 42.32
GRG      1.08 211 iPg   18 25.42  -0.7
                  iSg   18 39.93
SKO      1.26 274 iPn   18 27.50  -1.7
                  i     18 31.00
                  iSn   18 44.40
THE      1.26 186 iPg   18 29.34   0.2
OUR      1.68 157 ePb   18 38.08   2.8X
                  eSb   18 59.95
FNA      1.72 231 ePb   18 35.84  -0.1
LIT      1.85 195 ePb   18 38.60   0.8
                  eSb   19 02.36
OHR      1.92 247 ePn   18 37.70  -1.1
ALN      2.41 113 ePn   18 52.64   6.9X
                  eSn   19 23.50
AGG      2.93 192 ePn   18 54.80   1.6
IGT      3.17 223 ePn   18 57.90   1.3
EZN      3.18 129 ePn   18 55.00  -1.7
MFT      3.32 108 ePn   18 56.00  -2.8
MLR      4.14  29 eP    19 13.00   2.6
     S.D. = 1.6  on  14 of  16 obs.
-------------------------------------
*  OCT  11, 1993  23h 34m 45.86± 0.49s
   21.492 S ±13.2km  169.758 E ±11.3km
   DEPTH =  23.5km  (  5 depth phases)
   4.7mb ( 10 obs.)  4.5Msz (  2 obs.)
 LOYALTY ISLANDS REGION           (189)

DZM      3.13 259 iPd   35 33.90  -1.1
                  iS    36 07.90
BKM      4.06 339 iPc   35 50.00   1.9
                  iS    36 48.00
BRS     16.54 246 eP    38 40.50   2.5
ARMA    18.55 238 eP    39 04.30   1.2
        1.0s    20.00nm          4.3mb
CTA     22.02 269 iP    39 41.00   0.6
                  i     39 46.00  18km
BWA     22.77 231 eP    39 46.20  -1.7
                  e     39 52.50  23km
CAN     22.81 228 eP    39 50.40   2.2
                  i     39 57.40  25km
STK     27.14 242 eP    40 28.30  -0.9
        4.1s     1.90nm          3.1mb X
WR2     33.10 266 eP    41 20.40  -2.0
        0.7s     2.80nm          4.3mb
                  e     41 27.20  23km
WRA     33.12 266 P     41 20.60  -1.9
        0.7s     1.30nm          4.0mb
ASPA    33.13 259 iPc   41 20.80  -1.8
        0.7s     6.30nm          4.7mb
      Z  18s     0.70um          4.4Msz
                  i     41 34.60  54kmX
                  eS    46 12.20
MAT     64.96 332 eP    45 24.00  -2.0
        1.0s    10.00nm          4.9mb
TIA     75.94 319 eP    46 32.10  -0.5
CN2     76.63 329 eP    46 35.10  -1.2
        0.8s    13.00nm          5.0mb
BJI     78.99 321 eP    46 49.00  -0.3
TIY     79.81 317 eP    46 54.80   0.8
XAN     79.98 313 P     46 55.00   0.0
        1.0s     4.50nm          4.4mb
CHTO    80.03 295 eP    46 56.10   0.6
HHC     82.24 319 P     47 07.90   1.2
        1.2s    12.00nm          4.8mb
LZH     84.59 312 eP    47 18.50  -0.4
        1.4s    27.00nm          5.3mb
                  pP    47 27.50  28km
GTA     89.02 313 eP    47 40.40   0.0
        1.5s     8.00nm          4.8mb
BONR    89.71  49 eP    47 42.08  -1.8
DAU     95.70  49 (P)   48 09.73  -1.7
KAF    132.32 338 iPKP  53 57.60  -1.6
        0.5s     4.00nm
NUR    133.99 337 ePKP  54 01.40  -1.0
        0.6s     7.60nm
NB2    137.74 345 PKP   54 08.40  -1.2
        0.8s     2.10nm
KSP    144.09 331 iPKP  54 17.60  -3.5X
PSZ    144.22 325 e(PKP)54 17.40  -4.1X
BRG    145.09 333 iPKPc 54 20.80  -2.0
        0.9s    40.00nm
                  i     54 27.50
SRO    145.13 326 ePKP  54 23.20   0.3
CLL    145.15 334 iPKPc 54 21.10  -1.7
        0.9s    41.00nm
PRU    145.48 331 iPKPc 54 22.10  -1.4
        1.1s    20.90nm
ZST    145.51 327 ePKP  54 22.60  -1.0
UZD    145.74 324 e(PKP)54 23.20  -0.8
EKA    145.79 353 PKPc  54 22.10  -1.7
        0.8s    29.10nm
MOX    146.22 335 ePKP  54 24.60  -0.1
        0.9s    15.00nm
```

11d 23h

```
SKO   146.48 315 iPKPc 54 25.50   0.1
       1.0s    40.00nm
KHC   146.54 331 iPKPc 54 26.00   0.7
       1.0s    26.40nm
                  e    54 40.00
                  e    54 54.90
GEC2  146.69 331 PKP   54 23.70  -1.9
                  e    54 26.10
WTS   146.80 341 ePKP  54 26.50   1.0
       0.7s    13.00nm
WET   146.84 332 iPKPd 54 26.90   1.1
       1.0s    22.00nm
GRF   147.12 334 iPKPc 54 27.60   1.4
     Z 21s      0.10um          4.6Msz
PHP   147.27 315 iPKPc 54 26.70   0.0
OHR   147.30 314 iPKP  54 27.50   0.7
BCAO  147.34 243 iPKPd 54 26.00  -1.6
       0.9s    18.00nm
                  i    54 29.00
SDA   147.71 316 ePKP  54 30.40   3.1X
TIR   147.81 315 ePKP  54 25.60  -1.9
LSK   147.87 312 ePKP  54 29.10   1.3
BHG   147.89 330 ePKP  54 29.20   1.7
DCN   148.12 357 ePKP  54 28.90   1.3
DLF   148.12 356 ePKP  54 28.70   1.1
KBA   148.13 329 iPKPc 54 27.50  -0.6
       0.9s    17.90nm
                  i    54 28.80
ENN   148.15 340 ePKP  54 29.50   1.8
       0.8s    10.70nm
TPE   148.21 313 ePKP  54 28.00  -0.2
FUR   148.28 332 ePKP  54 30.20   2.1
VOY   148.58 327 ePKP  54 30.70   1.9
                  e    54 45.80
UCC   148.59 342 PKP   54 32.00   3.6X
WATA  148.77 331 iPKPc 54 31.00   1.9
WTTA  148.79 331 iPKPc 54 30.80   1.6
       1.1s    31.50nm
MOTA  148.97 331 iPKPc 54 31.70   2.3
       0.9s    34.10nm
SQTA  149.02 331 iPKPc 54 31.90   2.4
       0.8s    27.50nm
WLF   149.03 339 iPKPc 54 32.16   3.0X
       1.1s    43.70nm
DOU   149.14 341 PKPc  54 32.30   3.0X
       0.7s    42.20nm
OGA   149.37 331 ePKP  54 33.40   3.3X
CDF   149.69 337 iPKPc 54 33.70   3.3X
       1.0s    34.40nm
SLE   149.75 335 ePKPc 54 33.40   3.0X
OSS   149.90 331 ePKPc 54 34.70   3.8X
ZLA   150.02 334 ePKPc 54 34.10   3.2X
LLS   150.26 333 ePKPd 54 35.40   4.0X
VDL   150.35 332 ePKPc 54 35.60   4.0X
BSF   150.36 336 iPKPc 54 35.20   3.8X
       0.8s    34.25nm
HAU   150.37 337 iPKPc 54 35.30   4.0X
       0.8s    44.05nm
TMA   150.91 332 iPKPc 54 36.50   4.1X
MMK   151.34 333 ePKPc 54 38.20   5.1X
FIR   151.50 326 ePKP  54 37.00   3.9X
FLN   151.69 346 iPKPc 54 37.90   4.7X
       0.8s    42.20nm
EMS   151.76 334 ePKPd 54 39.10   5.4X
LDF   151.77 346 iPKPc 54 38.10   4.7X
       1.2s    41.95nm
LOR   151.87 339 iPKPc 54 38.60   5.0X
       0.9s    25.05nm
LBF   152.08 339 iPKPc 54 39.00   5.1X
       0.9s     8.50nm
GRR   152.13 347 iPKPc 54 39.10   5.2X
       1.1s    38.60nm
SSF   152.16 340 iPKPc 54 39.50   5.5X
       1.0s    28.40nm
LPL   152.29 334 iPKPc 54 40.30   5.8X
       0.9s    22.30nm
LPG   152.29 334 ePKP  54 40.30   5.7X
       0.7s    15.20nm
SMF   152.42 339 ePKP  54 39.80   5.4X
       1.3s    24.20nm
AVF   152.45 340 iPKPc 54 39.60   5.2X
       1.1s    10.75nm
LPF   152.51 347 iPKPc 54 40.00   5.6X
       1.0s    41.20nm
BGF   152.82 340 iPKPc 54 40.80   5.9X
MAF   153.21 340 ePKP  54 41.70   6.2X
TCF   153.26 341 iPKPc 54 41.80   6.2X
       1.1s    21.50nm
LSF   153.50 342 iPKP  54 42.00   6.1X
       1.0s    15.60nm
PGF   153.53 327 ePKP  54 42.20   6.0X
       1.1s    54.45nm
MFF   153.64 344 ePKP  54 42.40   6.3X
RJF   154.36 341 iPKPc 54 44.00   6.9X
       0.9s     6.20nm
     S.D. = 1.5  on  57 of  94 obs.
-----------------------------------
&  OCT  11, 1993  23h 47m 39.27s
   42.437 N          122.007 W
   DEPTH =  15.9km
 OREGON                          ( 32)
      <SEA-P>. MD 2.9 (SEA). ML 3.4
      (GS).

BBOR    0.67 312 Pd    47 52.10  -0.1
                 S     48 01.41
DBO     1.14 307 P     47 59.98  -0.2
HSO     1.35 324 P     48 04.22   0.7
                 S     48 23.04
NCOR    1.42  26 P     48 06.85   2.3
HBO     1.43 351 P     48 06.60   2.0
TCO     1.70  10 P     48 11.85   3.3
WDC     1.90 192 eP    48 11.60   0.3
FBO     1.92 348 P     48 13.72   2.0
LMEM    1.93 170 eP    48 13.38   1.5
RNO     1.94 320 P     48 14.57   2.5
FHC     2.21 223 eP    48 16.24   0.4
VIPM    2.30  26 P     48 21.08   3.8
MPOR    2.35 332 P     48 20.99   3.1
SSOR    2.44 352 P     48 21.37   2.2
KMPM    2.57 219 eP    48 21.98   1.0
ORV     2.90 172 eP    48 25.85   0.2
VGB     3.20  16 eP    48 31.06   1.1
BMW     4.13 348 (P)   48 44.25   1.1
LON     4.31   2 eP    48 46.47   0.7
BONR    5.30 146 (P)   49 00.39   0.4
       20 obs. associated
-----------------------------------
&  OCT  12, 1993  01h 41m 01.26s
   32.377 N          115.068 W
   DEPTH =   6.0km  (geophysicist)
 CALIF.-BAJA CALIF. BORDER REGION( 45)
      <PAS-P>. ML 3.2 (PAS).

GLA     0.70  17 iPd   41 13.66  -1.7
PLM     1.80 303 eP    41 30.65  -2.5
SSK     2.86 310 (Pn)  41 46.56  -1.9
GSC     3.26 334 (Pn)  41 52.39  -1.6
TUC     3.63  90 eP    41 58.70  -0.5
ISA     4.33 320 (Pn)  42 07.42  -1.8
TPNV    4.66 348 (Pn)  42 12.46  -1.6
BCH     5.03 305 (Pn)  42 18.62  -0.5
ARUT    5.56  13 ePn   42 24.24  -2.5
BONR    6.16 335 ePg   42 56.47  21.2
MSU     6.56  20 (Pn)  42 40.02  -0.9
                 ePg   42 59.34
PV09    7.79  37 (P)   42 57.78  -0.4
       12 obs. associated
-----------------------------------
   OCT  12, 1993  02h 35m 00.89± 0.32s
   33.913 S ± 6.9km   94.278 E ± 5.9km
   DEPTH =  10.0km  (geophysicist)
   5.2mb ( 22 obs.)  4.8Msz (  4 obs.)
 SOUTH INDIAN OCEAN              (425)

MUN    18.51  90 eP    39 20.00   1.0
MRWA   19.08  82 iPd   39 27.80   1.8X
        0.8s   179.00nm          5.4mb
NWAO   19.18  93 eP    39 27.40   0.1
BAL    19.25  86 eP    39 28.00  -0.1
KLB    19.88  90 eP    39 34.50  -0.7
                 e     39 37.20
LEM    29.65  28 iPd   41 11.50   2.5X
CSY    33.82 168 P     41 58.20  13.3X
CSY    33.82 168 eP    41 44.30  -0.6
        1.2s     2.70nm          4.1mb X
ASPA   36.00  84 iPd   42 03.00  -1.1
        1.5s    33.30nm          5.0mb
     Z  22s     0.60um          4.3Msz
                 iPP   43 07.80
WRA    38.09  79 P     42 13.39  -8.3X
WR2    38.10  79 iPc   42 13.00  -8.8X
        0.8s     6.90nm          4.5mb
                 i     42 21.90
                 ePP   43 38.00
MAW    38.28 199 e(P)  42 05.00 -17.7X
        1.0s    25.00nm
MTN    39.49  67 iPc   42 34.20   0.8
        0.8s    52.00nm          5.3mb
STK    39.51 101 eP    42 33.50   0.1
        0.9s     7.00nm          4.3mb
                 ipP   42 42.50  30kmX
                 ePP   44 40.10
SNG    41.30  10 eP    42 48.80   0.6
CTA    47.85  87 iPd   43 41.50   0.5
        1.0s     7.50nm          4.7mb
NST    49.62   7 eP    43 55.00   0.5
GBA    49.90 338 P     43 57.00   0.4
BDT    51.07   6 eP    44 06.00   0.5
        0.5s    20.90nm          5.3mb
CHTO   52.62   6 iPc   44 17.40   0.2
        1.3s    37.99nm          5.2mb
HYB    53.20 341 eP    44 19.00  -2.6
        1.0s    80.00nm          5.6mb
QCP    54.62  32 eP    44 49.00  17.1X
BFT    55.56 260 eP    44 40.00   0.9
        0.7s   130.00nm          6.1mb
POO    55.67 336 iPd   44 39.00  -0.6
        1.0s    38.00nm          5.4mb
NVL    55.93 203 iPd   44 47.00   6.1X
        1.6s    64.00nm          5.4mb
BAG    55.97  31 eP    44 40.00  -2.0
SPA    56.26 180 iPc   44 40.60  -3.1
        1.0s    20.00nm          5.1mb
SLR    56.98 259 eP    44 48.50  -0.8
        0.8s    14.93nm          5.1mb
SHL    59.19 357 iP    45 04.20  -0.4
BUL    59.20 265 eP    45 11.70   6.8X
KMI    59.26   9 Pc    45 05.00  -0.1
        1.5s   140.00nm          5.9mb
     Z  20s     1.20um          5.0Msz
SUR    60.25 249 iPc   45 20.00   8.1X
        1.0s   120.00nm          6.0mb
SNA    60.65 203 e(P)  45 20.30   6.3X
        0.9s    45.38nm          5.6mb
CER    61.03 248 eP    45 17.50   0.4
        0.5s   280.00nm          6.7mb X
PKI    61.72 351 P     45 22.00  -0.1
DMN    61.80 351 P     45 22.80   0.3
KKN    61.96 351 P     45 23.80   0.3
GUN    62.00 352 P     45 24.20   0.3
DZM    63.66 100 iPd   45 34.30  -0.5
NDI    64.32 343 eP    45 37.30  -1.5
SSE    69.47  24 Pc    46 10.50  -0.8
        1.0s    21.00nm          5.3mb
                 pP    46 17.50  22kmX
                 sP    46 20.50
LZH    70.21   8 Pc    46 16.00   0.0
        1.2s    75.00nm          5.7mb
     Z  20s     0.55um          4.8Msz
                 pP    46 27.50  38kmX
                 sP    46 33.00
BJI    76.32  17 eP    46 51.50   0.0
        1.2s    18.00nm          5.0mb
     Z  20s     0.42um          4.7Msz
MAIO   77.03 332 eP    46 56.00   0.3
BCAO   80.70 282 iPd   47 16.60   0.5
        0.7s    12.00nm          5.0mb
                 i     47 23.20
MAT    81.19  34 eP    47 18.00  -0.1
        1.3s    15.38nm          4.9mb
KAF   110.09 332 ePKP  53 52.20  18.7X
SLA   118.59 201 ePKP  54 08.00  16.8X
HJA   119.99 202 iPKPd 53 54.80   1.2
CCH   125.68 203 PKP   54 06.30   1.1
CNCB  126.80 201 PKP   54 09.00   1.4X
LPB   127.10 201 ePKP  54 10.00   2.0X
KLU   133.28  35 ePKP  54 17.97  -0.1
INK   136.32  24 ePKP  54 24.00   0.5
        1.0s     3.00nm
RES   138.90   4 ePKP  54 19.00  -9.1X
        1.0s     2.00nm
FRB   148.29 346 ePKP  54 47.00   2.6X
        1.0s    22.00nm
STW   148.39  52 PKP   54 49.23   4.1X
MCW   148.80  51 PKP   54 50.09   4.3X
KMPM  148.90  67 (PKP) 54 48.01   1.7X
BMW   149.02  55 ePKP  54 50.58   4.3X
GMW   149.10  53 ePKPc 54 50.69   4.4X
SHW   149.74  55 ePKP  54 52.70   5.2X
RMW   149.77  53 ePKP  54 52.19   4.8X
```

```
SSOR  149.81  58 PKP    54 52.15   4.6X
LON   149.92  54 ePKPc  54 52.21   4.6X
FMW   149.97  54 PKP    54 52.92   5.0X
WDC   150.10  66 ePKPc  54 52.86   4.9X
ASR   150.19  55 PKP    54 53.61   5.5X
EBG   150.72  53 PKP    54 55.02   6.2X
ARN   150.80  73 ePKP   54 51.43   2.2X
                 ePKPbc54 54.88
                 i      55 02.72
CROR  150.82  57 PKP    54 55.11   6.0X
VGB   150.87  56 ePKP   54 55.34   6.3X
                 ePKPab55 02.19
ORV   150.91  68 (PKP)  54 52.73   3.5X
WTV   150.92  51 PKP    54 54.55   5.5X
VIPM  151.16  58 PKP    54 56.05   6.3X
SAW   151.28  51 PKP    54 55.52   5.9X
CMB   151.75  72 ePKP   54 51.53   0.9
                 ePKPbc54 56.86
LNOR  152.50  55 PKP    54 58.52   7.1X
BONR  153.39  72 ePKP   54 54.28   1.0
                 ePKPbc55 01.34
EMUT  159.11  66 (PKP)  55 07.23   6.8X
                 ePKPab55 36.06
SRU   159.43  68 iPKPd 55 01.76   1.0
                 e      55 09.20
PV10  160.66  70 iPKPd 55 03.37   1.2
                 e      55 10.72
ALQ   162.86  81 (PKP) 55 01.20  -3.2X
                 e      55 05.20
LTX   164.05 102 ePKP   55 11.66   6.1X
                 ePKPab55 57.59
     S.D. = 1.0  on  43 of  84 obs.
-----------------------------------
?  OCT  12, 1993  03h 09m 57.24± 2.73s
   36.749 N ±27.6km   29.053 E ±14.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
     ML 3.2 (ISK).

ELL     0.69  90 iPg    10 11.00   0.1
                 eSg    10 22.00
BCK     1.42  60 ePn    10 23.00  -0.1
KHL     1.61  13 ePn    10 26.00   0.1
IZM     2.18 320 ePn    10 34.00   0.0
     S.D. = 0.2  on   4 of   4 obs.
-----------------------------------
&  OCT  12, 1993  03h 30m 05.60s
   32.365 N          115.057 W
   DEPTH =   6.0km  (geophysicist)
 CALIF.-BAJA CALIF. BORDER REGION( 45)
     <PAS-P>. ML 2.8 (PAS).

GLA     0.71  16 (P)    30 17.70  -2.2
PLM     1.81 303 eP     30 35.07  -2.7
GSC     3.27 334 (P)    30 57.66  -0.8
        3 obs. associated
-----------------------------------
   OCT  12, 1993  03h 55m 54.80± 0.28s
   44.315 N ± 1.9km    7.239 E ± 2.9km
   DEPTH =   5.0km  (geophysicist)
 NORTHERN ITALY                    (545)
     ML 2.3 (GEN), 2.1 (LDG).

STV     0.09 139 P      55 57.34   0.4
                 S      55 58.57
PZZ     0.21 333 P      55 59.86   0.6
                 S      56 03.10
TOUF    0.30 179 Pg     56 01.02   0.1
                 Sg     56 04.46
AUTN    0.35 157 Pg     56 01.75  -0.1
SAOF    0.40 145 Pg     56 02.79  -0.1
                 Sg     56 08.37
MVIF    0.42 188 Pg     56 03.60   0.3
                 Sg     56 09.26
AURF    0.43 171 Pg     56 03.50   0.0
                 Sg     56 09.16
ROB     0.45  92 P      56 04.39   0.5
                 S      56 10.56
SBF     0.47 163 Pg     56 04.10  -0.2
                 Sg     56 11.10
BHB     0.53   2 P      56 05.35   0.0
                 S      56 11.85
IMI     0.62 131 P      56 06.99  -0.2
                 S      56 15.00
RRL     0.69 332 P      56 08.64   0.1
                 S      56 18.02
FIN     0.70  98 P      56 08.55  -0.3
                 S      56 17.98
RSP     0.84   1 P      56 10.93  -0.6
FRF     0.87 210 Pg     56 11.30  -0.6
                 Sg     56 22.60
PCP     0.96  76 P      56 13.86   0.2
LRG     1.07 217 Pg     56 15.70   0.3
                 Sg     56 30.10
LMR     1.11 209 Pg     56 16.20   0.0
                 Sg     56 29.90
LSD     1.14 357 P      56 16.47  -0.4
     S.D. = 0.4  on  19 of  19 obs.
-----------------------------------
*  OCT  12, 1993  04h 03m 59.75± 2.38s
   36.760 N ±26.0km   29.083 E ±11.5km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
     ML 3.2 (ISK).

ELL     0.66  91 iPg    04 13.00   0.0
                 iSg    04 25.00
CIN     1.16 317 ePg    04 22.00   0.7
                 iSg    04 39.00
BCK     1.39  59 ePn    04 25.50   0.2
KHL     1.60  13 ePn    04 28.00  -0.2
IZM     2.18 319 ePn    04 36.00  -0.7
     S.D. = 0.7  on   5 of   5 obs.
-----------------------------------
?  OCT  12, 1993  05h 17m 49.08± 2.68s
   35.165 S ±17.1km  179.891 W ±33.6km
   DEPTH = 284.6 ± 12.3 km
   3.8mb (  1 obs.)
 EAST OF NORTH ISLAND, N.Z.        (688)

HBZ     2.83 210 eP     18 40.80  -1.6
PUZ     3.26 207 P      18 47.00   0.1
                 eS     19 35.50
WIZ     3.33 224 eP     18 46.60  -1.0
NOZ     3.83 205 P      18 54.10   1.2
URZ     3.92 217 P      18 53.50  -0.5
                 eS     19 48.60
PAHZ    4.42 213 eP     19 00.40   0.6
WLZ     4.53 232 eP     19 01.00   0.0
TTH     5.09 210 eP     19 09.30   1.7
NGZ     5.38 221 eP     19 11.70   0.4
MOZ     5.41 230 eP     19 12.80   1.4
WAHZ    5.42 212 eP     19 12.00   0.4
TEHZ    5.48 208 P      19 12.80   0.5
PGZ     6.23 208 P      19 21.90   0.6
MNG     6.56 213 P      19 25.10  -0.3
                 eS     20 43.90
MTW     7.00 210 eP     19 30.00  -0.8
CAW     7.14 212 eP     19 32.30  -0.2
MRW     7.40 213 eP     19 34.80  -0.9
MRW     7.40 213 eP     19 38.00   2.3X
                 eS     20 58.00
DIW     7.45 219 eP     19 35.70  -0.7
TCW     7.58 216 P      19 37.40  -0.6
THZ     8.68 218 eP     19 51.40  -0.3
                 eS     21 35.40
MQZ    10.29 212 eP     20 11.50  -0.3
                 eS     22 09.80
WR2    42.92 278 eP     25 21.60  -0.3
        0.6s     3.50nm          3.8mb
WRA    42.94 278 P      25 22.50   0.4
        0.7s     1.20nm          3.3mb X
     S.D. = 0.9  on  23 of  24 obs.
-----------------------------------
?  OCT  12, 1993  05h 21m 45.37± 2.23s
   44.596 N ±11.9km    6.891 E ±16.6km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                            (538)
     ML 2.6 (GEN).

PZZ     0.18 121 P      21 49.41   0.0
                 S      21 52.53
RRL     0.33 347 P      21 52.43   0.1
                 S      21 57.74
BHB     0.36  47 P      21 52.98   0.2
                 S      21 58.66
RSP     0.61  25 P      21 57.56  -0.3
     S.D. = 0.3  on   4 of   4 obs.
-----------------------------------
?  OCT  12, 1993  05h 45m 09.84± 2.33s
   14.088 N ±29.4km   93.142 W ±14.0km
   DEPTH =  33.0km  (normal)
   3.6mb (  1 obs.)
 NEAR COAST OF CHIAPAS, MEXICO     ( 69)
TPX     1.18  46 (P)    45 30.00  -0.1
BVA     2.49  76 iPc    45 49.58   0.3
IXG     2.61  88 iP     45 49.64  -1.1
                 iS     46 30.11
SCX     2.68  10 eP     45 54.50   3.0X
                 (S)    46 24.50
YUP     3.24  88 iPc    46 00.59   0.8
OXX     4.56 311 (P)    46 31.50  13.0X
PPM     7.22 314 (P)    46 59.00   2.7X
LTX    18.03 329 (P)    49 19.39  -0.3
ALQ    23.99 332 eP     50 23.00   0.3
        1.0s     2.13nm          3.6mb
     S.D. = 0.9  on   6 of   9 obs.
-----------------------------------
?  OCT  12, 1993  09h 20m 07.26± 0.99s
   40.645 N ±13.4km   29.403 E ± 6.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
     ML 2.6 (ISK).

HRT     0.27  49 iPg    20 12.90   0.0
EYL     0.58  98 iPg    20 19.10   0.0
CTT     0.89 305 iPg    20 24.40   0.0
                 iSg    20 36.90
EDC     1.21 256 ePn    20 29.80   0.0
     S.D. = 0.0  on   4 of   4 obs.
-----------------------------------
?  OCT  12, 1993  09h 21m 43.47± 1.08s
   39.162 N ± 7.0km   27.432 E ±14.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
     ML 2.8 (ISK).

IZM     0.77 190 ePg    21 58.60   0.0
                 eSg    22 12.90
EZN     1.08 308 ePn    22 03.80   0.0
EDC     1.23  16 ePn    22 06.30   0.0
KGT     1.29 356 iPn    22 07.40   0.0
     S.D. = 0.0  on   4 of   4 obs.
-----------------------------------
   OCT  12, 1993  09h 35m 37.33± 0.99s
   40.440 N ± 9.0km   21.833 E ± 6.2km
   DEPTH =   5.0km  (geophysicist)
 GREECE                            (364)
     ML 3.1 (THE).

FNA     0.49 315 iPg    35 47.54   0.4
                 eSg    35 55.30
LIT     0.61 124 ePg    35 48.98  -0.5
                 eSg    35 57.80
GRG     0.67  40 iPg    35 50.17  -0.6
OHR     1.03 311 iP     35 57.00  -0.3
KNT     1.08  48 ePg    35 57.94  -0.2
SOH     1.22  71 ePb    36 01.46   1.0
                 eSb    36 18.20
SKO     1.56 349 eP     36 01.00  -4.8X
OUR     1.64  93 ePb    36 07.26   0.3
     S.D. = 0.7  on   7 of   8 obs.
-----------------------------------
&  OCT  12, 1993  10h 04m 40.75s
   38.830 N          122.810 W
   DEPTH =   0.9km
 NORTHERN CALIFORNIA               ( 36)
     <GM-P>. MD 3.1 (GM).

NTYM    0.45 165 eP     04 49.97   0.1
ZSP     0.98 154 iP     04 59.84  -0.4
HMR     1.04 130 eP     05 00.73  -0.5
BKS     1.05 154 eP     05 01.13  -0.3
                 eS     05 15.60
ORV     1.25  54 eP     05 03.37  -1.4
JEGM    1.34 168 eP     05 05.14  -1.2
PCC     1.37 166 iP     05 04.72  -2.1
STAN    1.51 160 eP     05 07.00  -2.0
MHC     1.75 148 eP     05 11.30  -1.2
WDC     1.76   7 eP     05 13.34   0.8
ARN     1.79 145 eP     05 12.09  -1.0
COE     1.81 150 eP     05 11.69  -1.6
KMPM    1.88 328 eP     05 19.37   5.0
LMEM    1.96  29 (P)    05 16.19   0.6
CMB     2.06 112 eP     05 15.56  -1.5
FHC     2.17 336 (P)    05 23.58   5.1
SAO     2.33 152 eP     05 19.28  -1.6
LBFM    2.61  15 eP     05 27.61   2.6
FRI     3.06 126 iP     05 31.01  -0.2
MMPM    3.22 111 eP     05 31.83  -1.9
MEMM    3.26 110 eP     05 34.15   0.1
```

12d 10h

```
BONR     3.65 102 eP     05 40.06    0.2
MTUM     3.66 112 eP     05 38.82   -1.1
TNP      4.45  98 (P)    05 49.25   -2.0
       24 obs. associated
-------------------------------------
?  OCT  12, 1993  10h 22m 10.23± 1.34s
   39.129 N ±10.7km   27.600 E ±39.5km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.7 (ISK).

IZM      0.78 200 ePg    22 25.40    0.0
                  eSg    22 38.40
EDC      1.23   9 ePn    22 33.30    0.2
BNT      1.25  11 ePn    22 33.30   -0.1
KGT      1.34 350 iPn    22 34.90    0.0
     S.D. = 0.2  on   4 of   4 obs.
-------------------------------------
%  OCT  12, 1993  10h 38m 37.85± 1.27s
   39.085 N ± 7.8km   27.712 E ±15.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.7 (ISK).

IZM      0.77 207 ePg    38 52.90    0.0
                  eSg    39 05.90
EDC      1.27   5 ePn    39 01.30   -0.1
BNT      1.28   7 ePn    39 01.30   -0.3
EZN      1.30 305 iPn    39 01.80   -0.2
KGT      1.40 347 iPn    39 03.90    0.5
     S.D. = 0.4  on   5 of   5 obs.
-------------------------------------
?  OCT  12, 1993  10h 41m 47.67± 0.92s
   46.516 N ±25.0km  152.773 E ±20.4km
   DEPTH =  33.0km  (normal)
   3.8mb (  2 obs.)
 KURIL ISLANDS                     (221)

KUSJ     6.68 242 eP     43 25.20   -0.7
                  eS     44 36.50
HOOJ     7.94 242 eP     43 45.00    1.4
                  eS     45 10.50
FBA     36.49  38 (P)    48 51.00   -0.2
PV09    68.16  57 e(P)   52 48.00    1.1
                  pP     52 58.80   35kmX
WRA     68.22 199 P      52 46.00   -0.9
        0.6s     0.30nm          3.6mb
NB2     68.37 341 P      52 46.90   -0.7
        0.4s     0.60nm          4.0mb
ALQ     72.16  58 eP     53 22.70   11.5X
     S.D. = 1.3  on   6 of   7 obs.
-------------------------------------
%  OCT  12, 1993  10h 57m 38.14± 0.83s
   39.083 N ± 6.6km   27.550 E ± 9.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.7 (ISK).

IZM      0.72 198 ePg    57 52.20   -0.1
                  eSg    58 03.90
EZN      1.20 308 iPn    58 00.80    0.3
EDC      1.29  11 ePn    58 01.30   -0.7
BNT      1.30  13 ePn    58 02.40    0.1
KGT      1.38 352 iPn    58 03.40    0.0
EYL      2.49  53 ePn    58 19.90    0.4
     S.D. = 0.5  on   6 of   6 obs.
-------------------------------------
&  OCT  12, 1993  10h 58m 13.48s
   63.359 N          148.757 W
   DEPTH =  95.1km
 CENTRAL ALASKA                    (  1)
      <AEIC>.

RND      0.06 318 iPc    58 26.92    1.6
                  eS     58 37.11
MCK      0.38 348 ePd    58 28.00   -0.2
                  eS     58 38.81
HUR      0.55 227 eP     58 28.77   -0.6
                  eS     58 40.38
DHY      0.69 114 iPc    58 30.36   -0.4
                  eS     58 43.47
TRF      0.69 278 iPc    58 30.79   -0.1
BWN      0.87 339 iPd    58 32.04   -0.4
                  eS     58 45.66
KTH      0.99 282 iPc    58 33.45   -0.4
                  eS     58 48.43
WRH      1.16  14 iPd    58 35.21   -0.4
                  eS     58 51.30
CUT      1.18 217 iPd    58 35.34   -0.6
NEA      1.23 354 iPd    58 36.11   -0.4
                  eS     58 52.37
HDA      1.32  36 iPd    58 37.51   -0.1
                  eS     58 55.22
THY      1.35  86 eP     58 38.82    0.7
                  eS     58 57.18
CCB      1.36  18 iPd    58 37.62   -0.5
                  eS     58 55.41
DJE      1.53  63 iPd    58 39.82   -0.4
                  eS     58 59.53
PAX      1.54 103 ePc    58 40.51    0.0
                  eS     59 00.62
SML      1.57 173 iPc    58 40.41   -0.4
GHO      1.59 183 eP     58 40.94   -0.2
                  eS     59 01.50
FBA      1.60  15 iPd    58 40.56   -0.6
                  eS     59 00.56
MDM      1.62   8 iPd    58 41.18   -0.3
ILB      1.64  29 iPd    58 41.30   -0.4
                  eS     59 01.61
IL1      1.64  29 iPd    58 41.30   -0.4
SCM      1.67 156 iPc    58 41.57   -0.5
SDG      1.69 118 iPc    58 42.06   -0.3
TOA      1.73 135 P      58 42.70   -0.2
GLM      1.74  20 iPd    58 42.55   -0.5
PLRM     1.78 186 eP     58 42.74   -0.7
PMR      1.78 186 ePd    58 42.30   -1.2
PWA      1.79 197 P      58 44.00    0.4
SKT      1.88 224 iPd    58 44.11   -0.8
                  eS     59 07.99
MLY      1.89 334 iPc    58 44.68   -0.3
                  eS     59 07.38
KNK      1.96 176 eP     58 45.43   -0.4
TZL      2.03 129 eP     58 46.55   -0.2
SUA      2.12 207 eP     58 47.91   -0.1
DOT      2.13  80 eP     58 47.19   -0.9
PMS      2.16 190 P      58 48.00   -0.5
CFI      2.23 168 eP     58 48.91   -0.5
KLU      2.29 144 eP     58 49.08   -1.3
VLZ      2.51 152 eP     58 51.26   -1.9
                  eS     59 20.77
PWL      2.52 175 eP     58 52.78   -0.6
NCG      2.52 220 eP     58 52.83   -0.7
VZW      2.53 155 eP     58 51.76   -1.8
CGLM     2.56 218 eP     58 53.61   -0.3
PRP      2.58  31 iPd    58 53.99   -0.4
                  eS     59 23.90
TMW      2.60  88 eP     58 54.27   -0.2
GLI      2.61 162 P      58 52.00   -2.6
CRP      2.63 219 eP     58 54.40   -0.6
CP2      2.66 219 eP     58 54.61   -0.8
CKN      2.67 218 eP     58 56.40    0.9
SPU      2.67 217 eP     58 55.08   -0.4
CKT      2.70 218 eP     58 56.03    0.1
BGL      2.70 221 eP     58 56.29    0.3
CKL      2.74 219 eP     58 56.11   -0.4
BKG      2.82 217 eP     58 57.54    0.0
FID      2.83 157 eP     58 56.25   -1.3
NKA      2.87 205 eP     59 00.83    2.7
MPA      2.89 186 eP     58 57.53   -0.9
SLKM     2.94 194 eP     58 58.44   -0.7
GLB      3.00 128 eP     58 59.05   -0.9
HIN      3.16 159 eP     59 00.42   -1.7
CVA      3.16 152 eP     59 00.61   -1.4
BC3      3.17  92 eP     59 00.76   -1.5
RDT      3.28 213 eP     59 03.61   -0.2
SEW      3.28 186 eP     59 03.09   -0.7
TTA      3.32 266 eP     59 02.52   -1.9
SGAM     3.32 148 eP     59 02.22   -2.1
DFR      3.34 215 eP     59 04.61    0.0
LTI      3.36 172 eP     59 04.16   -0.6
IM3      3.40 323 eP     59 04.54   -0.8
NCT      3.43 217 eP     59 06.50    0.6
REF      3.43 215 eP     59 06.35    0.4
IMA      3.44 324 eP     59 05.02   -1.1
RDW      3.46 215 eP     59 07.31    0.9
RSO      3.47 215 P      59 08.00    1.5
RS2      3.47 215 eP     59 07.22    0.7
RED      3.51 215 eP     59 07.15    0.2
RAGM     3.55 145 eP     59 05.88   -1.7
HMT      3.71 143 eP     59 07.72   -1.9
CRQM     3.72 132 eP     59 08.02   -1.9
BALM     3.80 125 eP     59 09.11   -1.9
TGL      3.82 130 eP     59 09.02   -2.3
ILIM     3.85 213 eP     59 10.84   -0.8
INE      3.89 214 eP     59 11.73   -0.6
INW      3.90 214 P      59 14.50    2.1
SVW      3.93 238 P      59 11.60   -1.1
HOM      3.96 202 eP     59 12.33   -0.8
KAIM     4.02 147 P      59 09.30   -4.6
CNPM     4.03 198 eP     59 12.76   -1.3
CTGM     4.23 121 eP     59 16.79   -0.2
BM3      4.43  21 iPd    59 18.51   -1.1
YAH      4.48 129 eP     59 18.17   -2.3
CDD      5.03 210 eP     59 26.76   -1.2
       91 obs. associated
-------------------------------------
&  OCT  12, 1993  12h 02m 12.19s
   61.429 N          149.906 W
   DEPTH =  37.2km
 SOUTHERN ALASKA                   (  2)
      <AEIC>. ML 2.9 (AEIC).

PWA      0.22   3 P      02 19.20   -0.2
PMS      0.25 138 P      02 19.70    0.0
SUA      0.40 275 iPc    02 21.34   -0.3
                  eS     02 29.18
PLRM     0.41  66 iPd    02 20.81   -0.7
                  eS     02 28.20
PMR      0.41  66 iPd    02 20.49   -1.0
                  eS     02 27.68
GHO      0.58  53 iPd    02 23.27   -0.8
                  eS     02 32.93
KNK      0.70  91 iPc    02 24.89   -0.7
                  eS     02 35.39
SML      0.84  62 iPd    02 26.64   -1.1
                  eS     02 38.84
SLKM     0.94 190 iPd    02 27.68   -1.4
                  eS     02 41.08
NKA      0.94 224 eP     02 29.84    0.8
SKT      0.95 306 iPc    02 28.14   -1.1
                  eS     02 41.55
PWL      0.95 126 eP     02 28.41   -0.8
                  eS     02 42.17
MPA      0.98 164 eP     02 28.48   -1.1
                  eS     02 42.26
CUT      0.99 350 ePd    02 28.85   -0.9
CGLM     1.02 264 eP     02 29.49   -0.8
CFI      1.06 103 iPc    02 30.03   -0.7
                  eS     02 44.95
SPU      1.07 257 iPc    02 29.88   -1.0
                  eS     02 44.44
NCG      1.08 270 iPc    02 30.47   -0.7
                  eS     02 45.52
CRP      1.10 262 iPc    02 30.02   -1.4
                  eS     02 44.90
CKN      1.12 260 iPc    02 31.15   -0.5
CKT      1.13 259 iPc    02 31.05   -0.8
                  eS     02 46.22
CP2      1.14 263 iPc    02 31.05   -1.0
BKG      1.19 253 iPc    02 31.79   -1.0
                  eS     02 48.18
CKL      1.20 260 iPc    02 31.96   -0.8
BGL      1.21 263 iPc    02 32.19   -0.8
SCM      1.30  71 iPc    02 33.44   -0.8
                  eS     02 50.85
SEW      1.35 170 eP     02 33.40   -1.4
RDT      1.49 236 ePd    02 35.70   -1.2
                  eS     02 55.09
HUR      1.56   5 eP     02 37.53   -0.4
                  eS     02 56.75
DFR      1.59 239 eP     02 37.29   -1.2
REF      1.66 237 eP     02 38.27   -1.3
                  eS     02 59.52
VZW      1.66 101 iPc    02 38.08   -1.4
RSO      1.70 236 eP     02 38.96   -1.1
RS2      1.70 236 eP     02 39.00   -1.1
RDW      1.71 237 eP     02 39.21   -1.0
NCT      1.71 241 eP     02 39.14   -1.1
LTI      1.72 143 iPc    02 37.61   -2.6
RED      1.73 235 eP     02 39.21   -1.2
                  eS     03 00.98
VLZ      1.75  98 ePc    02 39.06   -1.6
                  eS     03 01.72
FID      1.80 111 eP     02 39.29   -2.1
MTU      1.82 142 eP     02 39.76   -1.9
TOA      1.90  67 P      02 42.50   -0.4
KLU      1.91  86 iPc    02 41.43   -1.6
HIN      1.96 120 eP     02 41.57   -2.1
HOM      1.97 207 eP     02 42.63   -1.2
CNPM     2.02 200 eP     02 42.63   -1.9
ILIM     2.02 229 eP     02 43.11   -1.4
```

```
DHY     2.03  35 eP    02 44.14  -0.7
TRF     2.04 355 eP    02 44.15  -0.7
RND     2.04  13 eP    02 44.33  -0.6
INE     2.07 230 eP    02 44.20  -1.2
INW     2.09 231 eP    02 44.59  -1.0
KTH     2.18 348 eP    02 46.64  -0.3
CVA     2.21 112 eP    02 45.34  -1.8
TZL     2.22  72 eP    02 46.77  -0.6
SDG     2.34  60 eP    02 49.17   0.1
MCK     2.36  11 eP    02 49.38   0.1
OPT     2.42 224 eP    02 50.40   0.1
SGAM    2.47 110 eP    02 48.38  -2.6
PAX     2.59  51 eP    02 53.57   0.8
AUW     2.72 222 P     02 55.40   1.0
BWN     2.76   4 eP    02 54.58  -0.5
RAGM    2.76 110 eP    02 53.76  -1.3
SVW     2.78 266 P     02 53.90  -1.5
GLB     2.93  87 eP    02 55.36  -2.2
HMT     2.97 109 eP    02 55.13  -2.9
CDD     3.13 218 eP    02 58.55  -1.7
WRH     3.16  14 eP    03 00.37  -0.4
TTA     3.23 300 P     02 59.70  -2.1
DJE     3.25  35 eP    03 01.34  -0.7
HDA     3.28  23 eP    03 01.65  -0.7
CRQM    3.35  99 eP    03 01.30  -2.3
CCB     3.37  16 eP    03 02.77  -0.8
TGL     3.50  98 eP    03 03.70  -2.0
DOT     3.51  48 P     03 07.40   1.8
FBA     3.61  14 eP    03 05.33  -1.8
MDM     3.62  11 eP    03 05.99  -1.3
IL1     3.63  21 eP    03 06.46  -0.9
ILB     3.62  21 eP    03 07.77   0.4
MLY     3.64 354 eP    03 06.35  -1.2
BALM    3.68  93 eP    03 05.34  -2.8
YAH     4.13 101 eP    03 11.74  -3.0
BC3     4.14  63 eP    03 12.93  -1.7
CTGM    4.17  93 P     03 14.80  -0.5
IM3     4.88 341 eP    03 22.67  -2.4
        85 obs. associated
-----------------------------------
%  OCT  12, 1993  12h 14m 35.10± 1.25s
   39.141 N ± 7.4km   27.713 E ±15.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.7 (ISK).

IZM     0.82 206 ePg   14 51.00   0.0
                eSg   15 04.00
EDC     1.21   5 ePn   14 57.80   0.2
BNT     1.22   7 ePn   14 58.00   0.1
EZN     1.27 303 iPn   14 58.90   0.2
KGT     1.35 347 ePn   14 59.40  -0.5
     S.D. = 0.4  on   5 of   5 obs.
-----------------------------------
&  OCT  12, 1993  12h 39m 55.57s
   59.561 N          152.753 W
   DEPTH =  83.1km
 SOUTHERN ALASKA                   (  2)
      <AEIC>.

OPT     0.26 291 iP    40 07.56  -0.6
                eS    40 16.22
AUE     0.38 238 iP    40 08.40  -0.4
                eS    40 17.56
AUL     0.39 243 eP    40 08.56  -0.4
AUP     0.39 240 eP    40 08.39  -0.7
AGU     0.40 240 eP    40 09.20   0.0
                eS    40 17.44
AUH     0.40 241 eP    40 09.60   0.5
AUI     0.41 237 eP    40 08.50  -0.6
                eS    40 18.01
AUW     0.41 243 eP    40 08.79  -0.3
INE     0.53 343 eP    40 09.20  -1.0
ILIM    0.53 349 eP    40 09.12  -1.0
XLV     0.54 101 iP    40 09.55  -0.6
                eS    40 20.54
INW     0.54 339 eP    40 09.53  -0.8
HOM     0.57  80 eP    40 10.22  -0.2
CNPM    0.77  92 iP    40 11.83  -0.7
                eS    40 24.11
CDD     0.78 216 iP    40 11.60  -1.0
                eS    40 24.34
RED     0.86 359 iP    40 12.67  -0.9
                eS    40 26.18
RSO     0.90 360 iP    40 13.40  -0.8
RS2     0.91 360 iP    40 13.38  -0.8
RDW     0.93 358 P     40 13.55  -0.8
REF     0.93   2 iP    40 13.65  -0.8
                eS    40 27.79
NCT     1.01 355 iP    40 14.38  -0.9
                eS    40 29.36
RDT     1.03  10 iP    40 14.58  -0.9
DFR     1.04   2 iP    40 14.80  -0.8
NKA     1.41  32 eP    40 21.23   1.1
BKG     1.53   9 eP    40 21.18  -0.8
SLKM    1.59  52 eP    40 22.04  -0.5
                eS    40 41.97
CKL     1.65   7 iP    40 22.85  -0.7
SPU     1.66  12 iP    40 22.83  -0.8
CKT     1.67   9 iP    40 22.94  -0.8
CKN     1.69   9 eP    40 23.46  -0.5
BGL     1.72   6 iP    40 23.75  -0.7
CP2     1.73   8 eP    40 23.78  -0.9
CRP     1.74  10 iPd   40 23.53  -1.2
                eS    40 48.57
SEW     1.75  71 eP    40 25.04   0.3
CGLM    1.79  12 P     40 24.80  -0.6
KDC     1.82 176 eP    40 23.42  -2.2
NCG     1.87   9 iP    40 25.81  -0.7
MPA     1.94  60 iP    40 26.68  -0.6
SVW     2.11 319 P     40 28.60  -1.0
SUA     2.15  27 iP    40 29.99  -0.3
PMS     2.32  42 P     40 31.60  -0.8
SKT     2.50  13 eP    40 33.77  -1.2
LTI     2.52  77 eP    40 34.49  -0.7
PWA     2.53  33 P     40 34.50  -0.8
PWL     2.56  58 eP    40 33.91  -1.9
MTU     2.62  78 eP    40 35.24  -1.3
KNIM    2.64  70 P     40 33.00  -3.9
PLRM    2.71  40 eP    40 36.44  -1.4
PMR     2.71  40 eP    40 35.10  -2.7
KNK     2.82  47 eP    40 37.55  -1.9
GHO     2.91  39 eP    40 39.36  -1.3
CFI     2.96  55 eP    40 40.14  -1.1
CUT     3.10  22 eP    40 42.07  -1.1
SML     3.13  42 eP    40 42.21  -1.5
HIN     3.25  72 eP    40 43.46  -1.9
MID     3.27  90 P     40 44.00  -1.6
FID     3.36  66 eP    40 43.47  -3.3
VZW     3.43  61 eP    40 45.85  -2.0
SCM     3.51  47 eP    40 47.24  -1.7
KLU     3.89  57 eP    40 51.37  -2.9
BALM    5.38  70 (P)   41 12.44  -2.7
        61 obs. associated
-----------------------------------
&  OCT  12, 1993  12h 41m 35.55s
   58.865 N          153.438 W
   DEPTH =  78.9km
   3.6mb (  1 obs.)
 KODIAK ISLAND REGION              ( 13)
      <AEIC>.

CDD     0.12 301 iP    41 46.35   0.7
                eS    41 55.29
AUI     0.47   1 eP    41 48.43  -0.7
                eS    41 58.27
AGU     0.50   0 eP    41 49.05  -0.4
AUE     0.50   4 eP    41 48.88  -0.4
                eS    41 58.87
AUP     0.50   1 eP    41 48.66  -0.8
AUH     0.50 360 eP    41 48.90  -0.6
AUW     0.51 358 iP    41 48.94  -0.5
AUL     0.52   0 eP    41 49.54   0.0
OPT     0.80   8 iP    41 51.81  -0.6
                eS    42 04.15
PDB     1.00 338 eP    41 53.99  -0.8
                eS    42 07.54
XLV     1.06  55 eP    41 54.78  -0.8
                eS    42 09.36
INE     1.21   9 eP    41 56.45  -1.2
                eS    42 11.74
INW     1.22   7 iP    41 56.46  -1.2
                eS    42 12.18
HOM     1.22  48 eP    41 56.95  -0.6
KDC     1.23 156 eP    41 56.58  -1.0
                eS    42 12.39
ILIM    1.24  11 iP    41 56.60  -1.3
                eS    42 12.28
CNPM    1.31  59 eP    41 58.05  -0.7
                eS    42 14.42
BRLK    1.59  54 eP    42 00.26  -2.2
RED     1.60  12 iP    42 01.27  -1.3
RS2     1.64  12 iP    42 02.11  -1.2
RSO     1.64  12 eP    42 02.10  -1.2
RDW     1.65  11 iP    42 02.38  -1.1
REF     1.67  13 iP    42 02.45  -1.3
                eS    42 22.75
NCT     1.72   8 iP    42 03.22  -1.1
DFR     1.77  12 iP    42 03.85  -1.1
RDT     1.79  17 iP    42 03.76  -1.5
                eS    42 25.15
NKA     2.19  30 eP    42 10.97   0.5
BKG     2.29  14 eP    42 11.05  -1.0
SLKM    2.32  43 eP    42 10.64  -1.7
SEW     2.38  57 eP    42 10.95  -2.2
CKL     2.40  13 eP    42 12.57  -1.1
CKT     2.42  14 iP    42 12.62  -1.3
SPU     2.43  16 iP    42 12.55  -1.3
CKN     2.45  14 eP    42 13.67  -0.5
BGL     2.46  12 eP    42 13.41  -1.0
CP2     2.48  13 eP    42 13.44  -1.3
CRP     2.49  14 eP    42 12.90  -2.0
SVW     2.50 335 eP    42 12.54  -2.4
CGLM    2.55  16 eP    42 14.50  -1.2
NCG     2.63  14 eP    42 15.54  -1.2
MPA     2.63  50 eP    42 15.01  -1.6
SUA     2.93  26 eP    42 19.64  -1.3
                eS    42 53.62
PMS     3.08  38 iPc   42 21.30  -1.6
LTI     3.09  65 eP    42 20.74  -2.2
MTU     3.16  67 eP    42 21.74  -2.3
PWL     3.26  50 eP    42 22.68  -2.7
SKT     3.27  16 eP    42 24.35  -1.1
PWA     3.31  31 P     42 24.70  -1.3
PLRM    3.48  36 eP    42 25.56  -2.8
PMR     3.48  36 eP    42 25.20  -3.2
KNK     3.57  42 eP    42 27.09  -2.6
                eS    43 05.47
CFI     3.67  48 eP    42 28.12  -3.0
GHO     3.68  36 eP    42 28.92  -2.4
HIN     3.84  63 eP    42 30.97  -2.5
SML     3.89  38 eP    42 31.44  -2.8
FID     3.99  59 eP    42 31.60  -4.0
VZW     4.10  55 eP    42 33.72  -3.4
VLZ     4.23  54 eP    42 35.75  -3.1
CVA     4.24  63 eP    42 35.95  -3.1
SCM     4.25  43 eP    42 36.55  -2.8
TTA     4.27 344 eP    42 37.69  -1.9
SGAM    4.48  65 eP    42 39.50  -3.0
HUR     4.52  23 eP    42 41.11  -1.9
KLU     4.59  52 eP    42 40.93  -3.1
RAGM    4.70  67 eP    42 42.70  -2.9
TOA     4.84  45 P     42 45.00  -2.6
TRF     4.85  17 eP    42 45.68  -2.0
KTH     4.86  13 eP    42 45.38  -2.4
HMT     4.89  69 eP    42 45.70  -2.5
RND     5.07  24 eP    42 48.17  -2.5
TZL     5.09  48 eP    42 49.24  -1.7
DHY     5.15  32 eP    42 49.06  -2.9
SDG     5.34  43 eP    42 52.06  -2.4
MCK     5.34  22 eP    42 52.74  -1.8
GLB     5.46  58 eP    42 53.10  -3.0
CRQM    5.53  66 eP    42 54.01  -3.3
BWN     5.65  18 eP    42 56.41  -2.4
PAX     5.66  40 eP    42 56.02  -3.0
TGL     5.68  66 eP    42 56.16  -3.1
BALM    5.98  64 eP    42 59.83  -3.6
NEA     6.09  18 eP    43 01.41  -3.5
WRH     6.17  22 eP    43 02.67  -3.3
MLY     6.32  10 eP    43 05.48  -2.5
HDA     6.36  26 eP    43 05.29  -3.2
CCB     6.39  22 eP    43 05.17  -3.7
CTGM    6.44  66 eP    43 07.64  -2.2
MDM     6.59  20 eP    43 08.37  -3.4
FBA     6.62  21 eP    43 08.20  -3.9
IL1     6.69  25 eP    43 09.32  -3.7
ILB     6.69  25 eP    43 09.32  -3.7
BC3     7.06  48 eP    43 15.62  -2.6
IM3     7.15 359 eP    43 17.44  -2.0
IMA     7.23 359 (P)   43 18.16  -2.5
PRP     7.63  26 eP    43 22.76  -3.4
BM3     9.46  21 eP    43 46.38  -4.7
YKA    19.15  63 eP    45 51.70  -3.2
        0.6s     2.10nm          3.6mb
        96 obs. associated
-----------------------------------
?  OCT  12, 1993  12h 46m 08.47± 0.95s
   42.766 N ± 8.6km   23.767 E ±13.5km
   DEPTH =  10.0km  (geophysicist)
 BULGARIA                          (359)
      ML 3.2 (THE).
```

12d 12h

SRS	1.65	185	ePb	46 37.92	0.3
			eSb	47 01.48	
KNT	1.73	202	ePb	46 38.14	-0.6
			eSb	47 03.84	
SOH	1.97	189	ePn	46 41.92	-0.3
			eSn	47 10.30	
GRG	2.08	210	ePn	46 44.50	0.7
OUR	2.43	176	ePn	46 48.70	-0.2
ALN	2.53	137	ePn	46 50.36	0.2
			eSn	47 23.96	
MLR	3.14	29	eP	46 59.00	-0.1

S.D. = 0.5 on 7 of 7 obs.

? OCT 12, 1993 12h 57m 15.30± 1.04s
26.864 S ±10.2km 26.670 E ±11.4km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 3.5 (PRE).

PRY	0.72	95	eP	57 29.60	-0.1
			S	57 37.10	
SEK	1.68	150	eP	57 46.50	0.8
SLR	1.83	53	iPd	57 48.30	0.5
			S	58 09.60	
BLF	2.28	191	iPd	57 54.20	-0.1
			S	58 26.50	
FRS	3.11	202	iPc	58 04.40	-1.5
			S	58 40.20	
BFT	3.25	70	eP	58 08.50	0.4
			S	58 49.00	
HVD	3.87	195	eP	58 15.00	-1.9
			S	58 55.00	
PKA	4.44	230	eP	58 46.30	21.3X
			S	59 26.20	
GRM	6.43	181	eP	59 01.00	8.0X
			S	00 14.00	
POF	6.44	246	e(P)	59 04.00	10.8X
			S	00 17.00	
BUL	6.92	15	ePg	58 59.10	-1.0
			iSg	00 50.20	
BUL	6.92	15	ePn	58 52.10	-8.0X
			eSn	00 14.40	
			iSg	00 50.20	
SUR	7.50	221	eP	59 11.00	2.9
			S	00 49.00	
CER	9.09	223	e(P)	59 11.00	-19.2X
			S	00 52.00	
WIN	9.69	294	e(P)	59 29.50	-9.2X
			S	02 15.00	

S.D. = 1.6 on 9 of 15 obs.

& OCT 12, 1993 12h 59m 52.83s
61.048 N 152.835 W
DEPTH = 159.8km
SOUTHERN ALASKA (2)
<AEIC>.

BKG	0.28	85	eP	00 13.73	0.6
CKL	0.28	58	eP	00 13.99	0.8
BGL	0.31	45	iPc	00 14.04	0.8
CKT	0.34	63	eP	00 14.10	0.7
CP2	0.36	53	eP	00 14.48	0.9
CKN	0.36	61	eP	00 14.10	0.7
CRP	0.40	56	eP	00 13.48	-0.2
SPU	0.40	70	eP	00 13.98	0.4
DFR	0.46	171	eP	00 14.30	0.4
			eS	00 31.52	
CGLM	0.48	57	eP	00 15.15	-0.4
NCG	0.48	42	eP	00 14.65	-1.0
NCT	0.49	185	iPd	00 14.68	-1.0
			eS	00 31.37	
RDT	0.52	156	ePd	00 14.18	-1.6
REF	0.56	173	iPd	00 15.14	-1.0
			eS	00 32.15	
RDW	0.57	179	iPd	00 15.33	-0.8
			eS	00 32.46	
RS2	0.59	176	iPd	00 15.49	-0.8
			eS	00 33.15	
RSO	0.59	176	eP	00 15.43	-0.8
RED	0.63	177	iPd	00 15.14	-1.2
NKA	0.84	111	eP	00 18.53	1.0
ILIM	0.97	184	iPd	00 17.79	-0.9
			eS	00 36.59	
INW	0.99	189	ePd	00 18.10	-0.8
INE	1.00	187	iPd	00 18.06	-0.9
			eS	00 37.55	
SUA	1.09	67	eP	00 18.61	-1.1
			eS	00 37.65	
SKT	1.13	33	iPd	00 18.58	-1.3
			eS	00 38.30	
SVW	1.36	274	eP	00 20.40	-1.7
			eS	00 41.23	
SLKM	1.39	112	ePc	00 20.94	-1.5
			eS	00 42.18	
OPT	1.41	188	eP	00 22.12	-0.5
PDB	1.43	209	iPd	00 22.10	-0.7
HOM	1.52	156	eP	00 22.98	-0.6
PWA	1.55	66	P	00 22.10	-1.8
PMS	1.60	81	P	00 22.80	-1.8
AUL	1.70	190	P	00 27.20	1.7
AUW	1.71	191	P	00 25.60	-0.1
AUE	1.72	189	P	00 26.00	0.3
AUP	1.72	190	P	00 25.80	0.0
CNPM	1.72	152	eP	00 25.05	-0.8
			eS	00 48.63	
MPA	1.79	107	eP	00 23.64	-2.9
CUT	1.83	41	eP	00 25.17	-1.8
			eS	00 50.47	
PLRM	1.87	71	eP	00 24.69	-2.7
PMR	1.87	71	eP	00 24.11	-3.3
SEW	1.92	118	eP	00 26.45	-1.5
			eS	00 52.32	
GHO	2.02	67	eP	00 26.73	-2.5
			eS	00 53.79	
KNK	2.15	78	eP	00 28.36	-2.3
CDD	2.16	191	eP	00 30.26	-0.6
PWL	2.20	93	eP	00 28.80	-2.5
			eS	00 57.20	
SML	2.29	69	eP	00 29.76	-2.7
			eS	00 59.68	
TTA	2.41	323	P	00 32.90	-1.0
CFI	2.46	85	eP	00 32.32	-2.1
LTI	2.66	110	eP	00 34.74	-2.1
KTH	2.67	19	eP	00 35.33	-1.7
TRF	2.69	25	eP	00 35.76	-1.6
SCM	2.76	71	eP	00 35.75	-2.4
MTU	2.77	110	eP	00 36.58	-1.7
RND	3.01	36	eP	00 39.56	-1.8
FID	3.12	93	eP	00 39.53	-3.1
			eS	01 16.72	
VLZ	3.16	86	eP	00 40.92	-2.1
			eS	01 19.03	
HIN	3.18	99	eP	00 41.89	-1.5
MCK	3.25	32	P	00 44.00	-0.3
DHY	3.28	49	eP	00 42.61	-2.2
			eS	01 22.17	
TOA	3.36	69	P	00 44.40	-1.3
KLU	3.37	79	eP	00 43.52	-2.4
			eS	01 23.52	
BWN	3.50	25	P	00 46.20	-1.3
CVA	3.51	95	iPc	00 46.17	-1.4
MID	3.62	114	P	00 48.00	-1.0
TZL	3.69	71	eP	00 48.66	-1.2
SDG	3.77	64	eP	00 50.09	-0.9
SGAM	3.78	95	eP	00 49.52	-1.6
PAX	3.97	58	eP	00 52.28	-1.4
RAGM	4.06	96	eP	00 53.28	-1.6
WRH	4.07	30	eP	00 52.72	-2.1
MLY	4.11	13	P	00 53.00	-2.5
HMT	4.28	96	eP	00 56.23	-1.4
CCB	4.28	30	eP	00 55.39	-2.3
HDA	4.32	36	eP	00 56.37	-1.8
GLB	4.38	81	eP	00 57.20	-1.8
MDM	4.45	26	eP	00 57.53	-2.4
DJE	4.46	45	eP	00 58.82	-1.2
FBA	4.50	29	P	00 58.70	-1.8
IL1	4.62	33	eP	00 59.94	-2.2
ILB	4.62	33	eP	01 00.08	-2.0
GLM	4.67	30	eP	01 00.78	-2.0
CRQM	4.74	89	eP	01 01.44	-2.5
TGL	4.89	89	eP	01 05.07	-0.8
IM3	4.97	356	iPd	01 04.88	-1.9
BALM	5.10	86	eP	01 07.52	-1.1
YAH	5.49	92	eP	01 13.11	-0.8
PRP	5.57	33	eP	01 12.48	-2.3
BC3	5.58	64	eP	01 13.24	-1.6
BM3	7.33	26	eP	01 34.42	-3.9

89 obs. associated

& OCT 12, 1993 13h 00m 18.72s
60.687 N 149.483 W
DEPTH = 15.0km
KENAI PENINSULA, ALASKA (14)
<AEIC>. ML 2.5 (AEIC).

SLKM	0.41	244	iPc	00 27.17	0.1
			iS	00 33.00	
PMS	0.56	356	eP	00 29.18	-0.6
			eS	00 36.65	
KNK	0.88	34	eP	00 34.02	-1.2
			eS	00 47.00	
PLRM	0.92	10	eP	00 35.37	-0.5
			eS	00 48.51	
CFI	0.97	59	eP	00 35.96	-0.8
			eS	00 49.38	
PWA	0.99	349	eP	00 37.05	0.1
GHO	1.12	14	eP	00 39.11	-0.2
			eS	00 53.66	
SML	1.26	26	eP	00 40.85	-0.7
FID	1.48	86	eP	00 43.16	-1.6
			eS	01 00.89	
CKL	1.48	291	eP	00 44.44	-0.5
SCM	1.55	41	eP	00 45.60	-0.3
DFR	1.58	268	eP	00 46.56	0.2
VLZ	1.60	72	eP	00 46.44	-0.1
			eS	01 06.71	
CUT	1.76	348	eP	00 49.37	0.5
CVA	1.85	93	eP	00 49.42	-0.6
			eS	01 12.28	
KLU	1.91	63	eP	00 50.39	-0.7
			eS	01 14.33	
TOA	2.14	47	eP	00 53.86	-0.5
TZL	2.38	53	eP	00 58.59	0.8
SDG	2.64	44	eP	01 01.88	0.4
GLB	2.86	72	eP	01 03.73	-0.9

20 obs. associated

OCT 12, 1993 13h 11m 25.01± 0.65s
39.802 N ± 6.5km 20.621 E ± 5.0km
DEPTH = 10.0km (geophysicist)
GREECE-ALBANIA BORDER REGION (392)
ML 2.9 (THE).

IGT	0.35	220	iPg	11 31.69	-0.5
			eSg	11 38.84	
SRN	0.48	279	ePg	11 36.80	2.0
			iSg	11 43.80	
TPE	0.68	317	iPgd	11 36.00	-2.5
			iSg	11 48.00	
VLO	1.09	308	ePn	11 45.70	0.2
FNA	1.14	30	iPg	11 45.78	-0.6
			iSg	12 03.40	
OHR	1.31	6	iPn	11 49.50	0.2
	0.5s	100.00nm			
			i	11 50.20	
			i	12 08.70	
			i	12 09.80	
LIT	1.47	78	iPb	11 51.53	0.0
			iSb	12 11.37	
AGG	1.54	120	ePb	11 52.08	-0.4
TIR	1.65	340	ePn	11 54.20	0.1
GRG	1.78	49	iPb	11 57.33	1.2
			eSb	12 22.05	
KNT	2.20	51	ePn	12 02.48	0.3
SKO	2.25	16	ePn	12 03.00	0.1
OUR	2.63	77	ePn	12 08.18	-0.1

S.D. = 1.1 on 13 of 13 obs.

---

* OCT 12, 1993 13h 18m 47.72± 1.47s
51.441 N ±14.3km 16.121 E ± 7.9km
DEPTH = 10.0km (geophysicist)
POLAND (548)
MG 2.6 (WAR).

KSP	0.61	170	iP	19 00.60	0.6
	0.4s	71.00nm			
			iS	19 09.20	
BRG	1.48	248	iPg	19 14.00	-0.4
			iSg	19 33.30	
PRU	1.77	215	ePn	19 18.50	0.0
			ePg	19 22.00	
			eSn	19 37.20	
			Sg	19 41.00	
CLL	1.96	267	ePg	19 22.00	0.7
			iSg	19 47.00	
OJC	2.63	116	iPc	19 30.70	-0.3
			iS	20 13.90	
KHC	2.83	216	ePn	19 33.00	-0.8
			ePg	19 39.60	
			eSn	20 06.50	
			eSg	20 15.40	
GEC2	3.03	212	Pn	19 36.80	0.1

```
                 Pg    19 43.80
                 Sg    20 21.50
     S.D. = 0.7  on   7 of   7 obs.
-------------------------------------
?  OCT  12, 1993  13h 54m 09.84± 1.27s
   26.716 S ± 9.3km   28.203 E ±15.3km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA          (584)

PRY     0.69 252 eP    54 23.50  -0.1
                 S     54 29.90
SLR     0.98   4 eP    54 29.00   0.0
                 S     54 42.00
SEK     1.68 198 eP    54 40.00  -0.2
                 S     55 04.50
BLF     2.98 216 eP    54 59.00   0.2
                 S     55 39.00
     S.D. = 0.3  on   4 of   4 obs.
-------------------------------------
   OCT  12, 1993  14h 27m 51.07± 0.38s
   41.828 S ± 5.1km  172.354 E ± 4.6km
   DEPTH =  10.0km  (geophysicist)
   4.1mb (  1 obs.)
 SOUTH ISLAND, NEW ZEALAND         (162)
      ML 4.3 (WEL).

THZ     0.42  81 Pd    28 00.00   0.4
                 S     28 05.70
DSZ     0.42 281 P     28 01.30   1.6
QRZ     1.01   8 Pd    28 10.40   0.2
                 S     28 22.80
DIW     1.56  50 Pc    28 19.20   0.2
TCW     1.57  68 Pd    28 19.80   0.8
WVZ     1.73 223 P     28 22.50   1.2
MRW     1.86  72 P     28 23.80   0.5
WEL     1.89  74 eP    28 25.30   1.6
MQZ     1.89 173 P     28 24.10   0.4
                 S     28 47.80
KIW     2.15  64 eP    28 28.50   1.0
CAW     2.16  71 Pc    28 28.60   1.0
BLW     2.38  80 eP    28 30.40  -0.4
MTW     2.46  75 Pc    28 31.60  -0.2
MNG     2.65  64 P     28 34.90   0.3
NRZ     2.76  26 eP    28 36.40   0.2
BSZ     2.82  45 eP    28 38.70   1.8
LMZ     2.95 229 P     28 38.30  -0.5
PGZ     3.19  69 P     28 41.10  -1.1
BWZ     3.25 213 eP    28 42.80  -0.3
ODZ     3.45 201 eP    28 45.50  -0.4
                 eS    29 25.30
NGZ     3.62  44 eP    28 48.70   0.1
WAHZ    3.71  56 eP    28 48.90  -0.8
MOZ     3.81  30 eP    28 49.70  -1.4
TEHZ    3.84  63 eP    28 50.20  -1.4
MSZ     4.31 227 eP    28 57.50  -0.6
TUZ     4.57 205 eP    29 00.40  -1.4
WLZ     4.67  33 eP    29 02.10  -1.2
URZ     5.10  47 eP    29 06.60  -2.7X
KUZ     5.71  28 eP    29 15.90  -2.0
WR2    38.79 292 eP    35 25.10   7.5X
        0.7s     3.30nm         4.1mb
     S.D. = 1.0  on  28 of  30 obs.
-------------------------------------
?  OCT  12, 1993  14h 50m 58.83± 2.54s
   34.420 S ±11.3km  178.322 W ±26.1km
   DEPTH =  39.5km  (  2 depth phases)
   4.8mb (  1 obs.)
 SOUTH OF KERMADEC ISLANDS         (179)

HBZ     4.19 220 eP    52 01.50  -0.4
PUZ     4.57 216 P     52 07.30  -0.1
                 eS    52 59.00
NOZ     5.11 214 P     52 15.70   0.8
URZ     5.32 223 eP    52 17.20  -0.6
                 eS    53 16.30
KUZ     5.38 243 eP    52 19.10   0.4
WLZ     6.00 233 eP    52 27.70   0.1
OUZ     6.69 261 eP    52 37.10  -0.1
ASPA   42.78 271 iPc   58 54.70   0.3
        0.8s    15.00nm         4.8mb
                 i     59 06.00  40km
WR2    44.10 276 iPd   59 04.90  -0.3
        0.5s    23.70nm         5.2mb X
                 ipP   59 16.00  39km
BCAO  146.31 211 iPKPc 10 41.90   5.6X
        1.0s    10.00nm
KAF   148.20 338 ePKP  10 44.20   6.4X
NUR   149.95 337 ePKP  10 49.00   8.5X
     S.D. = 0.5  on   9 of  12 obs.
-------------------------------------
?  OCT  12, 1993  15h 00m 12.62± 5.56s
   40.909 N ±19.2km   24.235 E ±37.6km
   DEPTH =   5.0km  (geophysicist)
 AEGEAN SEA                        (365)
      ML 2.6 (THE).

SRS     0.53 293 ePg   00 22.69  -0.5
                 eSg   00 32.06
OUR     0.61 199 iPg   00 24.66  -0.1
                 eSg   00 35.06
SOH     0.67 263 ePg   00 26.14   0.0
                 eSg   00 37.14
KNT     1.04 284 ePg   00 33.38   0.6
                 eSg   00 49.46
     S.D. = 0.8  on   4 of   4 obs.
-------------------------------------
%  OCT  12, 1993  15h 17m 55.13± 1.39s
   10.623 N ±13.2km   66.997 W ± 7.3km
   DEPTH =  10.0km  (geophysicist)
 NEAR COAST OF VENEZUELA           ( 97)

CAR     0.13 149 iPd   17 58.50   0.1
                 iS    18 00.80
LLAV    0.24 128 iPd   17 59.90  -0.3
                 iS    18 02.90
GUAC    0.51 212 iPc   18 04.40  -1.0
                 iS    18 10.50
OLLA    0.63 162 iPd   18 07.60  -0.3
                 iS    18 16.60
MORO    1.32 281 iPd   18 19.00  -0.6
                 iS    18 38.10
GUAN    1.48 116 iPc   18 22.20   0.2
                 iS    18 44.00
CEOS    2.06 220 iPc   18 32.20   1.9
                 iS    18 59.40
     S.D. = 1.2  on   7 of   7 obs.
-------------------------------------
%  OCT  12, 1993  15h 55m 49.33± 0.72s
   39.671 N ± 6.6km   29.632 E ± 7.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.8 (ISK).

ALT     0.72 149 ePg   56 03.50   0.0
                 eSg   56 15.50
EYL     0.98  24 ePn   56 08.30   0.3
HRT     1.15   1 ePn   56 10.40  -0.5
EDC     1.52 297 ePn   56 16.30  -0.2
CTT     1.74 328 ePn   56 19.90   0.2
KGT     1.95 294 ePn   56 22.90   0.1
MFT     2.12 303 ePn   56 25.40   0.1
     S.D. = 0.3  on   7 of   7 obs.
-------------------------------------
%  OCT  12, 1993  16h 19m 13.63± 0.64s
   37.249 S ± 7.6km  176.490 E ± 8.1km
   DEPTH = 250.0km  (geophysicist)
 NORTH ISLAND, NEW ZEALAND         (159)

KUZ     0.79 309 Pc    19 48.10   0.3
URZ     1.12 154 P     19 49.40  -0.2
                 eS    20 18.00
HBZ     1.48 104 P     19 51.00  -1.1
PUZ     1.63 121 P     19 52.40  -0.8
                 eS    20 21.40
PAHZ    1.67 165 P     19 54.30   0.7
NOZ     1.83 139 P     19 55.00   0.1
NGZ     2.05 200 eP    19 59.30   2.3
MAHZ    2.22 151 eP    19 59.00   0.5
TTH     2.30 174 P     20 00.30   1.1
WAHZ    2.45 182 Pc    20 01.60   0.9
BSZ     2.82 205 eP    20 06.20   1.6
OUZ     3.09 310 P     20 07.40  -0.1
PGZ     3.37 183 P     20 10.60   0.1
MNG     3.46 193 P     20 11.50  -0.1
                 S     20 56.30
KIW     3.81 198 P     20 15.50  -0.2
MTW     3.98 191 P     20 16.60  -1.0
CAW     4.01 196 P     20 17.10  -0.9
DIW     4.07 209 P     20 18.70   0.0
BLW     4.19 191 P     20 19.60  -0.5
MRW     4.21 199 P     20 19.80  -0.6
                 eS    21 12.00
TCW     4.32 203 P     20 21.20  -0.4
QRZ     4.72 220 P     20 25.70  -0.8
THZ     5.29 210 eP    20 33.60   0.0
LTZ     6.41 209 eP    20 46.40  -1.0
     S.D. = 0.9  on  24 of  24 obs.
-------------------------------------
%  OCT  12, 1993  16h 20m 58.73± 0.77s
   40.662 N ± 7.6km   29.916 E ± 6.5km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.7 (ISK).

EYL     0.21 117 iPg   21 03.30   0.0
                 iSg   21 05.80
HRT     0.25 310 iPg   21 04.40   0.4
IZI     0.47 226 iPg   21 08.40   0.1
                 iSg   21 14.90
ISK     0.76 302 iPg   21 13.40  -0.3
                 iSg   21 23.40
CTT     1.23 294 iPn   21 21.30  -0.2
EDC     1.60 259 ePn   21 27.00  -0.1
DMK     2.00 306 ePn   21 33.00   0.1
     S.D. = 0.3  on   7 of   7 obs.
-------------------------------------
*  OCT  12, 1993  16h 55m 42.76± 2.08s
   29.403 S ±10.5km   68.973 W ±18.2km
   DEPTH = 146.6 ± 26.7 km
 SAN JUAN PROVINCE, ARGENTINA      (137)

RTRS    0.87 209 iPc   56 05.50  -0.9
ZON     2.15 173 eP    56 21.00   1.0
CFA     2.29 164 ePc   56 22.00   0.4
                 S     56 50.10
RTPR    2.32 113 eP    56 21.50  -0.4
                 S     56 49.00
RTCV    2.48 171 eP    56 25.00   1.0
                 S     56 56.00
CYA     2.95  72 iPc   56 29.50  -0.4
MRA     4.11 138 e(P)c 56 44.70  -0.3
FSA     4.22  39 e(P)  56 47.10   0.6
RFA     5.37 176 eP    57 00.90  -1.1
     S.D. = 1.0  on   9 of   9 obs.
-------------------------------------
   OCT  12, 1993  17h 12m 07.46± 1.14s
   14.445 N ±10.3km   93.733 W ± 8.0km
   DEPTH =  37.5 ±  8.3 km
   4.9mb ( 14 obs.)  4.4Msz (  1 obs.)
 NEAR COAST OF CHIAPAS, MEXICO     ( 69)
      MD 5.2 (GCG).

TPX     1.50  72 iP    12 32.50   0.3
                 iS    12 54.00
SCX     2.51  25 iP    12 48.50   1.7
                 iS    13 22.50
BVA     3.01  85 ePc   12 54.39   0.3
IXG     3.19  94 ePc   12 55.33  -1.2
                 eS    13 40.24
YUP     3.82  93 eP    13 05.85   0.3
OXX     3.89 313 eP    13 07.00   0.4
LVVM    5.87 334 (P)   13 30.00  -4.3X
PPM     6.56 315 eP    13 44.00  -0.6
LTX    17.43 330 eP    16 08.75  -0.9
UYO    19.65 358 iPd   16 34.00  -2.1
WMOK   20.71 348 eP    16 45.18  -2.0
        1.1s    39.60nm         4.7mb
MEO    20.72 349 iPc   16 45.50  -1.8
FNO    20.98 352 iPc   16 52.10   2.1
TUL    21.46 355 iP    16 55.90   1.2
ACO    22.68 349 iPc   17 07.60   0.7
ELC    23.10   9 eP    17 09.60  -1.3
ALQ    23.41 333 eP    17 15.53   1.3
        1.1s     8.93nm         4.2mb
TUC    23.63 322 eP    17 19.16   2.9X
        1.9s    77.13nm         4.9mb
PV08   27.41 334 eP    17 52.34   0.3
PV10   27.42 333 (P)   17 52.27   0.3
ARUT   29.09 327 eP    18 08.30   1.3
RSSD   30.86 345 eP    18 22.26  -0.4
        0.8s     6.12nm         4.4mb
HVU    31.85 332 eP    18 31.55   0.3
BONR   31.97 322 ePc   18 33.89   1.3
LRM    35.03 337 iPc   18 59.50   0.5
LBFM   36.27 323 eP    19 09.28  -0.2
LON    39.85 330 eP    19 39.40   0.3
LPB    39.85 140 (P)   19 44.00   4.1X
CNCB   40.14 140 P     19 42.00  -0.4
GMW    40.88 330 (P)   19 46.55  -1.0
YKA    50.22 348 eP    21 00.60  -0.9
        0.7s    15.00nm         5.1mb
```

12d 17h

```
BAO     54.19 122 Pd    21 30.90  -1.2
                i       21 42.80
INK     59.54 344 eP    22 08.50  -0.7
        0.8s     4.00nm          4.6mb
RES     60.24 360 eP    22 12.50  -1.4
        1.0s     6.00nm          4.7mb
FBA     62.18 337 eP    22 25.99  -1.2
        0.8s     5.27nm          4.7mb
DAG     72.60  13 iPd   23 32.50   0.0
        0.8s    19.40nm          5.1mb
NB2     84.55  28 P     24 38.60   0.7
        0.9s    18.10nm          5.2mb
LKO     85.88  81 P     24 45.89   0.5
        0.8s    17.50nm          5.3mb
LIC     87.22  84 P     24 52.26   0.3
        1.2s    17.50nm          5.2mb
      Z 21s      0.16um          4.4Msz
KIC     87.47  84 P     24 53.30   0.2
        0.9s    15.00nm          5.3mb
GEC2    90.32  39 P     25 06.60   0.5
        0.9s     2.32nm          4.5mb
PRU     90.39  38 eP    25 07.00   0.7
ZST     92.66  39 e(P)  25 17.90   1.2
WRA    133.87 256 PKP   31 24.10   1.0
        0.8s     0.50nm
GBA    150.79  18 PKP   31 58.00   5.5X
     S.D. = 1.1  on  41 of  45 obs.
-----------------------------------
?  OCT  12, 1993  19h 21m 14.57± 7.79s
   36.284 N ±71.6km   28.973 E ±16.7km
   DEPTH =  10.0km  (geophysicist)
 DODECANESE ISLANDS                (369)
      ML 3.2 (ISK).

ELL      0.88  58 iPg   21 31.00  -0.6
                eSg    21 42.00
BCK      1.75  47 ePn   21 46.00   0.8
KHL      2.08  12 ePn   21 50.00   0.0
IZM      2.51 328 ePn   21 56.00  -0.1
     S.D. = 1.0  on   4 of   4 obs.
-----------------------------------
%  OCT  12, 1993  19h 26m 20.00± 0.81s
   40.538 N ± 6.9km   23.478 E ± 6.5km
   DEPTH =  10.0km  (geophysicist)
 GREECE                            (364)
      ML 2.5 (THE).

SOH      0.30 342 ePg   26 26.30   0.1
                eSg    26 30.42
THE      0.40 284 ePg   26 29.00   0.8
OUR      0.44 118 ePg   26 28.90   0.0
                eSg    26 35.58
SRS      0.58   8 ePg   26 32.22   0.4
                eSg    26 40.10
KNT      0.76 325 ePg   26 33.97  -0.9
                eSg    26 44.98
LIT      0.87 240 ePg   26 36.50  -0.3
     S.D. = 0.8  on   6 of   6 obs.
-----------------------------------
   OCT  12, 1993  19h 51m 25.36± 0.11s
    4.196 N ± 2.2km   76.638 W ± 2.1km
   DEPTH = 102.6km  ( 56 depth phases)
   5.5mb (114 obs.)
 COLOMBIA                          (103)
      Mw 5.2 (HRV). MD 5.5 (UPA).
      Several houses damaged in
      southern Choco Department. Felt
      throughout much of southwestern
      Colombia.
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 31S, 39C
      Centroid Location:
      Origin Time        19:51:29.9 0.6
      Lat  4.15N 0.05 Lon  76.98W 0.05
      Dep  90.4 3.1 Half-duration  1.2
      Moment Tensor;   Scale 10**16 Nm
        Mrr= 7.66 0.50  Mtt=-5.90 0.66
        Mff=-1.76 0.98  Mrt= 1.02 0.48
        Mrf=-1.03 0.61  Mtf=-2.63 0.66
       Principal Axes:
        T  Val=  7.90  Plg=81  Azm= 53
        N       -0.71       9      244
        P       -7.19       2      154
      Best Double Couple:Mo=7.5*10**16
       NP1:Strike=234 Dip=44 Slip=  77
       NP2:         73     47      103
```

```
CLMC     0.32 167 eP    51 40.74   0.0
HOBC     0.52  72 iPc   51 42.34   0.4
AZUC     0.71 135 eP    51 45.09   1.2
ANCC     0.71 199 iPc   51 42.96  -0.5
HOQC     0.72 180 iPc   51 43.48  -0.3
DIAC     1.00 154 iPd   51 47.79   1.3
SILC     1.53 169 iPd   51 54.25   1.4
PURC     1.88 172 eP    51 58.97   1.5
UPA      5.56 329 eP    52 44.01  -3.1X
                  eS    53 49.05
DVD      7.15 306 iP    53 08.57  -0.4
BRU      7.46 308 iP    53 12.81  -0.8
SDV      7.57  52 iPd   53 15.20   0.3
                  iS    54 39.30
TOV      8.77  50 ePc   53 30.60  -0.6
                  iPP   53 31.10
                  iS    55 02.50
CEOS     9.54  59 iPc   53 39.10  -2.6
                  eS    55 09.70
MORO    10.58  51 eP    53 53.90  -1.7
GUAC    11.04  57 eP    53 59.40  -2.3
OLLA    11.34  59 iPd   54 03.10  -2.6
CAR     11.49  56 iP    54 08.00   0.4
LLAV    11.57  57 iPd   54 06.20  -2.5
GUAN    12.31  62 eP    54 17.80  -0.7
NNA     16.08 181 iPd   55 09.20   2.3
        0.8s    104.48nm          5.1mb
TCE     16.10  66 eP    55 10.96   3.8X
TPP     16.24  67 eP    55 12.98   4.2X
TRN     16.40  66 eP    55 13.00   2.1
TBH     16.65  67 eP    55 14.80   0.8
GRW     16.79  61 eP    55 17.11   1.3
PORP    16.90  35 (P)   55 16.00  -1.0
MCP     16.93  33 P     55 17.50   0.1
APR     17.16  34 P     55 22.50   2.2
SJG     17.22  36 eP    55 21.50   0.5
CPD     17.30  37 P     55 22.00   0.0
SVB     17.67  58 eP    55 26.11  -0.4
SVV     17.72  58 eP    55 27.92   0.8
SLB     18.12  57 eP    55 31.53  -0.5
BPA     19.32  48 eP    55 44.23  -1.0
ANG     19.41  47 eP    55 45.06  -1.0
ARE     21.15 166 iPc   56 06.00   1.8
LPAZ    22.02 158 P     56 11.40  -1.9
LPB     22.26 158 P     56 15.00  -0.4
        1.0s    320.00nm          5.6mb
CNCB    22.56 158 P     56 17.80  -0.6
OXX     23.49 305 (P)   56 31.00   3.9X
CCH     23.82 154 P     56 30.60   0.2
PPM     26.07 306 (P)   56 54.50   2.8
PRM     30.21 351 iPd   57 29.34   1.1
JSC     30.24 352 iPd   57 29.18   0.7
                  epP   57 50.57  94km
LHS     30.38 353 eP    57 29.62  -0.1
SLA     30.72 160 e(P)  57 34.00   0.9
MYNC    31.50 348 (P)   57 40.20   0.6
CEH     31.62 356 eP    57 40.87   0.3
        0.6s     21.90nm          5.1mb
BLA     33.04 354 ePc   57 54.08   1.1
        0.8s     34.04nm          5.2mb
CVL     33.67 357 eP    57 51.96  -6.4X
CYA     34.09 163 ePc   58 01.30  -0.9
UYO     34.11 333 iPd   58 02.00  -0.3
BAO     34.53 125 iPd   58 05.30  -0.9
                  i     58 08.80  12kmX
                  i     58 17.90
                  i     58 26.00
                  i     58 32.00
                  i     58 41.00
                  i     58 44.20
                  i     00 38.00
                  e     09 46.00
RTRS    34.85 169 eP    58 11.00   2.4
ELC     34.90 342 eP    58 07.98  -0.9
LTX     35.79 317 eP    58 15.36  -1.3
                  epP   58 40.71 110km
                  iPcP  00 42.72
                  ipPcP 01 09.51
FVM     35.91 341 ePc   58 16.87  -0.6
        1.0s     79.96nm          5.6mb
                  i     58 44.79 123kmX
PPD     35.97 137 iPc   58 16.40  -1.7
RTCB    36.26 169 iPc   58 22.00   1.4
FNO     36.39 331 iPc   58 20.40  -1.1
CFA     36.49 168 eP    58 23.20   0.7
MEO     36.61 329 iPc   58 22.60  -0.8
OCO     36.64 331 iPc   58 23.40  -0.2
```

```
WMOK    36.68 329 iPc   58 23.07  -0.9
        0.6s     12.22nm          5.0mb
                  epP   58 48.25 109km
                  esP   58 57.79
                  iPcP  00 44.68
PAL     36.73   3 eP    58 24.89   0.7
TBR     36.85   3 iPc   58 26.36   1.1
BINY    37.84   1 iPc   58 35.31   1.6
        0.6s     23.82nm          5.3mb
                  iPcP  00 47.65
MRA     37.86 165 iPc   58 34.00   0.2
SOB1    38.03 111 eP    58 34.20  -1.4
                  e     00 48.20
YSNY    38.15 358 iPc   58 37.86   1.6
        0.4s     78.46nm          6.0mb
                  iPcP  00 49.00
ACO     38.39 330 iPc   58 38.10  -0.3
CACB    38.97 132 iPc   58 41.90  -1.6
                  e     12 00.10
RSTA    39.28 138 eP    58 43.00  -2.8
RFA     39.51 169 iPc   58 48.50   0.8
VAO     39.62 134 ePc   58 47.10  -1.7
                  e     58 52.70
                  epP   59 11.50 105km
                  esP   59 21.20
                  e(PP) 00 23.00
                  ePcP  00 53.80
                  e(S)  04 41.00
CDCB    39.65 129 iPc   58 47.60  -1.5
                  e     58 50.20   9kmX
                  i     00 53.70
                  eS    12 20.30
VAO2    40.07 134 eP    58 50.50  -2.0
                  e     00 54.90
LBNH    40.09   5 iPc   58 53.81   1.5
        0.8s     48.51nm          5.4mb
                  epP   59 18.97 109km
                  iPcP  00 54.94
RSNY    40.23   2 iPc   58 56.93   3.5X
        0.8s     35.07nm          5.2mb
                  epP   59 24.16 120kmX
                  iPcP  00 57.58
ALQ     41.21 322 iPc   59 02.86   1.0
        0.8s     37.71nm          5.3mb
                  ipP   59 28.30 110km
                  ePcP  00 58.56
GAC     41.35   1 eP    58 58.00  -4.6X
TUC     42.47 315 iPc   59 14.12   2.0
        0.8s     34.30nm          5.2mb
LMN     42.76  12 ePc   59 25.10  11.0X
CBM     43.21   9 iPc   59 19.14   1.4
        1.0s    119.82nm          5.7mb
GLD     43.82 328 iPc   59 24.12   1.1
        1.0s     87.02nm          5.5mb
                  epP   59 48.74 105km
                  esP   59 59.44
PV08    44.93 324 ePc   59 32.61   0.5
                  epP   59 58.39 111km
                  iPcP  01 12.09
PV10    45.03 323 ePc   59 32.52  -0.3
                  ipP   59 58.42 111km
PV09    45.16 324 (P)   59 35.13   1.2
SRU     46.38 323 iPc   59 43.57   0.1
                  epPd  00 08.57 106km
RSSD    46.52 333 ePc   59 44.52   0.1
        0.7s     91.45nm          5.7mb
                  epP   00 08.00  99km
                  e     00 20.06
EMUT    47.01 324 iPc   59 48.84   0.4
MSU     47.02 321 iPc   59 49.02   0.5
                  epP   00 14.37 108km
                  ePcP  01 18.84
PLM     47.38 313 eP    59 51.24  -0.1
                  epP   00 12.41  87kmX
ARUT    47.39 320 iPc   59 52.05   0.7
                  epP   00 17.42 108km
DAU     47.65 324 iPc   59 53.52   0.0
                  epP   00 18.88 107km
                  iPcP  01 21.43
GSC     48.30 315 eP    59 58.98   0.6
                  epP   00 25.32 112km
                  iPcP  01 23.28
SSK     48.40 313 eP    59 59.80   0.6
                  epP   00 25.12 107km
DUG     48.44 323 iPc   59 59.92   0.5
        0.7s     32.90nm          5.3mb
                  epP   00 23.79 100km
```

		iPcP	01	24.11	
ULM	48.68	344	ePc	00	02.00	1.1
TPNV	48.77	317	ePc	00	02.90	0.8
	0.8s	26.64nm			5.2mb	
			epP	00	29.45	113kmX
			iPcP	01	25.84	
JAQ	49.46	1	eP	00	06.00	-0.8
ISA	49.66	315	iPc	00	09.16	0.4
	0.7s	12.34nm			5.0mb	
			iPcP	01	28.94	
ABL	49.81	313	ePc	00	10.21	0.1
			epP	00	34.44	101km
			e	00	54.17	
PTI	49.87	326	eP	00	09.99	-0.4
			epP	00	34.38	102km
MTUM	50.56	316	ePc	00	16.11	0.3
			epP	00	41.86	108km
BCH	50.59	313	iPc	00	16.42	0.5
			e	00	20.01	
			epP	00	41.46	105km
			e	00	53.17	
BONR	50.69	317	iPc	00	17.62	0.8
			epP	00	42.82	105km
MEMM	50.98	317	P	00	18.50	-0.1
MMPM	51.01	316	ePc	00	19.60	0.2
			epP	00	44.93	106km
			e	00	54.69	
LRM	51.86	329	iPc	00	15.10	-10.5X
CMB	52.16	316	iPc	00	27.14	-0.5
	1.2s	10.00nm			4.7mb	
			ipPd	00	52.04	103km
SAO	52.30	314	ePc	00	28.43	-0.2
	1.0s	15.80nm			5.0mb	
			epP	00	53.65	105km
ARN	52.63	315	ePc	00	31.23	0.1
			epP	00	57.08	108km
			iPcP	01	39.93	
			e	01	47.14	
COE	52.69	315	(P)	00	32.06	0.5
			(pP)	00	57.65	106km
MHC	52.70	315	ePc	00	31.99	0.2
	1.3s	70.00nm			5.5mb	
			ePcP	00	40.74	
			ipPd	00	58.59	111km
STAN	53.11	315	eP	00	35.20	0.6
	1.1s	110.00nm			5.8mb	
			epP	01	00.40	104km
BKS	53.37	315	ePc	00	36.69	0.2
	1.0s	40.00nm			5.4mb	
			epP	01	02.49	107km
ORV	53.66	317	iPc	00	38.61	0.1
	1.6s	130.00nm			5.7mb	
			ipPd	01	03.66	103km
LBFM	54.80	319	ePc	00	46.31	-0.9
			ipP	01	11.62	104km
WDC	54.85	318	iPc	00	44.68	-2.6
	0.5s	7.00nm			4.9mb	
LGPM	55.20	318	ePd	00	48.13	-1.9
			epP	01	17.77	125kmX
			iPcP	01	49.86	
YBH	55.52	319	iPc	00	50.31	-1.9
	0.8s	10.00nm			4.9mb	
JBO	55.71	324	P	00	53.20	-0.3
KMPM	55.84	317	eP	00	54.47	-0.1
			(pP)	01	20.00	105km
CROR	56.13	323	P	00	57.13	0.6
DPW	56.21	327	eP	00	56.37	-0.7
VGB	56.29	324	eP	00	57.71	0.0
			epP	01	22.56	101km
			esP	01	38.33	
VBEM	56.53	323	P	00	59.93	0.4
SAW	56.76	327	P	01	00.46	-0.5
SSOR	56.95	323	P	01	01.40	-1.0
EBG	56.95	325	P	01	02.49	0.2
WTV	57.06	326	P	01	02.53	-0.5
ASR	57.12	324	P	01	03.74	0.2
RNO	57.26	321	P	01	04.35	-0.2
SHW	57.52	324	eP	01	05.89	-0.5
			e	01	11.53	19kmX
			e	01	19.44	
			e	02	29.07	
LON	57.57	325	iPc	01	06.11	-0.5
FMW	57.59	325	P	01	06.67	-0.3
RMW	57.96	325	ePc	01	08.42	-1.0
KMOR	57.97	323	P	01	09.71	0.2
BMW	58.25	324	iPc	01	10.95	-0.5
			ePcP	02	00.97	358kmX

		e	02	27.68	
JCW	58.43	326	P	01	11.43	-1.2
GMW	58.56	325	ePc	01	12.63	-0.9
MCW	59.20	326	iPc	01	17.59	-0.4
			epP	01	42.30	100km
			esP	01	53.59	
STW	59.39	325	P	01	19.38	0.2
FRB	59.72	4	eP	01	20.00	-1.1
	0.7s	29.00nm			5.5mb	
CHIE	60.45	61	iPd	01	26.50	-0.2
KDS	64.15	78	iP	01	50.00	-1.5
YKA	64.57	342	P	01	51.70	-1.8
	0.5s	68.00nm			5.8mb	
CIA	68.98	58	iP	02	22.50	0.6
LKO	70.64	81	Pc	02	31.34	-1.0
	0.7s	298.50nm			6.2mb	
STS	71.16	46	iPd	02	34.73	-0.2
RES	71.23	355	eP	02	33.00	-1.7
	1.0s	12.00nm			4.7mb	
TIC	71.29	84	Pc	02	35.21	-1.0
	0.6s	116.50nm			5.9mb	
LIC	71.30	85	Pc	02	35.32	-1.0
	0.6s	189.00nm			6.1mb	
EVAL	71.54	52	eP	02	37.45	0.1
KIC	71.58	85	Pc	02	37.13	-0.8
	0.6s	257.00nm			6.2mb	
TNF	72.02	57	iPc	02	41.50	1.3
ERUA	72.08	47	iPc	02	40.49	0.0
VAL	72.28	37	iP	02	41.70	0.3
	0.6s	1.60nm			4.0mb	X
EJIF	72.39	53	iPc	02	43.59	1.2
TGT	72.42	56	iPd	02	43.50	1.0
EPLA	72.46	49	iPc	02	42.69	-0.1
EPRU	72.65	53	eP	02	43.99	0.1
EHOR	72.76	52	iPc	02	44.37	-0.1
TZK	73.14	56	iPc	02	47.50	0.8
ELUQ	73.49	52	iPc	02	49.10	0.3
AKU	73.64	22	eP	02	48.50	-0.5
	1.0s	28.00nm			5.0mb	
EGUA	73.96	53	iPc	02	51.35	-0.2
GUD	74.00	49	iPc	02	52.11	0.3
ECOG	74.01	53	iPd	02	52.68	0.7
INK	74.33	341	ePc	02	52.40	-0.6
	0.6s	16.00nm			5.0mb	
DCN	74.40	36	iPc	02	53.60	-0.1
	0.8s	395.00nm			6.3mb	
BALM	74.74	333	iPc	02	55.67	0.0
			epP	03	21.42	99km
DLF	74.82	36	iPc	02	55.80	-0.3
	0.7s	229.00nm			6.1mb	
EHUE	74.84	52	iPc	02	57.06	0.4
EVIA	75.01	51	iPc	02	57.90	0.2
ENIJ	75.05	53	iPc	02	57.13	-0.7
ECRI	75.50	47	iPc	03	00.96	0.6
EALH	75.77	52	eP	03	01.53	-0.3
YRH	75.84	37	ePc	03	02.00	0.1
YRC	75.96	36	iPc	03	02.40	-0.1
WIM	76.09	35	eP	03	03.40	0.1
KPL	76.27	32	eP	03	02.60	-1.6
ELIZ	76.29	47	iPd	03	04.54	-0.1
ECHE	76.30	50	eP	03	03.89	-1.0
HCG	76.32	37	iPc	03	04.50	-0.2
KSB	76.36	32	eP	03	04.20	-0.5
KAC	76.50	32	ePc	03	05.10	-0.4
HTR	76.50	37	iPc	03	05.50	-0.2
KLU	76.52	333	iPc	03	05.21	-0.5
			epP	03	31.52	101km
ACU	76.62	52	iPc	03	06.72	0.0
HGH	76.71	38	ePc	03	06.80	0.0
EAB	76.71	33	eP	03	05.90	-0.8
TOA	76.81	333	eP	03	07.10	-0.2
HAE	76.94	38	ePc	03	08.10	0.1
EGRA	77.06	48	iPc	03	12.19	3.3X
EAU	77.13	34	ePc	03	08.70	-0.4
ESK	77.16	34	eP	03	09.40	0.2
	0.7s	58.00nm			5.5mb	
EBH	77.18	33	ePc	03	09.00	-0.3
EKA	77.19	34	Pc	03	08.90	-0.5
	1.3s	144.20nm			5.6mb	
LPF	77.27	42	iPc	03	09.90	0.0
	1.0s	116.00nm			5.7mb	
GRR	77.44	41	iPc	03	11.00	0.1
	0.8s	144.00nm			5.9mb	
EROQ	77.47	49	iPc	03	11.76	0.5
EDU	77.51	33	eP	03	11.30	0.2
EBR	77.53	49	eP	03	12.50	1.0
EPF	77.63	47	iPc	03	12.60	0.4

	1.2s	138.65nm			5.7mb
MFF	77.69	43	iPc	03	12.60	0.3
	1.1s	188.50nm			5.8mb
FLN	77.74	41	iPc	03	12.80	0.3
	1.0s	232.00nm			6.0mb
	Z 19s	0.22um			4.5Msz
LDF	77.95	41	iPc	03	13.90	0.2
	0.9s	157.90nm			5.8mb
PMR	78.04	332	iPc	03	12.96	-0.9
	0.8s	21.93nm			5.0mb
LFF	78.11	45	iPc	03	14.80	0.1
	0.7s	64.40nm			5.6mb
SALF	78.23	47	P	03	16.42	1.0
FBA	78.28	336	iPc	03	14.39	-0.8
	0.5s	17.85nm			5.1mb
			epP	03	40.58	101km
SLKM	78.31	331	P	03	14.90	-0.6
LESF	78.32	47	P	03	16.26	0.4
LPO	78.41	45	iPc	03	16.40	0.1
	0.9s	133.00nm			5.8mb
GRBF	78.49	47	P	03	16.96	0.1
RJF	78.70	45	iPc	03	17.80	-0.1
	0.9s	83.85nm			5.6mb
	Z 21s	0.10um			4.1Msz
TRGS	78.78	48	P	03	19.41	0.8
LSF	78.80	44	iPc	03	18.30	-0.1
	1.1s	92.30nm			5.5mb
CAF	79.05	45	iPc	03	20.00	0.1
	1.4s	178.60nm			5.7mb
TCF	79.27	44	iPc	03	20.80	-0.2
	1.0s	68.80nm			5.4mb
ESEL	79.28	50	iPc	03	21.51	0.3
CRP	79.39	332	iPc	03	20.19	-1.3
			epP	03	46.53	101km
ETER	79.42	48	iPc	03	21.88	0.0
CP2	79.43	332	P	03	21.18	-0.6
PERF	79.44	48	P	03	22.48	0.5
MAF	79.51	44	iPc	03	22.20	-0.1
	0.9s	95.35nm			5.6mb
HYF	79.65	43	iPc	03	23.20	0.2
BGF	79.73	44	iPc	03	23.30	-0.2
	1.0s	90.80nm			5.6mb
AVF	80.10	43	iPc	03	25.10	-0.3
	1.0s	88.40nm			5.5mb
SSF	80.23	43	iPc	03	25.70	-0.4
	1.0s	89.20nm			5.5mb
DHH	80.27	291	eP	03	27.33	0.6
SMF	80.42	44	iPc	03	26.90	-0.2
	1.0s	126.40nm			5.7mb
LOR	80.48	43	iPc	03	27.00	-0.4
	1.0s	71.80nm			5.5mb
	Z 20s	0.30um			4.6Msz
LBF	80.54	43	iPc	03	27.20	-0.6
	1.0s	49.00nm			5.3mb
SSB	80.83	45	P	03	29.99	0.7
IMA	80.93	336	iPc	03	29.03	-0.6
	0.8s	17.58nm			4.9mb
			epP	03	54.95	99km
SNF	81.00	40	Pc	03	30.10	0.1
SVW	81.02	331	eP	03	28.70	-1.3
UCC	81.07	39	P+	03	30.00	-0.4
DOU	81.17	40	Pc	03	31.60	0.7
	0.7s	103.30nm			5.8mb
VITF	81.97	42	P	03	35.40	0.2
LRG	82.05	47	iPc	03	36.10	0.5
	1.0s	81.60nm			5.5mb
	Z 23s	0.13um			4.2MszX
ENN	82.06	39	iPc	03	36.00	0.5
	0.7s	63.20nm			5.6mb
			e	04	01.00	95km
MEM	82.10	40	iPc	03	35.95	0.2
	1.2s	31.70nm			5.0mb
WLF	82.15	41	iPc	03	36.54	0.5
			ic	04	02.02	97km
LMR	82.15	47	iPc	03	36.40	0.2
	0.9s	49.65nm			5.4mb
HAU	82.20	42	iPc	03	36.20	-0.2
	1.0s	37.80nm			5.2mb
FRF	82.26	47	iPc	03	37.00	0.2
	0.9s	82.25nm			5.6mb
RSL	82.31	45	P	03	37.66	0.5
BNI	82.32	45	P	03	38.68	1.4
	2.1s	120.50nm			5.4mb
LPL	82.38	45	iPc	03	38.20	0.6
	1.0s	48.20nm			5.3mb
LPG	82.39	45	iPc	03	38.50	0.7
	1.1s	61.05nm			5.4mb

12d 20h

RRL	82.40	45 P	03 38.49	0.7	
BSF	82.50	42 iPc	03 37.60	-0.4	
	1.0s	75.00nm		5.5mb	
LOMF	82.50	43 P	03 38.18	0.1	
EMS	82.53	44 ePc	03 39.00	0.6	
PZZ	82.61	46 P	03 39.55	0.8	
LSD	82.67	45 P	03 40.05	0.8	
WTS	82.68	38 iPc	03 39.40	0.7	
	0.9s	125.50nm		5.8mb	
		e	04 05.00	97km	
TOUF	82.71	46 P	03 39.77	0.4	
MOF	82.73	42 P	03 38.87	-0.3	
BHB	82.73	45 P	03 39.50	0.3	
RSP	82.74	45 P	03 40.19	0.8	
ECH	82.75	42 P	03 39.50	0.2	
AURF	82.76	46 P	03 39.95	0.5	
SBF	82.84	46 iPc	03 40.10	0.3	
	0.9s	107.10nm		5.8mb	
CDF	82.84	42 iPc	03 39.60	-0.2	
	1.1s	61.80nm		5.4mb	
BNS	82.86	39 iPc	03 40.20	0.5	
DIX	82.87	44 ePc	03 41.30	1.1	
WLS	82.89	42 P	03 40.03	0.0	
SAOF	82.93	46 P	03 40.59	0.3	
BBS	82.97	43 P	03 40.39	0.0	
LIBD	83.05	42 P	03 40.97	0.3	
ROB	83.16	46 P	03 41.38	-0.1	
IMI	83.17	46 P	03 41.24	-0.3	
LANF	83.21	41 P	03 42.03	0.5	
MMK	83.25	44 iPc	03 43.40	1.3	
ORO	83.26	45 P	03 42.47	0.5	
	0.2s	6.90nm		5.2mb	
FEL	83.32	42 P	03 42.04	-0.2	
FIN	83.40	46 P	03 41.74	-0.9	
ZLA	83.57	43 ePc	03 43.80	0.3	
SLE	83.64	43 iPc	03 43.90	0.1	
PCP	83.64	46 P	03 44.08	0.2	
TNS	83.65	40 ePc	03 44.50	0.7	
TMA	83.89	44 ePc	03 45.70	0.4	
PGF	83.97	48 iPc	03 45.80	0.1	
	1.0s	91.60nm		5.7mb	
LLS	83.97	43 ePc	03 46.50	0.8	
MUD	84.21	34 iPc	03 47.50	1.2	
	1.1s	95.00nm		5.6mb	
BOB	84.29	46 P	03 48.09	0.9	
	0.8s	64.50nm		5.6mb	
VDL	84.30	44 ePc	03 48.10	0.7	
OSS	84.76	44 ePc	03 50.40	0.8	
SAL	85.04	45 P	03 51.61	0.8	
	0.8s	120.90nm		5.9mb	
BDI	85.12	46 P	03 50.86	-0.5	
	1.3s	25.90nm		5.0mb	
NAO	85.13	29 P	03 52.18	1.3	
NB2	85.31	29 P	03 52.50	0.6	
	1.0s	51.90nm		5.4mb	
OGA	85.37	43 iPc	03 53.40	0.7	
MOTA	85.41	43 iPc	03 52.90	0.1	
		i	04 19.80	102km	
GRF	85.44	41 ePc	03 53.60	0.8	
		e(pP)	04 18.90	95km	
		e(sP)	04 31.10		
NRA0	85.48	30 iPd	03 53.30	0.7	
NRE0	85.48	30 ePc	03 52.70	0.1	
		PS	15 13.30		
SQTA	85.48	43 iPc	03 53.40	0.2	
	1.0s	46.70nm		5.4mb	
FUR	85.51	42 eP	03 53.80	0.7	
FIR	85.60	47 e(P)	03 53.00	-0.6	
WATA	85.73	43 iPc	03 54.50	0.1	
		i	04 19.70	95km	
WTTA	85.77	43 iPc	03 55.00	0.3	
	1.1s	48.80nm		5.4mb	
		i	04 21.90	102km	
CTI	85.82	44 P	03 55.15	0.3	
	1.3s	141.60nm		5.8mb	
HOF	85.85	40 iPc	03 55.40	0.6	
PGD	85.94	46 P	03 55.15	-0.4	
	0.8s	24.50nm		5.3mb	
SFI	86.03	46 P	03 55.68	0.0	
	1.1s	58.90nm		5.5mb	
CRE	86.11	47 P	03 55.25	-1.1	
	0.7s	15.60nm		5.1mb	
CLL	86.53	39 iPc	03 58.70	0.7	
	1.0s	78.00nm		5.7mb	
		ipP	04 24.00	95km	
WET	86.54	41 iPc	03 59.00	0.8	
	1.0s	175.00nm		6.0mb	
FVI	86.58	44 P	03 59.20	0.9	
	0.9s	44.70nm		5.5mb	
BHG	86.60	43 iPc	03 45.70	-12.8X	
		i	03 53.30	24kmX	
		i	03 59.10		
ARV	86.84	47 P	03 59.45	-0.3	
	0.7s	29.80nm		5.4mb	
KBA	86.95	43 iPc	04 00.70	0.3	
	1.1s	55.80nm		5.5mb	
		i	04 26.70	98km	
KHC	87.00	41 Pc	04 01.40	1.0	
	1.1s	54.00nm		5.5mb	
		e	04 22.00	75kmX	
		e	05 04.00		
		e	06 24.50		
GEC2	87.10	41 e(P)	04 01.40	0.4	
	0.8s	32.40nm		5.4mb	
BRG	87.15	39 iPc	04 01.80	0.8	
	1.0s	60.00nm		5.6mb	
		i	04 27.80	98km	
VOY	87.38	44 iPc	04 03.10	0.7	
		e	04 04.20	3kmX	
		ePP	04 29.40		
SDI	87.58	49 P	04 03.72	0.3	
	0.9s	44.80nm		5.5mb	
PRU	87.58	40 iPc	04 03.80	0.7	
	1.1s	248.00nm		6.2mb	
		pP	04 29.00	94km	
FAI	87.74	53 P	04 06.61	2.5	
	0.8s	23.40nm		5.3mb	
LJU	87.82	44 ePc	04 05.20	0.8	
		epP	04 30.00	92kmX	
		e	04 50.50		
		e	26 52.00		
UPP	88.55	30 iP	04 07.10	-0.4	
KSP	88.63	39 iPc	04 09.00	0.8	
	0.9s	40.00nm		5.5mb	
		e	04 34.00	93km	
SNA	88.68	161 iPc	04 08.20	0.2	
	0.9s	92.44nm		5.9mb	
SGO	88.78	50 P	04 09.06	0.0	
	1.0s	14.20nm		5.0mb	
PTJ	88.83	44 eP	04 08.90	-0.4	
MGR	89.00	50 P	04 10.14	0.0	
	1.1s	131.30nm		6.0mb	
ZST	89.40	42 iPc	04 12.00	0.2	
	0.6s	20.40nm		5.4mb	
		e	04 37.00	93km	
GRI	89.78	51 P	04 13.18	-0.7	
	0.4s	9.10nm		5.3mb	
SRO	90.25	42 iP	04 16.00	0.3	
UZD	90.57	43 eP	04 17.00	-0.3	
OJC	90.92	40 eP	04 20.00	1.2	
PSZ	91.29	42 iP	04 21.50	0.8	
NUR	91.92	29 iP	04 22.80	-0.3	
	0.4s	12.20nm		5.6mb	
KAF	92.34	27 iP	04 24.40	-0.7	
	0.7s	12.40nm		5.3mb	
UZH	92.77	41 ePc	04 28.00	0.6	
	1.4s	23.00nm		5.3mb	
		e	04 59.30	120kmX	
		e	08 20.40		
BZS	92.79	44 eP	04 20.00	-7.5X	
OHR	92.86	49 iP	04 29.30	1.3	
	1.2s	70.00nm		5.9mb	
SKO	93.21	48 iPc	04 30.00	0.4	
	0.8s	40.00nm		5.8mb	
		i	04 56.00	97km	
NVL	93.43	161 iPc	04 31.00	1.1	
	1.0s	46.00nm		5.8mb	
		e	04 55.00	88kmX	
KKB	94.44	48 iP	04 35.00	-0.2	
BCAO	94.82	85 iPc	04 37.60	0.1	
	0.3s	35.00nm		6.3mb	
		i	05 04.30	99km	
MMB	94.97	48 iPc	04 37.00	-0.7	
RZN	95.68	48 iPc	04 40.00	-1.1	
MLR	95.81	44 eP	04 42.00	0.4	
PVL	95.83	46 eP	04 40.00	-1.5	
VRI	96.26	43 eP	04 31.50	-12.0X	
SUR	98.52	122 iPd	04 54.00	-0.1	
	0.5s	49.00nm		6.3mb	
OBN	99.60	32 (P)	04 57.60	-0.7	
	1.0s	11.30nm		5.4mb	
Z	20s	94.30um		7.3MszX	
		(pP)	05 24.20	99km	
		(sP)	05 36.10		
		ePP	09 04.90		
MDJ	126.02	337 ePKP	10 17.30	0.0	
FRU	126.44	26 iPKPc	10 18.30	0.1	
	1.8s	60.00nm			
		e	10 57.00		
		e	11 07.00		
RIV	126.73	230 ePKP	10 19.00	0.1	
CNB	127.48	228 iPKPc	10 20.00	-0.5	
ARMA	127.60	234 ePKP	10 20.30	-0.6	
	0.7s	10.00nm			
CAN	127.74	228 iPKPc	10 20.40	-0.5	
MAT	128.03	324 iPKPc	10 20.00	-1.4	
	0.8s	17.16nm			
CN2	128.25	340 ePKP	10 20.40	-1.1	
BWA	128.56	228 iPKPc	10 20.90	-1.6	
TOO	129.19	223 iPKPc	10 23.30	-0.3	
KSH	129.77	28 iPKPd	10 25.00	0.3	
WMQ	130.16	15 iPKPc	10 25.00	-0.3	
SNY	130.63	340 ePKP	10 25.30	-0.8	
BJI	134.43	346 ePKP	10 33.00	-0.4	
HHC	134.55	351 PKP	10 34.60	0.8	
STK	134.81	228 iPKPc	10 33.50	-0.9	
	1.1s	0.50nm			
		i	11 00.50		
CTA	135.37	246 iPKPc	10 35.00	-0.8	
	1.0s	7.50nm			
LZH	139.93	359 ePKP	10 36.00	-8.0X	
SSE	141.00	335 PKP	10 45.00	-0.8	
QIS	141.18	242 ePKP	10 39.00	-7.5X	
XAN	141.61	353 PKP	10 40.00	-6.9X	
POO	143.18	51 iPKPd	10 48.50	-1.5	
	0.5s	14.08nm			
WHN	143.89	344 ePKP	10 47.50	-3.3X	
LSA	144.32	18 ePKP	10 50.10	-2.1	
ASPA	144.75	234 iPKPc	10 50.30	-2.3	
	0.5s	330.00nm			
FORT	144.77	219 ePKP	10 50.10	-2.3	
	0.7s	75.00nm			
CD2	145.09	359 iPKPc	10 51.90	-1.1	
WRA	146.00	240 PKP	10 54.00	-0.8	
	0.7s	87.20nm			
WB5	146.01	240 iPKPc	10 53.60	-1.2	
HYB	147.43	48 ePKP	10 56.10	-1.0	
	1.0s	80.00nm			
		e	11 24.00		
SHL	148.39	20 iPKP	10 58.00	-0.7	
NWAO	148.61	203 ePKP	11 01.50	2.9	
GBA	148.78	55 PKP	10 59.00	-0.2	
GYA	149.36	354 iPKPc	11 00.20	0.1	
KLB	149.57	205 ePKP	10 59.60	-0.5	
MUN	149.85	202 ePKP	11 00.20	-0.3	
KOD	150.49	61 ePKP	11 03.00	0.7	
TLE	150.69	266 ePKPd	11 03.50	1.3	
KMI	150.85	1 PKPc	11 02.50	0.0	
BAL	150.87	204 ePKP	11 02.00	-0.1	
		e	11 07.10		
MTN	151.25	251 ePKP	11 09.30	6.3X	
HKC	151.62	339 iPKP	11 10.20	6.8X	
CVP	151.62	321 ePKPd	11 09.05	5.6X	
MRWA	152.38	204 ePKP	11 03.90	-0.4	
		e	11 10.40		
KNA	152.51	244 iPKPc	11 11.10	6.3X	
MEEK	153.34	212 ePKP	11 12.20	6.4X	
BAG	153.37	321 ePKP	11 06.00	-0.2	
DAV	155.16	297 ePKP	11 10.40	1.9	
CHTO	156.73	11 iPKPc	11 10.00	-0.5	
	1.1s	13.84nm			
		i	11 39.40		
BDT	158.27	11 ePKP	11 12.00	-0.3	
	0.8s	31.10nm			

S.D. = 0.9 on 383 of 405 obs.

---

* OCT 12, 1993 20h 01m 22.67± 1.83s
51.252 N ±21.0km 15.678 E ± 8.6km
DEPTH = 10.0km (geophysicist)
POLAND (548)

KSP	0.56	136 iP	01 31.70	-2.4
	0.3s	37.00nm		
		iS	01 40.80	
BRG	1.16	252 iPn	01 44.70	0.4
		iPg	01 46.10	
		iSg	02 06.00	
PRU	1.46	210 Pn	01 49.50	0.5
	0.4s	31.40nm		
		Pg	01 51.50	
		i	01 53.40	

```
                Sn    02 08.40
                Sg    02 12.80
CLL     1.68 273 iPn   01 50.80  -1.4
                iPg   01 53.90
                iSg   02 20.10
KHC     2.52 213 Pn    02 04.50   0.2
                ePg   02 10.00
                eSn   02 38.50
                eSg   02 48.50
MOX     2.64 258 ePg   02 13.80   7.8X
                eSg   02 52.70
WET     2.77 222 iPc   02 08.90   1.0
OJC     2.81 110 eP    02 10.50   2.0
                iS    02 46.00
GRF     3.25 243 ePn   02 14.50  -0.2
                ePg   02 28.10
                eSg   03 12.80
     S.D. = 1.6  on   8 of   9 obs.
-----------------------------------
   OCT  12, 1993  20h 21m 21.18± 0.75s
   37.756 N ± 8.5km   14.927 E ± 4.6km
   DEPTH =  56.9 ± 14.4 km
 SICILY                          (398)
      Felt strongly in the Randazzo
      area.

ATN     0.59  46 P     21 33.18  -0.8
MEU     0.65 180 P     21 34.97   0.1
MSI     0.67  48 P     21 34.75  -0.2
GIB     0.75 288 P     21 34.31  -1.8
GMB     0.85  61 P     21 37.93   0.6
SOI     0.95  70 P     21 39.93   1.4
MCT     1.03 263 P     21 43.58   3.7X
FAI     1.10 245 P     21 42.75   2.1
GRI     1.58  48 P     21 47.90   0.6
USI     1.67 305 P     21 46.38  -2.1
CVT     1.69 268 P     21 28.97 -19.9X
MGR     2.43  11 P     21 57.86  -1.3
PTS     2.52 249 P     21 33.25 -27.3X
ORI     2.59  27 P     22 02.68   1.2
SGO     2.81   6 P     22 03.46  -1.1
LCI     3.49  42 P     22 15.31   1.1
BRT     3.58  29 P     22 14.69  -0.8
SDI     4.04 348 P     22 22.13   0.2
VLO     4.47  51 ePn   22 31.50   3.6X
TPE     4.70  56 ePn   22 27.60  -3.6X
MNS     4.93 340 P     22 34.72   0.2
TIR     5.24  45 ePn   22 46.00   7.2X
LACI    5.35  42 ePn   22 46.10   5.8X
KBN     5.38  56 ePn   22 41.70   0.9
ASS     5.58 343 P     22 45.52   1.9
OHR     5.65  52 ePn   22 44.70   0.1
FNA     5.85  57 ePn   22 47.40   0.0
ARV     5.93 346 P     22 50.97   2.5
AGG     5.95  75 ePn   22 49.28   0.4
                eSn   23 57.00
LIT     6.34  66 iPn   22 55.25   0.9
                eSn   24 04.50
SKO     6.54  48 ePn   22 56.50  -0.5
                i     24 08.00
SFI     6.58 340 P     22 59.52   2.0
PGF     6.60 318 Pn    22 57.80  -0.1
                Sn    24 06.30
GRG     6.61  59 ePn   22 58.96   0.9
PII     6.83 332 P     23 02.11   1.1
KNT     7.04  59 ePn   23 02.84  -1.2
                eSn   24 20.50
BDI     7.10 334 P     23 05.82   1.0
SOH     7.22  62 ePn   23 05.84  -0.7
SRS     7.50  61 iPn   23 07.56  -2.8
OUR     7.50  67 ePn   23 08.72  -1.7
BOB     8.13 331 P     23 22.34   3.3X
PTJ     8.17   5 eP    23 13.50  -6.2X
LMR     8.49 314 Pn    23 20.90  -3.1X
FRF     8.55 315 Pn    23 22.40  -2.5
CTI     8.64 345 P     23 26.34   0.2
LRG     8.65 314 Pn    23 23.50  -2.7
LPG     9.86 324 eP    23 46.40   3.3X
      1.3s    24.20nm          5.1mb X
LPL     9.88 324 eP    23 46.70   3.4X
      1.4s    36.15nm          5.3mb X
LPL     9.88 324 Pn    23 46.80   3.5X
GEC2   11.12 356 Pn    23 57.60  -2.4
                Pg    24 44.60
                Sn    26 07.50
KHC    11.41 356 eP    24 03.50  -0.4
      1.0s     3.50nm          4.4mb
                e     24 12.50
BSF    11.70 332 eP    24 08.40   0.6
      1.2s    14.30nm          4.9mb
HAU    12.01 331 Pn    24 14.30   2.4
GRF    12.23 349 eP    24 14.80   0.1
     Z  18s     0.40um
CLL    13.62 355 e(P)  24 44.00  11.0X
NB2    23.42 355 P     26 26.20   0.5
      7.0s     2.50nm          2.8mb X
     S.D. = 1.4  on  42 of  56 obs.
-----------------------------------
?  OCT  12, 1993  20h 49m 23.45± 0.55s
   38.276 N ± 9.7km   88.604 E ± 9.2km
   DEPTH =  33.0km  (normal)
   4.7mb ( 22 obs.)  4.0Msz (  1 obs.)
 SOUTHERN XINJIANG, CHINA        (321)

WMQ     5.58 353 ePn   50 47.60   1.2
                Sg    52 20.00
LSA     8.81 165 eP    51 34.00   2.1
GTA     8.82  79 eP    51 28.00  -3.8X
      0.8s     4.00nm          4.6mb
     Z  12s     1.50um
     E  10s     0.75um
                pP    51 35.00
                PP    51 36.50
                eS    53 07.00
LZH    12.35  96 eP    52 15.00  -5.0X
      1.3s    28.00nm          5.2mb
     Z  15s     0.53um          4.2MszX
                pP    52 25.00
SHL    12.97 167 iP    52 29.00   0.7
                eS    56 34.00
BTO    16.70  75 eP    53 17.00   0.4
     N  13s     0.28um
     E  13s     0.36um
XAN    16.94  98 P     53 22.00   2.5X
      1.0s     5.40nm          3.6mb X
                sP    53 31.00
HHC    17.88  75 eP    53 32.60   1.3
      1.0s    11.00nm          3.9mb
     Z  10s     0.63um          4.1MszX
TIY    18.78  84 Pc    53 43.60   1.2
     Z  14s     0.71um
     E  10s     0.32um
GYA    19.24 122 P     53 53.00   5.1X
      1.0s    13.00nm          4.1mb
BJI    21.42  77 eP    54 14.00   3.4X
      1.2s    16.00nm          4.3mb
     Z  20s     0.60um          4.0Msz
CIT    22.20  44 eP    54 16.00  -2.3
WHN    22.55 102 eP    54 26.00   4.1X
MAIO   23.20 274 eP    54 32.00   3.6X
SVE    26.17 324 ePd   54 59.20   2.9X
GBA    26.50 205 P     55 05.00   5.3X
ARU    26.91 322 eP    55 05.00   1.9
MTA    33.47 290 eP    55 55.00  -6.4X
OBN    38.44 313 (P)   56 49.50   6.1X
KAF    44.24 323 iP    57 37.00   6.1X
UPP    48.55 320 iP    58 10.50   5.5X
NB2    51.50 323 P     58 26.90  -0.7
      0.9s     6.40nm          4.6mb
PRU    52.36 308 Pc    58 39.50   5.2X
BRG    52.47 310 e(P)  58 40.40   5.4X
CLL    52.91 310 e(P)  58 43.00   4.7X
KHC    53.22 308 eP    58 46.50   5.8X
GEC2   53.24 307 eP    58 41.10   0.2
GEC2   53.24 307 P     58 46.50   5.6X
      0.9s     2.74nm          4.3mb
                e     58 48.90
GRF    54.50 309 eP    58 56.40   6.4X
CDF    57.38 309 eP    59 14.30   3.4X
      1.2s    10.10nm          4.7mb
BSF    57.90 308 eP    59 16.60   2.0
      0.9s     6.70nm          4.7mb
LPG    58.87 306 eP    59 21.00  -0.6
      0.9s    12.60nm          5.0mb
LPL    58.88 306 eP    59 20.80  -0.7
      1.0s    20.60nm          5.2mb
LBF    59.99 308 eP    59 28.40  -0.6
      0.9s     5.55nm          4.7mb
SMF    60.22 308 eP    59 30.20  -0.3
      1.0s     9.40nm          4.9mb
SSF    60.25 308 eP    59 31.10   0.4
      0.9s     5.10nm          4.7mb
AVF    60.46 308 eP    59 32.00  -0.1
      1.1s    15.15nm          5.0mb
MAF    61.20 308 eP    59 35.70  -1.5
      1.2s    14.00nm          5.0mb
FLN    61.91 311 eP    59 42.60   0.7
      1.1s    12.95nm          5.0mb
LFF    62.93 307 eP    59 44.40  -4.3X
      1.0s    17.60nm          5.1mb
INK    69.17  15 eP    00 32.50   4.3X
      1.0s     3.00nm          4.3mb
WRA    72.08 135 P     00 44.20  -2.2
      0.6s     0.70nm          3.8mb
WR2    72.10 135 eP    00 43.60  -2.9
      0.6s     3.40nm          4.5mb
                i     00 48.80
YKA    77.85  11 eP    01 23.10   4.3X
      0.7s     4.80nm          4.6mb
     S.D. = 1.5  on  21 of  44 obs.
-----------------------------------
   OCT  12, 1993  21h 04m 52.45± 0.44s
   13.048 N ± 7.6km   51.063 E ± 5.5km
   DEPTH =  10.0km  (geophysicist)
   5.0mb ( 36 obs.)  4.8Msz (  6 obs.)
 EASTERN GULF OF ADEN            (415)
      Mw 5.2 (HRV).
      CENTROID, MOMENT TENSOR    (HRV)
      Data Used: GDSN
      L.P.B.: 19S, 36C
      Centroid Location:
      Origin Time        21:04:52.7 0.4
      Lat 13.48N 0.07 Lon  50.29E 0.06
      Dep  15.0 FIX Half-duration  1.1
      Moment Tensor;   Scale 10**16 Nm
        Mrr=-4.32 0.51  Mtt= 5.93 0.41
        Mff=-1.62 0.78  Mrt= 3.37 1.88
        Mrf= 0.31 1.23  Mtf=-3.15 0.41
       Principal Axes:
        T  Val=  7.86   Plg=14  Azm= 18
        N       -2.11      24      281
        P       -5.74      62      136
      Best Double Couple:Mo=6.8*10**16
       NP1:Strike=137 Dip=37 Slip= -48
       NP2:        269     63      -117

KMSA    9.62 320 eP    07 16.00   1.9
RYD    12.35 341 eP    07 48.00  -3.3X
AAE    12.71 253 P     07 57.50   1.0
MJMA   13.85 338 eP    08 08.67  -2.6
QASM   14.78 332 eP    08 23.33  -0.1
UQSK   15.09 328 eP    08 27.67   0.1
WAJH   18.87 316 eP    09 15.33   0.1
NAI    20.06 226 eP-   09 28.00  -1.2
     Z  16s     1.11um          4.3MszX
BOM    21.70  72 eP    09 55.20   9.6X
                eS    13 57.20
POO    22.59  73 eP    10 02.50   7.9X
MAIO   24.36  17 iPd   10 13.60   1.8
      0.9s    23.44nm          4.8mb
TAB    25.27 351 iP+   10 23.00   2.4
ASH    25.64  13 eP    10 24.10   0.3
      0.8s   100.00nm          5.6mb
                S     14 50.80
GBA    25.67  86 P     10 26.00   1.7
ERE    27.64 349 iP    10 44.00   1.7
                eS    15 26.00
GRO    30.55 352 eP    11 09.00   0.7
     Z  12s     2.00um          5.0MszX
     N  20s     6.00um
     E  18s     5.50um
PYA    31.63 349 eP    11 18.00   0.1
      1.3s    40.00nm          5.2mb
     Z  18s     2.00um          4.8Msz
     N  18s     1.50um
     E  18s     1.50um
                eS    16 30.00
BCAO   33.23 258 iPc   11 32.90   0.8
      0.6s     6.00nm          4.7mb
ANN    33.83 342 eP    11 36.00  -0.9
     Z  16s     1.50um          4.8MszX
     N  16s     1.50um
                e     12 46.00
                eS    16 57.00
FRU    35.99  30 eP    11 58.00   2.5
      2.0s    40.00nm          4.9mb
     Z  28s     1.60um          4.6MszX
     N  28s     1.40um
     E  28s     1.50um
                e     17 40.00
CFR    37.49 333 eP    12 04.00  -4.0X
```

12d 21h

```
OHR     38.47 322 eP     12 14.50  -1.9
SKO     38.63 324 eP     12 16.40  -1.3
KIS     38.65 336 eP     12 18.00   0.3
     Z  20s      0.50um          4.3Msz
                  e      12 22.00
                  eS     18 16.00
VRI     38.66 333 eP     12 17.00  -0.9
MLR     38.73 331 eP     12 27.00   8.4X
SHL     40.33  66 iP     12 32.00  -0.2
                  eS     18 44.00
LSA     40.60  59 eP     12 35.60   0.9
     1.0s     34.00nm          5.0mb
     N  15s      0.74um
UZH     42.73 332 eP     12 53.50   2.2
OBN     43.45 348 (P)    12 57.00  -0.2
     1.5s     35.00nm          4.9mb
     Z  16s      0.70um          4.7MszX
     N  16s      0.60um
     E  16s      0.60um
                  e      14 33.00
                  e      14 45.00
                  eS     19 31.00
ARU     43.65   6 eP     13 00.00   1.3
     Z  16s      1.00um          4.8MszX
     N  16s      0.50um
     E  16s      0.50um
                  e      14 40.00
MOS     43.86 349 eP     13 02.00   1.6
                  e      14 48.00
WMQ     43.88  39 eP     13 01.50   0.6
     1.0s     22.00nm          4.9mb
SVE     44.29   8 ePd    13 05.00   1.1
     N  15s      1.00um
     E  15s      0.30um
ZST     44.97 328 e(P)   13 10.30   0.8
CHTO    46.29  76 eP     13 20.30  -0.1
KBA     46.32 325 iPd    13 21.20   0.7
     1.0s     14.50nm          5.0mb
BDT     46.37  79 eP     13 21.00   0.0
KSP     47.08 330 eP     13 24.30  -1.9
GEC2    47.15 327 P      13 25.10  -1.8
     0.5s      0.67nm          4.0mb X
                  e      13 27.70
                  e      13 33.20
KHC     47.38 327 eP     13 24.00  -4.7X
                  e      13 31.00
                  e      14 12.50
PRU     47.40 329 eP     13 29.00   0.3
NST     47.53  81 eP     13 30.00  -0.2
BRG     48.25 329 e(P)   13 34.20  -1.2
LMR     48.69 317 eP     13 30.00  -8.9X
     1.2s     34.50nm          5.3mb
FRF     48.70 317 eP     13 30.10  -8.8X
     1.3s     53.05nm          5.4mb
LRG     48.84 317 eP     13 30.40  -9.6X
     1.4s    125.90nm          5.8mb
GRF     48.96 327 eP     13 30.60 -10.3X
GTA     50.24  49 eP     13 51.40   0.4
     1.0s      6.00nm          4.5mb
     Z  28s      1.22um          4.8MszX
     E  20s      0.93um
                  pP     13 56.00  15kmX
                  PcP    15 10.00
                  eS     21 03.00
CDF     50.50 323 eP     13 47.90  -4.9X
     1.5s     31.85nm          5.0mb
BSF     50.51 322 eP     13 47.70  -5.2X
     0.9s      7.35nm          4.6mb
SMF     51.79 320 eP     13 56.80  -5.7X
     1.1s     13.45nm          4.8mb
LBF     51.84 320 eP     13 57.80  -5.2X
     1.0s     23.20nm          5.1mb
LOR     52.04 321 eP     13 59.00  -5.4X
     1.4s     29.20nm          5.0mb
KAF     52.11 346 eP     14 05.70   1.0
SSF     52.17 320 eP     14 00.40  -5.0X
     1.0s     18.40nm          5.0mb
BGF     52.38 319 eP     14 01.10  -5.9X
     1.4s     41.40nm          5.2mb
DOU     52.85 324 P      14 04.60  -5.8X
GYA     53.63  67 P      14 15.60  -1.1
     Z  24s      0.66um          4.6MszX
KIC     55.32 269 P      14 33.51   4.4X
     0.8s     11.00nm          4.9mb
TIC     55.53 269 P      14 31.75   1.1
     0.7s      5.50nm          4.7mb
LKO     55.57 273 P      14 30.36  -0.6
     0.8s      8.50nm          4.8mb
LIC     55.62 269 P      14 31.47   0.2
     0.7s      8.50nm          4.9mb
     Z  20s      0.21um          4.2Msz
NB2     55.94 338 P      14 30.30  -2.6
     1.1s      7.10nm          4.6mb
XAN     56.25  58 P      14 34.00  -1.6
     1.0s      8.90nm          4.7mb
     Z  25s      0.33um          4.3MszX
                  pP     14 41.00  23kmX
BTO     58.12  50 eP     14 48.00  -0.8
HHC     59.32  50 eP     14 57.60   0.4
     1.3s     19.00nm          5.1mb
     Z  30s      1.25um          4.9MszX
TIY     59.54  54 eP     14 57.40  -1.3
     Z  20s      1.50um          5.1Msz
     E  21s      1.96um
                  S      23 08.00
NRI     60.98  14 ePd    15 06.00  -1.9
     2.2s     48.00nm          5.2mb
     Z  18s      2.80um          5.5Msz
                  e      15 53.00
BJI     62.70  52 eP     15 19.00  -0.9
     1.2s     15.00nm          5.1mb
     Z  24s      0.64um          4.7MszX
CIT     62.99  38 eP     15 20.80  -0.9
TIA     63.15  56 eP     15 21.80  -1.2
NJ2     64.45  61 Pc     15 31.00  -0.6
CN2     69.84  48 eP     16 05.20  -0.2
     1.0s     15.00nm          5.1mb
DAG     72.80 347 eP     16 22.20  -0.4
YAK     73.25  29 eP     16 23.70  -1.7
     1.7s     57.00nm          5.4mb
TIK     73.86  19 eP     16 28.00  -0.8
     1.3s     24.00nm          5.1mb
     Z  20s      0.50um          4.8Msz
                  e      19 10.00
NVL     87.79 192 eP     17 46.00   3.5X
     1.6s     39.00nm          5.5mb
WRA     88.21 111 P      17 47.00   1.4
     1.1s      5.00nm          4.7mb
WR2     88.23 111 iPc    17 46.60   0.9
     0.7s     11.40nm          5.3mb
ASPA    88.75 115 iPd    17 49.10   1.0
     1.2s     10.00nm          5.0mb
     S.D. = 1.3  on  61 of  81 obs.
-----------------------------------
?  OCT  12, 1993  22h 22m 47.42± 0.59s
    1.441 N ±15.8km  127.108 E ±21.4km
    DEPTH =  33.0km  (normal)
    4.9mb (  4 obs.)
 HALMAHERA, INDONESIA              (267)

WR2     22.42 162 iPd    27 45.10   0.3
     0.3s     62.10nm          5.5mb
                  i      27 51.80
QIS     25.06 151 iPc    28 11.30   0.9
ASPA    25.82 166 iPc    28 16.60  -1.0
     0.4s      8.70nm          4.7mb
STK     35.87 159 iPc    29 45.20  -1.2
     3.1s      0.20nm          2.5mb X
ARMA    39.37 146 iPd    30 15.80  -0.1
     0.6s     18.00nm          5.0mb
BJI     39.69 347 eP     30 17.50  -0.7
     1.0s      6.00nm          4.3mb
BWA     40.90 153 iPc    30 29.40   1.0
CAN     41.91 153 iPc    30 36.60   0.0
GUN     47.39 308 P      31 21.40   0.3
PKI     47.62 307 P      31 23.20   0.3
KKN     47.81 307 P      31 24.20  -0.1
DMN     47.87 307 P      31 25.60   0.8
GBA     50.59 286 P      31 45.00  -0.5
     S.D. = 0.8  on  13 of  13 obs.
-----------------------------------
*  OCT  13, 1993  00h 05m 44.50± 3.68s
    17.830 N ±25.0km   68.519 W ±34.7km
    DEPTH =  33.0km  (normal)
 MONA PASSAGE                      ( 89)

MGP      1.37  82 P      06 07.60   0.1
MCP      1.46  66 P      06 08.60  -0.2
PORP     1.81  83 P      06 13.88   0.1
APR      1.81  70 P      06 14.30   0.4
CLLP     1.87  82 P      06 14.60  -0.1
SJG      2.27  83 iP     06 27.00   6.5X
CPD      2.49  85 P      06 23.20  -0.4
LPR      2.56  79 P      06 24.80   0.1
MORO     6.92 178 eP      07 26.10  -0.3
                  iS     08 40.10
OLLA     7.94 168 eP      07 41.00   0.3
                  iS     09 05.90
     S.D. = 0.3  on   9 of  10 obs.
-----------------------------------
?  OCT  13, 1993  00h 11m 04.79± 2.59s
    30.007 N ±17.0km   52.248 E ±33.2km
    DEPTH =  33.0km  (normal)
    3.8mb (  1 obs.)
 NORTHERN IRAN                     (348)

RYD      7.27 225 eP      12 51.50   0.1
                  eS     14 11.50
MJMA     7.41 238 eP      12 54.33   0.8
QASM     8.63 245 eP      13 10.67   0.2
UQSK     9.70 247 eP      13 24.33  -0.9
KMSA    11.88 218 eP      13 54.67  -0.3
HFS     39.62 331 eP      18 34.70   0.0
     0.3s      0.60nm          3.8mb
     S.D. = 0.7  on   6 of   6 obs.
-----------------------------------
&  OCT  13, 1993  00h 39m 00.67s
    32.400 N          115.063 W
    DEPTH =   6.0km  (geophysicist)
 CALIF.-BAJA CALIF. BORDER REGION( 45)
      <PAS-P>. ML 3.8 (PAS).

PLM      1.79 303 eP      39 30.34  -2.1
PEC      2.30 311 (P)     39 37.45  -2.4
SSK      2.85 310 (P)     39 45.34  -2.4
GSC      3.24 334 ePn     39 52.29  -0.8
TUC      3.62  90 ePn     39 58.30  -0.3
ABL      4.24 306 (Pn)    40 08.44   0.9
ISA      4.31 320 ePn     40 07.52  -0.9
TPNV     4.64 348 (Pn)    40 11.58  -1.5
BCH      5.02 305 ePn     40 17.67  -0.7
MSU      6.54  20 ePn     40 39.57  -0.4
                  ePg    40 58.20
SRU      7.64  28 (P)     40 53.85  -1.6
PV10     7.73  38 ePc     40 56.26  -0.4
PV09     7.77  37 eP      40 56.57  -0.8
DUG      7.99  12 (P)     41 00.11  -0.1
PV08     8.08  39 ePd     41 01.49  -0.2
EMUT     8.16  24 (P)     41 01.94  -0.7
     16 obs. associated
-----------------------------------
   OCT  13, 1993  00h 52m 33.63± 0.16s
    7.576 N ± 3.2km  121.484 E ± 3.5km
    DEPTH =  43.5km  ( 33 depth phases)
    5.3mb ( 57 obs.)  4.8Msz ( 19 obs.)
 MINDANAO, PHILIPPINE ISLANDS      (259)
      Mw 5.5 (HRV).
      CENTROID, MOMENT TENSOR      (HRV)
      Data Used: GDSN
      L.P.B.: 42S, 72C
      Centroid Location:
      Origin Time        00:52:35.1 0.3
      Lat  7.63N 0.03 Lon 121.54E 0.03
      Dep  38.2 2.1 Half-duration  1.5
      Moment Tensor;    Scale 10**17 Nm
        Mrr= 1.50 0.04  Mtt= 0.36 0.06
        Mff=-1.86 0.08  Mrt=-0.70 0.09
        Mrf= 0.99 0.09  Mtf=-0.19 0.04
       Principal Axes:
        T  Val=  2.08  Plg=63  Azm=212
        N        0.05      22      354
        P       -2.13      15       90
      Best Double Couple:Mo=2.1*10**17
       NP1:Strike=208 Dip=36 Slip= 130
       NP2:        342      64       65

CTB      2.72  98 iPd      53 17.00   1.1
                  eS     53 50.00
PPR      3.49 309 iPd      53 22.00  -4.8X
MAP      3.68  42 iPc      53 29.00  -0.5
                  iS     54 09.00
DAV      4.09  97 eP+      53 35.20  -0.1
     0.8s   3253.73nm
BIP      4.77  82 iPd      53 47.50   2.6
TSM      4.85 228 iPc      53 43.70  -2.4
     0.3s    333.20nm
                  e      54 38.20
KKM      5.45 254 iPc      53 56.10   1.5
                  iS     54 52.50
PGP      5.91 355 eP       54 00.50  -0.6
                  eS     55 05.50
```

```
GQP     6.36   8 iPc   54 06.20  -1.1
                eS    54 40.00
TGY     6.51 355 ePd   54 18.00   8.5X
QCP     7.03 357 eP    54 34.00  17.3X
BAG     8.82 354 eP-   54 44.00   2.2
                eS    56 28.40
CVP    10.07   2 eP    55 03.00   4.2X
QIZ    16.05 316 P     56 17.00  -1.0
    N  12s     7.10um
HKC    16.25 335 eP    56 22.00   1.5
                S     59 32.00
GZH    17.29 334 Pd    56 38.00   4.4X
    Z  16s     4.75um          5.0MszX
    N  14s     3.58um
    E  13s     2.38um
QZH    17.49 351 eP    56 36.60   0.6
    N  18s     0.81um
    E  18s     2.42um
KGM    18.92 254 ePd   56 54.30   0.6
LEM    19.90 224 iPd   57 06.50   1.8
       1.0s  160.00nm          5.3mb
                eS    01 00.00
IPM    20.56 263 ePc   57 11.00  -0.4
SNG    20.70 270 eP    57 13.20   0.4
       1.0s  194.00nm          5.4mb
                eS    01 06.00
PCT    20.91 291 eP    57 17.00   2.0
LOE    21.60 299 eP    57 21.00  -0.9
NNT    21.98 285 eP    57 27.00   1.3
NST    22.39 293 eP    57 29.50  -0.3
MTN    22.44 155 eP    57 30.10  -0.2
SSE    23.40 359 Pc    57 39.00  -0.5
    Z  20s     1.80um          4.5Msz
    N  16s     1.50um
    E  16s     0.50um
                pP    57 51.50  51km
                sP    58 01.20
                S     01 48.00
GYA    23.48 325 iPd   57 41.80   1.3
       1.8s  150.00nm          5.2mb
    Z  16s     4.68um          5.0MszX
    N  13s     3.34um
    E  13s     1.77um
GUMO   23.74  73 eP    57 42.10  -0.8
       1.0s  278.00nm          5.7mb
PJG    23.74  73 eP    57 42.10  -0.8
GUA    23.77  74 eP    57 42.80  -0.5
       0.8s  191.04nm          5.7mb
WHN    23.81 345 eP    57 44.50   1.1
       1.4s   68.00nm          5.0mb
    N  14s     2.73um
    E  15s     3.23um
BDT    23.94 296 eP    57 46.50   1.6
       0.8s   51.90nm          5.1mb
NJ2    24.47 355 Pc    57 50.40   0.5
    Z  18s     0.88um          4.3Msz
    N  12s     1.63um
    E  11s     1.08um
                S     02 11.00
CHTO   24.59 299 iPc   57 51.00  -0.2
       1.5s  157.66nm          5.3mb
                e     01 30.00
WWKK   24.73 116 eP    57 53.40   0.8
KMI    25.00 316 Pc    57 55.50   0.2
       1.5s  180.00nm          5.4mb
    Z  20s     2.50um          4.7Msz
    N  13s     2.50um
    E  13s     1.90um
                pP    58 07.00  45km
                S     02 16.00
                sS    02 36.00
CD2    28.53 327 iPc   58 26.20  -1.2
    Z  16s     4.57um          5.2MszX
    E  13s     3.68um
                S     03 12.40
MBL    28.60 183 iPc   58 27.10  -1.0
       1.0s   74.00nm          5.3mb
XAN    28.78 338 eP    58 28.50  -1.1
    Z  16s     2.94um          5.0MszX
    N  13s     1.47um
    E  13s     2.94um
                pP    58 41.00  49km
                sP    58 48.00
                S     03 18.00
                sS    03 38.00
TIA    28.78 353 eP    58 28.30  -1.2
    Z  24s     1.68um          4.6MszX
                eS    03 16.00
WRA    30.13 155 P     58 40.20  -1.6
       0.8s   11.10nm          4.7mb
WR2    30.15 155 iPc   58 39.70  -2.3
       0.8s   22.80nm          5.0mb
PMG    30.64 123 eP    58 45.50  -0.8
TIY    31.10 346 eP    58 49.50  -0.8
    Z  18s     2.66um          4.9Msz
    E  13s     1.31um
                S     03 53.00
MAT    32.62  25 (P)   59 01.00  -2.5
       1.6s   26.67nm          4.8mb
    Z  20s     2.13um          4.8Msz
                eS    04 14.00
LZH    32.64 333 eP    59 03.40  -0.4
       2.0s   83.00nm          5.2mb
    Z  15s     3.68um          5.2MszX
    E  13s     2.92um
                pP    59 16.00  48km
                eS    04 18.00
BJI    32.67 352 eP    59 03.50  -0.3
       2.0s   64.00nm          5.1mb
    Z  16s     1.17um          4.7MszX
                eS    04 16.00
QIS    33.15 148 eP    59 08.00  -0.3
ASPA   33.34 159 iPc   59 09.10  -0.8
       1.0s   14.50nm          4.8mb
    Z  19s     1.00um          4.5Msz
                ipP   59 21.90  49km
SHL    33.41 306 iP    59 09.80  -0.9
       1.0s   90.00nm          5.6mb
                iS    04 32.00
MEEK   34.12 185 iPd   59 15.20  -1.4
       1.0s  136.00nm          5.8mb
SNY    34.16   3 eP    59 15.40  -1.3
    Z  18s     1.54um          4.8Msz
HHC    34.29 347 P     59 18.00  -0.1
    Z  22s     1.94um          4.8Msz
    N  16s     1.08um
    E  13s     0.66um
                S     04 40.00
BTO    34.44 344 P     59 18.00  -1.3
    N  12s     0.53um
    E  15s     1.71um
LSA    36.00 312 eP    59 34.00   0.9
       1.0s   34.00nm          5.2mb
    N  15s     0.74um
    E  16s     0.81um
                S     05 12.00
                sS    05 26.00
CTA    36.74 139 iPc   59 40.00   1.1
                i     59 45.00  17kmX
MRWA   36.96 188 eP    59 40.20  -0.4
GTA    37.20 332 iPc   59 43.50   0.8
       1.5s  100.00nm          5.5mb
    Z  16s     7.09um          5.6MszX
    N  15s     2.46um
                pP    59 53.00  32kmX
                PP    01 12.00
                S     05 31.50
BAL    38.24 187 eP    59 51.20  -0.2
FORT   38.65 171 eP    59 54.20  -0.6
       0.5s   20.00nm          5.2mb
KLB    39.11 185 eP    59 57.60  -1.0
MUN    39.65 187 eP    00 02.20  -0.9
HYB    42.95 287 ePc   00 30.70   0.3
       1.0s  100.00nm          5.5mb
                e     00 43.50  47km
                eS    06 56.00
KOD    43.54 277 eP    00 36.00   0.4
                ePP   02 24.00
GBA    43.66 282 Pc    00 36.40   0.2
STK    43.68 155 eP    00 36.00  -0.1
       0.7s    5.10nm          4.4mb
                epP   00 47.70  42km
ADE    45.33 160 iPd   00 50.60   1.2
BRS    46.11 140 iP    00 55.00  -0.6
                i     01 06.00  38km
WMQ    46.63 326 iPd   01 01.00   1.4
    Z  22s     2.75um          5.2Msz
    N  15s     1.62um
                pP    01 11.20  34km
                PcP   02 34.00
                PP    02 45.00
                PcS   06 29.00
                sS    08 07.00
                SS    11 09.00
NDI    46.66 303 eP    00 58.00  -2.0
IRK    46.73 346 eP    01 01.00   0.8
       1.8s   46.00nm          5.1mb
    Z  18s     0.88um          4.8Msz
    N  16s     0.84um
    E  17s     0.77um
                e     02 50.00 612kmX
POO    47.53 288 iPc   01 09.20   2.2
       1.0s   48.00nm          5.4mb
                iS    08 08.00
ARMA   47.58 144 iPd   01 08.30   1.0
       0.9s   28.00nm          5.3mb
BOM    48.54 288 eP    01 07.00  -7.8X
                eS    08 11.00
BWA    48.93 150 eP    01 20.10   2.4
                e     01 22.90   9kmX
                i     01 31.90
CAN    49.94 150 eP    01 26.60   1.3
                e     01 29.90  11kmX
                i     01 37.10
CNB    50.11 150 eP    01 28.20   1.5
       0.9s   22.00nm          5.2mb
                i     01 39.00  37km
TOO    50.20 155 eP    01 29.00   1.7
       0.9s   26.00nm          5.3mb
                e     03 25.20 654kmX
KSH    51.62 315 iPc   01 40.00   1.7
       1.0s   50.00nm          5.5mb
    N  14s     2.14um
    E  14s     1.21um
                sP    01 53.00
                PcP   02 52.00
                PP    03 39.00
                eScP  06 45.00
                PcS   06 46.00
                S     09 00.00
                sS    09 15.00
                ScS   11 24.00
                eSS   12 32.00
DZM    53.00 125 iPc   01 48.10  -0.7
FRU    54.03 318 eP    01 56.00   0.0
       2.5s  240.00nm          5.8mb
                e     02 07.80  41km
                e     09 36.00
PET    54.43  27 eP    02 07.00   8.3X
       2.0s  270.00nm          5.9mb
    Z  20s     0.90um          4.8Msz
                e     02 19.00  42km
                eS    09 38.00
TIK    64.16   3 eP    03 04.00  -1.5
       1.0s   19.00nm          5.1mb
    Z  18s     0.60um          4.8Msz
                i     03 17.00  45km
                e     03 40.00
                e     05 36.00
                e     12 50.00
ASH    64.25 308 P     03 06.70  -0.1
                eS    11 49.00
NRI    65.45 348 iPc   03 12.10  -1.8
       2.2s  105.00nm          5.5mb
    Z  18s     2.50um          5.5Msz
                e     03 24.00  40km
                e     03 41.00
                eS    11 55.00
SVE    67.98 329 ePc   03 30.00  -0.2
       1.9s  140.00nm          5.7mb
    N  17s     0.50um
    E  17s     0.40um
                eS    12 31.00
                e     13 25.00
                eSS   16 55.00
ARU    68.89 328 eP    03 35.00  -0.9
       1.8s  150.00nm          5.7mb
    Z  15s     0.50um          4.9MszX
    N  14s     0.50um
    E  16s     0.50um
                e     03 49.00  49km
                eS    12 41.00
                e     13 32.00
DHR    69.98 295 eP    03 43.00  -0.1
ILT    71.95  20 iPd   04 09.50  15.3X
       0.8s   86.00nm
    Z  20s     0.80um          5.0Msz
    N  20s     0.50um
TAB    73.69 307 iP+   04 07.00   1.8
CSY    74.11 185 iPd   04 06.40  -0.3
       0.7s   68.50nm          5.7mb
```

13d 01h

```
GRO     74.51 313 eP+   04 10.00    0.3
        1.5s   160.00nm          5.8mb
      Z  14s     0.50um          5.0MszX
      N  16s     2.00um
      E  14s     1.00um
MTA     75.06 311 iPc+  04 13.00    0.2
        0.8s   120.00nm          5.9mb
                   i    04 27.60   51km
                   eS   13 54.60
ERE     75.21 309 iP+   04 15.00    1.1
        1.5s     1.00nm          3.5mb X
DRV     75.27 172 eP    04 12.00   -1.4
QASM    75.91 295 eP    04 18.00   -0.1
PYA     76.46 313 iP    04 19.00   -1.8
        1.5s   130.00nm          5.7mb
      Z  16s     1.00um          5.2MszX
                   i    04 34.00   53km
                   e    07 18.00
                   iS   14 08.00
UQSK    76.98 295 eP    04 23.33   -0.8
SOC     78.86 313 eP    04 23.00  -11.0X
                   e    04 34.00   36km
                   e    04 47.00
                   e    07 30.00
                   eS   14 24.00
                   e    14 48.00
                   eSS  19 34.00
SVW     79.98  29 eP    04 40.71    1.0
        1.0s    24.89nm          5.1mb
MOS     80.33 325 iPc   04 42.00    0.4
        1.8s   180.00nm          5.7mb
      Z  18s     0.60um          5.0Msz
                   i    04 55.00   44km
ANN     80.59 314 eP    04 42.00   -1.2
        1.3s    50.00nm          5.3mb
                   eS   14 49.00
OBN     80.91 325 ePc+  04 44.00   -0.7
        1.5s   105.00nm          5.6mb
      Z  18s     1.20um          5.3Msz
      N  18s     0.20um
      E  18s     0.70um
                   i    04 58.00   48km
                   e    07 53.00
                   eS   14 48.00
                   ePPS 16 02.00
                   eSS  20 10.00
GAZ     80.92 306 eP    04 46.20    1.1
IMA     81.03  24 eP    04 45.67    0.4
        1.0s    27.29nm          5.2mb
                   e    04 58.30   42km
CRP     81.66  29 ePd   04 49.66    1.0
                   e    05 02.21   42km
SLKM    82.62  30 eP    04 53.39   -0.2
                   e    05 06.34   44km
SIM     82.84 314 eP    04 55.00    0.0
                   e    15 14.00
PMS     82.91  29 eP    04 55.90    0.8
        0.9s    38.40nm          5.5mb
PMR     83.10  29 eP    04 56.12    0.2
        1.1s    41.12nm          5.4mb
KAS     83.34 311 eP    04 59.00    1.3
FBA     83.50  25 eP    04 58.69    0.7
        0.8s     5.33nm          4.7mb
                   e    05 10.38   38km
TOA     84.46  28 eP    05 04.20    1.3
KLU     84.64  29 eP    05 04.70    0.8
NAI     84.89 268 iP+   05 08.00    1.7
      Z  20s     0.43um          4.8Msz
MAW     85.59 199 P     05 09.30    1.0
KAF     85.78 332 eP    05 09.00   -0.4
        0.6s    10.00nm          5.2mb
BCK     86.16 307 iP    05 10.70   -1.2
MNK     86.24 324 eP    05 10.00   -1.8
KIS     86.30 317 iP+   05 11.50   -0.8
      Z  19s     0.60um          5.0Msz
      E  19s     0.60um
                   e    15 43.00
                   e    16 49.00
ALT     86.35 309 eP    05 12.30   -0.6
BALM    86.41  29 eP    05 13.43    0.7
                   e    05 25.35   39km
ELL     86.78 306 eP    05 15.00   -0.1
KHL     86.89 308 iP    05 16.00    0.5
CFR     87.03 315 eP    05 14.00   -1.8
VRI     87.92 316 iPc   05 20.00   -0.2
INK     88.50  21 eP    05 23.50    1.0
        1.0s     5.00nm          4.8mb
```

```
MLR     88.52 316 eP    05 24.00    0.7
JMB     88.54 312 iP    05 23.00   -0.2
RZN     90.04 312 iPd   05 30.00   -0.6
UZH     90.40 319 eP    05 32.60    0.8
        1.0s    45.00nm          5.8mb
                   e    05 47.30   50km
                   e    09 11.00
                   e    16 15.00
MMB     90.79 312 iP    05 32.00   -1.8
KKB     91.21 312 iP    05 34.00   -1.7
OJC     91.64 321 eP    05 38.00    0.5
                   e    05 49.80   38km
HFS     92.19 332 ePKP  05 38.80   -1.0
        0.5s     1.70nm          4.8mb
SKO     92.39 313 eP    05 40.00   -1.1
DAG     92.76 352 eP    05 42.00   -0.2
NB2     93.02 333 PKP   05 41.80   -1.9
        0.8s     1.70nm          4.5mb
OHR     93.04 312 iP    05 42.00   -2.2
SRO     93.18 319 iP    05 46.30    1.7
UZD     93.31 318 eP    05 40.80   -4.5X
KSP     93.64 322 eP    05 46.80    0.1
                   e    06 00.00   44km
ZST     93.87 319 eP    05 47.60   -0.2
RES     94.92   9 eP    06 03.50   11.3X
        1.0s     3.00nm
PRU     94.96 322 eP    05 52.50   -0.3
                   e    06 05.90   45km
BUL     95.25 250 iPd   05 55.00    0.2
                   i    06 07.00   39km
CLL     95.47 323 iP    05 54.90   -0.2
        2.0s    45.00nm          5.6mb
KHC     95.82 321 eP    05 57.50    0.7
        1.0s     3.50nm          4.8mb
      Z  16s     0.80um          5.3MszX
      N  16s     0.50um
      E  16s     0.40um
                   e    06 10.50   43km
GEC2    95.84 321 P     05 56.90   -0.1
        0.8s     2.85nm          4.8mb
                   e    06 09.60   42km
                   e    09 38.80
                   e    09 48.40
                   e    09 53.70
                   e    10 06.50
MOX     96.52 323 eP    06 01.30    1.4
        2.2s    64.00nm          5.8mb
      Z  20s     0.20um          4.6Msz
GRF     97.09 322 ePKP  06 03.60    1.1
                   e    06 16.10   41km
YKA     98.09  23 eP    06 10.20    3.5X
        0.8s     1.50nm          4.6mb
RSSD   114.17  34 ePKP  11 10.36   -0.2
LTX    123.14  48 ePKP  11 27.55   -0.4
                   e    11 40.68
KIC    124.60 283 PKP   11 30.77   -0.3
        0.8s    17.50nm
LKO    124.60 287 PKP   11 30.49   -0.6
        1.0s    26.00nm
TIC    124.81 283 PKP   11 31.05   -0.4
        0.8s   360.00nm
LIC    124.91 283 PKP   11 31.09   -0.6
        1.0s    18.00nm
UYO    126.32  37 iPKPd 11 34.10    0.2
SOB1   162.49 263 ePKP  12 26.40   -6.2X
CNCB   166.97 136 PKP   12 39.30    2.1
LPB    167.08 134 PKP   12 40.00    2.9X
LPAZ   167.22 134 PKP   12 38.40    0.9
      S.D. = 1.1  on 150 of 164 obs.
-----------------------------------
?  OCT  13, 1993  01h 08m 10.29± 1.43s
   10.258 S ±18.2km  154.053 E ±14.4km
   DEPTH =  33.0km  (normal)
   4.4mb (  4 obs.)
 D'ENTRECASTEAUX ISLANDS REGION  (194)

DZM     16.71 136 iPd   12 03.00   -0.7
WR2     21.29 241 iPc   12 55.30   -1.1
        0.5s     4.10nm          4.1mb
ASPA    23.39 233 iPc   13 17.10   -0.2
        1.1s    17.50nm          4.5mb
STK     24.41 206 iPc   13 27.20    0.2
        0.7s    20.80nm          4.8mb
BWA     24.60 191 eP    13 28.80   -0.1
CNB     25.31 189 eP    13 36.50    0.9
        0.9s     9.00nm          4.4mb
CAN     25.37 190 eP    13 36.70    0.5
```

```
CHTO    61.54 298 eP    18 27.40    0.4
      S.D. = 0.8  on   8 of   8 obs.
-----------------------------------
   OCT  13, 1993  01h 26m 20.75± 0.65s
   42.511 N ± 7.2km    2.208 E ± 4.8km
   DEPTH =  10.0km  (geophysicist)
 PYRENEES                          (378)
      mbLg 3.1 (MDD). Felt (II) in the
      Bourg-Madame area, France.

MTHF     0.49  29 Pg    26 31.64    0.9
LSPF     0.49 333 Pg    26 31.19    0.5
PERF     0.49  93 Pg    26 30.56   -0.2
ETER     0.52 113 eP    26 30.52   -0.8
                   e    26 38.10
GRBF     0.60 304 Pg    26 31.84   -1.0
SALF     0.79 289 Pg    26 34.61   -1.6
LESF     0.86 308 Pg    26 36.91   -0.4
EGRA     1.90 261 eP    26 46.80   -6.6X
                   e    27 06.50
EROQ     2.16 219 iPd   26 58.36    1.1
                   e    27 24.00
ELIZ     2.82 285 eP    27 07.79    1.0
                   e    27 41.20
ECRI     3.49 273 iPc   27 16.62    0.4
                   e    27 56.60
      S.D. = 1.1  on  10 of  11 obs.
-----------------------------------
   OCT  13, 1993  01h 39m 12.32± 0.46s
   6.426 S ± 2.8km  154.934 E ± 3.2km
   DEPTH = 102.1 ±  4.2 km
   5.5mb ( 57 obs.)
 SOLOMON ISLANDS                   (193)

KVG      5.61 313 eP    40 35.50    0.8
HNR      5.79 121 eP    40 34.00   -3.3X
                   eS   41 49.00
CTA     15.98 211 iPd-  42 53.00    0.4
        3.0s   300.00nm          5.0mb
                   eS   46 00.00
CTAO    15.98 211 eP    42 53.30    0.7
BKM     17.14 132 iPd   43 07.00    0.0
DZM     19.12 146 iPd   43 28.80   -1.3
QIS     20.45 225 eP    43 47.00    3.1X
                   e    47 53.00
GUA     22.19 333 eP    44 00.50   -0.7
        1.1s   151.90nm          5.2mb
GUMO    22.25 333 eP    44 01.00   -0.8
PJG     22.25 333 eP    44 00.70   -1.1
ARMA    24.07 187 eP    44 19.00   -0.5
        1.1s   106.00nm          5.2mb
WR2     24.08 234 iPd   44 20.80    1.2
        0.6s   110.60nm          5.5mb
                   iScP 47 59.70
                   eS   48 32.90
WRA     24.09 234 P     44 21.00    1.3
MTN     24.31 253 iPd   44 23.20    1.4
ASPA    26.51 228 iPd   44 51.80    9.6X
        0.4s   118.30nm          5.8mb
                   iPcP 48 05.40
                   eS   49 14.00
                   ePcS 51 44.70
ASPA    26.51 228 iPc   44 42.10   -0.1
        0.9s    23.60nm          4.7mb
RIV     27.49 187 eP    44 51.00    0.1
STK     28.23 205 iPc   44 56.70   -0.9
        1.9s     8.30nm          4.0mb X
                   i    48 08.30
BWA     28.51 191 iPc   44 59.20   -1.0
                   i    45 06.70
                   i    45 35.30
CNB     29.20 189 iPc   45 06.30   -0.2
        1.0s    21.00nm          4.7mb
CAN     29.27 190 iPc   45 06.90   -0.1
                   i    45 15.20
                   e    45 42.80
ADE     32.10 206 eP    45 32.00    0.1
TOO     32.17 194 iPd   45 33.00    0.5
        0.6s    10.00nm          4.7mb
FORT    34.96 223 iPd   45 56.50    0.0
        0.6s    45.00nm          5.6mb
KUZ     35.66 151 P     46 02.40    0.1
                   e    46 16.20
MOZ     36.66 153 P     46 11.70    1.0
                   e    46 22.70
MBL     36.98 243 iPc   46 13.40   -0.3
URZ     37.53 151 P     46 18.10    0.1
```

```
HBZ     37.61 149 eP    46 19.20   0.5
QRZ     37.70 158 eP    46 15.70  -3.7X
PUZ     37.95 149 P     46 21.30  -0.4
NOZ     38.26 150 P     46 24.20   0.0
TSM     38.50 285 ePd   46 27.00   0.5
THZ     38.65 158 P     46 27.10  -0.4
MNG     38.70 155 P     46 27.30  -0.5
TCW     38.70 156 P     46 28.10   0.3
MRW     38.89 156 eP    46 29.40   0.0
SNZO    38.95 156 (P)   46 29.98   0.1
        0.5s    50.56nm         5.6mb
MTW     39.15 155 P     46 30.70  -0.9
BLW     39.32 155 eP    46 32.50  -0.5
COOL    39.93 228 eP    46 38.20   0.0
MEEK    39.98 236 iPc   46 38.60  -0.1
MQZ     40.27 160 P     46 40.00  -0.7
CVP     40.55 307 ePc   46 44.00   0.7
KKM     40.58 287 ePc   46 47.10   3.3X
BAG     40.87 304 ePc   46 46.00  -0.2
        1.1s   177.22nm         5.8mb
                eS      52 52.00
KLB     42.80 229 iPc   47 01.20  -0.5
        0.8s    38.00nm         5.3mb
MRWA    43.14 233 eP    47 04.40   0.0
BAL     43.16 231 iPc   47 04.50  -0.1
        0.8s    61.00nm         5.5mb
MUN     44.15 230 eP    47 12.80   0.2
MAJO    45.53 341 eP    47 21.61  -1.8
        0.5s    26.09nm         5.3mb
MAT     45.53 341 eP    47 22.00  -1.4
        0.7s    15.75nm         4.9mb
LEM     46.99 267 iPc   47 36.50   1.0
QZH     47.15 313 Pc    47 36.50   0.1
        0.8s    55.00nm         5.4mb
QIZ     51.12 301 P     48 07.80   0.8
NJ2     51.44 320 Pd    48 08.60  -0.6
KGM     52.21 278 iPc   48 15.20  -0.1
        1.1s   273.90nm         6.2mb
WHN     53.49 316 Pd    48 24.80   0.4
YSS     54.30 350 eP    48 28.00  -2.1
        0.8s    20.00nm         5.2mb
DL2     54.65 328 eP    48 31.50  -1.3
        0.8s    65.00nm         5.7mb
IPM     54.92 280 ePc   48 34.70  -0.5
HKL     54.99  59 ePc   48 36.22   0.1
AFR     55.02 107 iPc   48 34.60  -1.3
        0.9s   111.40nm         5.9mb
PAE     55.22 107 iPc   48 36.10  -1.2
        1.0s   124.00nm         5.9mb
TIA     55.28 323 eP    48 34.90  -2.5
PPN     55.35 107 iPc   48 37.00  -1.2
        1.0s    92.00nm         5.8mb
TVO     55.54 107 iPc   48 38.50  -1.2
SNG     55.85 283 eP    48 41.70  -0.1
CN2     56.65 335 eP    48 45.50  -1.7
        1.0s    28.00nm         5.2mb
                ePP     49 10.00 100kmX
PMO     56.68 104 iPc   48 46.50  -1.3
        0.9s   159.20nm         6.0mb
VAH     56.95 104 iPc   48 48.20  -1.5
        0.9s    63.90nm         5.6mb
TPT     56.95 104 iPc   48 48.30  -1.4
GYA     57.06 307 iPc   48 50.00  -0.5
        0.8s    29.00nm         5.4mb
RUV     57.18 104 iPc   48 49.80  -1.5
        0.7s    96.60nm         5.9mb
LOE     57.64 295 eP    48 54.00  -0.5
NNT     58.02 289 eP    48 57.80   0.6
BJI     58.42 326 eP    48 58.00  -1.5
        1.0s    11.00nm         4.9mb
NST     58.54 293 eP    49 01.00   0.3
TIY     59.11 321 eP    49 03.00  -1.5
      Z 22s     0.52um         4.6Msz
XAN     59.26 316 Pc    49 04.10  -1.5
        1.0s    49.00nm         5.6mb
PET     59.30   3 eP    49 05.00  -0.4
        0.7s    80.00nm         5.9mb
KMI     59.65 304 Pc    49 09.00   0.4
        1.5s   140.00nm         5.9mb
BDT     60.05 294 eP    49 12.00   0.9
        1.0s    69.00nm         5.7mb
CHTO    60.60 296 iPc   49 15.10   0.2
        1.2s   121.88nm         5.8mb
SMY     61.14  13 eP    49 17.67  -0.3
        0.6s    69.03nm         5.9mb
CD2     61.40 310 iPc   49 19.50  -0.7
        0.6s   170.00nm         6.2mb
BTO     62.37 323 P     49 25.60  -0.9
ADK     62.95  19 eP    49 30.10   0.1
        0.6s   149.50nm         6.1mb
CSY     67.12 198 iPd   49 56.70   0.0
        0.6s    14.10nm         5.1mb
                iPcP    50 24.70
CIT     68.04 334 eP    50 03.00   0.2
GTA     68.29 317 iPc   50 04.40  -0.2
        1.0s    44.00nm         5.3mb
SHL     68.96 300 iP    50 08.50  -0.6
LSA     70.90 304 Pc    50 22.00   0.8
ILT     76.47  10 iPc   50 51.70  -0.4
        1.2s   149.00nm         5.7mb
KDC     76.70  26 iPc   50 53.55   0.0
        0.7s    35.22nm         5.3mb
AUP     77.27  24 (P)   50 58.61   1.8
SVW     77.49  22 iPc   50 58.98   1.0
        0.7s    97.04nm         5.7mb
WMQ     78.37 317 iPd   51 03.80   0.6
        1.0s    31.00nm         5.1mb
TTA     78.51  21 eP    51 03.51  -0.1
        0.8s    23.89nm         5.1mb
KOD     78.89 282 iP    51 08.00   1.1
CRP     78.91  23 eP    51 04.19  -1.7
SLKM    79.25  24 ePc   51 07.47  -0.1
GBA     79.44 285 Pc    51 09.90   0.5
        0.8s    12.00nm         4.8mb
TIK     79.77 352 iPd   51 12.00   1.9
        1.0s    19.00nm         4.9mb
PMR     80.29  24 iPc   51 12.68  -0.4
        0.8s    77.89nm         5.6mb
                e       51 22.57
IMA     81.29  19 iPc   51 18.87   0.5
        0.6s    16.45nm         5.0mb
KLU     81.55  25 eP    51 20.12   0.4
TOA     81.76  24 eP    51 21.90   1.1
NDI     82.38 300 eP    51 24.50  -0.2
FBA     82.61  21 iPc   51 24.19  -0.9
        0.8s    33.73nm         5.3mb
BALM    82.84  26 ePc   51 26.57   0.0
SIT     84.55  31 iPc   51 36.18   1.2
        0.6s    13.61nm         5.1mb
MAW     84.90 203 iP    51 38.00   1.4
        0.7s    33.33nm         5.4mb
KSH     85.58 310 P     51 42.60   1.8
        0.9s    70.00nm         5.6mb
      E 12s     0.54um
FRU     87.27 313 eP    51 45.00  -3.8X
                e       52 24.00
KMPM    87.27  49 eP    51 51.31   2.4
NRI     88.03 341 eP    51 50.00  -1.8
LGPM    88.33  49 ePc   51 55.12   1.1
ARN     88.74  52 eP    51 56.87   0.9
BMW     89.02  43 eP    51 57.15   0.0
LBFM    89.10  48 ePd   51 58.87   1.0
ORV     89.11  50 ePc   51 58.37   0.7
INK     89.21  21 eP    51 58.00   0.5
        0.5s     3.00nm         4.7mb
GMW     89.50  42 eP    51 59.77   0.4
BCH     89.57  55 eP    52 01.35   1.3
SHW     89.64  44 eP    52 01.00   0.8
RMW     90.14  42 ePc   52 02.62   0.2
ABL     90.23  55 eP    52 04.55   1.3
MEMM    90.82  52 eP    52 07.65   2.1
PLM     91.99  57 eP    52 12.82   1.5
TNP     92.23  52 iPc   52 13.53   1.2
        0.9s    22.01nm         5.5mb
GSC     92.25  55 eP    52 12.82   0.5
DPW     92.61  42 ePc   52 13.88   0.2
TPNV    92.87  53 eP    52 16.58   1.3
        1.0s    24.09nm         5.5mb
NEW     93.38  42 ePc   52 17.20   0.0
        1.0s    27.05nm         5.6mb
ARUT    95.17  53 eP    52 27.16   1.3
YKA     95.86  28 P     52 28.80   0.6
        0.5s    24.00nm         6.0mb
HVU     95.94  49 eP    52 29.93   0.7
MSU     96.22  52 ePc   52 32.15   1.5
DAU     97.02  50 eP    52 35.27   0.9
EMUT    97.33  51 ePc   52 36.97   1.3
PV09    98.60  52 eP    52 42.70   1.2
PV10    98.67  52 ePc   52 42.47   0.7
PV08    98.98  52 eP    52 44.06   0.8
RSSD   102.36  46 ePdiff52 57.86  -0.4
        0.5s     3.14nm         5.3mb
LTX    103.04  61 (Pdiff53 06.60   5.2X
ULM    107.16  39 ePKP  57 29.50   1.5
UYO    110.62  56 iPKPc 57 34.40  -0.7
KAF    112.94 336 ePKP  57 38.20  -0.4
ELC    114.36  52 ePKPc 57 41.49  -0.7
JAQ    117.60  31 ePKP  57 46.50  -1.3
MYNC   118.86  53 ePKPc 57 50.43  -0.4
NB2    119.15 341 PKP   57 49.80  -0.8
        0.7s     3.10nm
MTD    119.44 247 iPKP  58 07.40  14.9X
PRM    120.51  54 ePKPc 57 53.86  -0.1
BUL    121.00 242 iPKPc 57 56.50   1.0
        0.8s    24.25nm
BLA    121.20  50 ePKPc 57 54.66  -0.6
JSC    121.35  54 ePKPc 57 55.65   0.1
GAC    121.54  39 ePKP  57 54.50  -1.0
LHS    121.65  53 ePKPc 57 56.07   0.0
SUR    121.75 226 ePKP  57 57.00   0.4
        0.5s    46.00nm
CER    122.26 224 ePKP  57 52.50  -4.8X
        0.5s    33.00nm
CEH    122.61  51 ePKPc 57 57.29  -0.6
BRG    125.12 331 iPKP  58 02.40   0.1
        0.7s    14.00nm
CLL    125.28 332 iPKPc 58 02.30  -0.3
        0.7s    17.00nm
CBM    125.35  35 ePKP  58 01.98  -0.9
PRU    125.39 330 ePKP  58 02.70  -0.1
SKO    125.74 318 iPKP  58 03.00  -0.8
        1.0s    20.00nm
KHC    126.42 329 PKPd  58 05.60   0.6
        0.8s     7.10nm
                e       58 22.00
                e       58 36.50
GEC2   126.54 329 e(PKP)58 05.40   0.1
        0.7s     8.00nm
OHR    126.57 318 ePKP  58 03.00  -2.5
GRF    127.21 331 iPKP  58 06.80   0.4
      Z 22s     4.00um         6.1Msz
LMN    127.85  34 ePKP  58 08.00   0.3
CNCB   131.69 119 ePKP  58 08.00  -8.6X
LPB    131.71 119 ePKP  58 04.00 -12.4X
LPAZ   131.78 118 PKP   57 58.30 -18.5X
SDV    134.79  84 ePKP  58 22.00  -0.1
BCAO   136.56 270 ePKPc 58 11.50 -13.8X
        0.6s    11.00nm
                i       58 23.20
OLLA   138.56  82 ePKP  58 17.50 -11.5X
RSTA   141.28 144 (PKP) 58 28.00  -5.5X
PPD    141.77 138 ePKP  58 28.30  -6.2X
VAO    143.75 144 ePKP  58 30.30  -7.6X
VAO2   143.82 145 ePKP  58 36.00  -2.1
CACB   144.91 143 iPKPc 58 39.10  -0.9
                e       58 55.10
BAO    148.44 134 ePKP  58 47.00   1.1
                i       58 49.00
                i       58 52.00
KIC    159.80 271 PKP   59 01.78   0.6
        0.9s    12.00nm
LIC    160.08 271 PKP   59 02.13   0.7
        0.9s     5.50nm
TIC    160.08 272 PKP   59 02.11   0.6
        0.9s     5.50nm
LKO    160.47 280 PKP   59 02.16   0.3
        1.1s    13.00nm
     S.D. = 0.9  on 172 of 189 obs.
-----------------------------------
   OCT  13, 1993  01h 54m 06.17± 0.30s
   49.143 N ± 2.6km     6.897 E ± 3.5km
   DEPTH =  10.0km  (geophysicist)
 GERMANY                          (543)
      ML 2.8 (STR), 2.7 (BNS), 2.6
      (UCC).

RUP     0.57  11 ePg    54 17.20  -0.6
LANF    0.62 105 Pg     54 18.45  -0.2
SRBF    0.67 110 Pg     54 19.65   0.2
WLF     0.71 317 iPd    54 20.19   0.0
                iS      54 32.40
                ic      25 13.29
HOFF    0.73 106 Pg     54 20.86   0.4
CDF     0.77 161 Pg     54 21.30   0.0
                Sg      54 32.11
WLS     0.79 157 Pg     54 21.63   0.0
ABH     0.85  30 ePg    54 22.00  -0.6
ECH     0.94 169 Pg     54 24.06  -0.1
VITF    1.11 213 Pg     54 26.45  -0.5
MOF     1.30 173 Pg     54 30.75   0.4
                Sg      54 48.29
```

13d 01h

```
STB      1.45 359 iPc   54 31.99  -0.5
       1.1s    71.00nm
                ic     54 35.01
                iS     54 50.50
FEL      1.47 149 Pn    54 32.81   0.0
                Sg     54 53.75
TNS      1.48  42 ePnc  54 34.40   1.5
                eSn    54 52.20
MEM      1.58 339 iPd   54 33.65  -0.5
                id     54 36.00
                iS     54 57.64
ENN      1.74 339 ePn   54 38.00   1.4
       0.7s    36.80nm
                eSn    55 02.00
DOU      1.78 303 iPc   54 37.00  -0.1
                i      54 39.30
LOMF     1.79 182 Pn    54 37.68   0.2
                Pg     54 40.73
BNS      1.83   6 iPd   54 40.31   2.4X
       0.6s    58.00nm
                iS     55 00.08
                i      55 02.85
SNF      2.18 310 Pc    54 43.00   0.1
GRF      2.88  77 ePg   55 01.30   8.4X
                eSg    55 37.60
MOX      3.40  62 ePg   55 09.60   9.3X
       2.0s   110.00nm
     Z  22s    31.00um
                eSg    55 53.00
                e      21 31.00
                e      25 03.70
KHC      4.39  88 ePn   55 14.00  -0.4
                e      55 25.50
                e      55 33.00
                e      55 53.00
                eSg    56 03.40
                e      56 25.50
GEC2     4.49  91 Pn    55 15.20  -0.7
                Pg     55 35.70
                Sn     56 06.00
                Sg     56 24.80
    S.D. = 0.6  on  21 of  24 obs.
-----------------------------------
   OCT  13, 1993  02h 06m 00.34± 0.10s
    5.889 S ± 2.7km  146.020 E ± 3.0km
   DEPTH =  25.3km  (geophysicist)
   6.4mb ( 92 obs.)  7.0Msz ( 63 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      Mw 6.6 (GS), 6.9 (HRV). Ms 7.2
      (BRK). ML 7.1 (PMG).
      Mo=1.4*10**19 Nm (PPT). Sixty
      people were killed and several
      injured in the Upper Markham
      Valley. Large landslides blocked
      the Ume River and contributed to
      many of the casualties. Depth
      from broadband displacement
      seismograms.
      FAULT PLANE SOLUTION: P-Waves
       NP1:Strike=110 Dip=80 Slip=  90
       NP2:       290     10       90
       Principal Axes:
        T                Plg=55  Azm= 20
        P                    35      200
      Comment: The focal mechanism is
        poorly controlled and
        corresponds to reverse
        faulting. The preferred fault
        plane is NP2.
      RADIATED ENERGY
       No. of sta:  19  Focal mech.  F
       Energy        2.7±0.6*10**14 Nm
      MOMENT TENSOR SOLUTION
      Dep  21            No. of sta: 21
      Moment Tensor;    Scale 10**18 Nm
        Mrr= 3.31        Mtt=-0.03
        Mff=-3.28        Mrt= 7.48
        Mrf=-2.52        Mtf=-0.74
       Principal axes:
        T  Val=  9.76  Plg=51  Azm= 17
        N       -3.38       5      112
        P       -6.39      39      206
      Best Double Couple:Mo=8.1*10**18
       NP1:Strike=329 Dip= 7 Slip= 127
       NP2:       112     84       85
      CENTROID, MOMENT TENSOR    (HRV)
      Data Used: GDSN
```

```
      L.P.B.: 57S, **C  M.W.: 48S, **C
      Centroid Location:
      Origin Time       02:06: 8.8 0.1
      Lat  6.04S 0.01 Lon 146.11E 0.01
      Dep  15.0 FIX Half-duration  7.0
      Moment Tensor;   Scale 10**19 Nm
        Mrr= 0.60 0.00  Mtt=-0.51 0.00
        Mff=-0.09 0.00  Mrt= 2.27 0.03
        Mrf=-0.82 0.03  Mtf= 0.34 0.00
       Principal Axes:
        T  Val=  2.46  Plg=52  Azm= 17
        N        0.08       3      110
        P       -2.54      38      202
      Best Double Couple:Mo=2.5*10**19
       NP1:Strike=310 Dip= 8 Slip= 110
       NP2:       110     83       87

MDG      0.68 339 iPc   06 13.70   0.2
MNDI     2.36 263 iPd   06 44.60   6.1X
                eS     07 18.00
WWKK     3.28 313 eP    06 56.90   5.6X
PMG      3.67 162 iPd   06 55.80  -1.1
KVG      5.80  56 eP    07 26.80  -0.1
YOMI     6.33 300 P     07 36.40   1.9
CTA     14.12 179 iPc   09 20.00  -0.9
CTAO    14.12 179 iPd   09 20.79  -0.1
        3.0s  *******nm          7.3mb
HNR     14.24 105 eP    09 23.00   0.4
QIS     15.85 203 iPd   09 43.00  -0.6
                eS     12 39.00
MTN     16.23 244 iPd   09 48.60   0.2
WR2     17.99 218 iPc   10 09.70  -0.8
        0.7s     6.70nm          3.9mb X
                eS     13 12.20
                eP'P'  35 37.10
WRA     18.00 218 P     10 10.10  -0.5
GUA     19.33 357 e(P)  10 26.70  -0.2
        1.1s  3544.30nm          6.5mb
GUM0    19.38 357 eP    10 24.10  -3.4X
        1.2s  2836.20nm          6.4mb
     Z  27s   369.00um          4.6MszX
                e      10 28.10
                eS     14 09.80
GUM0    19.38 357 iPc   10 27.51   0.0
        1.2s  2836.20nm          6.4mb
     Z  27s   369.00um          4.4Msz
                e      10 28.10
                eS     14 09.80
KNA     19.56 239 iPd   10 27.90  -1.5
ASPA    21.18 212 iPd   10 44.70  -1.6
        0.9s  2119.70nm          6.6mb
     Z  20s   974.80um          7.2Msz
                ipP    10 54.80  39kmX
                eS     14 46.30
BRS     22.33 164 iPc   10 57.00  -0.8
                i      10 59.00
BIP     24.19 305 eP    11 14.50  -1.5
BKM     24.67 120 iPd   11 20.40  -0.2
PVC     24.76 120 iPc   11 22.50   1.0
ARMA    24.97 168 iPc   11 22.30  -1.2
                i      18 51.70
                e      25 48.50
CTB     25.36 301 ePd   11 34.00   6.8X
DZM     25.47 131 iPd   11 26.30  -2.0
BUNI    25.70 274 P     11 32.60   2.1
STK     26.19 189 iPd   11 33.00  -1.8
        1.0s    74.80nm          5.3mb X
                eS     16 05.90
TANI    26.66 274 P     11 40.80   1.5
PLP     26.94 309 ePd   11 48.70   6.9X
RIV     28.21 171 eP-   11 51.40  -1.7
                iS     16 39.00
                i      18 00.00
                iScP   18 30.40
BWA     28.48 176 iPd   11 54.40  -1.3
                epP    11 59.60  18kmX
                i      12 04.70
                eScP   18 54.00
CAN     29.42 175 iPd   12 02.50  -1.6
                i      12 07.80
                i      12 16.20
                i      12 23.00
                eScP   18 56.80
CNB     29.44 174 iPd   12 03.10  -1.3
        0.9s   121.00nm          5.7mb
                ePP    12 49.00
                eS     17 13.00
```

```
                eScP   19 04.70
MBL     29.56 237 iPc   12 05.10  -0.5
ADE     29.71 192 iPd-  12 05.50  -1.3
KEDI    29.79 264 P     12 05.80  -1.9
TSM     29.87 289 eP    12 08.50   0.1
        0.8s   352.30nm          6.2mb
FORT    29.96 212 eP    12 11.00   2.0
        0.8s   163.00nm          5.9mb
PGP     31.48 308 eP    12 28.00   5.5X
TOO     31.54 181 iPd-  12 22.00  -0.8
        0.9s   457.00nm          6.4mb
                e      19 12.00
SRDI    31.73 263 P     12 21.40  -3.4X
TGY     31.85 309 ePc   12 26.00   0.2
KKM     32.03 291 ePc   12 31.50   4.0X
        1.2s    50.30nm          5.3mb X
QCP     32.06 310 ePd-  12 44.00  16.4X
MEEK    33.29 229 iPc   12 38.00  -0.3
CVP     33.47 315 ePc   12 41.00   1.1
BAG     33.53 312 iPc+  12 38.00  -2.6
        2.5s   888.89nm          6.3mb
                i      14 00.00
                iS     18 00.00
VUN     33.88 114 iP    12 24.20 -19.2X
SVA     33.90 114 eP    12 43.00  -0.6
COOL    34.11 220 eP    12 44.80  -0.5
MRWA    36.64 227 eP    13 07.80   1.0
KLB     36.79 222 eP    13 08.10   0.1
BAL     36.92 225 eP    13 10.00   0.9
NWAO    37.96 221 iPd   13 16.35  -1.5
                epPd   13 22.31  20kmX
                esPc   13 27.11
MUN     38.07 223 eP    13 18.60  -0.2
LEM     38.17 266 ePd   13 21.30   1.2
        1.5s  1194.44nm          6.5mb
     Z  20s     8.87um          5.6MszX
                eS     19 10.00
                eLR    22 16.00
SINI    38.29 266 P     13 21.40   0.4
OUZ     38.70 143 P     13 24.60   0.6
TATO    38.87 323 iPc   13 25.93   0.4
                epPc   13 32.72  23kmX
                esPd   13 37.27
PACI    38.88 267 P     13 27.20   1.3
PENI    40.64 268 P     13 41.20   0.8
QZH     40.64 320 iPc   13 40.00  -0.2
        1.0s   190.00nm          5.8mb
     Z  26s   119.00um          6.6MszX
     E  19s    62.30um
                pP     13 52.50  46kmX
                PP     15 17.00
KUZ     40.99 143 P     13 43.00   0.1
                e      15 45.70
MOZ     41.65 145 eP    13 48.70   0.4
                e      15 47.30
WLZ     41.67 144 P     13 48.90   0.4
NRZ     41.75 147 P     13 53.00   3.9X
HKC     41.92 313 iP    13 54.10   3.4X
                S      20 12.00
QRZ     42.10 150 P     13 53.50   1.5
                e      15 49.40
SHK     42.13 344 ePc   13 51.80  -0.5
MCO     42.26 312 eP    13 55.80   2.3
AFI     42.27 104 eP    14 00.00   6.1X
                eS     20 00.00
AFI     42.27 104 ePc   13 53.32  -0.5
                epPc   13 58.95  19kmX
                esPd   14 02.67
CNZ     42.55 146 P     13 56.90   1.1
NGZ     42.56 145 P     13 56.80   0.8
BSZ     42.62 147 eP    13 57.40   1.1
DIW     42.80 148 P     13 59.10   1.3
URZ     42.82 143 P     13 57.20  -0.7
MAJO    42.84 351 iPc   13 56.76  -1.3
        2.6s  7307.80nm          6.9mb
                epPc   14 03.30  22kmX
MAT     42.84 351 eP    13 56.00  -2.1
        2.8s  5185.71nm          6.8mb
                eS     20 18.00
LMZ     42.87 155 P     14 01.00   2.8
WVZ     42.99 153 eP    13 59.70   0.5
THZ     42.99 150 P     13 59.60   0.2
GZH     43.00 313 iPc   14 01.00   1.4
        1.2s   180.00nm          5.7mb
     Z  26s    42.40um          6.2MszX
     N  16s    30.50um
     E  17s    31.30um
```

```
                PcS   19 36.00
                S     20 30.00
                SS    23 38.00
HBZ   43.12 142 P     14 00.50   0.2
MSZ   43.12 157 P     14 01.40   1.1
KGM   43.36 279 ePc   14 04.00   1.3
      1.0s   581.70nm          6.3mb
                e     14 14.30
KIW   43.36 148 P     14 02.50   0.2
PUZ   43.39 142 P     14 01.90  -0.7
QIZ   43.40 306 iPc   14 03.19   0.3
      1.1s   250.00nm          5.9mb
    N 18s    336.00um
    E 17s     31.20um
                epP   14 10.39  24kmX
                esPd  14 13.29
MNG   43.50 147 P     14 03.00  -0.4
MRW   43.52 148 P     14 03.60   0.0
SNZO  43.57 148 ePd   14 03.35  -0.6
                ed    14 08.32
                PP    15 40.00
                (PPP) 16 44.00
                S     20 30.00
NOZ   43.61 143 P     14 03.50  -0.8
CAW   43.62 148 P     14 04.10  -0.3
SSE   43.77 329 iPc   14 05.45  -0.2
      1.0s    53.00nm          5.3mb X
    Z 20s     63.10um          6.5Msz
    N 16s     42.80um
    E 17s     21.30um
                e     14 11.41
                epP   14 13.56  27kmX
                esPd  14 16.95
                PP    15 46.00
                iS    20 32.00
                isS   20 48.00
                SS    23 38.00
                ScS   24 00.00
PGZ   43.93 146 P     14 06.20  -0.7
SBCZ  44.01 156 P     14 06.80  -0.8
                e     15 52.00
MSCZ  44.05 156 P     14 09.60   1.7
                e     15 54.40
MQZ   44.35 152 eP    14 08.90  -1.4
TUZ   44.85 157 P     14 13.20  -1.1
KLM   45.21 280 eP    14 21.00   3.4X
      0.6s   562.50nm          6.7mb
NJ2   45.75 327 Pc    14 22.60   1.0
      1.4s   100.00nm          5.6mb
    Z 22s     55.40um          6.5Msz
    N 15s     47.30um
    E 14s     32.10um
                S     21 06.00
IPM   46.12 282 ePc   14 26.50   1.7
SNG   47.12 285 eP    14 34.00   1.3
      1.5s  1361.11nm          6.8mb
                eS    21 30.00
MRPI  47.23 278 P     14 35.00   1.3
WHN   47.24 322 iPc   14 34.00   0.6
      1.5s  1020.00nm          6.6mb
    N 16s    48.70um
PCT   48.72 295 eP    14 49.00   3.9X
      0.7s    17.00nm          5.2mb X
LOE   49.49 299 eP    14 50.00  -1.1
NNT   49.53 292 eP    14 51.00  -0.4
                e     26 03.00
MCQ   49.58 170 eP    14 54.40   3.2X
TIA   49.88 329 Pc    14 52.00  -1.7
      1.2s   360.00nm          6.3mb
    N 13s     15.50um
    E 14s     30.90um
                sP    15 05.00
                S     21 53.00
GYA   49.88 312 iPc   14 56.40   2.3
      1.4s   400.00nm          6.3mb
    Z 26s     18.70um          6.0MszX
    N 18s     29.40um
    E 18s     15.10um
                sP    15 12.00
                S     22 06.00
DL2   49.97 335 eP    14 56.50   2.1
      1.2s   390.00nm          6.3mb
ENH   50.18 318 iPc   14 55.32  -0.8
                esPd  15 07.32
NST   50.23 296 eP    14 58.50   1.8
KUR   50.92   2 iPc   15 01.00  -0.4
      1.2s   960.00nm          6.6mb
    Z 19s    66.00um          6.7Msz
    N 19s    42.00um
    E 19s    30.00um
                ePPP  18 00.50
                eS    22 24.00
SNY   51.72 339 iPc   15 05.00  -2.7
    N 18s    44.90um
    E 17s    49.90um
                pP    15 14.00  30kmX
                iS    22 26.00
BDT   51.82 297 eP    15 11.50   2.7
      1.0s   407.10nm          6.3mb
KMI   52.16 308 iPc   15 12.29   0.7
    Z 24s   107.00um          6.8MszX
    N 12s    14.40um
    E 12s     8.10um
                ipPd  15 20.74  28kmX
                esPd  15 23.72
                iS    22 40.00
MDJ   52.40 345 iPc   15 11.71  -1.1
      2.1s  1960.00nm          6.7mb
    Z 28s   104.00um          6.7MszX
                epPc  15 19.66  26kmX
                S     22 32.00
CHTO  52.48 299 iPc   15 13.92   0.1
                esPd  15 25.09
                eS    22 43.60
YSS   52.76 357 iPc   15 13.69  -1.6
    Z 19s    32.20um          6.4Msz
    N 17s    16.20um
    E 18s    19.50um
                epPc  15 21.14  25kmX
                e     16 20.00
                iS    22 44.00
                eSS   26 10.00
CN2   52.84 341 eP    15 15.40  -0.6
      1.0s   190.00nm          6.0mb
    Z 20s    52.00um          6.6Msz
    N 17s    52.10um
    E 17s    16.90um
                epP   15 30.00  54kmX
                PcP   16 19.00
                ScP   20 10.50
                eS    22 45.00
                eSS   26 18.00
XAN   52.98 321 Pc    15 16.20  -1.1
      1.5s   680.00nm          6.4mb
    Z 24s    71.10um          6.6MszX
    N 16s    14.40um
    E 16s    26.40um
                sP    15 34.00
                S     22 44.00
BJI   53.34 332 iPc   15 18.52  -1.2
      2.0s   960.00nm          6.4mb
    E 20s    63.80um
                epPc  15 26.05  25kmX
                eSS   22 50.00
                eSS   26 30.00
TIY   53.48 327 iPc   15 20.00  -0.9
      1.2s   190.00nm          5.9mb
    Z 24s   121.00um          6.9MszX
    E 15s    20.50um
                S     22 51.50
                SS    26 24.00
CD2   54.50 315 iPc   15 28.40  -0.1
    Z 20s    49.70um          6.6Msz
    E 17s    44.50um
                S     23 08.60
RAR   54.58 112 ePc   15 27.59  -1.6
      2.1s  2658.02nm          6.9mb
                epP   15 36.20  28kmX
HHC   56.23 329 P     15 40.80  -0.2
      1.0s    64.00nm          5.6mb
    Z 22s   105.00um          6.9Msz
    N 21s    52.80um
    E 15s    17.60um
                pP    15 51.00  33kmX
                PP    17 46.00
                ScS   25 26.00
BTO   56.86 328 iPd   15 45.00  -0.5
      1.0s   150.00nm          6.0mb
    N 24s    55.20um
    E 19s    36.90um
                sP    15 57.00
                S     23 38.00
LZH   57.49 320 iPc   15 49.96  -0.2
      2.0s  1825.00nm          6.8mb
    Z 25s    66.38um          6.6MszX
    E 15s    20.42um
                epPc  15 57.74  25kmX
                esPd  16 01.39
                pP    18 00.00
                S     23 50.00
HIA   59.52 340 iPc   16 02.46  -1.4
                epPc  16 10.24  25kmX
                esPd  16 14.13
PET   59.65   9 iP+   16 04.00  -0.6
      2.0s  1700.00nm          6.8mb
    Z 18s    32.50um          6.5Msz
    N 18s    49.80um
    E 18s    30.50um
                ePPP  19 44.00
                eS    24 18.00
                ePS   24 40.00
                eSS   28 14.00
DRV   60.82 183 iP    16 11.00  -1.4
                PP    18 33.00
                S     24 30.00
                SS    28 45.00
HON   61.18  62 P+    16 18.45   2.9
    Z 20s   109.06um          7.0Msz
                S     24 49.38
DHH   61.33  62 (P)   16 18.63   2.0
GTA   62.04 321 iPc   16 20.60  -0.7
      2.0s   590.00nm          6.4mb
    Z 22s    46.90um          6.6Msz
    N 18s    16.30um
                pP    16 36.50  59kmX
                PP    18 45.00
                S     24 47.00
                SS    28 53.00
KKH   62.40  64 (P)   16 25.39   1.6
HKL   62.51  63 (P)   16 25.07   0.0
MHA   62.67  64 eP    16 27.45   1.9
SMY   63.07  19 eP    16 28.30   0.6
LSA   63.40 307 iPc   16 31.02   0.2
      1.0s    85.00nm          5.8mb
    Z 24s    48.70um          6.6MszX
    N 20s    25.40um
    E 18s    14.70um
                epP   16 39.55  27kmX
                esPd  16 42.69
                PcP   17 09.50
                PP    18 53.00
AFR   63.67 107 iPd   16 33.40   1.2
      1.4s  3108.80nm          7.2mb
PAE   63.86 107 iPd   16 34.60   1.1
      1.6s  3791.00nm          7.3mb
PPT   63.86 107 iPd   16 34.60   1.1
      1.5s  3710.50nm          7.3mb
CIT   63.96 338 eP    16 34.00   0.3
                e     25 13.80
TVO   64.18 107 iPd   16 36.70   1.0
      1.3s  4020.30nm          7.4mb
CSY   65.12 195 iPd   16 39.60  -1.3
      0.7s   139.50nm          6.2mb
PMO   65.42 104 iPd   16 44.90   1.3
      1.3s  4642.30nm          7.5mb X
VAH   65.68 104 iPd   16 46.40   1.1
      1.6s  2039.80nm          7.0mb
TPT   65.69 104 iPd   16 46.60   1.2
      1.4s  3471.30nm          7.3mb
ADK   65.76  24 ePc   16 45.48   0.3
    Z 20s    90.00um          7.0Msz
                epPc  16 52.02  21kmX
RUV   65.92 104 iPd   16 47.90   1.1
      1.3s  2460.70nm          7.2mb
GUN   66.99 304 P     16 53.80  -0.2
PKI   67.27 303 P     16 55.00  -0.7
KKN   67.45 303 P     16 56.40  -0.3
DMN   67.53 303 P     16 57.20  -0.1
IRK   67.92 334 ePc   16 57.00  -1.9
      3.2s  2255.00nm          6.7mb X
    Z 20s    42.44um          6.7Msz
    N 22s    22.97um
    E 18s    28.01um
                e     17 09.00
                e     17 15.00
                e     17 30.00
                iS    26 00.00
YAK   68.87 352 iPc+  17 04.20  -0.4
      2.0s   454.00nm          6.3mb
    Z 19s   103.00um          7.1Msz
    N 19s    70.90um
```

13d 02h

```
     E  19s    41.30um
                  i     17 16.00
                  e     19 46.00
                  iS    26 10.00
                  i     26 36.00
KOD    70.12 283 eP     17 14.20   0.7
                  eS    26 27.00
HYB    70.51 291 ePc    17 16.20   0.7
       1.0s   470.00nm          6.6mb
                  e     18 05.50
                  eS    26 29.00
GBA    70.77 287 P      17 18.00   0.9
WMQ    72.07 320 iPc    17 23.99  -0.6
     Z  24s    30.80um          6.5MszX
     E  16s    20.10um
                  epP   17 32.19  26kmX
                  esPd  17 35.66
                  PcP   17 37.00
                  S     26 49.00
                  SKS   27 20.00
                  ScS   27 25.00
UER    72.35 329 iPc    17 24.00  -1.9
       1.8s   400.00nm          6.1mb
                  e     20 10.00
                  iS    26 48.00
SBA    72.74 175 iPd    17 28.40   0.6
       1.7s   811.54nm          6.5mb
     Z  20s    62.06um          6.9Msz
                  S     27 02.00
NDI    74.49 302 iPc    17 37.00  -1.9
       0.8s   746.27nm          6.8mb
                  eS    27 09.00
POO    75.12 291 iPc    17 45.50   2.8
       1.0s   490.00nm          6.5mb
SDN    75.25  28 eP     17 41.60  -1.1
       0.9s  1233.90nm          6.9mb
PAF    76.31 221 iPd    17 55.00   6.2X
                  eS    27 42.00
                  eSS   32 33.00
ILT    77.70  13 iPc    17 55.20  -1.0
       0.8s  1064.00nm          6.9mb
     Z  20s    49.00um          6.8Msz
     N  20s    20.00um
     E  20s    27.00um
                  i     18 14.00
                  i     20 49.40
                  iPPP  22 40.00
                  iS    27 51.30
                  i     28 20.00
TIK    78.19 355 iPc+   17 58.00  -0.7
       2.0s  1025.00nm          6.5mb
                  i     18 10.00
                  iS    27 51.00
                  iPS   28 40.00
KSH    78.56 312 iPc    18 03.40   1.8
       1.2s   280.00nm          6.2mb
     N  16s    16.50um
     E  16s    23.60um
                  S     28 00.00
ANM    78.92  19 eP     18 03.03   0.1
KDC    80.29  29 eP     18 09.60  -0.8
SVW    80.54  25 eP     18 11.70  -0.1
FRU    80.54 315 iPc+   18 12.50   0.3
       2.3s  2790.00nm          6.9mb
     Z  20s    21.50um          6.5Msz
                  iS    28 20.00
AUP    80.63  27 eP     18 11.83  -0.5
TTA    81.33  23 eP     18 15.30  -0.6
MAW    81.97 203 iPd    18 18.90  -0.2
       1.1s   255.56nm          6.2mb
     Z  16s    75.00um          7.1MszX
CP2    82.04  25 eP     18 18.01  -1.8
CRP    82.08  25 eP     18 17.31  -2.7
SLKM   82.58  27 eP     18 20.76  -1.7
PMR    83.53  26 eP     18 25.50  -1.7
       1.1s   215.90nm          6.2mb
     Z  20s    25.00um          6.6Msz
IMA    83.80  21 eP     18 28.10  -0.6
       1.6s   548.10nm          6.5mb
SPA    84.15 180 iPd    18 27.90  -2.6
       0.6s   475.61nm          6.9mb
     Z  17s    74.07um          7.1MszX
KLU    84.90  27 eP     18 33.45  -0.8
TOA    85.02  26 eP     18 34.20  -0.6
COL    85.46  23 iPc    18 34.45  -2.4
       1.0s   387.73nm          6.6mb
                  epP   18 42.48  25kmX
FBA    85.46  23 eP     18 35.00  -1.9
       0.9s   466.30nm          6.7mb
BALM   86.36  28 eP     18 40.56  -1.0
YKU    87.15  29 eP     18 47.10   1.9
CRZF   88.64 224 iPd    19 00.00   7.3X
                  eS    29 40.00
                  eSP   30 10.00
                  eSS   35 38.00
SIT    88.76  32 eP     18 51.91  -1.1
       1.7s   236.17nm          6.2mb
     Z  21s    68.61um          7.0Msz
                  SKS   29 36.35
                  PKKP  35 57.15
MAIO   90.65 306 iPc    19 04.00   1.5
ASH    91.74 308 P      19 07.40   0.1
                  S     29 53.40
                  i     39 50.40
INK    91.91  22 eP     19 07.50   0.1
       1.0s    47.00nm          5.9mb
ABKT   91.92 308 iPc    19 07.49  -0.7
                  epP   19 15.28  24kmX
                  esPd  19 18.83
SVE    92.35 327 iPc    19 09.50  -0.2
       2.2s   260.00nm          6.3mb
     Z  18s     9.50um          6.3Msz
     N  18s     3.50um
     E  18s    30.00um
                  i     29 38.00
                  e     31 24.00
ARU    93.43 326 eP+    19 12.00  -2.6
       1.5s   140.00nm          6.2mb
     Z  18s    35.00um          6.9Msz
     N  19s     8.50um
     E  18s    30.00um
                  e     19 20.00
                  i     23 07.00
                  eS    29 46.00
                  e     30 21.00
                  e     31 31.00
KMPM   93.67  50 eP     19 16.20   0.0
ARC    93.74  49 ePc    19 13.94  -2.4
       2.0s  1080.00nm          6.9mb
     Z  19s    67.00um          7.1Msz
                  ePPc  23 00.59
                  eSKS  29 19.89
                  iS    30 33.89
                  ePS   31 41.89
                  eSS   36 55.89
                  eSSS  40 28.89
                  iLQ   45 02.89
                  eLR   48 40.89
FHC    93.80  50 eP     19 17.78   1.0
       0.9s   164.63nm          6.5mb
KMOR   94.51  45 P      19 21.74   1.8
STW    94.55  42 P      19 20.93   0.9
COR    94.57  46 ePc    19 20.27   0.1
                  epP   19 27.06  21kmX
NTYM   94.65  52 eP     19 22.36   1.7
                  iPP   23 10.74
LGPM   94.68  49 eP     19 20.25  -0.7
BMW    94.74  44 eP     19 21.30   0.3
YBH    94.82  49 ePc    19 20.81  -0.7
       1.7s   370.00nm          6.5mb
     Z  21s    82.00um          7.2Msz
                  ePP   23 18.21
                  iSKS  29 53.52
                  eS    30 34.52
                  eSPc  31 55.52
                  iPS   31 59.52
                  iSS   37 13.52
                  iSSS  40 46.52
                  eLQ   44 58.52
                  iLR   49 04.52
WDC    94.88  50 iPc    19 20.61  -1.1
       1.8s   388.32nm          6.5mb
     Z  21s   117.05um          7.3Msz
BKS    94.95  53 ePc    19 14.09  -8.0X
       1.5s   460.00nm          6.7mb
     Z  19s    76.00um          7.2Msz
                  ePPc  23 10.09
                  e     29 32.09
                  eS    29 56.09
                  eSKKS 29 57.09
                  eSPc  31 53.09
                  iPS   31 55.09
                  iSS   37 21.09
                  eSSS  41 06.09
                  eSSSS 43 46.09
                  eLQ   45 32.09
                  eLR   48 28.09
STAN   94.97  53 ePc    19 22.20   0.1
       1.7s   450.00nm          6.6mb
     Z  19s    92.00um          7.3Msz
                  ePPc  23 10.85
                  eSKS  29 56.71
                  eS    30 37.71
                  eSPc  31 53.71
                  iPS   31 55.71
                  iSS   37 05.71
                  eSSS  40 36.71
                  eLQ   44 31.71
                  eLR   48 26.71
GMW    95.11  43 ePd    19 22.20  -0.4
                  ePP   23 11.87
MCW    95.14  42 eP     19 22.64  -0.1
                  i     22 37.73
                  ePP   23 16.69
SSOR   95.19  46 P      19 23.80   0.6
HMR    95.31  52 eP     19 26.89   3.2X
COE    95.36  53 ePd    19 26.01   2.0
                  ePP   23 13.45
MHC    95.39  53 ePc    19 23.49  -0.8
       1.3s   200.00nm          6.4mb
     Z  19s   108.00um          7.3Msz
                  ePPc  23 13.49
                  eSS   23 14.19
                  iSKS  29 59.19
                  eS    30 31.19
                  eSPc  31 59.19
                  iPS   32 00.19
                  eSS   37 18.19
                  iSSS  41 14.19
                  eLQ   44 38.19
                  eLR   49 13.19
SHW    95.41  44 eP     19 26.90   2.7
LBFM   95.42  49 eP     19 24.76   0.3
ARN    95.48  53 eP     19 25.44   0.9
                  iPP   23 18.10
SAO    95.51  54 ePc    19 21.58  -3.1X
       1.7s   290.00nm          6.4mb
     Z  19s    84.00um          7.2Msz
                  ePPc  23 14.78
                  iSKS  29 52.99
                  eS    30 38.99
                  eSPc  32 01.99
                  iPS   32 03.99
                  iSS   37 26.99
                  eSSS  40 32.99
                  eLQ   45 20.99
                  eLR   49 14.99
SAO    95.51  54 eP     19 25.97   1.3
       1.9s   451.32nm          6.6mb
     Z  18s    86.90um          7.3Msz
                  PP    23 06.85
                  SKS   30 06.56
                  SP    32 06.56
                  PKKP  35 56.45
                  SS    37 37.96
MIN    95.58  50 ePc    19 23.55  -1.6
       2.0s   400.00nm          6.5mb
     Z  18s    80.00um          7.2Msz
                  ePPc  23 15.75
                  iSKS  29 58.71
                  eS    30 35.71
                  iPS   32 03.71
                  iSS   37 16.71
                  eSSS  40 56.71
                  eLQ   45 21.71
                  eLR   49 03.71
LMEM   95.62  50 eP     19 25.99   0.7
ORV    95.62  51 ePc    19 23.36  -1.8
       1.2s   180.00nm          6.4mb
     Z  20s    71.00um          7.1Msz
                  ePPc  23 16.36
                  iSKS  29 57.67
                  eS    30 36.67
                  iPS   32 02.67
                  iSS   37 20.67
                  eLQ   45 23.67
                  eLR   49 08.67
JCW    95.71  42 P      19 25.00  -0.4
LON    95.73  44 ePd    19 26.50   0.9
                  iPP   23 15.78
                  SKS   30 08.71
```

```
                SP    32 25.69
RMW    95.77  43 eP    19 25.02  -0.7
VBEM   95.82  45 P     19 26.69   0.6
FMW    95.84  43 P     19 25.49  -0.7
ASR    95.86  44 P     19 27.32   1.1
SHI    95.91 299 eP    19 27.00   0.1
CROR   96.24  45 P     19 27.84  -0.1
VGB    96.40  45 ePd   19 29.81   1.2
                ePP   23 23.05
CMB    96.42  52 ePc   19 27.59  -1.3
        1.6s   220.00nm         6.4mb
     Z  19s     91.00um         7.3Msz
                ePPc  23 17.29
                iSKS  30 05.30
                eS    30 41.30
                eSPc  32 10.30
                iSS   37 30.30
                eSSS  41 28.30
                eSSSS 44 22.30
                eLQ   45 27.30
                eLR   49 16.30
BCH    96.54  55 eP    19 29.48   0.0
                ePP   23 24.14
EBG    96.59  44 P     19 28.79  -0.7
WTV    97.03  43 P     19 30.40  -1.0
JBO    97.06  45 P     19 32.32   0.7
VIP    97.20  51 P     19 29.71  -2.9
ABL    97.23  56 eP    19 33.76   1.0
WAH2   97.28  44 P     19 33.80   1.4
SAW    97.40  43 P     19 32.01  -1.0
MMPM   97.48  53 eP    19 33.88  -0.1
MEMM   97.55  53 eP    19 34.84   1.0
NVL    97.68 194 eP    19 33.00  -0.9
        3.0s   350.00nm         6.4mb
     Z  20s     95.00um         7.3Msz
                e     20 37.00
                e     22 45.00
                ePP   23 21.00
                e     24 05.00
                e     24 21.00
                e     24 51.00
                e     25 12.00
                ePPP  25 35.00
                e     26 10.00
                iSKS  30 10.00
                iS    30 54.00
                ePS   32 19.00
                eSS   37 40.00
                eSSS  41 45.00
MTUM   97.84  53 eP    19 35.63   0.2
DHR    97.84 296 eP    19 36.80   1.4
ISA    97.87  55 ePc   19 33.75  -1.7
        2.2s   362.29nm         6.5mb
     Z  21s     76.37um         7.1Msz
                epPc  19 41.69  25kmX
                PP    23 36.09
                sP    32 28.71
MRCM   97.89  53 eP    19 37.31   1.6
BONR   98.06  53 eP    19 36.92   0.3
                ePP   23 38.21
LNOR   98.16  45 P     19 36.56   0.1
DPW    98.21  43 eP    19 36.51  -0.2
                iPP   23 36.39
BAK    98.44 310 iP    19 38.00   0.2
SSK    98.47  56 eP    19 39.66   1.3
TNP    98.92  52 eP    19 41.29   1.0
        0.8s    26.33nm         5.8mb
NEW    98.93  42 eP    19 38.92  -1.0
        1.0s    93.21nm         6.3mb
     Z  20s     98.45um         7.3Msz
                SKKS  30 32.37
                SP    32 48.07
PLM    99.15  57 eP    19 42.45   1.0
GSC    99.22  55 eP    19 43.66   2.1
PFO    99.49  57 ePDIFc19 42.90   0.0
                epPc  19 49.85  22kmX
YKA    99.53  28 P     19 41.40  -0.9
        1.5s    33.00nm         5.6mb
TPNV   99.68  54 eP    19 45.55   1.7
        0.7s    13.38nm         5.6mb
     Z  20s     63.97um         7.1Msz
                SP    32 33.45
GLA   100.85  58 ePdiff19 50.62   1.6
                ePP   23 22.09
RYD   100.97 294 ePdiff19 49.80   0.0
SNA   101.01 190 ePdiff19 48.80   0.0
        0.9s    38.66nm         5.9mb
                e     31 00.20
TAB   101.23 308 iPdiff19 51.00   0.3
GRO   101.53 313 iPdiff19 53.00   1.3
        3.0s   850.00nm         6.8mb
     Z  14s     6.50um         6.3MszX
     N  20s    45.00um
     E  18s    17.50um
                iPPP  26 16.00
                i     30 33.00
ARUT  101.91  53 ePdiff19 55.59   1.8
                e     23 04.65
MJMA  102.19 295 ePdiff19 56.00   0.9
LRM   102.23  45 ePdiff19 54.60  -0.6
HVU   102.25  49 ePdiff19 55.41   0.2
                ePP   24 11.46
MTA   102.27 311 ePdiff19 54.00  -1.0
                e     24 09.00
DUG   102.30  50 ePdiff19 54.32  -1.1
        1.2s    41.30nm         6.0mb
     Z  21s    59.82um         7.1Msz
                epPc  20 01.11
                ePP   24 06.05
                sP    33 04.11
ALE   102.47   4 iPdiff19 53.02  -2.1
                epPc  20 00.06
PTI   102.49  48 ePdiff19 58.12   1.9
ERE   102.57 310 ePdiff19 55.00  -1.6
                i     24 08.00
                i     30 38.00
                e     33 18.00
KMSA  102.81 289 ePdiff19 59.00   1.0
MSU   102.88  52 ePdiff19 58.80   0.6
RES   103.11  14 ePdiff19 56.00  -2.0
        1.0s     6.00nm         5.3mb X
PYA   103.39 314 ePdiff19 58.00  -2.0
        3.0s  1000.00nm         7.1mb
                i     30 40.00
                i     31 40.00
                iSS   38 58.00
                e     42 54.00
DAU   103.48  50 ePdiff20 00.45  -0.5
                iPP   24 17.53
QASM  103.77 295 ePdiff20 04.33   2.1
EMUT  103.86  51 ePdiff20 02.98   0.4
ARO   104.03 280 ePdiff20 06.00   2.4
SRU   104.13  51 ePdiff20 02.89  -0.8
TUC   104.27  58 iPdiff20 04.99   0.7
     Z  20s    98.13um         7.3Msz
                epPc  20 12.94
                sP    33 34.45
                SKKP  39 40.01
ABHA  104.40 287 ePdiff20 09.67   4.3X
UQSK  104.83 295 ePdiff20 08.67   1.7
MOS   105.17 326 ePdiff20 08.00   0.4
PV09  105.26  52 ePdiff20 09.37   0.5
PV10  105.34  52 ePdiff20 08.62  -0.6
                ePP   24 14.76
PV08  105.63  52 ePKP  24 24.67   0.8
PV08  105.63  52 (Pdiff20 10.71   0.1
SOC   105.84 314 ePdiff20 10.00  -0.9
                e     30 53.00
                eS    32 04.00
                ePS   33 45.00
                eSS   39 36.00
OBN   105.87 326 ePdiff20 08.46  -2.3
                epPc  20 15.75
                ed    20 19.39
ANN   107.38 315 ePdiff20 16.00  -1.7
ALQ   107.71  55 ePdiff20 21.06   1.3
     Z  20s     9.05um         6.3Msz
                ePP   24 48.18
                SKS   31 50.67
                SP    34 16.40
                SS    40 05.30
ANMO  107.71  55 ePdiff20 19.42  -0.3
                epP'df20 26.71
AAE   107.90 278 ePdiff20 26.00   4.9X
GLD   108.15  50 ePdiff20 22.13   0.6
        1.8s    83.51nm         6.6mb
     Z  20s    93.75um         7.3Msz
                e     24 38.62
                iPP   24 49.95
                SP    34 21.56
RSSD  108.37  46 ePdiff20 22.44   0.0
        0.8s    13.40nm         6.2mb
                e     23 41.47
                ePP   24 51.45
DAG   108.68 356 ePdiff20 21.00  -1.8
     Z  22s    31.11um         6.8Msz
     N  22s    17.78um
     E  23s    22.73um
KAF   108.77 334 ePdiff20 22.90  -0.6
        0.6s     3.80nm         5.8mb
KAF   108.77 334 ePKP  24 31.30   2.7
NAI   108.97 267 ePdiff20 32.00   6.2X
                e     31 14.00
                i     32 44.00
SIM   109.59 316 ePdiff20 28.00   0.4
NUR   110.17 333 ePdiff20 26.00  -3.7X
                ePP   25 00.00
                eSKS  31 08.00
                ePS   34 32.00
                ePKKP 35 30.00
                eSS   40 24.00
NUR   110.17 333 ePKP  24 40.00   8.7X
BFT   110.44 240 ePdiff20 45.00  12.9X
        1.0s    40.00nm
                e     24 20.00
LTX   110.56  61 (Pdiff20 34.67   2.3
LTX   110.56  61 ePKP  24 34.35   1.2
MNK   111.26 326 ePdiff20 30.00  -4.7X
     Z  20s    19.20um         6.7Msz
     N  20s    18.60um
     E  20s    28.80um
                e     31 12.00
                ePS   34 36.00
MTD   111.41 250 ePKP  24 52.90  17.9X
SEK   111.65 237 ePdiff20 38.50   1.1
        1.0s    64.00nm
                e     24 29.50
SLR   111.94 239 e(Pdif20 42.00   3.3X
        1.4s   151.16nm
     Z  18s    60.48um         7.2Msz
                e     24 37.50
ULM   112.27  38 ePKP  24 36.00   0.4
BLF   112.56 235 ePdiff20 25.50 -15.9X
        1.0s    40.00nm
                e     24 40.50
HVD   112.58 234 e(Pdif20 35.00  -6.4X
                e     24 48.00
KIS   112.64 319 iPdiff20 40.00  -1.0
     Z  21s    29.60um         6.9Msz
                i     25 23.00
                e     31 48.00
                iPS   34 53.00
                iSS   41 01.00
FRS   113.04 234 ePdiff20 30.00 -13.2X
        1.5s    41.67nm
                e     24 40.20
KRI   113.23 249 iPKPc 24 56.90  18.3X
                i     25 58.00
                i     35 50.30
ACO   113.36  53 e(PKP)24 19.10 -19.1X
BOSA  113.37 236 ePKP  24 39.75   1.4
UPP   113.57 334 ePdiff20 46.00   1.2
                i     25 28.00
CFR   113.63 317 ePKP  24 39.00   0.6
WMOK  113.99  55 ePKP  24 38.49  -1.0
                ePP   25 40.63
KHL   114.33 309 ePKP  24 50.00   9.9X
ELL   114.35 308 ePKP  24 45.00   4.7X
ISR   114.74 317 ePKP  24 42.00   1.4
LVV   114.77 323 ePdiff20 50.00  -0.5
     Z  20s    19.20um         6.7Msz
     N  20s    17.50um
     E  20s    12.00um
                ePPP  28 10.00
                iPS   35 14.00
MLR   115.03 318 ePKP  24 33.00  -8.3X
BUC1  115.33 317 ePKP  24 36.00  -5.7X
MFT   115.44 313 ePKP  24 52.00   9.9X
NB2   115.48 338 PKP   24 40.00  -1.5
        0.9s     2.00nm
CMP   115.71 318 ePKPd 24 57.00  14.6X
PVL   116.15 316 ePKP  24 42.00  -1.3
TUL   116.17  53 iPKP  24 47.40   3.8X
UZH   116.27 322 ePdiff21 00.00   2.8
        2.2s   105.00nm
                i     24 42.50
                e     31 33.00
                i     35 30.00
                e     36 41.00
EZN   116.39 312 ePKP  24 38.20  -5.6X
KDZ   116.55 314 ePKP  24 44.00  -0.1
```

13d 02h

RZN	117.04	314	iPKP	24	44.00	-1.3
OJC	117.11	324	ePKP	24	47.80	2.9
			e	25	25.80	
			e	25	48.00	
			i	32	40.00	
SPC	117.29	323	e(P	4	44.80	-0.7
			i	1	55.50	
UYO	117.61	55	iPK	4	45.30	-1.1
MMB	117.78	314	iPKP	4	45.00	-1.5
BZS	117.85	319	ePKP	24	38.00	-8.4X
			e	35	00.00	
SRS	118.02	314	ePKP	24	48.56	1.6
PSZ	118.03	322	e(PKP)	24	45.00	-1.8
KKB	118.15	315	iPKP	24	45.00	-2.2
COP	118.19	332	ePdiff	21	16.00	10.5X
	Z 20s	56.74um				7.2Msz
			i	26	02.00	
			i	36	00.00	
SOH	118.29	313	ePKP	24	47.96	0.5
KNT	118.51	314	ePKP	24	51.72	3.9X
KSP	118.81	326	ePKP	24	47.40	-0.7
			e	26	02.50	
GRG	118.93	314	ePKP	24	53.00	4.3X
SRO	119.04	322	ePKP	24	49.90	1.3
			iPP	26	19.10	
LIT	119.14	313	ePKP	24	50.92	1.8
SKO	119.27	315	ePdiff	21	05.00	-5.7X
	Z 20s	13.74um				6.6Msz
			e	24	49.00	
			iPP	26	14.00	
			i	27	02.00	
			iPS	35	56.00	
AGG	119.59	312	ePKP	24	52.04	2.0
ZST	119.60	323	ePKP	24	49.70	0.0
			ePP	26	15.30	
			ePKKP	35	04.40	
BRN	119.65	329	ePKP	24	50.00	0.4
			ePP	26	15.00	
FNA	119.72	314	iPKP	24	51.52	1.3
SLM	119.75	49	PKP	24	54.74	4.5X
	Z 19s	173.73um				7.7Msz
			PP	26	04.70	
			PKKP	35	02.84	
			SP	35	58.75	
FVM	119.80	49	ePKP	24	47.24	-3.2X
	Z 19s	120.12um				7.5Msz
			ePP	26	15.11	
			SP	35	57.21	
OHR	120.02	315	iPKP	24	49.00	-1.8
	1.2s	110.00nm				
			i	25	01.30	
VKA	120.03	324	iPKPc	24	52.50	2.0
	Z 19s	11.40um				6.5Msz
			LR	21	00.00	
BRG	120.08	327	iPKP	24	50.10	-0.4
	2.0s	155.00nm				
			eSKKS	33	12.00	
			iS	34	08.00	
			ePKKP	35	00.60	
BCI	120.08	316	ePKP	24	48.90	-1.9
SOP	120.16	323	ePKP	24	51.00	0.2
KBN	120.19	314	ePKP	24	48.50	-2.7
PRU	120.21	326	ePKP	24	49.90	-0.9
	Z 21s	31.60um				6.9Msz
	N 19s	17.40um				
	E 19s	11.90um				
			i	25	01.20	
			e	26	03.00	
			PP	26	18.50	
			e	27	05.80	
			e	29	00.00	
			SKS	31	29.30	
			PKKP	35	03.50	
			ePS	36	02.00	
			e	38	55.00	
CLL	120.35	328	iPKP	24	50.00	-1.0
	1.0s	10.00nm				
	Z 19s	29.00um				6.9Msz
			i	25	02.70	
			PKKP	35	02.50	
			SKKP	38	42.00	
LSK	120.49	314	ePKP	24	47.00	-4.8X
SDA	120.59	316	ePKP	25	02.50	10.8X
TIR	120.60	315	ePKP	24	55.00	3.2X
LACI	120.60	315	ePKP	24	53.50	1.7
LST	120.76	51	PKP	24	59.10	6.9X
TPE	120.86	314	ePKP	24	50.00	-2.3

IGT	120.89	313	ePKP	24	53.88	1.4
ELC	120.92	50	ePKP	24	51.58	-0.9
KHC	121.19	325	ePKP	24	51.00	-1.7
	1.4s	55.10nm				
	N 20s	22.50um				
	E 20s	16.10um				
			e	24	56.00	
			e	25	02.50	
			e	26	24.50	
			e	34	26.00	
			e	34	58.60	
			e	37	38.50	
			e	38	40.00	
			e	38	51.50	
			e	43	04.00	
GEC2	121.26	325	e(PKP)	24	51.90	-1.1
	0.7s	2.00nm				
GEC2	121.26	325	e(PKP)	24	57.00	4.0X
	0.4s	1.20nm				
GEC2	121.26	325	e(PKP)	25	09.20	16.2X
	0.8s	13.30nm				
ZAG	121.36	321	ePKP	24	54.50	1.4
KMR	121.41	324	ePKP	24	59.00	5.9X
			iPP	26	28.40	
JAQ	121.49	28	ePKP	24	52.00	-1.1
WET	121.57	326	ePKP	24	53.90	0.4
	Z 20s	41.00um				7.1Msz
OXF	121.57	53	ePKP	24	52.53	-1.3
			ePP	26	26.77	
			SP	36	15.51	
VBY	121.95	321	ePKP	24	54.30	0.1
LJU	122.15	322	ePKP	24	54.00	-0.6
			epP'df	25	05.50	
			e	26	43.00	
			e	29	11.50	
GRF	122.19	327	ePKP	24	54.40	-0.2
	Z 22s	42.00um				7.0Msz
			e	25	05.70	
			e(PKKP	34	54.70	
KBA	122.36	323	iPKPd	24	54.40	-0.8
			i	24	57.50	
			i	26	23.70	
			i	26	30.40	
			i	34	48.80	
			i	38	36.70	
VOY	122.55	322	ePKP	24	56.80	1.3
			epP'df	25	07.50	
WIN	122.60	239	iPKPc	24	59.50	3.1X
	1.0s	180.00nm				
WIT	122.63	332	ePKP	24	59.00	3.8X
FUR	122.99	325	ePKP	24	55.90	-0.3
	Z 21s	37.00um				7.0Msz
WTS	123.08	331	ePKP	24	57.00	0.9
	1.2s	72.70nm				
			e	26	40.00	
WATA	123.26	324	iPKPc	24	56.40	-0.5
			i	25	07.10	
			i	34	48.00	
WTTA	123.27	324	iPKPd	24	56.50	-0.5
			i	25	00.00	
			i	25	09.60	
			i	26	42.60	
			i	34	49.10	
MOTA	123.53	325	iPKPc	24	55.90	-1.6
			i	25	03.10	
SQTA	123.54	325	iPKPd	24	56.00	-1.4
			i	25	00.50	
			i	34	48.80	
OGA	123.83	324	iPKPc	24	58.30	0.1
EBH	124.27	340	ePKP	24	59.40	1.0
ENN	124.29	330	ePKP	24	57.00	-1.6
	1.0s	38.00nm				
HOFF	124.37	328	PKP	24	59.15	0.3
LANF	124.43	328	PKP	24	58.15	-0.8
EBL	124.49	339	ePKP	24	59.90	1.1
EAU	124.57	340	ePKP	24	59.30	0.3
EAB	124.60	340	ePKP	25	00.20	1.2
ACTO	124.84	40	PKP	24	50.98	-8.9X
EKA	124.88	339	PKPc	24	59.90	0.3
	0.6s	11.20nm				
FEL	124.97	327	PKP	24	59.27	-0.9
WLS	125.01	328	PKP	24	59.38	-0.8
UCC	125.03	331	ePKP+	25	11.00	11.0X
			e	26	51.00	
			e	36	29.00	
CDF	125.05	328	PKP	25	00.02	-0.2
TYNO	125.21	40	PKP	24	52.36	-8.3X

ECH	125.23	327	PKP	24	59.59	-1.0
SNF	125.25	331	PKPc	25	01.40	1.0
			ec	25	13.50	
FIR	125.29	321	ePKP	25	04.00	3.3X
DOU	125.37	330	PKPd	25	01.10	0.4
			e	25	13.30	
MOF	125.46	327	PKP	25	00.46	-0.6
BBS	125.49	326	PKP	24	59.38	-1.7
MYNC	125.53	51	ePKP	25	00.01	-1.6
	Z 20s	49.56um				7.2Msz
			PP	26	41.19	
			PPP	28	09.72	
WLVO	125.72	39	PKP	24	53.24	-8.4X
VITF	125.85	328	PKP	25	01.00	-0.8
YSNY	126.37	40	ePKP	25	01.71	-1.3
	Z 20s	55.03um				7.2Msz
			PP	26	42.18	
			SKKP	38	16.52	
GAC	126.50	35	ePKP	25	02.50	-0.5
PCP	126.55	323	PKP	25	03.44	0.1
LSD	126.85	325	PKP	25	04.90	0.8
FIN	126.93	323	PKP	25	03.57	-0.4
RSP	126.97	324	PKP	25	05.36	1.2
ROB	127.09	323	PKP	25	03.25	-1.1
BHB	127.14	324	PKP	25	04.95	0.6
NAV	127.18	47	ePKP	25	04.27	-0.4
PRM	127.24	51	ePKP	25	04.44	-0.4
IMI	127.29	323	PKP	25	04.03	-0.7
RRL	127.38	324	PKP	25	02.34	-2.8
PZZ	127.43	324	PKP	25	01.28	-3.8X
SAOF	127.45	323	PKP	25	05.04	0.0
BLA	127.49	47	ePKP	25	05.05	-0.3
			ePP	27	02.16	
AUTN	127.52	323	PKP	25	03.50	-1.9
SBF	127.59	323	PKP	25	05.86	0.6
RSNY	127.71	36	ePKP	25	06.37	0.9
			ePP	27	07.44	
			e	27	19.99	
CALN	127.98	323	PKP	25	06.12	0.0
JSC	128.03	51	ePKP	25	05.38	-0.9
			ePP	27	04.88	
			eSKP	28	34.54	
RFA	128.11	144	ePKPc	24	54.00	-12.6X
LHS	128.29	50	ePKPd	25	07.13	0.3
			e	25	18.24	
			ePP	27	10.71	
CVL	128.56	45	ePKP	25	08.47	1.2
			ePP	27	10.96	
			eSKP	28	26.95	
SGS	129.01	52	ePKP	25	09.25	1.1
			ePP	27	10.10	
			eSKP	28	30.36	
CEH	129.02	48	ePKP	25	08.03	-0.1
	Z 20s	64.47um				7.3Msz
			e	25	19.14	
			eSKP	28	31.14	
MDZ	129.17	142	i(PKP)	25	18.50	9.8X
			i	27	11.30	
HBF	129.21	52	ePKP	25	10.27	1.7
CBN	129.22	44	ePKP	25	11.00	2.5
			e	27	21.00	
LBNH	129.40	35	PKP	24	56.42	-12.2X
	Z 20s	69.22um				7.3Msz
			PP	27	04.45	
			SP	37	17.89	
CBM	129.68	30	PKP	24	55.48	-13.6X
	Z 20s	54.69um				7.2Msz
			PP	27	04.74	
			SS	44	41.75	
RTCV	130.06	141	e(PKP)	25	13.50	3.1X
PAL	130.09	39	PKP	25	19.10	9.1X
LSCT	130.14	38	PKP	24	56.61	-13.5X
	Z 21s	62.59um				7.3Msz
			PP	27	03.56	
ZON	130.18	140	e(PKP)	25	12.30	1.7
CFA	130.42	141	e(PKP)	25	13.60	2.6
RTLL	130.46	140	ePKPc	25	14.00	2.9
RTRS	130.58	139	ePKP	25	12.00	0.7
HRV	130.66	36	PKP	25	11.34	0.3
	Z 19s	30.19um				7.0Msz
			PP	27	15.13	
			SP	37	31.41	
			SS	44	47.04	
BRU	131.76	83	ePKP	25	17.72	3.2X
DVD	131.86	84	iPKPc	25	15.18	1.0
LMN	132.06	29	ePKP	25	14.50	0.8
RTPR	132.39	141	e(PKP)	25	18.00	3.3X

```
EBR    133.53 324 ePKP  25 18.00   1.4
                  i     27 46.00
                  e     28 48.00
LPA    133.56 153 ePKP+ 25 18.00   1.2
     Z  21s    47.31um          7.2Msz
                  ePP   27 46.00
                  iPKS  28 48.00
NNA    133.82 113 ePKP  25 17.50  -0.4
        1.3s   225.00nm
CYA    134.12 140 e(PKP)25 07.30 -10.8X
UPA    134.75  83 ePKP  25 20.05   0.4
FSA    135.55 137 e(PKP)25 13.20  -7.6X
GUD    136.29 327 ePKP  25 24.37   2.3
EVIA   136.70 323 ePKP  25 23.32   0.5
ARE    136.76 121 ePKP  25 13.00 -10.8X
SLA    136.79 136 e(PKP)25 16.50  -7.0X
ENIJ   137.59 321 ePKP  25 21.38  -3.1X
HJA    137.82 134 ePKPc 25 21.60  -3.6X
ELUQ   138.46 324 ePKP  25 24.77  -1.3
EGUA   138.52 322 ePKP  25 27.20   1.0
CNCB   139.52 124 PKP   25 20.50  -8.7X
LPB    139.56 124 PKPc  25 21.00  -8.1X
        1.2s   493.75nm
     Z  24s    23.26um          6.8MszX
                  LR    12 23.00
LPAZ   139.66 124 PKP   25 17.70 -11.8X
     Z  25s     0.50um          5.2MszX
                  LR    12 41.00
PLAT   140.31 323 ePKP  25 42.30  12.9X
CCH    140.71 127 ePKP  25 24.00  -7.0X
TGT    141.22 320 ePKP  25 35.00   3.9X
IFR    141.62 320 iPKPd 25 38.00   5.9X
                  i     25 48.00
AVE    143.21 321 iPKP  25 37.00   2.4
                  i     26 21.50
SDV    143.54  83 ePKPd 25 32.80  -3.1X
TOV    144.32  81 ePKPc 25 34.60  -2.5
                  iPP   25 35.20
TIO    144.66 318 iPKP  25 36.00  -1.3
                  i     25 54.00
CIA    145.23 320 ePKP  25 42.50   4.5X
MCP    145.38  66 PKP   25 37.50  -1.1
MGP    145.52  67 PKP   25 36.50  -2.4
MORO   145.69  79 iPKPd 25 38.60  -0.8
APR    145.72  66 PKP   25 39.00  -0.2
CEOS   145.80  83 iPKPc 25 38.20  -1.4
PORP   145.91  66 PKP   25 38.00  -1.6
RSTA   146.29 155 ePKP  25 40.40   0.4
SJG    146.34  66 ePKP  25 40.00  -0.3
LPR    146.54  66 PKP   25 40.00  -0.6
CPD    146.58  66 PKP   25 40.00  -0.6
CAR    147.08  80 iPKPd 25 40.00  -1.7
OLLA   147.25  81 ePKP  25 44.10   2.2
PPD    147.47 149 ePKP  25 43.10   1.1
                  e     25 46.70
VAO2   148.57 157 ePKP  25 47.80   3.9X
                  e     25 52.20
                  e     25 56.50
VAO    148.60 157 ePKP  25 47.60   3.7X
                  i     25 52.20
                  e     25 56.80
CACB   149.88 156 ePKP  25 49.20   3.2X
                  e     25 55.80
                  e     48 45.00
ANG    150.55  65 ePKP  25 51.17   4.4X
BPA    150.56  66 ePKP  25 50.72   3.8X
KIC    150.93 272 PKP   25 50.67   3.1X
        0.6s   572.50nm
TIC    151.21 273 PKP   25 51.73   3.8X
        0.8s   595.50nm
LIC    151.21 272 PKP   25 50.53   2.6
        0.8s   482.00nm
LKO    151.64 279 PKP   25 50.08   1.4
        0.9s   709.00nm
CDCB   151.97 158 ePKPd 25 51.90   2.9
                  e     26 00.60
                  i     36 25.80
                  e     49 05.00
SVB    152.15  73 ePKP  25 56.21   6.9X
SLB    152.22  71 ePKP  25 57.29   7.8X
TPP    152.46  79 ePKP  25 56.72   7.0X
TRN    152.46  78 ePKP  25 57.19   7.4X
TBH    152.81  79 ePKP  25 58.05   7.8X
TPR    152.99  77 ePKP  26 00.47  10.0X
BAO    154.51 147 ePKP  25 52.70   0.0
                  i     25 58.20
                  i     26 04.30
                  e     26 59.00
MBO    161.25 298 iPKPd 26 04.00   3.5X
SOB1   163.49 155 ePKP  26 03.00   0.1
                  e     26 55.20
     S.D. = 1.3  on 423 of 526 obs.
-----------------------------------
*  OCT  13, 1993  02h 14m 38.85± 1.82s
   40.541 N ± 7.6km   19.635 E ±15.1km
   DEPTH =   5.0km  (geophysicist)
 ALBANIA                          (391)
      ML 3.7 (THE).

TPE      0.38 130 iPgc  14 43.50  -3.0
SRN      0.72 157 ePg   14 55.80   2.6X
TIR      0.82  12 iPgc  14 54.20  -1.1
                  iSg   15 10.00
LSK      0.84 118 ePg   14 56.50   1.0
KBN      0.88  84 iPgd  14 55.50  -0.8
OHR      1.05  57 iPn   14 58.10  -1.1
        0.7s   100.00nm
                  i     15 01.70
                  i     15 19.60
                  i     15 24.10
LACI     1.10   3 ePn   15 00.00   0.1
                  iSn   15 19.30
IGT      1.14 152 iPb   15 01.58   0.9
                  eSb   15 21.64
FNA      1.35  79 ePb   15 04.16   0.0
                  eSb   15 28.00
SKO      1.97  43 iPn   15 13.50   0.2
GRG      2.14  78 ePn   15 17.92   2.2
LIT      2.23 100 ePn   15 17.72   0.7
                  eSn   15 52.00
KNT      2.55  75 iPn   15 21.93   0.3
                  eSn   15 57.14
AGG      2.57 125 ePn   15 24.60   2.7X
                  eSn   16 00.00
SOH      2.84  83 ePn   15 26.00   0.2
                  eSn   16 07.20
OUR      3.32  92 ePn   15 32.80   0.3
     S.D. = 1.3  on  14 of  16 obs.
-----------------------------------
?  OCT  13, 1993  02h 43m 32.26± 6.30s
   38.866 N ±27.7km   28.556 E ±53.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 2.9 (ISK).

IZM      1.12 246 ePg   43 53.20   0.0
                  eSg   44 05.90
EDC      1.57 340 ePn   44 00.30   0.1
KGT      1.86 329 ePn   44 04.00  -0.3
EZN      1.98 300 ePn   44 06.20   0.1
MFT      2.16 333 ePn   44 09.00   0.2
     S.D. = 0.3  on   5 of   5 obs.
-----------------------------------
*  OCT  13, 1993  02h 44m 03.91± 0.52s
    5.792 S ± 8.6km  146.076 E ±12.0km
   DEPTH =  33.0km  (normal)
   4.7mb (  9 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

QIS     15.97 203 eP    47 47.00  -0.8
                  i     49 04.10
WR2     18.10 218 eP    48 13.10  -1.5
        0.6s    40.00nm          4.7mb
                  e     49 31.10
WRA     18.11 218 P     48 21.00   6.2X
        1.3s    15.70nm          4.0mb
ASPA    21.29 212 iPd   48 52.30   2.3
        1.0s    73.80nm          5.0mb
                  ipP   49 02.20  38kmX
BRS     22.41 164 eP    49 02.00   0.8
BKM     24.67 120 iPd   49 24.00   0.8
ARMA    25.05 169 eP    49 26.90   0.0
        0.4s     7.00nm          4.6mb
                  e     50 43.40
DZM     25.49 131 iPd   49 29.90  -1.2
STK     26.29 189 eP    49 37.40  -0.9
        0.5s     4.40nm          4.3mb
MAT     42.75 351 eP    52 00.00   0.1
        1.0s    12.00nm          4.6mb
PUZ     43.43 142 P     52 06.10   0.6
CSY     65.23 195 iPd   54 42.70  -1.3
        0.6s    11.20nm          5.1mb
                  i     56 00.00
GBA     70.80 286 P     55 21.00   1.3
NDI     74.49 302 iP    55 41.00  -0.3
PMR     83.42  26 eP    56 29.20   0.1
        0.6s     6.40nm          4.9mb
FBA     85.35  23 ePd   56 37.21  -1.5
        0.4s     1.33nm          4.5mb
BALM    86.25  28 eP    56 42.05  -1.4
BCAO   127.75 271 iPKPc 03 09.00   0.2
        1.0s    10.00nm
                  i     04 27.30
RSTA   146.35 155 ePKP  03 43.30   0.8
PPD    147.52 149 ePKP  03 46.50   2.0
VAO2   148.64 157 (PKP) 03 52.00   5.6X
VAO    148.67 156 ePKP  03 50.10   3.7X
     S.D. = 1.2  on  19 of  22 obs.
-----------------------------------
?  OCT  13, 1993  03h 01m 21.90± 0.65s
    6.469 S ±14.7km  146.455 E ±12.7km
   DEPTH =  33.0km  (normal)
   4.2mb (  3 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

WR2     17.82 220 iPc   05 24.60  -4.5X
        0.7s    15.50nm          4.2mb
ASPA    20.93 214 iPc   06 04.70   0.3
        0.8s    20.40nm          4.6mb
BKM     24.01 120 iPc   06 35.00   0.2
DZM     24.76 131 iPc   06 42.40   0.2
STK     25.69 190 eP    06 50.40  -0.3
        1.5s     2.70nm          3.6mb
PPD    146.75 149 (PKP) 20 57.30  -3.9X
VAO    147.90 156 (PKP) 21 02.10  -1.0
KIC    151.38 271 PKP   21 08.58   0.0
        0.7s    22.50nm
LIC    151.66 271 PKP   21 09.32   0.3
        0.6s    32.50nm
TIC    151.66 272 PKP   21 09.32   0.3
        0.6s    22.50nm
LKO    152.15 278 PKP   21 09.90   0.1
        0.8s    32.50nm
     S.D. = 0.5  on   9 of  11 obs.
-----------------------------------
   OCT  13, 1993  03h 07m 30.99± 0.12s
    5.932 S ± 2.8km  146.153 E ± 3.3km
   DEPTH =  33.0km  (normal)
   6.1mb ( 90 obs.)  6.7Msz ( 50 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      Mw 6.5 (HRV). Ms 6.7 (BRK). ML
      6.5 (PMG).
      CENTROID, MOMENT TENSOR    (HRV)
      Data Used: GDSN
      L.P.B.: 50S, **C  M.W.: 36S, 63C
      Centroid Location:
      Origin Time        03:07:37.0 0.2
      Lat  6.08S 0.02 Lon 146.08E 0.02
      Dep  24.4 1.0 Half-duration  4.3
      Moment Tensor;   Scale 10**18 Nm
        Mrr= 2.29 0.05  Mtt=-2.70 0.05
        Mff= 0.41 0.05  Mrt= 6.44 0.35
        Mrf=-2.04 0.19  Mtf= 0.64 0.05
       Principal Axes:
        T  Val=  6.98  Plg=55  Azm= 21
        N        0.50       3      287
        P       -7.48      35      195
      Best Double Couple:Mo=7.2*10**18
       NP1:Strike=272 Dip=11 Slip=  75
       NP2:        107     80       93

MNDI     2.49 265 eP    07 51.00 -19.3X
WWKK     3.41 312 eP    08 04.70 -18.5X
                  eS    08 30.90
PMG      3.59 164 eP    08 25.70   0.0
KVG      5.71  55 eP    08 57.40   1.7
CTA     14.07 180 iPc   10 50.00  -0.2
CTAO    14.07 180 eP    10 49.64  -0.6
        1.8s  1942.50nm          6.5mb
HNR     14.10 105 eP    10 51.00   0.3
QIS     15.87 203 eP    11 12.40  -1.2
                  i     11 47.20
WB5     17.99 218 eP    11 40.40   0.1
WR2     18.04 218 eP    11 40.30  -0.6
        0.8s   473.60nm          5.7mb
                  eS    15 15.30
GUA     19.38 356 eP    11 57.30   0.1
        1.0s  2000.00nm          6.3mb
                  e     12 05.70
GUMO    19.43 356 ePc   11 58.00   0.2
        2.1s  *******nm          6.8mb
```

13d 03h

```
PJG     19.43 356 eP     11 58.00    0.2
KNA     19.65 239 iPd    11 58.60   -1.5
ASPA    21.21 213 iPd    12 15.60   -0.7
        1.0s   869.10nm          6.1mb
      Z  18s   416.40um          6.9Msz
                ipP     12 23.00   27kmX
                eS      16 20.10
BRS     22.25 164 iPd    12 24.00   -2.7
DAV     24.27 302 eP     12 50.00    3.6X
BKM     24.53 120 iPc    12 50.00    1.0
PVC     24.62 120 iPc    12 52.50    2.7
ARMA    24.90 169 eP     12 51.20   -1.3
DZM     25.34 131 iPd    12 55.90   -0.9
STK     26.17 189 eP     13 02.40   -1.8
        1.1s    69.30nm          5.2mb
                i       20 15.00
MKS     26.57 270 iPc    13 08.20    0.1
PLP     27.07 309 ePc    13 14.00    1.4
BWA     28.43 176 eP     13 23.50   -1.4
                i       13 25.90
                i       13 32.00
                eScP    20 22.10
CAN     29.36 175 eP     13 31.60   -1.7
                i       13 33.20
                i       13 44.80
                i       14 00.70
                eScP    20 25.20
CNB     29.39 175 eP     13 31.30   -2.3
        1.0s   131.00nm          5.6mb
                e       20 40.50
MBL     29.65 237 eP     13 35.60   -0.4
ADE     29.70 192 e(P)   13 36.20   -0.1
FORT    30.00 212 eP     13 38.00   -0.9
        0.9s   155.00nm          5.8mb X
TSM     30.01 289 ePc    13 39.90    0.7
        0.7s   273.30nm          6.2mb
GQP     30.69 310 eP     13 45.00   -0.2
TOO     31.50 181 eP     13 50.20   -1.9
        1.1s   266.00nm          6.0mb
KKM     32.17 291 ePc    14 02.00    3.7X
        1.5s   333.50nm          6.0mb
QCP     32.19 310 eP     14 02.40    4.1X
MEEK    33.36 229 iPc    14 08.20   -0.3
BAG     33.66 312 ePd    14 10.00   -1.3
                eS      19 26.00
VUN     33.74 114 eP     14 11.10   -0.7
SVA     33.77 114 eP     14 11.50   -0.5
COOL    34.16 220 eP     14 15.40    0.0
MRWA    36.71 227 eP     14 36.00   -1.0
KLB     36.84 223 eP     14 36.80   -1.3
BAL     36.98 225 eP     14 39.50    0.2
NWAO    38.02 221 eP     14 48.00    0.0
MUN     38.13 223 eP     14 47.50   -1.4
TATO    38.99 323 eP     14 56.32    0.2
        1.1s  1985.38nm          6.8mb
QZH     40.76 320 eP     15 12.00    1.3
      Z  26s    46.50um          6.2MszX
      N  21s    37.60um
                eS      21 22.00
KUZ     40.88 143 P      15 13.70    2.1
        0.8s    98.00nm          5.6mb
QRZ     42.00 150 P      15 23.00    2.2
HKC     42.04 313 iP     15 25.00    3.7X
SHK     42.21 343 eP     15 22.40   -0.2
CNZ     42.44 146 eP     15 26.70    2.2
NGZ     42.45 146 P      15 25.30    0.6
URZ     42.71 143 P      15 26.60    0.0
THZ     42.89 150 P      15 28.80    0.6
MAJO    42.90 351 ePd    15 27.62   -0.6
        2.7s  1946.21nm          6.4mb
MAT     42.90 351 eP     15 27.00   -1.2
        1.4s   311.63nm          5.8mb X
                eS      21 47.00
HBZ     43.00 142 P      15 30.50    1.5
PAHZ    43.07 144 P      15 30.50    0.9
GZH     43.13 313 iPd    15 35.40    5.2X
TCW     43.18 149 eP     15 30.00   -0.4
WAHZ    43.23 145 P      15 33.10    2.2
PUZ     43.28 142 P      15 30.30   -1.0
MNG     43.39 147 P      15 31.60   -0.5
MRW     43.41 148 P      15 32.60    0.3
SNZO    43.47 148 eP     15 31.83   -0.9
        2.1s   983.41nm          6.2mb
NOZ     43.49 143 P      15 32.40   -0.6
KGM     43.50 279 ePc    15 34.40    1.0
        0.8s   583.50nm          6.4mb
CAW     43.51 148 eP     15 34.10    0.9
```

```
QIZ     43.53 306 eP     15 34.30    0.8
      N  17s    20.30um
      E  18s    13.30um
                eS      22 00.00
                SS      25 09.00
BWZ     43.69 155 P      15 35.00    0.5
PGZ     43.82 147 P      15 37.00    1.4
SSE     43.88 329 P      15 35.50   -0.7
        1.5s   110.00nm          5.4mb
      Z  20s    32.90um          6.2Msz
      N  19s    26.40um
      E  18s    31.00um
                S       22 02.00
                SS      25 16.00
                ScS     25 30.00
MQZ     44.25 152 P      15 39.40    0.3
TUZ     44.76 157 P      15 42.20   -0.9
KLM     45.35 280 eP     15 50.00    1.7
NJ2     45.86 327 Pd     15 52.40    0.4
        1.8s   240.00nm          5.8mb
      N  20s    45.00um
      E  12s     6.70um
IPM     46.26 282 ePd    15 56.00    0.5
        0.9s   468.50nm          6.4mb
SNG     47.26 285 eP     16 05.50    2.1
        1.8s  1636.36nm          6.7mb
WHN     47.36 322 Pd     16 05.20    1.3
        1.5s   340.00nm          6.1mb
                pP      16 20.50   59kmX
PCT     48.86 295 eP     16 18.00    2.2
        0.7s     5.00nm          4.7mb X
LOE     49.63 299 eP     16 22.00    0.3
NNT     49.67 292 eP     16 22.40    0.4
TIA     49.98 329 eP     16 23.00   -1.1
        1.2s   130.00nm          5.8mb
      N  20s    30.20um
                eS      23 28.00
GYA     50.01 312 iPd    16 25.80    1.2
        1.4s   230.00nm          6.0mb
DL2     50.07 335 eP     16 26.00    1.3
        1.2s   220.00nm          6.1mb
NST     50.37 296 eP     16 28.50    1.1
VLA     50.51 346 iP     16 28.00    0.0
        3.5s  2752.00nm          6.7mb X
                i       23 40.00
                i       23 53.00
KUR     50.96   2 iPc    16 34.50    3.2X
        1.0s   600.00nm          6.5mb
      Z  18s    14.80um          6.0Msz
      N  18s    17.70um
      E  18s     8.90um
                eS      23 52.00
SNY     51.81 339 Pc     16 36.40   -1.5
        1.4s   180.00nm          5.8mb
      N  21s    35.70um
      E  21s    33.80um
                pP      16 47.00   36kmX
BDT     51.96 297 eP     16 41.00    1.6
        1.0s   124.20nm          5.8mb X
KMI     52.29 308 Pc     16 42.50    0.4
        1.8s   450.00nm          6.1mb
      Z  24s    54.90um          6.5MszX
      N  14s     4.70um
      E  15s    10.80um
                pP      16 52.50   33kmX
                S       24 08.00
MDJ     52.48 345 Pd     16 42.40   -0.5
        1.4s   260.00nm          6.0mb
CHTO    52.62 299 ePc    16 44.00   -0.4
        0.9s    62.45nm          5.6mb
YSS     52.80 357 iPd    16 44.20   -1.0
        1.0s    30.00nm          5.2mb
                e       16 56.20
CN2     52.92 341 P      16 45.30   -0.9
        1.2s   140.00nm          5.8mb
      Z  20s    21.70um          6.2Msz
      N  16s     6.16um
      E  16s     5.54um
                epP     17 02.00   64kmX
                eS      24 11.00
XAN     53.10 321 Pc     16 46.00   -1.7
        1.5s   400.00nm          6.2mb
      Z  20s    33.90um          6.4Msz
      N  16s    15.80um
      E  20s    19.90um
                pP      17 01.00   56kmX
                sP      17 07.00
```

```
                S       24 16.00
BJI     53.44 331 eP     16 48.00   -2.0
        1.8s   380.00nm          6.1mb
      N  20s    42.90um
                eS      24 25.00
TIY     53.58 327 Pd     16 50.80   -0.5
        1.0s    62.00nm          5.6mb
      Z  23s    73.80um          6.7MszX
      N  22s    33.70um
      E  20s    24.20um
RAR     54.44 112 (P)    16 57.64   -0.1
        1.8s   763.23nm          6.4mb
CD2     54.63 315 eP     16 58.40   -0.6
HHC     56.34 329 eP     17 10.40   -0.9
        1.2s   170.00nm          6.0mb
      Z  22s    84.10um          6.8Msz
      N  20s    26.90um
      E  21s    17.60um
BTO     56.96 328 eP     17 15.00   -0.8
        1.2s   110.00nm          5.8mb
      N  15s     2.67um
      E  14s     3.47um
LZH     57.61 320 Pc     17 20.50    0.0
        2.0s   450.00nm          6.2mb
      Z  25s    37.50um          6.4MszX
      E  17s    33.89um
                pP      17 32.50   42kmX
                eS      25 22.00
PET     59.67   9 eP     17 35.00    0.7
        2.0s   500.00nm          6.3mb
DRV     60.78 183 iP     17 43.20    1.5
HON     61.08  62 P      17 50.00    5.5X
      Z  21s    38.79um          6.5Msz
DHH     61.24  62 P      17 49.00    3.5X
GTA     62.15 321 Pc     17 50.50   -1.1
        1.5s    71.00nm          5.6mb
      Z  18s    18.30um          6.3Msz
                pP      18 06.00   57kmX
                sP      18 12.00
                PP      20 12.00
                S       26 17.00
HKL     62.42  63 eP     17 54.66    0.7
SMY     63.07  19 P      17 51.20   -6.0X
        1.4s   492.18nm          6.4mb
AFR     63.53 107 iPd    18 01.20    0.3
        1.2s   521.30nm          6.5mb
LSA     63.53 307 Pc     18 02.20    0.9
        1.4s    99.00nm          5.7mb
      Z  24s    25.30um          6.3MszX
      N  22s    15.90um
      E  18s     7.48um
                S       26 37.00
PAE     63.72 107 iPd    18 02.60    0.5
        1.6s   803.50nm          6.6mb
PPT     63.72 107 iPd    18 02.60    0.4
        1.3s   543.00nm          6.5mb
PPN     63.86 107 iPd    18 03.60    0.6
        1.2s   511.70nm          6.5mb
TVO     64.04 107 iPd    18 05.00    0.7
        1.3s   935.80nm          6.7mb
CSY     65.11 195 iPc    18 08.60   -1.8
        0.7s   119.00nm          6.1mb
PMO     65.28 104 iPd    18 13.00    0.7
        1.3s  1860.00nm          7.0mb
TPT     65.55 104 iPd    18 14.60    0.6
        1.4s  1512.60nm          6.9mb
ADK     65.75  24 ePc    18 13.67   -1.0
        1.6s   288.93nm          6.1mb
RUV     65.78 104 iPd    18 16.00    0.5
        1.4s  1279.10nm          6.8mb
GUN     67.13 303 P      18 25.20    0.8
PKI     67.40 303 P      18 26.20    0.1
KKN     67.58 303 P      18 27.40    0.3
DMN     67.67 303 P      18 28.40    0.7
IRK     68.01 334 ePc    18 27.00   -2.1
        2.2s   201.00nm          5.8mb
      Z  19s    18.20um          6.3Msz
      N  20s     8.46um
      E  20s    14.60um
YAK     68.93 352 iPd    18 33.50   -1.0
        2.0s   805.00nm          6.4mb
      N  19s    13.80um
                i       18 58.00
                e       21 09.00
                iPS     27 55.00
                e       28 12.00
HYB     70.65 291 eP     18 48.00    2.1
```

```
        1.0s   310.00nm          6.3mb
GBA     70.91 287 Pd    18 47.90   0.4
        0.9s   999.90nm          6.9mb
WMQ     72.19 320 iPd   18 55.20   0.4
        1.5s    96.00mb          5.6mb
      Z  22s    17.30um          6.3Msz
UER     72.46 329 iPc   18 53.80  -2.2
        1.3s   160.00nm          5.9mb
                iS      28 22.00
SBA     72.69 176 eP    18 58.30   1.3
NDI     74.63 302 iPc   19 08.20  -1.0
        0.9s   252.10nm          6.2mb
                eS      28 39.00
SDN     75.23  28 eP    19 10.39  -1.7
        0.9s   187.25nm          6.1mb
POO     75.26 291 iPc   19 16.20   3.2X
        1.0s   280.00nm          6.2mb
ILT     77.72  13 iPd   19 25.80   0.0
        1.0s   344.00nm          6.3mb
      Z  20s    21.00um          6.5Msz
      N  20s    20.00um
      E  20s    11.00um
                i       19 35.00
TIK     78.24 354 iPc   19 28.00  -0.6
        1.3s    90.00nm          5.6mb
                e       19 40.00
                eS      29 25.00
KSH     78.68 312 eP    19 32.00   0.1
        1.0s    60.00nm          5.6mb
                pP      19 42.00  32kmX
                sP      19 47.50
ANM     78.92  19 eP    19 32.99   0.5
KDC     80.27  29 eP    19 39.06  -0.7
        1.8s   285.53nm          6.0mb
SVW     80.52  25 eP    19 41.01  -0.2
        1.2s   255.11nm          6.1mb
AUP     80.60  27 eP    19 41.26  -0.5
FRU     80.67 315 eP    19 43.00   0.7
        2.2s   540.00nm          6.2mb
                e       29 53.00
TTA     81.32  23 ePc   19 44.07  -1.3
        1.4s    67.09nm          5.5mb
MAW     81.99 203 iPc   19 47.70  -1.0
        1.0s    93.90nm          5.8mb X
      Z  18s    25.20um          6.6Msz
CP2     82.03  25 eP    19 47.79  -1.5
CRP     82.06  25 eP    19 46.82  -2.6
SLKM    82.56  27 eP    19 49.81  -2.0
PMR     83.51  26 iPc   19 54.78  -1.8
        1.3s   173.78nm          6.0mb
      Z  20s    28.07um          6.6Msz
IMA     83.79  21 ePc   19 57.32  -0.9
        1.1s    75.40nm          5.8mb
KLU     84.88  27 ePc   20 02.32  -1.3
TOA     85.00  26 eP    20 04.30   0.1
COL     85.45  23 ePd   20 05.17  -1.1
        1.4s   305.63nm          6.3mb
FBA     85.45  23 ePd   20 04.87  -1.4
        1.1s   125.74nm          6.0mb
BALM    86.33  28 iPc   20 09.89  -1.0
SIT     88.73  32 eP    20 22.81   0.5
        1.7s    97.84nm          5.9mb
      Z  21s    24.28um          6.6Msz
MAIO    90.78 306 eP    20 33.00   0.4
INK     91.90  22 eP    20 38.50   1.6
        1.0s    24.00nm          5.6mb
SVE     92.46 327 ePd   20 37.00  -2.7
        2.8s    70.00nm          5.6mb
      Z  19s     1.00um          5.3MszX
      N  19s     1.00um
      E  19s     2.00um
ARU     93.54 326 eP    20 45.00   0.4
        2.0s   100.00nm          5.9mb
      Z  20s    16.00um          6.5Msz
      N  16s     3.50um
      E  20s    12.00um
                e       24 33.00
KMPM    93.59  50 ePd   20 45.84   0.4
                ePP     24 30.46
ARC     93.66  49 ePc   20 47.54   2.0
        0.4s    70.00nm          6.4mb
      Z  19s    21.00um          6.6Msz
                eLR     50 32.90
FHC     93.73  50 eP    20 46.17   0.2
        1.7s   474.43nm          6.6mb
NTYM    94.57  52 ePc   20 50.27   0.5
BMW     94.68  44 eP    20 49.97  -0.3
YBH     94.75  49 ePc   20 50.26  -0.4
        1.8s   130.00nm          6.1mb
      Z  22s    31.00um          6.7Msz
                ePP     24 42.56
                eLQ     46 34.52
                eLR     50 54.52
WDC     94.81  50 ePc   20 50.10  -0.8
        1.9s   220.00nm          6.3mb
                ePP     24 45.10
WDC     94.81  50 P     21 00.00   9.1X
      Z  20s    39.86um          6.9Msz
BKS     94.87  53 ePc   20 49.89  -1.3
        1.9s   260.00nm          6.3mb
      Z  19s    23.00um          6.7Msz
                ePP     24 44.59
                eLR     50 15.09
GMW     95.05  43 iPd   20 52.04   0.2
                ePP     24 42.99
MCW     95.08  42 eP    20 52.33   0.3
SSOR    95.12  46 P     20 52.07  -0.3
COE     95.28  53 ePc   20 52.58  -0.5
MHC     95.31  53 ePc   20 52.49  -0.9
        2.0s   190.00nm          6.2mb
      Z  19s    28.00um          6.8Msz
                ePP     24 37.99
                eLR     50 49.19
LBFM    95.34  49 eP    20 52.88  -0.7
                ePP     24 38.85
SHW     95.35  44 eP    20 54.09   0.7
ARN     95.40  53 ePc   20 53.08  -0.6
                ePP     24 45.96
SAO     95.43  54 eP    20 53.73  -0.1
        2.4s   210.00nm          6.2mb
      Z  18s    23.00um          6.7Msz
                ePPc    24 43.28
                eLQ     46 32.99
                eLR     50 42.99
SAO     95.43  54 P     21 00.00   6.2X
      Z  18s    26.68um          6.7Msz
MIN     95.51  50 eP    20 53.05  -1.2
        1.4s    40.00nm          5.7mb
      Z  18s    23.00um          6.7Msz
                ePPc    24 40.20
                i       35 52.71
                eLR     51 02.71
LMEM    95.54  50 eP    20 55.80   1.3
ORV     95.54  51 ePc   20 53.16  -1.1
        1.8s   180.00nm          6.2mb
      Z  21s    20.00um          6.6Msz
                ePPc    24 51.81
                i       39 11.67
                eLR     50 59.67
JCW     95.66  42 P     20 54.72   0.1
LON     95.67  44 eP    20 54.38  -0.4
RMW     95.71  43 eP    20 54.87  -0.1
VBEM    95.75  45 P     20 56.41   1.1
FMW     95.78  43 P     20 55.20  -0.3
ASR     95.80  44 P     20 55.17  -0.3
SHI     96.04 299 eP    20 58.00   1.0
CROR    96.17  45 P     20 56.99  -0.2
CMB     96.34  52 ePc   20 56.89  -1.1
        2.2s   170.00nm          6.1mb
      Z  19s    25.00um          6.7Msz
                ePPc    24 56.04
                iPS     39 14.30
                eLQ     47 08.30
                eLR     51 11.30
CMB     96.34  52 P     21 10.00  12.0X
      Z  19s    27.23um          6.7Msz
VGB     96.34  45 eP    20 57.47  -0.4
BCH     96.45  55 eP    20 58.75   0.1
EBG     96.53  44 P     20 58.57  -0.1
WTV     96.97  43 P     21 00.25  -0.4
VIP     97.12  51 P     20 58.05  -3.8X
ABL     97.14  56 ePd   21 01.86  -0.1
SAW     97.34  43 P     21 01.84  -0.4
MEMM    97.47  53 eP    21 04.38   1.4
NVL     97.67 194 iP    21 04.00   0.7
        1.4s    44.00nm          5.8mb
                e       21 20.00
                e       21 39.00
                ePP     25 03.00
                ePPP    27 11.00
                eSKS    31 39.00
                eS      32 25.00
                ePS     33 45.00
ISA     97.78  55 P     21 10.00   5.4X
      Z  20s    20.41um          6.6Msz
BONR    97.98  53 eP    21 05.01  -0.7
LNOR    98.09  45 P     21 06.88   1.2
DPW     98.15  43 ePd   21 05.78  -0.2
SSK     98.38  56 (P)   21 07.79   0.3
TNP     98.84  52 eP    21 11.53   2.1
        0.9s     7.66nm          5.2mb
NEW     98.87  42 ePd   21 09.02  -0.2
        1.0s    35.54nm          5.9mb
                ePP     25 09.71
GSC     99.14  55 eP    21 11.23   0.5
YKA     99.50  28 P     21 12.30   0.6
        0.9s     9.00nm          5.3mb
TPNV    99.60  54 P     21 20.00   7.1X
      Z  19s    22.18um          6.7Msz
GLA    100.76  58 ePdiff21 18.86   0.7
TAB    101.36 308 ePdiff21 24.00   3.2X
ARUT   101.83  53 ePdiff21 23.64   0.7
LRM    102.17  45 ePdiff21 23.70  -0.7
HVU    102.18  49 ePdiff21 24.67   0.3
                e       24 42.93
DUG    102.23  50 Pdiff 21 30.00   5.4X
      Z  18s    16.35um          6.6Msz
MTA    102.40 311 ePdiff21 26.00   0.9
                e       25 46.00
MSU    102.80  52 ePdiff21 27.21  -0.1
RES    103.12  14 ePdiff21 31.00   3.4X
        1.0s     3.00nm          5.0mb X
DAU    103.41  50 ePdiff21 28.12  -2.0
                ePP     25 40.97
PYA    103.51 314 ePdiff21 31.00   0.9
                i       25 48.00
SRU    104.05  51 ePdiff21 32.21  -0.6
TUC    104.18  58 Pdiff 21 40.00   6.6X
      Z  19s    30.03um          6.8Msz
PV09   105.18  52 ePdiff21 38.80   0.8
PV10   105.27  52 ePdiff21 37.88  -0.5
                ePP     26 01.14
PV08   105.56  52 ePdiff21 41.36   1.6
                ePP     26 00.41
OBN    105.98 326 (PKP) 26 01.10   8.1X
      Z  20s   *******um          9.5MszX
                (PP)    26 09.50
                e       26 29.20
                (PS)    35 04.50
OBN    105.98 326 ePdiff21 43.00   2.3
ALQ    107.62  55 PKP   26 10.00  12.9X
      Z  18s    14.36um          6.6Msz
GLD    108.08  50 (Pdiff21 48.97  -1.8
      Z  20s    35.31um          6.9Msz
RSSD   108.30  46 ePdiff21 51.47  -0.2
        1.7s    22.65nm          6.1mb
                ePP     26 13.77
BFT    110.53 240 ePKP  25 52.00 -10.8X
KAS    110.65 312 ePKP  26 08.00   5.6X
MNK    111.37 326 ePKP  26 09.00   5.8X
MTD    111.52 249 ePKP  26 22.00  17.3X
                i       26 27.90
SEK    111.74 236 ePKP  25 51.50 -13.5X
SLR    112.03 239 iPKPc 26 06.00   0.4
        1.4s    93.02nm
ULM    112.22  38 ePKP  26 11.00   6.0X
BLF    112.65 235 ePKP  26 01.00  -5.7X
FRS    113.12 234 e(PKP)26 09.00   1.7
ACO    113.28  53 iPKPc 26 06.10  -1.4
KRI    113.33 249 ePKP  26 25.30  17.0X
                i       26 34.20
BUL    113.39 245 iPKPd 26 10.20   1.9
        0.9s    15.13nm
WMOK   113.91  55 PKP   26 20.00  11.2X
      Z  20s     6.60um          6.2Msz
VRI    114.51 318 ePKP  26 14.00   4.4X
MLR    115.15 318 ePKP  26 15.00   4.0X
BUC1   115.45 317 ePKP  26 22.00  10.6X
NB2    115.57 338 PKP   26 10.00  -1.2
        1.2s     4.30nm
SUR    115.60 230 ePKP  26 13.00   0.7
        1.4s    88.00nm
NRA0   115.64 337 ePKPd 26 12.20   1.0
                ePP     27 34.90
CER    116.31 228 ePKP  26 09.50  -3.9X
        0.7s    33.00nm
BLE    116.54 228 e(PKP)26 16.00   2.2
        1.5s    70.00nm
UYO    117.52  55 iPKPd 26 14.50  -1.2
POF    117.56 233 e(PKP)26 20.00   4.2X
        0.6s     9.00nm
```

13d 03h

```
KSP   118.92 326 ePKP  26 20.80   3.0X
SRO   119.15 322 ePKP  26 21.70   3.4X
                 e     27 33.70
SKO   119.39 315 ePKP  26 19.00   0.0
SLM   119.67  49 PKP   26 30.00  10.4X
      Z 20s    21.84um          6.8Msz
ZST   119.71 323 ePKP  26 23.00   3.6X
                 e(PP) 27 29.50
                 e     36 54.80
                 e     39 17.40
                 e     40 28.00
FVM   119.73  49 ePKP  26 17.76  -2.0
      Z 20s    59.35um          7.2Msz
VKA   120.14 324 iPKPc 26 20.90   0.7
      Z 18s    11.00um          6.5Msz
                 LR    19 52.00
OHR   120.14 315 iPKP  26 17.50  -3.0
BRG   120.19 327 iPKP  26 20.20   0.0
       2.2s    85.00nm
      Z 21s    33.00um          6.9Msz
      N 21s    20.00um
      E 21s     6.60um
                 ePKKP 36 30.50
PRU   120.32 326 ePKP  26 23.40   2.9X
      Z 20s    19.20um          6.7Msz
      N 17s     9.20um
      E 18s     9.90um
                 e     26 26.60
                 ePP   27 46.50
CLL   120.46 328 iPKP  26 21.40   0.7
       1.1s    18.00nm
      Z 20s    27.00um          6.9Msz
                 PKKP  36 28.00
ELC   120.84  50 ePKP  26 22.43   0.6
KHC   121.30 326 PKP   26 23.50   1.1
       1.2s    13.00nm
                 e     26 33.90
                 e     27 00.00
GEC2  121.37 325 PKP   26 22.20  -0.5
       0.6s     4.11nm
                 e     26 33.90
                 e     26 37.90
JAQ   121.47  28 ePKP  26 24.00   1.5
MOX   121.56 328 ePKP  26 26.30   3.5X
       1.5s    18.00nm
      Z 21s    24.00um          6.8Msz
WET   121.68 326 iPKPc 26 22.20  -0.9
LJU   122.27 322 e(PKP)26 28.00   3.7X
                 e     26 39.50
GRF   122.30 327 ePKP  26 26.80   2.5
      Z 22s    24.00um          6.8Msz
                 e     26 30.40
KBA   122.47 324 iPKPd 26 24.90   0.0
                 i     26 30.60
                 i     26 39.10
                 i     28 04.40
                 i     28 08.90
                 i     36 16.60
VOY   122.66 322 e(PKP)26 28.10   2.9X
WIN   122.69 239 iPKPd 26 29.00   2.9X
       1.5s    80.00nm
      Z 18s   101.00um          7.5Msz
FUR   123.10 326 iPKPd 26 29.60   3.7X
                 e     26 32.60
WTTA  123.38 324 iPKPd 26 27.50   0.8
                 i     26 41.80
                 i     28 08.20
MOTA  123.64 325 iPKPd 26 27.00  -0.2
                 i     26 42.10
OGA   123.94 324 iPKPc 26 32.00   4.2X
ENN   124.39 331 ePKP  26 31.00   2.7
       1.0s    20.00nm
EKA   124.96 339 PKPd  26 32.70   3.5X
       1.2s    19.20nm
SNF   125.35 331 PKP   26 33.70   3.6X
FIR   125.40 321 ePKP  26 33.00   2.6
MYNC  125.46  51 PKP   26 40.00   9.1X
      Z 20s    21.56um          6.8Msz
DOU   125.47 331 PKPc  26 32.90   2.5
YSNY  126.32  40 PKP   26 40.00   7.6X
      Z 21s    35.55um          7.0Msz
GAC   126.46  35 ePKP  26 33.00   0.6
NAV   127.11  47 ePKPc 26 34.60   0.5
                 ePP   28 36.70
PRM   127.17  51 ePKPc 26 35.81   1.6
                 ePP   28 28.32
                 e     29 53.61
RSNY  127.67  36 PKP   26 40.10   5.3X
JSC   127.95  51 ePKP  26 34.51  -1.1
BINY  128.08  39 PKP   26 50.00  14.3X
      Z 18s    41.31um          7.1Msz
LHS   128.22  50 ePKP  26 37.77   1.6
SGS   128.93  52 ePKP  26 37.99   0.5
CEH   128.95  48 PKP   26 50.00  12.5X
      Z 20s    25.70um          6.9Msz
LBNH  129.36  35 PKP   26 50.00  12.0X
      Z 19s    29.23um          7.0Msz
CBM   129.65  30 PKP   26 50.00  11.5X
      Z 20s    42.42um          7.1Msz
LSCT  130.09  38 PKP   26 50.00  10.5X
      Z 20s    39.72um          7.1Msz
CFA   130.30 141 e(PKP)26 41.00   0.7
RTLL  130.34 140 ePKPd 26 40.50   0.1
RTRS  130.46 138 e(PKP)26 42.00   1.5
HRV   130.62  37 PKP   26 50.00   9.5X
      Z 20s    23.93um          6.9Msz
MRA   131.29 144 e(PKP)26 37.80  -4.2X
LMN   132.04  29 ePKP  26 41.00  -2.1
NNA   133.69 113 ePKP  26 47.00  -0.2
       2.0s   294.12nm
CYA   134.00 140 ePKPc 26 37.50  -9.9X
FSA   135.43 137 e(PKP)26 50.50   0.4
ARE   136.62 121 ePKP  26 45.00  -8.0X
SLA   136.66 136 e(PKP)26 44.00  -8.7X
CCH   140.58 127 PKP   26 56.00  -4.3X
SDV   143.41  83 iPKPc 27 02.20  -3.0
TOV   144.20  82 ePKP  27 04.50  -1.8
TIO   144.78 318 iPKP  27 08.00   1.0
                 i     27 18.40
MCP   145.27  66 (PKP) 27 08.00   0.1
MGP   145.41  67 PKP   27 06.50  -1.6
MORO  145.57  79 ePKP  27 07.60  -1.1
PORP  145.81  66 PKP   27 06.00  -2.9
SJG   146.24  66 ePKP  27 09.33  -0.3
LPR   146.43  66 PKP   27 10.00   0.1
CPD   146.47  66 PKP   27 10.00   0.0
OLLA  147.12  81 iPKPc 27 13.90   2.7
PPD   147.36 149 ePKP  27 12.10   0.8
                 e     27 15.10
VAO2  148.48 157 ePKP  27 15.30   2.1
                 e     27 17.60
VAO   148.51 156 e(PKP)27 12.00  -1.2
                 e     27 14.70
                 e     27 17.50
                 e     27 24.00
                 e     27 28.10
                 e(PP) 30 42.00
BPA   150.46  66 ePKP  27 21.25   5.0X
KIC   151.06 272 ePKP  27 17.94   0.7
       1.0s   352.00nm
TIC   151.34 273 PKP   27 18.47   0.8
       0.5s    24.50nm
LIC   151.34 272 PKP   27 18.41   0.8
       0.9s   353.50nm
LKO   151.78 279 PKP   27 25.52   7.2X
       1.0s   323.00nm
CDCB  151.88 158 ePKP  27 18.40   0.0
                 e     27 26.20
TRN   152.34  78 ePKP  27 26.62   7.6X
BAO   154.40 147 ePKP  27 07.70 -14.3X
                 i     27 23.00
                 i     27 31.00
                 i     27 35.90
                 i     27 44.00
                 i     27 51.80
SOB1  163.40 155 ePKP  27 32.20   0.0
                 e     28 24.20
     S.D. = 1.2  on 267 of 336 obs.
-----------------------------------
*  OCT  13, 1993  03h 15m 02.59± 0.67s
   5.881 S ±13.2km  146.176 E ±12.5km
   DEPTH =  33.0km  (normal)
   5.1mb (  4 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

MNDI    2.52 264 eP    15 43.00   0.7
BRS    22.29 164 iP    19 57.00  -1.7
BKM    24.54 120 iPc   20 22.00   1.3
URZ    42.73 143 P     22 58.70   0.3
PUZ    43.30 142 P     23 03.90   0.8
CSY    65.16 195 iPc   25 40.70  -1.6
       0.6s    10.30nm          5.1mb
MAW    82.04 203 P     27 22.00   1.4
PMR    83.46  26 (P)   27 28.20   0.3
       0.8s    11.72nm          5.1mb
IMA    83.74  21 eP    27 29.39  -0.1
       1.0s    10.50nm          4.9mb
FBA    85.39  23 eP    27 35.90  -1.7
       0.8s    15.86nm          5.3mb
BALM   86.28  28 eP    27 42.70   0.4
KIC   151.08 272 PKP   34 54.15   5.3X
       0.8s    33.00nm
TIC   151.36 273 PKP   34 54.75   5.5X
       0.8s    30.00nm
LIC   151.36 272 PKP   34 54.81   5.6X
       0.7s     3.50nm
     S.D. = 1.3  on  11 of  14 obs.
-----------------------------------
   OCT  13, 1993  03h 19m 31.73± 0.35s
    5.786 S ± 6.1km  146.170 E ± 8.3km
   DEPTH =  33.0km  (normal)
   4.9mb (  7 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

MNDI    2.53 262 eP    20 14.00   2.5
WRA    18.18 218 P     23 42.00  -1.4
       0.5s     8.80nm          4.2mb
GUA    19.24 356 eP    23 57.20   0.9
GUMO   19.29 356 eP    23 57.10   0.2
       1.0s   120.00nm          5.1mb
PJG    19.29 356 eP    23 57.70   0.8
ASPA   21.34 212 P     24 22.79   4.4X
BRS    22.39 164 iPc   24 26.50  -2.3
                 i     24 34.00
BKM    24.59 121 iPd   24 51.90   1.6
ARMA   25.04 169 eP    24 54.10  -0.5
DZM    25.42 132 iPd   24 57.80  -0.5
MAT    42.76 351 eP    27 26.00  -1.8
       1.2s    23.44nm          4.8mb
HBZ    43.11 142 eP    27 31.90   1.3
TCW    43.29 149 P     27 32.80   0.8
PUZ    43.38 142 P     27 33.30   0.4
MNG    43.50 147 P     27 34.50   0.7
MRW    43.53 148 P     27 34.20   0.2
MTW    43.89 148 P     27 37.10   0.1
NST    50.32 296 eP    28 28.40   0.7
CHTO   52.56 299 eP    28 44.60  -0.1
BJI    53.32 331 eP    28 47.50  -2.4
       0.8s     8.00nm          4.8mb
CSY    65.25 195 iPd   30 10.60  -1.5
       0.5s     6.80nm          5.0mb
HYB    70.61 291 eP    30 46.70   0.3
       1.0s    30.00nm          5.3mb
GBA    70.88 286 P     30 47.80  -0.2
NDI    74.57 302 eP    31 06.00  -3.6X
SVW    80.38  25 eP    31 42.00   0.8
PMR    83.37  26 eP    31 56.10  -0.5
IMA    83.65  21 eP    31 57.40  -0.8
       1.0s     6.46nm          4.7mb
KLU    84.74  27 eP    32 03.46  -0.2
TOA    84.86  26 eP    32 04.80   0.5
FBA    85.31  23 eP    32 04.90  -1.5
BALM   86.20  28 eP    32 11.18   0.2
BCAO  127.84 271 iPKPd 38 37.30   0.5
       1.0s    40.00nm
                 i     40 25.00
                 i     42 25.90
RSTA  146.32 155 ePKP  39 11.70   1.4
VAO   148.64 156 ePKP  39 17.00   2.8X
KIC   151.07 273 PKP   39 23.39   5.4X
       1.3s    46.50nm
TIC   151.35 273 PKP   39 23.91   5.5X
       0.8s    15.50nm
LKO   151.77 279 PKP   39 25.19   6.1X
       0.8s    28.50nm
     S.D. = 1.2  on  31 of  37 obs.
-----------------------------------
%  OCT  13, 1993  03h 28m 15.11± 1.98s
   37.736 S ±19.5km  175.903 E ±14.4km
   DEPTH = 160.0km  (geophysicist)
 NORTH ISLAND, NEW ZEALAND        (159)

URZ     1.09 119 P     28 42.60   0.8
                 S     29 00.70
PAHZ    1.44 141 eP    28 46.30   1.1
PUZ     1.89 101 eP    28 48.90  -1.1
                 eS    29 11.60
NOZ     1.90 118 P     28 49.80  -0.2
HBZ     1.91  87 P     28 50.10   0.0
TTH     1.94 158 eP    28 51.40   0.9
WAHZ    1.99 170 P     28 52.10   0.9
```

```
MAHZ     2.12 134 P      28 52.20  -0.5
TEHZ     2.36 163 P      28 55.40  -0.1
PGZ      2.89 174 P      29 01.70  -0.3
MNG      2.90 186 Pc     29 02.20   0.1
                  eS     29 35.00
KIW      3.22 194 eP     29 06.20   0.1
DIW      3.43 206 eP     29 09.60   0.8
CAW      3.43 191 P      29 08.40  -0.5
MTW      3.43 185 P      29 07.80  -1.1
MRW      3.61 194 eP     29 10.50  -0.7
                  eS     29 51.80
TCW      3.69 199 eP     29 12.00  -0.2
     S.D. = 0.7  on  17 of  17 obs.
-----------------------------------
%  OCT  13, 1993  03h 29m 19.85± 0.73s
   38.752 N ± 8.3km   28.072 E ± 6.1km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 3.1 (ISK).

IZM      0.73 241 iPg    29 34.20   0.0
                  iSg    29 46.70
KHL      1.22 110 ePn    29 42.00  -0.5
ALT      1.62  79 ePn    29 49.50   0.9
EZN      1.73 309 iPn    29 50.20   0.1
KGT      1.80 341 iPn    29 51.70   0.6
MFT      2.12 344 ePn    29 55.00  -0.9
EYL      2.42  41 ePn    30 00.00  -0.2
     S.D. = 0.8  on   7 of   7 obs.
-----------------------------------
*  OCT  13, 1993  03h 44m 16.18± 0.75s
    6.231 S ± 9.6km  145.979 E ±12.9km
   DEPTH =  33.0km  (normal)
   4.3mb (  3 obs.)
 NEW GUINEA, PAPUA NEW GUINEA     (202)
      ML 4.9 (PMG).

MDG      0.99 348 eP     44 32.00  -1.8
MNDI     2.31 272 eP     45 05.00  12.1X
PMG      3.36 160 eP     45 06.00  -1.7
WWKK     3.50 318 eP     45 15.60   6.0X
KVG      6.03  53 eP     45 46.90   1.5
WR2     17.70 219 eP     48 23.20   1.3
         1.0s    10.50nm          3.9mb
ASPA    20.87 213 iPc    49 02.90   4.9X
         1.4s    14.90nm          4.2mb
GUN     67.15 304 P      55 10.00   0.3
         0.4s    18.00nm          5.5mb X
PKI     67.42 303 P      55 11.00  -0.4
KKN     67.60 303 P      55 12.40   0.0
         0.6s    13.00nm          5.2mb
KKN     67.60 303 P      55 13.20   0.8
         0.6s    15.00nm          5.3mb X
DMN     67.68 303 P      55 13.20   0.2
         0.6s    15.00nm          5.3mb X
KIC    150.90 272 PKP    04 08.31   6.1X
         0.6s     8.50nm
LIC    151.18 272 PKP    04 08.25   5.7X
         0.6s     5.50nm
TIC    151.18 272 PKP    04 08.23   5.6X
         0.7s     5.00nm
LKO    151.65 279 PKP    04 09.38   6.1X
         0.8s     8.00nm
     S.D. = 1.3  on   9 of  16 obs.
-----------------------------------
   OCT  13, 1993  03h 46m 04.34± 0.30s
    5.979 S ± 4.5km  146.315 E ± 8.0km
   DEPTH =  21.8km  (  3 depth phases)
   4.6mb ( 15 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

MNDI     2.65 266 e(P)   47 00.00  13.1X
CTA     14.02 180 iPd    49 36.00  11.9X
         1.0s    12.50nm
QIS     15.89 204 eP     49 48.50   0.1
WR2     18.10 219 eP     50 15.80  -0.5
         0.6s    32.60nm          4.6mb
WRA     18.12 219 P      50 16.89   0.5
         0.7s    21.90nm          4.4mb
GUA     19.44 356 eP     50 33.80   1.2
GUMO    19.49 356 eP     50 33.40   0.3
PJG     19.49 356 eP     50 34.00   0.9
ASPA    21.26 213 eP     50 52.40   0.8
         0.8s    28.00nm          4.7mb
                  eS     54 47.10
BRS     22.16 165 iPc    51 00.00  -0.6
BKM     24.37 120 iPc    51 23.50   1.3
ARMA    24.82 169 eP     51 27.00   0.4
         0.6s     6.00nm          4.4mb
DZM     25.19 131 iPd    51 30.00  -0.1
STK     26.15 189 iPc    51 37.90  -1.0
         0.6s     5.70nm          4.4mb
BWA     28.37 176 eP     51 58.60  -0.6
CAN     29.30 176 eP     52 07.50  -0.1
TOO     31.45 181 iPc    52 26.20  -0.4
         0.9s    29.00nm          5.2mb
MAT     42.97 350 (P)    54 02.00  -1.7
         1.2s    10.94nm          4.5mb
IPM     46.42 282 ePc    54 32.50   0.8
NST     50.54 296 eP     55 05.50   2.0
CHTO    52.78 299 eP     55 22.00   1.5
CN2     53.02 341 eP     55 21.40  -0.4
XAN     53.23 321 P      55 22.50  -1.2
         1.0s     4.50nm          4.4mb
                  pP     55 29.00  21km
BJI     53.55 331 eP     55 24.00  -1.8
         1.2s     8.00nm          4.6mb
LZH     57.75 320 eP     55 56.00  -0.4
         1.6s     4.10nm          4.2mb
                  pP     56 03.00  23km
GTA     62.29 321 eP     56 27.00  -0.5
         1.0s     5.00nm          4.6mb
                  pP     56 33.50  21km
                  sP     56 36.50
LSA     63.68 307 eP     56 37.50   0.2
CSY     65.11 195 iPc    56 44.30  -1.0
         0.6s     8.60nm          5.1mb
GBA     71.08 287 P      57 22.00  -1.4
SLKM    82.53  27 (P)    58 26.39  -0.3
PMR     83.48  26 eP     58 31.20  -0.3
         0.9s     7.50nm          4.9mb
IMA     83.78  21 eP     58 34.09   1.0
         0.8s     4.66nm          4.7mb
FBA     85.43  23 eP     58 39.47  -1.7
         0.8s     5.80nm          4.9mb
BALM    86.30  28 eP     58 45.61  -0.2
BCAO   127.99 271 iPKPc  05 12.00   0.6
         0.6s     6.00nm
CNCB   139.22 124 PKP    05 28.00  -5.2X
LPB    139.27 124 ePKP   05 28.00  -5.1X
LPAZ   139.37 123 PKP    05 25.80  -7.8X
CCH    140.42 126 PKP    05 36.60   1.5
RSTA   146.08 154 ePKP   05 44.10  -0.1
PPD    147.24 149 ePKP   05 47.30   1.1
VAO    148.40 156 ePKP   05 51.90   3.8X
KIC    151.22 272 PKP    05 58.98   6.5X
         0.8s    14.50nm
TIC    151.50 273 PKP    05 59.50   6.5X
         0.5s     8.50nm
LIC    151.51 272 PKP    05 59.60   6.7X
         0.6s    16.00nm
LKO    151.94 279 PKP    06 00.17   6.5X
         0.8s    14.00nm
BAO    154.27 147 ePKP   06 05.20   8.3X
                  i      06 12.60
                  i      06 16.00
     S.D. = 1.0  on  36 of  47 obs.
-----------------------------------
   OCT  13, 1993  04h 03m 45.61± 0.40s
    5.904 S ± 6.1km  145.978 E ± 8.1km
   DEPTH =  33.0km  (normal)
   4.6mb (  5 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.8 (PMG).

MDG      0.68 343 iPc    03 58.40  -0.3
MNDI     2.32 264 iPd    04 28.00   5.5X
WWKK     3.26 314 eP     04 42.80   7.1X
PMG      3.67 161 eP     04 40.80  -0.6
KVG      5.84  56 eP     05 12.40   0.2
QIS     15.83 202 eP     07 27.20  -0.5
WR2     17.95 218 iPc    07 54.00  -0.5
         0.7s    20.00nm          4.4mb
                  eS     11 10.40
WRA     17.96 218 P      07 54.50  -0.1
         1.5s    14.40nm          3.9mb
ASPA    21.14 212 iPd    08 29.80  -0.5
         0.9s    51.60nm          4.9mb
                  eS     12 25.00
BKM     24.70 120 iP     09 07.00   1.8
ARMA    24.96 168 eP     09 07.10  -0.6
DZM     25.49 131 iPc    09 12.80   0.0
IPM     46.08 282 ePc    12 10.30   1.6
CHTO    52.45 299 eP     13 01.00   3.2X
GBA     70.73 287 P      15 01.00   0.0
MAW     81.94 203 P      16 05.19   2.1
IMA     83.83  21 eP     16 13.10   0.1
         0.9s     4.58nm          4.6mb
KLU     84.93  27 eP     16 18.08  -0.4
FBA     85.49  23 eP     16 19.52  -1.6
         0.7s     5.08nm          4.8mb
BALM    86.39  28 eP     16 25.00  -0.8
BCAO   127.65 271 iPKPd  22 51.00   0.7
         0.6s    11.00nm
CNCB   139.54 124 PKP    23 08.00  -5.3X
LPB    139.59 124 ePKP   23 14.00   0.8
LPAZ   139.69 124 PKP    23 06.00  -7.7X
CCH    140.74 127 (PKP)  23 14.00  -1.2
PPD    147.48 149 (PKP)  23 29.00   2.9X
KIC    150.88 272 PKP    23 38.40   6.8X
         0.8s    47.00nm
TIC    151.16 273 PKP    23 38.92   6.9X
         0.7s    50.50nm
LIC    151.17 272 PKPc   23 38.88   6.9X
         0.7s    57.00nm
LKO    151.60 279 PKP    23 39.53   6.9X
         0.7s    43.50nm
     S.D. = 1.0  on  20 of  30 obs.
-----------------------------------
*  OCT  13, 1993  04h 12m 02.46± 0.64s
    5.777 S ± 8.7km  146.042 E ±12.9km
   DEPTH =  33.0km  (normal)
   4.8mb (  3 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.9 (PMG).

MDG      0.58 334 iPc    12 13.80  -0.5
MNDI     2.40 261 eP     12 46.50   6.0X
WWKK     3.22 311 eP     12 56.80   4.8X
PMG      3.77 163 eP     13 00.00   0.3
KVG      5.72  57 eP     13 36.40   9.1X
QIS     15.97 202 eP     15 46.00  -0.4
WR2     18.09 218 eP     16 12.30  -0.8
                  eS     19 26.30
ASPA    21.28 212 iPd    16 51.70   3.2X
         1.0s    33.10nm          4.7mb
                  eS     20 47.40
BRS     22.43 164 iP     16 58.50  -1.5
BKM     24.71 120 iPd    17 23.50   1.4
ARMA    25.07 169 eP     17 25.10  -0.5
DZM     25.52 131 iPc    17 29.70  -0.3
STK     26.30 189 eP     17 38.60   1.6
         3.6s     3.00nm          3.3mb X
CSY     65.23 195 eP     22 42.20  -0.4
         0.5s     5.60nm          4.9mb
GBA     70.76 286 P      23 20.00   2.0
FBA     85.35  23 eP     24 35.99  -1.3
         1.0s     6.30nm          4.8mb
CNCB   139.56 124 PKP    31 25.80  -4.4X
LPB    139.61 124 ePKP   31 23.00  -7.1X
LPAZ   139.70 123 PKP    31 20.20 -10.4X
CCH    140.76 126 (PKP)  31 31.00  -1.1
RSTA   146.38 155 ePKP   31 42.50   1.4
PPD    147.55 149 ePKP   31 46.40   3.3X
VAO    148.70 156 (PKP)  31 50.00   5.0X
KIC    150.94 273 PKP    31 54.89   6.4X
         0.8s    12.00nm
TIC    151.22 273 PKP    31 55.57   6.6X
         0.6s     7.50nm
LIC    151.23 272 PKP    31 55.55   6.6X
         0.5s     8.50nm
     S.D. = 1.2  on  14 of  26 obs.
-----------------------------------
*  OCT  13, 1993  04h 33m 01.06± 0.74s
    6.103 S ± 8.3km  146.227 E ±16.8km
   DEPTH =  33.0km  (normal)
   4.3mb (  3 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.6 (PMG).

MDG      0.96 332 e(P)   33 18.20   0.0
MNDI     2.56 269 e(P)   33 51.00   9.7X
PMG      3.41 164 eP     33 53.40   0.2
WWKK     3.58 313 eP     34 00.60   5.0X
WR2     17.95 219 iPc    37 09.90   0.0
         1.0s     7.90nm          3.8mb
ASPA    21.11 213 iPd    37 49.10   3.7X
         0.7s    15.70nm          4.5mb
BRS     22.07 164 iPc    37 54.50  -0.5
ARMA    24.72 169 eP     38 21.20   0.3
         0.7s     7.00nm          4.3mb
```

13d 04h

```
FBA    85.58  23 eP    45 37.00    0.0
KIC   151.14 272 PKP   52 54.23    6.8X
       0.7s      9.00nm
TIC   151.42 273 PKP   52 54.77    6.9X
       0.8s     10.50nm
LIC   151.42 272 PKP   52 54.77    7.0X
       0.5s      5.00nm
     S.D. = 0.4  on   6 of  12 obs.
-------------------------------------
*  OCT  13, 1993  05h 18m 55.96± 0.76s
    6.051 S ± 9.7km  146.390 E ±12.9km
   DEPTH =  33.0km  (normal)
   4.3mb (  6 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

MNDI    2.72 268 eP    19 40.00    1.5
WWKK    3.66 311 eP    19 53.30    1.6
CTA    13.95 181 iPd   22 17.00    3.3X
QIS    15.85 204 eP    22 39.00    0.6
WR2    18.10 219 iPd   23 05.20   -1.4
       0.8s     13.90nm          4.1mb
                eS     26 26.60
WRA    18.11 219 P     23 05.90   -0.8
       1.5s      9.10nm          3.7mb
ASPA   21.24 213 iPd   23 44.70    3.1X
       0.9s     33.10nm          4.7mb
ARMA   24.74 169 eP    24 18.00    2.0
STK    26.09 189 eP    24 27.90   -0.6
       0.7s      2.20nm          3.9mb
CHTO   52.88 299 eP    28 10.00   -1.3
LZH    57.85 320 eP    28 45.00   -2.2
       1.2s     20.00nm          5.0mb
KLU    84.88  26 eP    31 29.12    0.5
FBA    85.46  23 eP    31 30.19   -1.2
       0.8s      3.01nm          4.6mb
BALM   86.33  28 eP    31 37.00    1.1
CNCB  139.12 124 ePKP  38 23.00    0.1
LPAZ  139.27 123 PKP   38 19.70   -3.6X
KIC   151.30 272 PKP   38 48.90    6.4X
       1.0s     21.00nm
TIC   151.58 273 PKP   38 49.32    6.3X
       1.0s     20.50nm
LIC   151.58 272 PKP   38 49.62    6.7X
       0.7s     10.50nm
     S.D. = 1.5  on  13 of  19 obs.
-------------------------------------
   OCT  13, 1993  05h 50m 42.58± 0.14s
    6.013 S ± 3.1km  146.061 E ± 3.7km
   DEPTH =  33.0km  (normal)
   5.7mb ( 73 obs.)  5.7Msz ( 43 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      Mw 6.0 (HRV). ML 6.1 (PMG).
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 22S, 33C
      Centroid Location:
      Origin Time        05:50:45.8 0.9
      Lat  5.79S 0.12 Lon 146.37E 0.09
      Dep  15.0 FIX Half-duration  2.0
      Moment Tensor;    Scale 10**18 Nm
        Mrr=-0.16 0.04   Mtt=-0.11 0.06
        Mff= 0.26 0.05   Mrt= 1.22 0.06
        Mrf=-0.34 0.08   Mtf=-0.03 0.04
       Principal Axes:
        T  Val=  1.16   Plg=44   Azm= 23
        N        0.22       6       287
        P       -1.38      46       191
      Best Double Couple:Mo=1.3*10**18
       NP1:Strike=186 Dip= 6 Slip= -11
       NP2:        287     89       -96

MDG     0.81 340 iPc   50 56.60   -0.9
MNDI    2.39 266 eP    51 27.00    6.5X
WWKK    3.40 314 eP    51 40.40    5.8X
PMG     3.54 162 eP    51 36.80    0.2
KVG     5.83  55 eP    52 08.50   -0.6
HNR    14.17 105 eP    54 04.00    0.9
                eS     56 50.00
QIS    15.76 203 eP    54 24.00    0.2
                eS     57 15.00
MTN    16.21 244 eP    54 29.50   -0.1
       0.7s    318.00nm         5.6mb
WR2    17.92 218 eP    54 51.00   -0.1
       0.7s    255.90nm         5.5mb
                eS     58 07.40
WRA    17.93 218 P     54 51.29    0.1
GUA    19.46 357 eP    55 09.20   -0.5
       0.8s    614.93nm         5.9mb
                e      55 13.00
GUMO   19.51 357 eP    55 08.80   -1.4
       1.3s    934.90nm         5.9mb
                e      55 18.70
PJG    19.51 357 eP    55 09.70   -0.5
ASPA   21.10 212 iPd   55 25.90   -0.9
       0.7s     80.90nm         5.2mb
     Z 19s      52.10um         5.9Msz
                eS     59 36.00
BRS    22.20 164 iPd   55 36.00   -1.8
                i      55 41.50
                i      55 49.00
DAV    24.23 302 eP    56 00.00    2.3
                eS     00 17.50
BKM    24.57 120 iP    56 01.00    0.0
PVC    24.66 120 iPc   56 02.10    0.3
ARMA   24.84 168 iPd   56 02.40   -1.1
       0.9s     76.00nm         5.3mb
                epP    56 16.00   56kmX
                iScP   03 22.00
DZM    25.36 131 iPc   56 07.00   -1.5
CTB    25.46 301 ePd   56 14.00    4.6X
STK    26.07 189 iPd   56 13.60   -1.4
       1.3s     22.00nm         4.6mb X
                i      03 25.40
MKS    26.47 270 iPc   56 21.60    2.8X
PLP    27.05 309 ePd   56 24.50    0.5
MAP    27.33 306 eP    56 31.00    4.4X
RIV    28.08 171 eP    56 32.50   -0.7
BWA    28.36 176 iPd   56 35.00   -0.8
CAN    29.29 175 iPd   56 42.90   -1.3
                i      57 00.30
CNB    29.32 174 iPd   56 43.20   -1.3
       0.8s     36.00nm         5.2mb
ADE    29.60 192 eP    56 46.00   -1.0
FORT   29.88 212 eP    56 49.50    0.0
       0.8s     35.00nm         5.2mb
TSM    29.95 289 eP    57 51.00    0.7
KKM    32.11 291 eP    57 12.50    3.1X
QCP    32.17 310 eP    57 02.00   -7.7X
MEEK   33.24 229 eP    57 18.50   -0.5
BCP    33.63 312 eP    57 20.00   -2.6
BAG    33.64 312 eP    57 23.80    1.0
                eS     02 34.00
COOL   34.04 220 eP    57 24.90   -1.1
MRWA   36.58 227 eP    57 47.10   -0.5
KLB    36.72 223 iPc   57 47.90   -0.8
BAL    36.86 225 eP    57 49.90    0.0
NWAO   37.90 221 eP    58 07.70    9.1X
MUN    38.01 223 eP    57 59.00   -0.5
OUZ    38.57 143 P     58 04.30    0.1
QZH    40.76 320 P     58 25.50    3.1X
MOZ    41.52 145 P     58 28.20   -0.3
WLZ    41.55 144 P     58 29.00    0.3
HKC    42.03 313 P     58 37.00    4.2X
SHK    42.26 343 eP    58 33.50   -1.1
CNZ    42.42 145 P     58 37.00    1.0
NGZ    42.44 145 P     58 37.10    0.9
URZ    42.70 143 P     58 37.80   -0.3
MAT    42.96 351 eP    58 38.00   -2.3
       1.5s    297.22nm         5.8mb
     Z 20s      4.96um         5.4Msz
                eS     05 07.00
HBZ    43.00 142 P     58 40.70    0.1
PAHZ   43.06 144 P     58 41.20    0.1
TCW    43.16 149 P     58 41.50   -0.3
WAHZ   43.22 145 P     58 42.00   -0.4
PUZ    43.27 142 P     58 41.90   -0.9
MNG    43.37 147 P     58 43.30   -0.3
TTH    43.38 145 P     58 44.70    1.1
MRW    43.39 148 P     58 44.90    1.2
KGM    43.42 279 ePd   58 46.00    1.7
NOZ    43.48 143 P     58 44.00   -0.5
QIZ    43.50 306 Pc    58 45.00    0.1
     N 15s      2.30um
                S      05 15.00
BWZ    43.66 155 P     58 44.60   -1.2
MTW    43.76 148 P     58 45.80   -0.9
BLW    43.90 148 P     58 47.00   -0.8
SSE    43.90 329 P     58 47.50   -0.4
       1.0s     42.00nm         5.2mb
     Z 20s      5.50um         5.5Msz
     N 16s      2.00um
     E 16s      1.60um
                S      05 14.00
                sS     05 30.00
TUZ    44.72 157 P     58 53.90   -0.5
NJ2    45.88 327 Pc    59 03.80    0.1
     Z 20s      2.96um         5.2Msz
     N 13s      1.91um
     E 15s      2.61um
                S      05 49.00
IPM    46.18 282 ePd   59 07.90    1.4
SNG    47.20 285 eP    59 16.00    1.5
                eS     06 12.00
WHN    47.36 322 Pc    59 17.00    1.5
       1.0s     60.00nm         5.6mb
     N 16s      2.68um
                PP     01 06.00
                iS     06 13.00
PCT    48.81 295 eP    59 29.70    2.7X
LOE    49.58 299 eP    59 33.00    0.0
NNT    49.61 292 eP    59 34.00    0.8
GYA    49.99 312 iPc   59 37.00    0.9
       1.2s    100.00nm         5.7mb
     Z 20s      3.04um         5.3Msz
     N 18s      2.18um
     E 18s      1.18um
                pP     59 51.00   52kmX
                S      06 49.00
TIA    50.00 329 eP    59 35.10   -0.8
     Z 24s      6.45um         5.5MszX
     N 14s      1.95um
     E 14s      2.08um
                eS     06 44.00
DL2    50.10 335 eP    59 39.00    2.4
       1.0s     89.00nm         5.7mb
NST    50.32 296 iPd   59 40.00    1.4
VLA    50.56 347 iPd   59 41.00    1.0
       2.0s    396.00nm         6.1mb
                iPPP   02 36.00
                iS     06 57.00
                e      09 24.00
                i      10 24.00
SNY    51.85 339 Pc    59 48.00   -1.8
       1.0s     46.00nm         5.4mb
     Z 22s     10.60um         5.8Msz
     N 18s      3.33um
     E 15s      1.28um
                sP     00 06.70
                PcP    01 01.70
                S      07 10.00
BDT    51.92 297 eP    59 56.00    5.3X
       1.0s     55.20nm         5.5mb
KMI    52.27 308 Pc    59 54.00    0.5
       1.5s    160.00nm         5.8mb
     Z 22s      4.10um         5.4Msz
     N 15s      1.70um
     E 15s      1.10um
                pP     00 00.50   22kmX
                sP     00 05.00
MDJ    52.53 345 eP    59 53.50   -1.4
       1.7s    320.00nm         6.0mb
     Z 27s      5.09um         5.4MszX
                S      07 20.00
CHTO   52.57 299 iPc   59 56.30    0.6
       1.5s    183.00nm         5.8mb
YSS    52.88 357 iPc   59 58.50    1.1
CN2    52.97 341 Pc    59 58.00   -0.2
       1.2s     70.00nm         5.5mb
     Z 20s      3.96um         5.5Msz
     N 16s      3.17um
     E 16s      1.61um
                epP    00 12.00   52kmX
                eS     07 25.00
                eSS    11 06.00
XAN    53.10 321 P     59 58.00   -1.4
       1.6s    250.00nm         5.9mb
     Z 20s      2.73um         5.3Msz
     N 14s      1.03um
     E 16s      1.93um
                pP     00 10.00   42kmX
                sP     00 14.60
                S      07 28.00
BJI    53.46 332 eP    00 00.50   -1.3
       1.5s     99.00nm         5.6mb
     Z 24s      5.41um         5.5MszX
                eS     07 32.00
TIY    53.60 327 eP    00 03.00    0.0
     Z 21s      6.72um         5.7Msz
     N 17s      2.85um
                S      07 36.00
CD2    54.62 315 ePc   00 10.00   -0.6
```

```
     Z  18s      2.47um          5.3Msz
     E  15s      2.38um
                  S     07 52.00
HHC    56.36 329 eP     00 22.00  -1.1
       1.2s   130.00nm          5.8mb
     Z  22s      6.82um          5.7Msz
     N  15s      1.03um
     E  15s      1.06um
                 pP     00 33.00  37kmX
                  S     08 13.00
BTO    56.98 328 P      00 26.00  -1.5
       0.9s    38.00nm          5.4mb
     N  18s      1.25um
     E  17s      1.14um
                 sP     00 38.00
LZH    57.61 320 Pc     00 32.00  -0.1
       1.6s   290.00nm          6.1mb
     Z  22s      2.48um          5.3Msz
     N  15s      2.07um
                 sP     00 47.50
                 PP     02 40.00
                  S     08 31.00
PET    59.77   9 eP     00 48.00   1.5
       1.5s   200.00nm          6.0mb
     Z  20s      2.50um          5.3Msz
                 eS     09 00.00
                 eSS    12 52.00
HON    61.20  62 P      01 10.00  13.1X
     Z  20s      4.13um          5.6Msz
GTA    62.16 321 iPc    01 02.50  -0.7
       1.0s    44.00nm          5.5mb
     Z  26s      3.72um          5.4MszX
     N  13s      0.61um
                 pP     01 14.00  39kmX
                 sP     01 18.50
                 PP     03 23.50
                  S     09 29.00
LSA    63.50 307 Pd     01 13.50   0.8
       1.0s    61.00nm          5.7mb
AFR    63.59 107 iPc    01 14.40   1.5
       1.1s   151.40nm          6.0mb
PAE    63.79 107 iPc    01 15.60   1.4
       1.3s   233.20nm          6.1mb
PPT    63.79 107 iPc    01 15.80   1.6
       1.7s   735.20nm          6.5mb
PPN    63.92 106 iPc    01 16.70   1.6
       1.4s   521.00nm          6.4mb
CIT    64.09 338 eP     01 15.70   0.1
TVO    64.10 107 iPc    01 17.40   1.1
       1.4s   674.40nm          6.6mb
CSY    65.01 195 iPc    01 20.90  -0.4
       0.6s    89.30nm          6.0mb
PMO    65.35 104 iPc    01 24.60   0.3
       1.2s   511.70nm          6.5mb
VAH    65.61 104 iPc    01 25.60  -0.4
       1.6s   429.10nm          6.3mb
TPT    65.62 104 iPc    01 26.10   0.0
       1.6s   848.30nm          6.6mb
RUV    65.85 104 iPc    01 27.20  -0.3
       1.2s   260.60nm          6.2mb
GUN    67.09 304 P      01 36.40   0.6
PKI    67.37 303 P      01 37.80   0.3
KKN    67.55 303 P      01 39.00   0.5
DMN    67.63 303 P      01 39.50   0.4
IRK    68.05 334 eP     01 40.00  -0.9
       2.4s   155.00nm          5.7mb
     Z  20s      2.64um          5.5Msz
     N  18s      1.31um
     E  20s      2.63um
                  e     02 10.00
                 eS     10 42.00
                  e     11 40.00
YAK    69.00 352 iPc    01 46.90   0.4
       1.8s   211.00nm          5.9mb
                 eS     10 51.00
HYB    70.59 291 iPd    01 57.50   0.3
       1.2s   142.90nm          5.9mb
                  e     02 46.00
                 eS     11 12.00
GBA    70.84 287 Pc     02 00.00   1.4
WMQ    72.19 320 iPd    02 06.50   0.1
       1.0s    23.00nm          5.1mb
     Z  22s      1.93um          5.3Msz
                  S     11 30.00
UER    72.48 329 iPc    02 06.00  -1.7
       1.2s    80.00nm          5.6mb
                 eS     11 34.00
NDI    74.59 302 iPc    02 19.50  -1.1
       0.8s   123.13nm          6.0mb
                 eS     11 53.50
POO    75.20 291 iPd    02 27.40   3.1X
       0.9s    92.44nm          5.8mb
SDN    75.34  28 ePd    02 21.80  -2.5
       0.7s   110.74nm          6.0mb
ILT    77.81  13 iPc    02 39.50   1.6
       1.0s   324.00nm          6.3mb
                 iS     12 32.00
                  e     13 00.00
TIK    78.32 355 eP     02 40.00  -0.6
       1.0s    30.00nm          5.3mb
     Z  18s      1.40um          5.3Msz
                  i     02 44.00
                  e     05 40.00
                 ePPP   07 29.00
                 eS     12 34.00
KSH    78.67 312 eP     02 44.40   1.0
       0.6s    30.00nm          5.5mb
     N  16s      2.14um
     E  16s      1.35um
KDC    80.38  29 eP     02 51.40  -0.6
SVW    80.63  25 ePc    02 52.88  -0.5
       1.1s   107.98nm          5.8mb
FRU    80.66 315 eP     02 54.00   0.1
       2.5s   250.00nm          5.8mb
                  e     13 12.00
AUP    80.72  27 eP     02 51.31  -2.6
TTA    81.43  23 ePc    02 56.54  -1.0
       1.3s    41.49nm          5.3mb
MAW    81.88 203 P      03 00.10   0.4
       0.9s    32.89nm          5.4mb
CP2    82.14  25 eP     02 59.25  -2.2
CRP    82.18  25 eP     02 59.02  -2.5
SLKM   82.68  27 ePd    03 02.44  -1.6
PMR    83.62  26 eP     03 06.55  -2.2
       1.1s    79.50nm          5.8mb
     Z  19s      3.71um          5.8Msz
IMA    83.90  21 ePc    03 09.15  -1.2
       1.7s    82.86nm          5.6mb
SPA    84.02 180 iPd    03 08.50  -2.5
       0.9s   131.82nm          6.1mb
KLU    84.99  27 eP     03 14.70  -1.1
TOA    85.11  26 eP     03 16.20  -0.2
FBA    85.56  23 eP     03 15.85  -2.6
       0.7s    31.56nm          5.6mb
BALM   86.45  28 eP     03 21.54  -1.5
SIT    88.85  32 P      03 40.00   5.5X
     Z  20s      3.07um          5.7Msz
MAIO   90.76 306 eP     03 43.00  -1.0
ASH    91.85 308 eP     03 52.00   3.1X
                 eS     14 44.10
INK    92.01  22 eP     03 47.50  -1.5
       1.3s    27.00nm          5.5mb
SVE    92.48 327 ePd    03 50.00  -1.3
       2.1s    40.00nm          5.5mb
ARU    93.55 326 eP     03 55.00  -1.3
     Z  20s      1.50um          5.4Msz
     N  18s      0.50um
     E  18s      1.00um
                  e     07 45.00
KMPM   93.71  50 eP     03 59.11   1.6
FHC    93.85  50 eP     04 00.00   1.9
       0.8s    41.24nm          5.9mb
RNO    94.27  46 P      04 03.51   3.5X
NTYM   94.69  52 eP     04 01.64  -0.3
YBH    94.87  49 eP     04 05.11   2.3
       1.0s    20.00nm          5.5mb
WDC    94.93  50 eP     04 02.14  -0.9
       0.8s    18.38nm          5.6mb
     Z  21s      5.06um          6.0Msz
BKS    94.99  53 eP     04 07.39   4.0X
       1.4s    80.00nm          6.0mb
GMW    95.17  43 eP     04 03.16  -0.8
MCW    95.20  42 eP     04 02.85  -1.3
SSOR   95.24  46 P      04 06.50   2.0
COE    95.40  53 P      04 07.65   2.4
MHC    95.43  53 eP     04 08.69   3.1X
       1.1s    20.00nm          5.5mb
ARN    95.52  53 eP     04 04.38  -1.5
SAO    95.55  54 P      04 20.00  14.0X
     Z  19s      3.72um          5.9Msz
MIN    95.63  50 eP     04 07.50   1.1
       0.9s    10.00nm          5.3mb
LMEM   95.66  50 (P)    04 08.36   1.7
ORV    95.67  51 eP     04 05.56  -0.9
       1.3s    40.00nm          5.7mb
JCW    95.78  42 P      04 06.38  -0.4
LON    95.79  44 (P)    04 08.91   2.0
RMW    95.83  43 eP     04 06.69  -0.4
VBEM   95.87  45 P      04 07.69   0.2
FMW    95.90  44 P      04 06.75  -0.8
SHI    96.00 299 eP     04 09.00   0.6
CROR   96.29  45 P      04 08.55  -0.7
CMB    96.46  52 eP     04 12.54   2.4
       1.1s    10.00nm          5.2mb
VGB    96.46  45 eP     04 08.66  -1.3
BCH    96.57  55 eP     04 11.12   0.3
EBG    96.65  44 P      04 10.33  -0.5
WTV    97.09  43 P      04 11.76  -1.0
JBO    97.12  45 P      04 13.72   0.8
ABL    97.27  56 eP     04 12.69  -1.4
WAH2   97.34  44 P      04 13.33  -0.5
NVL    97.57 194 iPd    04 14.00  -0.5
       2.0s    50.00nm          5.7mb
                  e     05 05.00
                  e     05 42.00
                 ePP    08 16.00
                 ePPP   10 12.00
                 eSKS   14 51.00
                 eS     15 45.00
                 ePS    16 28.00
MEMM   97.59  53 eP     04 16.60   1.5
MTUM   97.88  53 eP     04 18.83   2.1
ISA    97.91  55 eP     04 15.72  -1.0
       0.9s    10.40nm          5.4mb
     Z  20s      2.79um          5.7Msz
BONR   98.10  53 eP     04 17.55  -0.3
DPW    98.27  43 eP     04 17.11  -1.0
TNP    98.96  53 (P)    04 21.90   0.3
NEW    98.99  42 eP     04 19.04  -2.3
       0.8s    27.75nm          5.8mb
GSC    99.26  55 ePd    04 25.75   2.9X
YKA    99.62  28 eP     04 25.10   1.3
       1.1s     6.00nm          5.0mb
TPNV   99.72  54 ePDIF  04 26.64   1.6
       0.7s     5.52nm          5.2mb
     Z  21s      5.42um          6.0Msz
GLA   100.88  58 ePdiff04 31.74   1.5
ARUT  101.95  53 (Pdiff04 38.75   3.7X
LRM   102.29  45 ePdiff04 35.10  -1.4
HVU   102.30  49 ePdiff04 37.47   0.9
DUG   102.35  50 ePdiff04 37.83   1.1
       0.9s     3.63nm          5.0mb
     Z  19s      2.39um          5.7Msz
MTA   102.38 311 ePdiff04 35.00  -1.6
RES   103.22  14 ePdiff04 45.00   5.4X
DAU   103.53  50 ePdiff04 43.57   1.3
EMUT  103.90  51 ePdiff04 43.97   0.1
TUC   104.30  58 Pdiff 05 00.00  14.5X
     Z  19s      3.93um          6.0Msz
PV09  105.30  52 ePdiff04 51.30   1.1
PV10  105.39  52 ePdiff04 52.07   1.6
PV08  105.68  52 ePdiff04 52.51   0.6
ALQ   107.74  55 PKP   09 20.00  11.1X
     Z  20s      1.90um          5.6Msz
GLD   108.20  50 PKP   09 20.00  10.4X
     Z  20s      4.31um          6.0Msz
SEK   111.62 237 e(PKP)09 06.00 -10.3X
SLR   111.91 239 ePKP  09 18.10   1.2
       0.8s    13.00nm
BUL   113.27 245 iPKPd 09 21.00   1.3
       0.8s     8.58nm
WMOK  114.03  55 PKP   09 30.00   9.4X
     Z  19s      2.57um          5.8Msz
SUR   115.48 230 iPKPd 09 30.50   6.8X
       0.8s    46.00nm
TUL   116.21  53 iPKP  09 26.50   1.8
UYO   117.65  55 iPKPd 09 26.60  -0.9
KSP   118.94 326 ePKP  09 32.30   2.9X
                  e     10 45.00
SKO   119.39 315 ePKP  09 30.00  -0.6
                  i     10 46.00
ZST   119.72 323 e(PKP)09 33.70   2.7X
                  e     11 04.60
SLM   119.80  49 PKP   09 40.00   8.6X
     Z  20s      1.86um          5.7Msz
FVM   119.85  49 PKP   09 40.00   8.4X
     Z  18s      2.96um          6.0Msz
OHR   120.13 314 ePKP  09 31.00  -1.1
BRG   120.21 327 ePKP  09 33.20   1.4
                  e     11 04.80
PRU   120.33 326 PKP   09 34.50   2.4
```

13d 06h

```
     Z  20s      2.00um          5.8Msz
     N  15s      0.80um
     E  17s      1.20um
                  e     11 05.50
CLL   120.48 328 ePKP  09 34.00    1.7
     Z  23s      2.50um          5.8MszX
                  e     09 57.00
KHC   121.31 325 PKP   09 36.50    2.5
      1.0s       5.40nm
     Z  18s      2.40um          5.9Msz
     N  18s      1.40um
     E  18s      0.10um
                  e     09 49.00
                  e     11 06.00
GEC2  121.39 325 PKP   09 34.00   -0.3
      0.6s       2.70nm
GRF   122.31 327 ePKP  09 39.10    3.2X
     Z  22s      3.00um          5.9Msz
KBA   122.48 323 iPKPc 09 38.50    2.0
                  i     09 41.50
WIN   122.57 239 ePKP  09 40.00    2.6
      1.0s      50.00nm
WTTA  123.39 324 iPKPd 09 37.90   -0.4
                  i     09 40.10
MYNC  125.58  51 PKP   09 50.00    7.2X
     Z  19s      2.18um          5.8Msz
YSNY  126.44  40 PKP   09 50.00    5.8X
     Z  19s      2.75um          6.0Msz
GAC   126.58  35 ePKP  09 46.00    1.8
BHB   127.26 324 PKP   09 59.30   13.6X
PZZ   127.55 324 PKP   09 58.27   11.9X
BCAO  127.74 271 iPKPd 09 48.20    0.7
      0.8s      35.00nm
                  i     10 02.90
                  i     11 50.00
RFA   127.99 144 ePKPc 09 38.00   -9.4X
BINY  128.20  39 PKP   10 00.00   12.5X
     Z  20s      4.89um          6.2Msz
CEH   129.07  48 PKP   10 00.00   10.7X
     Z  20s      2.43um          5.9Msz
LBNH  129.48  35 PKP   10 00.00   10.1X
     Z  19s      3.81um          6.1Msz
CBM   129.76  30 PKP   10 00.00    9.7X
     Z  21s      3.04um          6.0Msz
LSCT  130.21  38 PKP   10 00.00    8.7X
     Z  20s      3.15um          6.0Msz
MRA   131.28 144 ePKPc 09 53.60    0.0
LPA   133.43 153 ePKP+ 09 52.00   -5.6X
     Z  20s      1.42um          5.7Msz
                  ePKS  13 29.00
NNA   133.74 113 ePKP  10 00.50    1.7
      0.8s      11.19nm
ARE   136.66 122 ePKP  10 03.00   -1.7
YJA   138.29 133 e(PKP)09 57.00  -10.8X
CNCB  139.41 124 PKP   10 05.00   -5.1X
LPB   139.46 124 PKP   10 03.00   -7.0X
LPAZ  139.56 124 PKP   10 02.10   -8.3X
CCH   140.60 127 PKP   10 07.80   -4.1X
SDV   143.51  83 ePKP  10 13.50   -3.4X
TOV   144.30  82 ePKPc 10 14.50   -3.6X
                  iPP   10 16.60
RSTA  146.16 155 ePKP  10 21.60    0.7
                  e     10 27.50
OLLA  147.22  81 ePKPc 10 25.70    2.7X
PPD   147.34 149 ePKP  10 24.20    1.3
                  e     10 32.00
VAO2  148.44 157 ePKP  10 28.60    3.9X
VAO   148.48 157 ePKP  10 26.30    1.6
                  e     10 29.40
CACB  149.76 156 ePKP  10 32.10    5.3X
KIC   150.97 272 PKP   10 28.60   -0.1
      0.9s     147.00nm
TIC   151.25 273 PKP   10 29.12    0.0
      0.9s     162.50nm
LIC   151.25 272 PKP   10 29.10    0.0
      0.9s     161.00nm
CDCB  151.84 158 ePKP  10 31.00    1.1
                  e     10 36.50
BAO   154.38 147 PKPc  10 34.60    1.0
                  i     10 42.90
                  i     10 45.20
                  i     11 02.00
SOB1  163.37 155 ePKP  10 43.30   -0.5
     S.D. = 1.2  on 208 of 263 obs.
-----------------------------------
?  OCT  13, 1993  06h 09m 37.30± 3.37s
   44.081 N ±16.1km    8.532 E ±19.2km
   DEPTH =   5.0km  (geophysicist)
 NORTHERN ITALY                    (545)
      ML 2.2 (GEN).

FIN     0.27 299 P     09 43.03    0.3
                 S     09 46.28
PCP     0.46   1 P     09 46.53    0.0
                 S     09 52.59
IMI     0.49 250 P     09 47.24    0.0
                 S     09 53.69
ROB     0.52 294 P     09 47.42   -0.3
                 S     09 53.92
     S.D. = 0.5  on   4 of   4 obs.
-----------------------------------
*  OCT  13, 1993  06h 33m 37.90± 0.72s
   5.955 S ± 9.6km  146.461 E ±15.3km
   DEPTH =  33.0km  (normal)
   4.7mb (  6 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.9 (PMG).

MDG     0.97 316 eP    33 54.50   -0.7
MNDI    2.79 266 iPd   34 26.30    4.8X
PMG     3.50 169 eP    34 31.50    0.2
WWKK    3.66 309 eP    34 39.20    5.6X
CTA    14.05 181 iPc   36 58.00    1.1
WR2    18.21 219 eP    37 47.70   -2.3
       0.8s    12.40nm          4.1mb
                 eS    40 39.30
ASPA   21.36 213 iPd   38 26.60    1.9
       0.4s    15.20nm          4.8mb
                 eS    42 22.00
BRS    22.15 165 iPc   38 32.00   -0.6
ARMA   24.82 169 eP    38 59.50    0.8
DZM    25.09 132 iPc   39 00.50   -0.9
STK    26.19 189 eP    39 11.40    0.0
       0.6s     2.50nm          4.0mb
BWA    28.39 177 eP    39 30.60   -0.8
LZH    57.83 320 eP    43 31.00    2.1
       1.8s    30.00nm          5.0mb
CSY    65.17 195 iPc   44 16.50   -1.2
       0.5s     5.20nm          4.9mb
FBA    85.35  23 eP    46 11.00   -1.7
       1.0s    10.50nm          5.0mb
CNCB  139.12 124 PKP   53 01.00   -3.9X
LPB   139.16 124 PKP   53 05.00    0.2
LPAZ  139.26 123 PKP   53 05.10   -0.1
PPD   147.19 148 (PKP) 53 20.00    2.1
KIC   151.37 272 PKP   53 30.29    5.7X
       0.3s     4.00nm
TIC   151.65 273 PKP   53 30.75    5.7X
       0.4s     3.00nm
LIC   151.65 272 PKP   53 30.85    5.8X
       0.3s     3.00nm
     S.D. = 1.4  on  16 of  22 obs.
-----------------------------------
   OCT  13, 1993  06h 55m 33.73± 0.90s
   45.035 S ± 9.3km  166.671 E ± 7.5km
   DEPTH =  24.1 ±  5.4 km
   4.7mb (  1 obs.)
 OFF W. COAST OF S. ISLAND, N.Z. (161)
      ML 4.4 (WEL).

MSZ     0.96  68 P     55 51.60    0.0
                 S     56 06.80
TLC     1.71  96 P     56 02.80    0.3
CMCZ    1.85  94 P     56 05.20    0.7
MHZ     1.85  92 P     56 04.90    0.4
SBCZ    1.87  93 P     56 05.80    1.0
LRCZ    1.90  92 P     56 06.20    1.0
LSCZ    1.91  93 P     56 06.00    0.6
MSCZ    1.94  93 P     56 06.10    0.3
SIZ     2.10 152 eP    56 06.60   -1.4
TUZ     2.28 115 P     56 09.40   -1.1
LMZ     2.28  56 eP    56 10.90    0.4
BWZ     2.34  79 P     56 12.20    0.8
ODZ     2.82  92 P     56 17.70   -0.5
WVZ     3.52  58 eP    56 27.30   -0.9
MQZ     4.49  75 eP    56 41.10   -0.8
THZ     5.59  56 eP    56 57.60    0.0
QRZ     6.01  48 eP    57 01.50   -1.9
TOO    17.54 288 eP    59 39.00    0.8
ASPA   34.09 298 eP    02 23.30    4.8X
       0.8s     7.20nm          4.7mb
     S.D. = 1.0  on  18 of  19 obs.
-----------------------------------
?  OCT  13, 1993  07h 08m 36.00± 0.71s
   8.438 S ±15.2km  106.817 E ±18.2km
   DEPTH =  33.0km  (normal)
   5.1mb (  1 obs.)
 SOUTH OF JAWA, INDONESIA          (282)

LEM     1.79  26 iPd   09 06.00    0.8
                 iS    09 22.00
CHTO   28.17 344 eP    14 25.50   -2.1
GBA    36.47 307 P     15 43.00    2.9X
STK    39.83 131 eP    16 07.20   -0.9
       5.8s     3.60nm          3.3mb X
CTA    39.83 111 eP    16 07.00   -1.3
POO    42.14 310 eP    16 33.00    5.7X
NDI    46.67 323 eP    17 02.50   -1.0
BRS    47.30 120 iPc   17 09.00    0.4
BCAO   88.95 275 iPd   21 31.10    1.7
       0.9s     9.00nm          5.1mb
RSSD  135.46  32 (PKP) 27 50.70   -4.2X
PV10  136.08  42 ePKP  27 58.40    2.0
ALQ   139.70  44 (PKP) 28 14.50   11.4X
LTX   144.64  50 (PKP) 28 13.62    1.9
WMOK  144.83  38 ePKPc 28 10.30   -1.5
                 e     28 25.80
BAO   145.43 226 ePKP  28 12.00   -1.4
                 e     28 29.80
TUL   145.74  34 iPKP  28 13.50    0.2
YSNY  145.77   7 ePKP  28 13.20    0.0
                 e     28 27.41
FVM   146.72  25 ePKP  28 15.91    1.1
                 e     28 29.53
UYO   147.77  34 iPKPd 28 19.40    2.8X
ELC   147.81  24 ePKP  28 19.36    2.8X
                 e     28 34.24
CVL   150.20   8 (PKP) 28 24.73    4.5X
NAV   150.43  12 (PKP) 28 25.76    5.1X
MYNC  151.65  19 ePKP  28 29.03    6.5X
                 e     28 43.61
CEH   152.15  10 ePKP  28 28.98    5.8X
                 e     28 44.86
CNCB  154.39 192 PKP   28 41.00   13.5X
LPB   154.69 191 ePKP  28 36.00    8.3X
     S.D. = 1.5  on  14 of  26 obs.
-----------------------------------
?  OCT  13, 1993  07h 33m 47.78± 1.49s
   18.955 S ±18.8km  169.370 E ±21.7km
   DEPTH = 235.8 ±  9.0 km
   4.0mb (  2 obs.)
 VANUATU ISLANDS                   (186)

BKM     1.67 320 iPd   34 26.40    0.0
                 iS    34 55.00
DZM     4.14 221 iPc   34 53.10   -0.1
                 iS    35 45.40
BRS    17.40 238 iP    37 38.00    0.6
CTA    21.82 263 iP    38 23.50    1.7
WR2    32.99 262 eP    40 01.10   -1.6
       0.4s     5.70nm          4.6mb
WRA    33.01 262 P     40 03.20    0.3
       0.8s     1.10nm          3.5mb
ASPA   33.32 256 iPd   40 04.50   -1.1
       0.4s    45.80nm          5.5mb X
GEC2  144.30 332 PKP   52 56.60   -0.6
       0.8s     3.35nm
SKO   144.41 317 e(PKP)52 57.70    0.3
GRF   144.69 335 ePKP  52 58.30    0.6
OHR   145.26 316 e(PKP)52 59.00    0.0
BCAO  148.08 247 iPKPd 53 08.50    4.2X
       0.9s    14.00nm
     S.D. = 1.1  on  11 of  12 obs.
-----------------------------------
?  OCT  13, 1993  07h 34m 52.92± 3.15s
   30.830 S ±28.8km   69.767 W ±49.5km
   DEPTH = 130.0km  (geophysicist)
 CHILE-ARGENTINA BORDER REGION     (127)

RTRS    0.71  22 iPc   35 13.60    0.0
                 S     35 31.90
RTLL    1.22 114 iPd   35 18.00   -0.4
                 S     35 39.00
RTCV    1.47 135 iPc   35 21.00   -0.1
                 S     35 44.00
CFA     1.52 121 ePc   35 22.10    0.4
                 S     35 46.00
MRA     3.80 116 e(P)c 35 50.80    0.0
     S.D. = 0.4  on   5 of   5 obs.
-----------------------------------
?  OCT  13, 1993  07h 43m 39.24± 2.36s
```

```
   36.964 N ±24.0km   28.748 E ±15.9km
   DEPTH =  10.0km  (geophysicist)
 DODECANESE ISLANDS                (369)
      ML 3.3 (ISK).

CIN      0.83 321 ePg    44 00.00    4.8X
                  iSg    44 17.00
ELL      0.96 103 ePn    43 57.00   -0.5
                  eSg    44 12.50
KHL      1.49  24 ePn    44 05.50   -0.6
BCK      1.55  71 ePn    44 08.00    1.0
IZM      1.85 321 ePn    44 11.50    0.1
     S.D. = 1.3  on   4 of   5 obs.
-------------------------------------
*  OCT  13, 1993  08h 18m 05.24± 0.85s
    5.937 S ± 8.6km  146.089 E ±19.8km
   DEPTH =  33.0km  (normal)
   4.2mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.6 (PMG).

MDG      0.75 336 ePc    18 18.80   -0.5
MNDI     2.43 265 eP     18 50.00    6.3X
WWKK     3.36 313 eP     19 03.50    6.7X
PMG      3.61 163 ePc    18 59.00   -1.2
CTA     14.07 179 iP     21 25.00    0.6
WR2     18.00 218 iPd    22 14.70    0.0
         0.7s      8.60nm          4.0mb
                  eS     25 36.00
ASPA    21.17 212 iPd    22 54.20    4.0X
         0.9s     18.80nm         4.5mb
ARMA    24.91 169 eP     23 27.30    0.4
FBA     85.48  23 eP     30 41.34    0.6
CNCB   139.43 124 ePKP   37 35.00    2.2X
LPB    139.48 124 ePKP   37 36.00    3.3X
LPAZ   139.58 124 ePKP   37 36.00    2.9X
KIC    151.00 272 PKP    37 58.85    7.5X
         0.9s     13.00nm
TIC    151.28 273 PKP    37 59.44    7.6X
         0.7s      6.00nm
LIC    151.28 272 PKP    37 59.53    7.7X
         0.6s      6.50nm
     S.D. = 0.9  on   6 of  15 obs.
-------------------------------------
%  OCT  13, 1993  08h 46m 54.59± 3.25s
   45.005 S ± 9.5km  166.168 E ±26.8km
   DEPTH =  33.0km  (normal)
 OFF W. COAST OF S. ISLAND, N.Z. (161)
      ML 4.2 (WEL).

MSZ      1.30  76 P      47 16.70    0.2
                  eS     47 31.90
TLC      2.06  96 P      47 28.00    0.2
CMCZ     2.21  95 P      47 30.20    0.5
MHZ      2.21  93 P      47 30.00    0.3
SBCZ     2.23  93 P      47 30.80    0.8
LRCZ     2.25  93 P      47 30.10   -0.3
LSCZ     2.27  94 P      47 30.30   -0.3
MSCZ     2.30  93 P      47 31.50    0.5
SIZ      2.32 144 eP     47 31.60    0.4
TUZ      2.62 113 P      47 34.00   -1.4
BWZ      2.69  81 eP     47 37.20    0.8
ODZ      3.17  92 P      47 42.60   -0.7
MQZ      4.83  77 eP     48 05.80   -1.0
LTZ      4.94  65 eP     48 08.80    0.4
QRZ      6.26  50 eP     48 26.70   -0.4
     S.D. = 0.7  on  15 of  15 obs.
-------------------------------------
   OCT  13, 1993  09h 21m 41.40± 0.88s
   40.455 N ± 8.2km   21.869 E ± 8.0km
   DEPTH =  10.0km  (geophysicist)
 GREECE                            (364)
      ML 3.0 (THE).

FNA      0.50 311 iPg    21 51.30   -0.2
LIT      0.59 126 iPg    21 52.10   -1.3
                  eSg    22 02.18
GRG      0.64  39 iPg    21 53.70   -0.6
                  iSg    22 06.05
OHR      1.04 309 iP     22 01.00   -0.1
KNT      1.05  48 ePg    22 02.50    1.2
AGG      1.47 166 ePb    22 09.10    1.1
     S.D. = 1.3  on   6 of   6 obs.
-------------------------------------
%  OCT  13, 1993  09h 28m 46.20± 0.83s
   39.649 N ± 9.2km   29.515 E ±10.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.7 (ISK).

ALT      0.75 142 ePg    29 01.00    0.0
                  eSg    29 12.00
HRT      1.18   6 iPn    29 08.00   -0.2
BNT      1.41 300 ePn    29 11.20   -0.8
EDC      1.45 299 ePn    29 12.30   -0.1
CTT      1.71 331 ePn    29 16.70    0.5
KGT      1.88 296 ePn    29 19.20    0.6
     S.D. = 0.6  on   6 of   6 obs.
-------------------------------------
%  OCT  13, 1993  09h 41m 53.61± 0.50s
   40.581 N ± 4.3km   22.359 E ± 4.0km
   DEPTH =   5.0km  (geophysicist)
 GREECE                            (364)
      ML 2.7 (THE).

GRG      0.38   5 iPg    42 01.46    0.3
                  eSg    42 07.96
THE      0.46  83 ePg    42 02.89    0.0
                  eSg    42 08.64
LIT      0.49 168 ePg    42 03.40    0.0
                  iSg    42 09.96
KNT      0.71  35 ePg    42 07.78    0.0
FNA      0.77 285 ePg    42 08.24   -0.9
SOH      0.79  72 ePg    42 09.16   -0.4
                  eSg    42 22.12
SRS      1.08  60 ePg    42 14.72    0.4
                  eSg    42 31.16
OUR      1.26 101 ePb    42 17.16   -0.3
OHR      1.30 295 ePn    42 18.70    0.6
AGG      1.56 181 ePb    42 22.56    0.5
                  eSb    42 45.68
     S.D. = 0.5  on  10 of  10 obs.
-------------------------------------
?  OCT  13, 1993  09h 42m 52.16± 1.68s
   39.111 N ±14.5km   27.633 E ±51.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.7 (ISK).

IZM      0.77 202 ePg    43 07.20    0.0
                  eSg    43 19.20
EDC      1.25   8 ePn    43 15.80    0.5
BNT      1.26  10 ePn    43 15.20   -0.4
KGT      1.36 349 iPn    43 17.10   -0.1
     S.D. = 0.6  on   4 of   4 obs.
-------------------------------------
*  OCT  13, 1993  09h 44m 11.99± 1.05s
   40.467 N ± 9.8km   21.771 E ± 9.4km
   DEPTH =  10.0km  (geophysicist)
 GREECE                            (364)
      ML 3.1 (THE).

FNA      0.44 317 iPg    44 21.82    0.9
LIT      0.66 123 ePg    44 23.66   -1.5
                  eSg    44 36.02
GRG      0.68  44 ePg    44 24.94   -0.6
                  eSg    44 38.74
OHR      0.98 311 ePn    44 29.20   -1.4
KNT      1.10  51 ePg    44 34.02    1.3
                  iSg    44 50.94
AGG      1.51 163 iPb    44 40.38    1.3
     S.D. = 1.7  on   6 of   6 obs.
-------------------------------------
&  OCT  13, 1993  09h 54m 01.30s
   34.839 N          120.970 W
   DEPTH =   0.1km
 SOUTHERN CALIFORNIA               ( 43)
      <GM-P>. MD 3.8 (GM). ML 3.5
      (PAS), 3.5 (BRK).

BCH      0.80  64 iPd    54 17.27   -0.1
PKEM     1.41  30 eP     54 27.30   -0.8
ABL      1.44  89 ePc    54 26.74   -2.0
SAO      1.96 349 ePc    54 33.67   -2.5
ISA      2.20  67 ePc    54 37.83   -1.9
COE      2.48 347 eP     54 41.17   -2.5
ARN      2.55 350 eP     54 41.98   -2.6
MHC      2.56 348 eP     54 42.43   -2.4
SSK      2.78 102 eP     54 45.45   -2.6
MTUM     3.18  37 eP     54 52.92   -0.8
MMPM     3.18  29 eP     54 52.27   -1.6
                  eS     55 31.20
CMB      3.22   8 ePc    54 52.51   -1.7
                  eS     55 30.80
HMR      3.38 349 eP     54 55.09   -1.2
GSC      3.45  81 ePn    54 54.51   -3.0
MRCM     3.46  34 eP     54 57.01   -0.7
PLM      3.72 112 eP     54 57.46   -3.9
BONR     3.78  34 eP     55 01.16   -1.3
TPNV     4.37  60 eP     55 08.69   -2.0
TNP      4.43  42 (Pn)   55 10.65   -0.9
ORV      4.73 355 eP     55 13.82   -1.7
GLA      5.41 108 eP     55 21.70   -3.6
ARUT     6.75  62 ePg    56 08.34   24.0
     22 obs. associated
-------------------------------------
%  OCT  13, 1993  10h 12m 24.94± 1.02s
   39.260 N ± 6.9km   27.543 E ±13.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.7 (ISK).

IZM      0.89 194 ePg    12 42.10    0.1
                  eSg    12 56.00
EZN      1.10 301 ePn    12 45.00   -0.5
EDC      1.11  13 ePn    12 45.30   -0.5
BNT      1.13  15 ePn    12 45.60   -0.5
KGT      1.20 351 iPn    12 48.10    0.7
MFT      1.54 353 ePn    12 53.30    0.8
     S.D. = 0.8  on   6 of   6 obs.
-------------------------------------
   OCT  13, 1993  10h 31m 58.37± 0.45s
    5.945 S ± 5.5km  146.129 E ±12.3km
   DEPTH =  31.0km  (  2 depth phases)
   4.8mb ( 11 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.8 (PMG).

MDG      0.77 333 iPc    32 12.40   -0.6
MNDI     2.47 265 eP     32 43.00    5.5X
WWKK     3.40 313 eP     32 55.60    5.0X
PMG      3.59 164 iPc    32 51.80   -1.4
KVG      5.74  55 eP     33 29.50    5.8X
CTA     14.06 180 iPc    35 17.20   -0.5
                  i      35 24.00
                  e      36 13.00
WR2     18.01 218 eP     36 06.40   -1.8
         0.6s     16.50nm         4.3mb
                  eS     39 33.40
GUA     19.39 356 eP     36 26.70    1.7
GUMO    19.45 356 eP     36 27.10    1.6
PJG     19.45 356 eP     36 27.20    1.7
ASPA    21.19 212 iPc    36 45.70    2.0
         1.0s     28.50nm         4.6mb
       Z  19s      0.20um          3.5Msz
                  eS     40 49.00
BRS     22.25 164 eP     36 53.00   -1.3
ARMA    24.89 169 eP     37 20.70    0.6
STK     26.15 189 eP     37 33.60    1.9
         1.9s      3.00nm         3.6mb X
BWA     28.42 176 eP     37 53.90    1.5
CAN     29.35 175 eP     38 01.40    0.6
IPM     46.23 282 ePd    40 23.60    0.6
NST     50.35 296 eP     40 55.00    0.1
CHTO    52.60 299 eP     41 11.80   -0.1
CN2     52.93 341 eP     41 20.00    6.1X
XAN     53.09 321 P      41 13.50   -1.9
         1.0s     11.00nm         4.8mb
BJI     53.44 331 eP     41 16.00   -1.7
CD2     54.62 315 eP     41 26.20   -0.4
HHC     56.33 329 eP     41 38.60   -0.4
         1.0s     11.00nm         4.8mb
LZH     57.61 320 eP     41 47.50   -0.6
         1.5s     37.00nm         5.2mb
                  pP     41 57.50   33km
GTA     62.15 321 eP     42 18.50   -0.8
         1.5s     13.00nm         4.8mb
                  pP     42 27.50   29km
LSA     63.52 307 Pd     42 29.20    0.3
         0.8s      9.00nm         4.9mb
GBA     70.89 287 Pd     43 15.10    0.1
         0.8s      4.00nm         4.6mb
WMQ     72.19 320 P      43 22.00   -0.4
POO     75.24 291 iPc    43 42.00    1.4
         0.8s     17.91nm         5.1mb
IMA     83.81  21 eP     44 25.39   -0.6
         1.2s      7.95nm         4.8mb
FBA     85.47  23 eP     44 32.70   -1.4
         0.9s      9.58nm         5.0mb
BALM    86.36  28 (P)    44 38.20   -0.5
BCAO   127.80 271 iPKPc  51 04.00    0.3
```

13d 10h

```
        0.7s      9.00nm
CNCB  139.40 124 PKP   51 21.00   -5.1X
LPB   139.44 124 (PKP) 51 18.00   -8.0X
LPAZ  139.54 124 PKP   51 20.90   -5.6X
PPD   147.37 149 (PKP) 51 45.00    6.0X
KIC   151.04 272 PKP   51 50.81    5.9X
        0.6s     17.00nm
TIC   151.32 273 PKP   51 51.37    6.1X
        0.4s     12.50nm
LIC   151.32 272 PKPc  51 51.35    6.1X
        0.6s     30.50nm
      S.D. = 1.2  on  30 of  41 obs.
-------------------------------------
?  OCT  13, 1993  10h 40m 31.79± 1.17s
    6.168 S ±16.0km  146.565 E ±13.9km
   DEPTH =  33.0km  (normal)
   4.2mb (  5 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

MNDI    2.89 270 eP    41 17.00    0.2
CTA    13.84 181 iPc   43 55.00    7.0X
WR2    18.12 220 eP    44 42.30   -0.4
        0.6s      9.00nm         4.1mb
                   i   44 48.70
ASPA   21.24 214 eP    45 21.70    4.3X
        0.6s      9.10nm         4.4mb
                  ipP  45 28.80   26kmX
BRS    21.92 165 iPc   45 24.50    0.3
                   i   45 28.50
ARMA   24.59 169 eP    45 55.20    4.8X
        0.5s      3.00nm         4.1mb
STK    26.00 190 eP    46 06.60    3.1X
        1.3s      2.10nm         3.6mb
FBA    85.50  23 ePc   53 07.23   -0.2
        0.6s      2.82nm         4.7mb
CNCB  138.91 124 ePKP  00 04.00    5.6X
LPB   138.96 124 (PKP) 00 06.00    7.7X
KIC   151.48 272 PKP   00 25.65    7.0X
        0.7s     11.00nm
LIC   151.76 272 PKP   00 26.69    7.6X
        0.5s      7.50nm
TIC   151.76 273 PKP   00 26.19    7.1X
        0.6s      8.50nm
      S.D. = 0.6  on   4 of  13 obs.
-------------------------------------
*  OCT  13, 1993  10h 50m 32.99± 0.52s
    5.926 S ± 7.6km  146.153 E ±11.1km
   DEPTH =  33.0km  (normal)
   4.5mb (  7 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.7 (PMG).

MDG     0.77 331 eP    50 45.00   -2.3
MNDI    2.49 265 eP    51 16.00    3.7X
WWKK    3.40 312 eP    51 31.60    6.5X
PMG     3.60 164 eP    51 26.50   -1.3
KVG     5.71  55 eP    51 57.00   -0.7
WR2    18.04 218 iPd   54 41.90   -1.1
        0.8s     30.40nm         4.5mb
ASPA   21.22 213 iPc   55 19.50    1.1
        1.0s     28.00nm         4.6mb
     Z  21s      0.30um         3.7Msz
STK    26.17 189 eP    56 06.60    0.3
        2.6s      1.70nm         3.2mb X
CHTO   52.61 299 eP    59 47.20    0.8
CSY    65.12 195 iPd   01 11.80   -0.6
        2.8s      3.60nm         4.0mb
GBA    70.91 287 P     01 50.10    0.7
        1.0s      3.00nm         4.3mb
PMR    83.51  26 (P)   02 59.20    0.6
        0.9s      5.83nm         4.7mb
IMA    83.79  21 eP    02 59.88   -0.3
        1.0s      2.51nm         4.3mb
KLU    84.87  27 eP    03 06.62    1.0
FBA    85.44  23 (P)   03 09.19    0.9
        0.8s      4.48nm         4.7mb
BCAO  127.83 271 ePKPd 09 39.00    1.0
        0.5s      3.00nm
KIC   151.06 272 PKP   10 26.22    7.0X
        0.8s     13.00nm
TIC   151.34 273 PKP   10 26.60    7.0X
        0.9s     20.50nm
LIC   151.34 272 PKP   10 26.88    7.3X
        0.8s     18.50nm
      S.D. = 1.2  on  14 of  19 obs.
-------------------------------------
?  OCT  13, 1993  10h 58m 24.44± 2.87s
    41.215 N ±32.5km   28.698 E ± 6.5km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      ML 2.7 (ISK).

CTT     0.21 252 iPg   58 29.10    0.0
ISK     0.31 119 iPg   58 31.10    0.2
                 iSg   58 35.60
BNT     1.04 215 ePn   58 44.10    0.0
EYL     1.28 120 ePn   58 48.10   -0.2
      S.D. = 0.3  on   4 of   4 obs.
-------------------------------------
?  OCT  13, 1993  11h 05m 42.10± 2.20s
    6.017 S ±19.3km  146.223 E ±25.1km
   DEPTH =  33.0km  (normal)
   4.0mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.3 (PMG).

MDG     0.88 330 eP    05 50.00   -8.1X
MNDI    2.55 267 eP    06 23.00    0.7
PMG     3.49 165 eP    06 36.00    0.6
WWKK    3.52 312 eP    06 35.70   -0.1
WR2    18.02 219 eP    09 47.10   -4.7X
        0.7s      5.80nm         3.8mb
ASPA   21.18 213 eP    10 26.00   -1.1
        1.1s     11.50nm         4.2mb
      S.D. = 1.4  on   4 of   6 obs.
-------------------------------------
*  OCT  13, 1993  11h 26m 01.92± 0.91s
    5.801 S ±11.1km  146.320 E ±11.4km
   DEPTH =  33.0km  (normal)
   4.4mb (  6 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.5 (PMG).

MDG     0.77 315 iPc   26 15.60   -0.7
MNDI    2.67 262 eP    26 46.00    2.2
WWKK    3.45 309 eP    26 59.90    5.2X
PMG     3.68 167 eP    26 59.00    1.2
HNR    13.98 106 eP    29 18.00   -1.9
CTA    14.20 180 iPc   29 25.00    2.1
                 i     29 38.00
QIS    16.05 203 eP    29 46.00   -0.9
WR2    18.25 218 iPc   30 12.00   -2.4
        0.7s     18.60nm         4.3mb
                 eS    33 04.10
ASPA   21.41 213 eP    30 47.00   -2.3
        0.8s     14.30nm         4.4mb
     Z  19s      0.40um         3.8Msz
BRS    22.33 165 iPc   30 52.00   -6.5X
                 i     30 58.50
BKM    24.45 121 iPc   31 25.00    5.8X
ARMA   24.99 169 iPd   31 25.20    0.8
        0.5s      6.00nm         4.4mb
DZM    25.30 132 iPd   31 29.00    1.7
STK    26.32 189 iPd   31 35.90   -0.7
        0.4s      2.60nm         4.2mb
CHTO   52.70 299 eP    35 16.70    0.8
CSY    65.28 195 iPd   36 42.20   -0.2
        0.7s      8.30nm         4.9mb
FBA    85.26  23 eP    38 36.72    0.4
        0.5s      1.81nm         4.5mb
KIC   151.22 273 PKP   45 56.04    7.7X
        0.8s     16.50nm
TIC   151.50 273 PKP   45 56.32    7.5X
        0.8s     14.00nm
LIC   151.50 272 PKP   45 56.34    7.5X
        0.6s     15.00nm
      S.D. = 1.7  on  14 of  20 obs.
-------------------------------------
*  OCT  13, 1993  11h 53m 26.47± 1.23s
    6.209 S ±14.3km  146.115 E ±17.2km
   DEPTH =  33.0km  (normal)
   4.0mb (  1 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.1 (PMG).

MNDI    2.44 271 eP    54 05.00   -0.1
PMG     3.34 162 eP    54 12.00   -5.6X
WWKK    3.57 316 eP    54 21.10    0.1
ASPA   20.96 213 eP    58 09.40    0.1
        0.9s      5.64nm         4.0mb
LIC   151.31 272 PKP   13 13.00   -0.1
TIC   151.31 272 PKP   13 13.00   -0.1
      S.D. = 0.2  on   5 of   6 obs.
-------------------------------------
   OCT  13, 1993  11h 59m 31.60± 0.76s
   24.147 N ± 8.4km  108.782 W ± 8.4km
   DEPTH =  10.0km  (geophysicist)
   4.3mb ( 11 obs.)
 GULF OF CALIFORNIA                  ( 49)

LTX     6.90  40 eP    01 12.50   -2.8
TUC     8.32 348 eP    01 31.90   -3.3X
GLA    10.34 330 eP    02 02.18   -0.8
ALQ    10.95  10 eP    02 11.96    0.5
GSC    13.11 330 eP    02 39.59   -1.0
WMOK   13.68  37 (P)   02 47.30   -0.7
        0.8s      7.22nm         4.6mb
ARUT   14.17 345 eP    02 55.39    0.8
PV10   14.19 359 eP    02 54.17   -0.8
TPNV   14.28 335 eP    02 56.90    0.8
        1.0s     11.33nm         4.5mb
PV09   14.31 359 eP    02 56.87    0.3
PV08   14.39   0 eP    02 57.96    0.3
MSU    14.61 349 eP    03 01.25    0.8
SRU    14.99 355 eP    03 06.11    0.7
EMUT   15.71 354 eP    03 16.23    1.4
GLD    15.85  10 (P)   03 18.16    1.7
        1.2s     44.98nm         4.5mb
BONR   15.98 332 (P)   03 19.00    0.6
UYO    15.99  48 iPc   03 27.50    9.3X
DAU    16.35 353 eP    03 23.90    0.8
DUG    16.36 349 ePd   03 23.95    1.0
        1.2s     19.06nm         4.1mb
ARN    17.10 323 (P)   03 33.04    0.7
MHC    17.16 323 ePc   03 38.64    5.6X
        1.7s     30.00nm         4.2mb
BKS    17.87 323 eP    03 43.09    1.3
HVU    17.90 350 eP    03 43.16    0.8
ORV    18.75 328 ePc   03 52.31   -0.4
        1.7s     20.00nm         4.0mb
PTI    18.91 352 eP    03 54.41   -0.4
MIN    19.42 329 iPc   04 00.05   -1.0
        1.5s     10.00nm         3.9mb
WDC    20.05 328 ePc   04 05.00   -2.6
RSSD   20.30  10 eP    04 09.63   -0.9
        1.1s     13.16nm         4.2mb
LBFM   20.35 331 eP    04 09.97   -1.1
YBH    21.03 330 ePc   04 14.66   -3.2X
LRM    21.83 353 eP    04 25.70   -0.5
MYNC   23.98  57 eP    04 48.08    0.9
        1.1s     18.84nm         4.6mb
LON    24.86 338 eP    04 55.81    0.2
NEW    24.96 347 eP    04 55.63   -0.9
        0.9s     13.16nm         4.6mb
LHS    26.40  61 eP    05 10.81    0.8
YKA    38.53 356 eP    06 54.00   -1.7
        0.9s      3.20nm         4.0mb
LPAZ   56.48 131 (P)   09 16.00   -1.1
LPB    56.67 132 eP    09 20.00    1.8
CNCB   56.95 132 P     09 20.80    0.4
APO    83.71  25 eP    12 15.70   14.0X
        0.2s      1.00nm
      S.D. = 1.2  on  35 of  40 obs.
-------------------------------------
?  OCT  13, 1993  12h 08m 11.59± 1.13s
    6.042 S ±12.0km  146.378 E ±14.8km
   DEPTH =  33.0km  (normal)
   3.8mb (  1 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.0 (PMG).

MDG     0.99 323 eP    08 22.00   -7.1X
MNDI    2.71 267 eP    08 53.00   -0.9
PMG     3.43 167 eP    09 04.00   -0.1
WWKK    3.65 311 eP    09 07.90    0.8
WR2    18.09 219 eP    12 18.00   -4.2X
        0.8s      2.10nm         3.3mb X
ASPA   21.24 213 iPc   12 58.00    0.8
        1.4s      5.40nm         3.8mb
FBA    85.46  23 (P)   20 46.50   -0.5
      S.D. = 1.1  on   5 of   7 obs.
-------------------------------------
?  OCT  13, 1993  12h 30m 42.18± 4.05s
   30.653 S ±11.9km   71.701 W ±38.1km
   DEPTH =  33.0km  (normal)
 NEAR COAST OF CENTRAL CHILE         (135)

RTLL    2.86 104 ePd   31 27.20    0.7
                (S)    32 00.00
CFA     3.12 109 ePc   31 31.30    1.1
                 S     32 04.40
```

```
RTPR     4.49  87 eP    31 48.00  -1.7
RFA      4.93 147 iPc   31 55.50  -0.4
MRA      5.41 110 e(P)c 31 58.90  -3.7X
FSA      6.77  49 ePc   32 21.20  -0.6
SLA      8.07  44 e(P)  32 41.00   0.9
     S.D. = 1.4  on   6 of   7 obs.
-------------------------------------
%  OCT  13, 1993  13h 02m 12.51± 0.82s
   31.662 S ±10.5km   67.269 W ±10.3km
   DEPTH = 100.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA     (137)

CFA      0.83 274 iPd   02 31.90   0.4
                  S     02 45.00
RTLL     1.08 288 iPc   02 34.00  -0.1
ZON      1.21 275 eP    02 36.60   0.9
RTPR     1.50  26 eP    02 40.00   0.9
MRA      1.52 120 iPd   02 40.50   1.1
RFA      3.26 198 eP    03 01.20  -1.4
CYA      3.45  22 eP    03 03.50  -1.7
                  S     03 43.50
     S.D. = 1.4  on   7 of   7 obs.
-------------------------------------
   OCT  13, 1993  13h 04m 00.28± 0.33s
   51.665 N ± 7.2km  169.130 W ± 4.2km
   DEPTH =  33.0km  (normal)
   4.8mb ( 31 obs.)  4.5Msz (  2 obs.)
 FOX ISLANDS, ALEUTIAN ISLANDS    (  9)
      ML 4.9 (PMR).

ADK      4.70 276 eP    05 09.70  -0.9
SDN      6.33  51 eP    05 33.19  -0.5
KDC     11.37  51 eP    06 40.36  -3.0X
AUP     11.75  43 eP    06 47.43  -1.2
SVW     12.04  33 eP    06 52.13  -0.2
TTA     13.30  27 eP    07 08.44  -0.6
        1.0s    13.85nm         4.9mb
CP2     13.36  37 eP    07 09.91  -0.1
CRP     13.39  38 eP    07 09.79  -0.6
SLKM    13.73  42 eP    07 12.46  -2.3
PMR     14.76  40 eP    07 26.36  -1.8
MID     15.00  50 eP    07 30.30  -0.9
KLU     16.04  43 eP    07 41.91  -2.9X
TOA     16.23  41 eP    07 45.00  -2.1
IMA     16.43  23 eP    07 50.70   1.0
        0.9s    13.00nm         4.1mb
FBA     17.24  32 eP    07 57.30  -2.4
        0.8s    29.85nm         4.5mb
BALM    17.44  47 eP    08 00.91  -1.4
SIT     20.28  61 (P)   08 38.61   3.2X
        0.7s     5.61nm         4.0mb
INK     23.86  32 eP    09 13.00   2.0
        0.6s    17.00nm         4.7mb
YKA     30.60  48 eP    10 14.30   1.4
        0.8s     7.90nm         4.6mb
KMPM    32.71  92 eP    10 32.52   0.9
NEW     33.05  75 ePd   10 34.48   0.0
        0.9s    18.56nm         5.0mb
LBFM    33.57  89 eP    10 40.05   0.8
WDC     33.60  91 eP    10 40.04   0.7
        1.1s    11.23nm         4.7mb
COE     36.14  95 eP    11 01.73   0.7
ARN     36.17  94 eP    11 01.59   0.3
RES     36.95  25 eP    11 09.00   1.6
        0.6s     2.00nm         4.2mb
LRM     37.01  76 eP    11 08.10  -0.5
BONR    37.80  91 ePd   11 16.15   0.8
BCH     38.45  96 (P)   11 21.04   0.4
MAT     39.82 269 eP    11 31.00  -0.9
        0.9s     8.40nm         4.5mb
DUG     39.87  84 eP    11 32.45   0.0
        1.3s    11.41nm         4.5mb
GSC     40.41  93 eP    11 36.81   0.0
ARUT    40.93  87 eP    11 41.79   0.6
SRU     41.93  84 eP    11 49.66   0.2
PV10    43.30  83 eP    12 00.75   0.1
                ePcP    13 48.37
CN2     43.35 286 eP    12 00.20  -0.5
        0.6s    13.00nm         4.9mb
PV08    43.42  83 eP    12 01.29  -0.5
ULM     44.35  62 eP    12 11.50   2.8
GLD     44.81  79 eP    12 13.25   0.5
        1.0s    24.81nm         5.0mb
SNY     45.61 285 eP    12 19.00   0.1
TUC     46.14  91 eP    12 24.28   1.0
        0.9s     4.83nm         4.4mb
BJI     51.13 288 eP    13 01.00  -0.7
        1.0s     6.00nm         4.5mb
WMOK    51.96  80 eP    13 06.85  -1.2
        0.8s    16.31nm         5.0mb
JAQ     52.56  48 eP    13 16.50   4.1X
LTX     52.62  89 eP    13 11.19  -2.0
TIA     53.05 284 eP    13 13.60  -2.6
HHC     53.32 292 eP    13 18.50   0.3
BTO     54.37 292 eP    13 26.00   0.0
FVM     54.84  71 eP    13 26.54  -2.8
        0.8s    10.24nm         4.9mb
TIY     54.86 288 eP    13 29.70   0.1
XAN     59.45 287 P     14 01.00  -1.0
        1.2s    13.00nm         4.9mb
SDF     60.67 353 eP    14 11.00   1.1
GTA     60.93 298 Pd    14 11.40  -0.9
        1.2s    11.00nm         4.9mb
      Z  18s     0.34um         4.5Msz
LZH     60.99 292 eP    14 12.50  -0.2
        1.5s    40.00nm         5.3mb
      Z  20s     0.30um         4.4Msz
                  sP    14 25.00
WMQ     64.08 308 P     14 33.50   0.4
        1.0s    21.00nm         5.2mb
CD2     64.73 288 iPc   14 37.20  -0.2
KAF     65.91 352 eP    14 44.80   0.4
        0.7s     9.40nm         5.0mb
GYA     66.23 283 P     14 52.00   4.9X
NUR     67.63 353 eP    14 59.60   4.3X
NAO     67.86   0 P     14 57.20   0.4
        0.9s     9.50nm         4.9mb
SLL     68.20 359 eP    14 59.50   0.6
        0.6s    13.70nm         5.2mb
OBN     71.47 345 eP    15 19.00   0.1
                  e     15 23.00
LSA     72.89 296 Pd    15 29.60   1.2
        0.8s    12.00nm         4.9mb
CHTO    76.65 283 eP    15 48.50  -0.9
GUN     77.19 299 P     15 53.20   0.4
KKN     77.61 299 P     15 55.40   0.4
PKI     77.71 299 P     15 55.40  -0.3
GKN     77.79 300 P     15 56.20   0.3
BRG     77.81 358 eP    16 00.40   5.1X
DMN     77.85 299 P     15 56.80   0.5
        0.7s    43.00nm         5.6mb
PRU     78.68 358 eP    16 06.70   6.6X
GRF     79.02 360 eP    16 05.00   3.0
SPC     79.21 354 eP    16 04.40   1.1
KHC     79.56 358 P     16 07.00   2.0
        1.2s    10.00nm         4.7mb
                  e     16 11.60
GEC2    79.84 358 P     16 08.20   1.6
        0.8s     1.81nm         4.1mb
                  e     16 11.90
                  e     16 23.50
                  e     16 34.70
ZST     80.38 356 e(P)  16 14.30   5.0X
                  e     19 49.00
WTTA    81.45 359 iPd   16 17.20   2.0
KBA     81.62 358 iPd   16 18.40   2.3
        0.7s    14.40nm         5.1mb
                  i     16 22.70
                  i     16 32.60
WR2     86.67 232 eP    16 39.70  -2.0
        0.8s     3.50nm         4.6mb
WRA     86.68 232 P     16 40.20  -1.5
ASPA    90.06 230 iPd   16 56.60  -1.2
        0.8s    13.10nm         5.3mb
                  i     17 01.50
GBA     93.32 297 P     17 13.00  -0.1
BFT    150.24 323 ePKP  23 49.50   5.4X
WIN    150.55 348 ePKP  23 29.00 -15.6X
        0.9s    18.00nm
SLR    150.91 326 iPKPd 23 50.80   5.8X
        1.0s    90.00nm
KSR    151.50 329 ePKP  23 27.00 -18.9X
SEK    153.51 325 ePKP  23 49.50   0.8
     S.D. = 1.3  on  74 of  87 obs.
-------------------------------------
%  OCT  13, 1993  13h 17m 00.80± 1.22s
   39.123 N ± 7.6km   27.705 E ±15.1km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 2.7 (ISK).

IZM      0.80 206 ePg   17 16.40   0.0
                  eSg   17 30.00
EDC      1.23   6 ePn   17 23.30  -0.3
BNT      1.24   8 ePn   17 24.00   0.1
EZN      1.28 304 ePn   17 24.40  -0.1
KGT      1.36 347 iPn   17 26.10   0.3
     S.D. = 0.3  on   5 of   5 obs.
-------------------------------------
?  OCT  13, 1993  13h 19m 50.24± 1.09s
    5.863 S ±10.1km  146.040 E ±20.3km
   DEPTH =  33.0km  (normal)
   4.1mb (  4 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.5 (PMG).

MDG      0.66 337 eP    20 01.80  -1.3
MNDI     2.39 263 iPd   20 35.00   6.9X
WWKK     3.28 313 eP    20 48.00   7.4X
PMG      3.69 163 eP    20 46.00  -0.4
CTA     14.14 179 eP    23 24.00  13.6X
                  i     24 13.00
WR2     18.02 218 iPd   23 59.20  -0.8
        0.9s     8.90nm         3.9mb
                  eS    27 18.70
WRA     18.04 218 P     24 00.20   0.1
        0.7s     6.20nm         3.9mb
ASPA    21.21 212 iPc   24 38.30   2.7X
        1.0s    15.80nm         4.4mb
GBA     70.78 287 P     31 08.00   2.1
FBA     85.43  23 eP    32 25.80   0.3
        1.0s    10.00nm         5.0mb
KIC    150.94 273 PKP   39 43.66   7.4X
        0.8s    15.00nm
TIC    151.22 273 PKP   39 43.84   7.1X
        0.5s    12.00nm
LIC    151.23 272 PKP   39 44.12   7.4X
        0.8s    12.00nm
     S.D. = 1.5  on   6 of  13 obs.
-------------------------------------
%  OCT  13, 1993  13h 26m 12.45± 1.12s
   39.119 N ± 7.3km   27.629 E ±14.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 2.7 (ISK).

IZM      0.78 202 ePg   26 27.60   0.0
                  eSg   26 40.60
EZN      1.23 305 iPn   26 35.40   0.1
EDC      1.24   8 ePn   26 35.30  -0.2
BNT      1.26  10 ePn   26 36.10   0.3
KGT      1.35 349 iPn   26 37.10  -0.2
     S.D. = 0.3  on   5 of   5 obs.
-------------------------------------
&  OCT  13, 1993  13h 56m 19.19s
   61.229 N          140.233 W
   DEPTH =   0.0km
 SOUTHERN YUKON TERRITORY, CANADA( 18)
      <AEIC>. ML 2.5 (AEIC).

CTGM     0.60 244 iP    56 30.97  -0.1
                  eS    56 41.72
BALM     1.04 260 eP    56 38.53  -1.4
                  eS    56 55.04
PCA      1.14 181 eP    56 40.73  -0.7
YAH      1.14 221 eP    56 40.98  -0.7
                  eS    56 58.68
CHX      1.25 201 eP    56 43.74   0.4
                  eS    57 02.65
BCPM     1.31 167 eP    56 43.15  -1.3
                  eS    57 01.81
TGL      1.35 251 eP    56 44.03  -1.1
                  eS    57 03.77
CRQM     1.49 253 eP    56 46.23  -1.3
                  eS    57 07.76
PNL      1.62 165 eP    56 48.03  -1.1
GLB      1.74 279 eP    56 50.10  -0.8
                  eS    57 13.53
HQN      1.91 159 eP    56 51.98  -1.3
BC3      1.98 339 eP    56 52.20  -2.2
HMT      2.17 247 eP    56 57.80   0.7
RAGM     2.34 251 eP    57 00.02   0.5
SGAM     2.54 255 eP    57 01.90  -0.5
KLU      2.75 278 eP    57 05.24  -0.3
CVA      2.78 258 eP    57 04.99  -0.8
VLZ      2.96 271 eP    57 07.79  -0.5
VZW      3.07 270 eP    57 08.46  -1.5
        19 obs. associated
-------------------------------------
*  OCT  13, 1993  14h 20m 08.48± 0.77s
    5.936 S ±10.2km  146.306 E ±13.9km
```

13d 14h

```
   DEPTH =  33.0km  (normal)
   4.5mb (  8 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.6 (PMG).

         0.86 322 ePc    20 22.80  -1.3
         2.64 265 eP     20 52.50   2.6
         3.52 311 eP     21 07.40   5.1X
         3.55 166 eP     20 50.00 -12.6X
QIS     15.92 203 eP     23 52.00   0.2
WR2     18.13 219 eP     24 17.20  -2.4
        0.7s    14.30nm          4.2mb
                  eS     27 22.30
WRA     18.14 219 P      24 19.20  -0.5
        0.6s     5.80nm          3.9mb
ASPA    21.29 213 eP     24 54.30  -0.3
        0.8s    34.30nm          4.8mb
      Z  21s     0.40um          3.8Msz
BRS     22.21 165 iP     25 10.00   6.2X
ARMA    24.86 169 iPd    25 31.20   1.5
        0.4s     3.00nm          4.2mb
STK     26.19 189 eP     25 42.90   1.0
        0.6s     3.00nm          4.1mb
CHTO    52.75 299 eP     29 22.70  -0.2
CSY     65.15 195 iPc    30 48.40   0.3
        0.6s     4.40nm          4.7mb
IMA     83.74  21 eP     32 37.59   2.2
        1.2s     8.33nm          4.8mb
FBA     85.39  23 eP     32 43.87   0.3
        0.6s     3.77nm          4.8mb
CNCB   139.26 124 ePKP   39 34.00  -1.7
LPB    139.30 124 ePKP   39 36.00   0.4
LPAZ   139.40 123 PKP    39 34.00  -2.0
KIC    151.21 272 PKP    40 02.93   8.0X
        0.9s    18.00nm
TIC    151.49 273 PKP    40 03.47   8.1X
        0.6s     7.50nm
LIC    151.50 272 PKP    40 03.49   8.1X
        0.8s    15.50nm
     S.D. = 1.6  on  15 of  21 obs.
-----------------------------------
%  OCT  13, 1993  14h 35m 02.36± 0.77s
   37.039 N ± 6.9km    5.424 W ± 6.7km
   DEPTH =  10.0km  (geophysicist)
 SPAIN                            (377)
      mbLg 2.8 (MDD).

EPRU     0.17 115 iPd    35 04.94  -1.3
                  e      35 07.80
EJIF     0.59 184 iPd    35 14.69   0.4
                  e      35 22.30
EHOR     0.79  10 iPc    35 17.35  -0.4
                  e      35 27.90
ELUQ     1.06  60 iPc    35 23.09   0.7
                  e      35 36.90
EVAL     1.19 298 iPd    35 24.35  -0.2
                  e      35 40.60
ECOG     1.50  80 eP     35 29.87   0.4
                  e      35 48.90
EGUA     1.50  97 eP     35 29.71   0.3
                  e      35 49.10
     S.D. = 0.9  on   7 of   7 obs.
-----------------------------------
%  OCT  13, 1993  14h 44m 01.22± 1.25s
   39.071 N ± 7.7km   27.698 E ±15.5km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 2.7 (ISK).

IZM      0.75 207 ePg    44 16.00   0.0
                  eSg    44 29.00
EDC      1.28   6 ePn    44 25.30   0.3
BNT      1.30   8 ePn    44 25.10  -0.1
EZN      1.30 306 ePn    44 25.40   0.1
KGT      1.41 348 iPn    44 26.60  -0.3
     S.D. = 0.3  on   5 of   5 obs.
-----------------------------------
%  OCT  13, 1993  14h 45m 44.52± 0.86s
   37.042 N ± 7.8km    5.483 W ± 7.4km
   DEPTH =  10.0km  (geophysicist)
 SPAIN                            (377)
      mbLg 2.7 (MDD).

EPRU     0.22 111 iPd    45 47.54  -1.7
                  e      45 51.00
EJIF     0.59 179 eP     45 56.70   0.2
                  e      46 05.10
EHOR     0.80  13 eP     45 59.56  -0.5
                  e      46 10.50
ELUQ     1.10  62 eP     46 05.53   0.3
                  e      46 20.10
EVAL     1.14 299 eP     46 05.86  -0.1
                  e      46 22.30
ECOG     1.55  81 eP     46 12.52   0.2
                  e      46 32.50
EGUA     1.55  97 eP     46 13.61   1.4
                  e      46 34.00
     S.D. = 1.1  on   7 of   7 obs.
-----------------------------------
?  OCT  13, 1993  14h 55m 30.80± 1.44s
   39.102 N ± 8.2km   27.692 E ±17.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 2.7 (ISK).

IZM      0.78 206 ePg    55 46.00   0.0
                  eSg    56 00.00
BNT      1.27   8 ePn    55 54.00  -0.3
EZN      1.28 305 iPn    55 54.40  -0.1
KGT      1.38 348 ePn    55 56.50   0.4
     S.D. = 0.6  on   4 of   4 obs.
-----------------------------------
?  OCT  13, 1993  15h 11m 31.15± 3.28s
   31.779 S ±56.3km   68.720 W ±40.7km
   DEPTH = 100.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA     (137)

RTCB     0.30 347 iPd    11 46.00  -0.1
                  S      11 58.00
CFA      0.44  67 ePc    11 47.20   0.4
                  S      12 00.60
RTLL     0.50  26 ePd    11 47.00  -0.2
                  S      12 00.00
MRA      2.63 105 e(P)c  12 12.50  -0.1
                  (S)    12 45.30
     S.D. = 0.5  on   4 of   4 obs.
-----------------------------------
   OCT  13, 1993  15h 28m 44.05± 0.26s
    5.827 S ± 4.3km  145.984 E ± 6.4km
   DEPTH =  35.1km  (  6 depth phases)
   4.9mb ( 22 obs.)  4.4Msz (  4 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

MDG      0.61 340 iPd    28 55.20  -0.9
MNDI     2.34 262 iPd    29 26.00   4.9X
                  eS     30 01.50
WWKK     3.21 313 eP     29 38.80   5.3X
PMG      3.74 162 eP     29 41.10   0.2
CTA     14.18 179 iPc    32 06.50   1.9
                  i      32 17.50
                  e      37 18.00
HNR     14.29 105 eP     32 07.00   0.9
QIS     15.90 202 eP     32 27.00   0.0
MTN     16.22 243 eP     32 30.50  -0.6
WR2     18.02 218 eP     32 53.20  -0.4
        0.6s    21.80nm          4.5mb
                  eS     35 37.40
GUA     19.27 357 eP     33 10.10   1.3
GUMO    19.32 357 eP     33 10.20   0.8
        1.1s   145.70nm          5.2mb
PJG     19.32 357 eP     33 10.30   0.9
KNA     19.56 238 eP     33 11.00  -1.1
ASPA    21.21 212 iPd    33 28.00  -1.2
        1.0s    12.70nm          4.3mb
                  iS     37 25.90
BRS     22.40 164 iPd    33 40.50  -0.5
BKM     24.73 120 iPd    34 04.60   0.8
ARMA    25.03 168 iPc    34 06.40  -0.3
        0.6s     8.00nm          4.5mb
DZM     25.54 131 iPc    34 09.90  -1.6
STK     26.24 188 eP     34 17.50  -0.3
        0.6s     5.40nm          4.3mb
BWA     28.55 176 eP     34 41.00   2.2
CAN     29.48 175 eP     34 52.50   5.3X
MAT     42.77 351 eP     36 38.00  -2.0
        1.3s    26.92nm          4.8mb
      Z  20s     0.35um          4.3Msz
                  eS     42 54.00
URZ     42.89 143 eP     36 41.10   0.2
HBZ     43.19 142 P      36 43.60   0.2
PUZ     43.46 142 P      36 46.20   0.6
MNG     43.57 147 P      36 47.00   0.6
SSE     43.70 329 Pc     36 49.00   1.4
        1.0s    11.00nm          4.6mb
      Z  20s     0.50um          4.4Msz
NJ2     45.68 327 Pd     37 05.00   1.6
      Z  20s     0.35um          4.3Msz
IPM     46.07 282 ePd    37 07.40   0.6
WHN     47.17 322 ePc    37 17.50   2.3
        1.0s    21.00nm          5.1mb
LOE     49.43 299 eP     37 34.00   1.0
                  e      50 40.00
NNT     49.47 292 eP     37 33.60   0.2
GYA     49.81 312 P      37 38.00   2.0
KMI     52.09 308 Pc     37 55.00   1.5
        1.4s    50.00nm          5.3mb
                  pP     38 06.00  38km
MDJ     52.33 345 eP     37 54.50  -0.2
CHTO    52.42 299 eP     37 55.70   0.0
CN2     52.77 341 eP     37 58.80   0.9
        1.0s     5.60nm          4.5mb
                  epP    38 07.60  29km
XAN     52.91 321 eP     37 57.50  -1.7
        1.2s    24.00nm          5.0mb
                  pP     38 08.50  38km
BJI     53.26 332 eP     38 00.00  -1.6
        1.2s    15.00nm          4.9mb
      Z  24s     0.57um          4.5MszX
TIY     53.40 327 eP     38 02.80   0.0
      Z  24s     0.81um          4.7MszX
CD2     54.43 315 eP     38 10.90   0.5
HHC     56.16 329 eP     38 22.20  -0.7
        1.2s    20.00nm          5.0mb
BTO     56.78 328 eP     38 26.00  -1.4
LZH     57.42 320 eP     38 31.00  -1.0
        1.4s     4.00nm          4.3mb
      Z  20s     0.35um          4.5Msz
                  pP     38 41.50  35km
GTA     61.97 321 Pd     39 02.50  -0.7
        1.5s    19.00nm          5.0mb
                  pP     39 15.00  44km
CSY     65.17 195 iPc    39 23.30  -0.3
        0.6s    11.30nm          5.1mb
YAK     68.80 352 eP     39 45.50  -1.1
        2.0s   103.00nm          5.5mb
GBA     70.72 287 P      40 00.00   0.9
NDI     74.43 302 eP     40 20.00  -0.9
SVW     80.50  25 eP     40 54.34   0.4
        1.2s    46.59nm          5.3mb
TTA     81.29  23 eP     40 59.20   1.2
MAW     82.02 203 P      41 03.40   1.8
SLKM    82.54  27 eP     41 03.67  -0.9
PMR     83.49  26 eP     41 08.34  -1.0
        1.1s    15.08nm          5.0mb
IMA     83.75  21 eP     41 10.81   0.0
        1.0s     6.46nm          4.7mb
SPA     84.21 180 iPc    41 10.20  -2.9
        0.6s     6.10nm          4.9mb
KLU     84.86  27 eP     41 16.10  -0.2
TOA     84.98  26 eP     41 17.40   0.5
FBA     85.42  23 eP     41 16.84  -2.1
        0.8s     9.59nm          5.1mb
BALM    86.32  28 eP     41 23.57  -0.1
                  e      41 32.53  28km
BCAO   127.66 271 iPKPc 47 49.90   1.4
        0.9s     9.00nm
CNCB   139.58 124 PKP    48 10.00  -1.6
LPB    139.63 124 (PKP)  48 10.00  -1.5
LPAZ   139.72 124 PKP    48 04.20  -7.7X
RSTA   146.36 155 ePKP   48 31.90   9.5X
PPD    147.54 149 ePKP   48 26.80   2.4X
KIC    150.89 273 PKP    48 35.95   6.2X
        0.7s    12.00nm
TIC    151.17 273 PKP    48 36.45   6.3X
        0.5s     8.50nm
LIC    151.17 272 PKP    48 36.55   6.4X
        0.5s    21.50nm
     S.D. = 1.2  on  60 of  69 obs.
-----------------------------------
%  OCT  13, 1993  15h 34m 14.08± 2.48s
   31.512 S ±16.8km   68.620 W ±16.6km
   DEPTH = 102.3 ± 22.3 km
 SAN JUAN PROVINCE, ARGENTINA     (137)

RTCB     0.16 279 iPd    34 29.00   0.0
                  S      34 40.80
RTLL     0.22  35 iPd    34 28.50  -0.6
                  S      34 39.00
CFA      0.34 106 iPc    34 29.50   0.1
                  S      34 41.10
RTCV     0.35 169 eP     34 30.00   0.5
```

```
                 S     34 42.50
RTRS    1.52 331 e(P)  34 41.00   -0.1
RTPR    2.18  57 e(P)  34 50.00    0.5
                 S     35 13.20
MRA     2.63 111 e(P)c 34 55.20   -0.4
     S.D. = 0.6  on   7 of   7 obs.
-------------------------------------
   OCT  13, 1993  15h 41m 49.60± 0.29s
    5.807 S ± 4.3km  145.990 E ± 6.7km
   DEPTH =  26.6km  (  3 depth phases)
   4.8mb ( 18 obs.)  4.5Msz (  3 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 5.0 (PMG).

MDG     0.59 339 eP    42 01.40    0.1
MNDI    2.34 261 iPd   42 32.30    4.9X
                 eS    43 10.00
WWKK    3.20 313 eP    42 45.50    6.1X
PMG     3.76 162 eP    42 46.50   -0.7
KVG     5.78  57 eP    43 20.20    4.4X
CTA    14.20 179 eP    45 13.00    1.9
                 i     45 16.50
                 e     45 26.00
HNR    14.29 105 eP    45 14.00    1.6
QIS    15.92 202 eP    45 33.20   -0.3
MTN    16.24 243 eP    45 36.50   -1.1
WR2    18.04 218 iPd   45 59.50   -0.7
        0.9s    31.30nm          4.4mb
                 eS    49 11.90
GUA    19.25 357 eP    46 16.00    1.0
GUMO   19.30 357 eP    46 16.60    1.0
        1.0s   100.30nm          5.0mb
PJG    19.30 357 eP    46 16.60    1.0
KNA    19.57 238 eP    46 17.50   -1.2
ASPA   21.23 212 iPd   46 37.70    1.8
        0.7s    30.70nm          4.8mb
                 eS    50 29.40
BRS    22.42 164 iP    46 44.00   -3.8X
BKM    24.73 120 iPc   47 11.00    0.6
ARMA   25.05 168 iPc   47 13.00   -0.4
DZM    25.54 131 iPc   47 16.90   -1.2
STK    26.26 188 eP    47 23.20   -1.4
        1.0s     6.40nm          4.2mb
BWA    28.56 176 eP    47 46.50    1.0
                 ipP   47 52.60   21km
CAN    29.50 175 e(P)  47 54.60    0.6
TOO    31.62 181 eP    48 13.20    0.6
        1.0s    20.00nm          5.0mb
MAT    42.75 351 eP    49 45.00   -1.5
        1.0s     9.00nm          4.5mb
URZ    42.90 143 P     49 47.80    0.1
HBZ    43.20 142 P     49 51.20    1.1
PUZ    43.47 142 P     49 52.50    0.1
NOZ    43.69 143 P     49 54.40    0.4
SSE    43.69 329 Pc    49 55.00    0.9
        1.0s    11.00nm          4.6mb
     Z  20s     0.50um          4.4Msz
PGZ    44.01 146 eP    49 56.20   -0.4
NJ2    45.67 327 Pd    50 11.40    1.4
IPM    46.07 282 ePd   50 15.10    1.6
GYA    49.80 312 P     50 44.40    1.8
                 sP    50 54.00
KMI    52.09 308 eP    51 01.50    1.4
        1.0s    20.00nm          5.0mb
CHTO   52.41 299 eP    51 20.80   18.4X
CN2    52.75 341 eP    51 04.00   -0.5
        1.0s     4.00nm          4.3mb
                 epP   51 12.60   28km
XAN    52.90 321 Pc    51 05.20   -0.6
        1.0s     8.90nm          4.7mb
BJI    53.25 332 eP    51 07.00   -1.2
        0.8s     4.00nm          4.4mb
TIY    53.39 327 eP    51 07.20   -2.2
     Z  20s     0.62um          4.7Msz
LZH    57.41 320 eP    51 38.20   -0.4
        1.0s    25.00nm          5.2mb
     Z  20s     0.35um          4.5Msz
                 pP    51 47.50   30km
GTA    61.95 321 eP    52 09.50   -0.3
        1.0s     6.00nm          4.7mb
                 pP    52 13.50   13kmX
                 sP    52 16.50
LSA    63.32 307 eP    52 20.40    0.9
GBA    70.72 287 P     53 07.00    1.2
SVW    80.48  25 eP    54 00.84    0.3
        1.1s    32.94nm          5.3mb
PMR    83.47  26 eP    54 14.48   -1.5
        0.8s     9.14nm          5.0mb
IMA    83.73  21 eP    54 16.70   -0.8
        1.1s     6.06nm          4.7mb
SPA    84.23 180 iPd   54 17.50   -2.5
        0.5s     4.63nm          5.0mb
KLU    84.84  27 eP    54 22.55   -0.4
TOA    84.96  26 eP    54 23.60    0.0
FBA    85.40  23 eP    54 23.07   -2.5
        0.8s     6.03nm          4.9mb
BALM   86.30  28 eP    54 29.66   -0.6
BCAO  127.66 271 iPKPc 00 55.30    0.0
        1.0s    10.00nm
CNCB  139.59 124 ePKP  01 13.00   -5.4X
LPAZ  139.73 124 PKP   01 12.00   -6.7X
PPD   147.55 149 ePKP  01 33.90    2.7X
KIC   150.89 273 PKP   01 42.43    5.9X
        0.9s    16.50nm
TIC   151.17 273 PKP   01 42.79    5.8X
        0.6s     8.50nm
LIC   151.18 272 PKP   01 42.71    5.7X
        0.5s     9.50nm
     S.D. = 1.2  on  47 of  58 obs.
-------------------------------------
   OCT  13, 1993  15h 49m 00.51± 0.59s
   42.511 N ± 7.5km    2.181 E ± 4.5km
   DEPTH =  10.0km  (geophysicist)
 PYRENEES                          (378)
      mbLg 3.3 (MDD).

VDCF    0.16  60 Pg    49 05.14    0.9
                 Sg    49 08.57
LSPF    0.48 335 Pg    49 10.93    0.6
PERF    0.51  93 Pg    49 10.52   -0.4
ETER    0.54 112 iPd   49 10.61   -0.9
                 e     49 18.10
GRBF    0.58 305 Pg    49 11.88   -0.4
SALF    0.77 289 Pg    49 14.35   -1.3
EGRA    1.88 261 iPc   49 26.67   -6.2X
                 e     49 46.00
EROQ    2.15 219 iPd   49 38.38    1.6
                 e     50 05.20
ELIZ    2.81 285 eP    49 45.80   -0.5
                 e     50 20.80
ECRI    3.47 273 eP    49 56.50    0.8
                 e     50 35.00
ETOR    3.60 243 eP    49 57.00   -0.5
     S.D. = 1.0  on  10 of  11 obs.
-------------------------------------
*  OCT  13, 1993  16h 11m 00.20± 1.12s
   41.175 N ±17.5km   21.962 E ± 5.4km
   DEPTH =  10.0km  (geophysicist)
 NORTHWESTERN BALKAN REGION        (383)
      ML 2.3 (THE).

GRG     0.40 123 ePg   11 07.89   -0.5
FNA     0.59 229 ePg   11 12.00   -0.2
                 eSg   11 18.10
KNT     0.71  91 iPg   11 13.53   -0.6
                 eSg   11 24.10
OHR     0.88 266 ePg   11 17.30    0.1
                 eSg   11 26.50
SOH     1.11 108 ePg   11 22.42    1.3
SRS     1.23  92 ePb   11 22.90   -0.2
                 eSb   11 42.50
     S.D. = 0.9  on   6 of   6 obs.
-------------------------------------
*  OCT  13, 1993  16h 19m 31.92± 1.66s
   51.431 N ±16.4km   16.022 E ± 7.1km
   DEPTH =  10.0km  (geophysicist)
 POLAND                            (548)

KSP     0.61 164 iPd   19 44.10   -0.2
                 iS    19 53.20
BRG     1.42 248 iPg   19 58.40    0.6
                 eSg   20 18.00
PRU     1.72 214 Pn    20 02.00   -0.1
        0.3s    55.10nm
                 Pg    20 03.80
                 Sn    20 20.30
                 Sg    20 27.50
OJC     2.68 115 eP    20 16.00    0.1
                 iS    20 58.10
KHC     2.79 215 Pn    20 17.00   -0.4
                 Pg    20 23.00
                 eSn   20 51.50
                 eSg   21 04.40
HOF     2.85 249 iPd   20 17.60   -0.7
MOX     2.89 256 iPg   20 26.20    7.4X
                 iSg   21 06.20
GEC2    2.99 211 Pn    20 21.00    0.7
                 Pg    20 27.00
                 Sn    20 56.60
                 Sg    21 07.00
WET     3.05 223 eP    20 21.10    0.0
KBA     4.70 203 i(P)  21 04.30   19.6X
        0.5s     9.20nm
                 iSg   22 10.20
     S.D. = 0.6  on   8 of  10 obs.
-------------------------------------
?  OCT  13, 1993  16h 27m 09.91± 7.07s
   46.347 N ±46.8km   14.156 E ±12.4km
   DEPTH =   5.0km  (geophysicist)
 NORTHWESTERN BALKAN REGION        (383)
      MD 2.2 (LJU).

VOY     0.36 210 ePg   27 17.20   -0.1
                 eSg   27 24.40
LJU     0.40 139 iPg   27 17.70   -0.3
                 iSg   27 24.80
CEY     0.64 163 ePg   27 22.80    0.1
                 eSg   27 33.20
VBY     1.14 137 ePg   27 31.90    0.2
                 eSg   27 49.00
     S.D. = 0.4  on   4 of   4 obs.
-------------------------------------
?  OCT  13, 1993  17h 03m 07.56± 1.51s
   31.161 S ±27.5km   68.449 W ±41.3km
   DEPTH = 100.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA      (137)

RTLL    0.17 186 iPd   03 21.70   -0.5
                 S     03 32.50
RTCB    0.44 223 iPd   03 23.30    0.0
                 S     03 34.00
CFA     0.48 158 ePc   03 23.80    0.3
                 S     03 35.70
RTRS    1.32 318 e(P)  03 32.00    0.1
     S.D. = 0.6  on   4 of   4 obs.
-------------------------------------
?  OCT  13, 1993  18h 10m 24.16± 1.17s
    5.841 S ±10.4km  146.025 E ±21.3km
   DEPTH =  33.0km  (normal)
   4.0mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.3 (PMG).

MDG     0.64 337 iPc   10 36.60   -0.1
MNDI    2.37 262 eP    11 07.00    5.2X
WWKK    3.25 313 eP    11 21.30    7.2X
PMG     3.72 162 eP    11 20.50   -0.1
WR2    18.03 218 iPc   14 33.20   -0.8
        0.9s     6.80nm          3.8mb
ASPA   21.22 212 eP    15 10.70    1.1
        1.1s    14.40nm          4.3mb
ARMA   25.01 168 eP    15 46.70   -0.1
KIC   150.93 273 PKP   30 17.11    6.9X
        0.9s    16.50nm
TIC   151.21 273 PKP   30 17.69    7.1X
        0.7s     5.50nm
LIC   151.21 272 PKP   30 17.93    7.3X
        0.7s     8.50nm
     S.D. = 1.0  on   5 of  10 obs.
-------------------------------------
*  OCT  13, 1993  18h 59m 33.65± 1.26s
   33.004 S ± 7.3km   68.983 W ±17.4km
   DEPTH =  33.0km  (normal)
 MENDOZA PROVINCE, ARGENTINA       (139)
      Felt (III) at Godoy Cruz and
      Lujan.

MDZ     0.16  43 iP    59 38.10   -1.9
                 iS    59 43.50
RTCV    1.20  18 iPc   59 54.50    0.3
ZON     1.48  10 iPc   59 59.10    0.9
                 eS    00 19.10
RTCB    1.52   6 iPc   59 58.70   -0.2
                 S     00 18.50
CFA     1.53  25 iPd   59 58.80   -0.2
                 S     00 19.20
RTLL    1.73  15 e(P)  00 02.00    0.2
                 (S)   00 24.00
RFA     1.81 166 iPc   00 03.50    0.3
                 (S)   00 29.00
MRA     2.82  79 e(P)d 00 17.80    0.4
```

13d 19h

```
RTPR          39 e(P)  00 26.00   0.1
SLA           21 e(P)  01 52.00  10.4X
LPB    1       3 P     03 19.00  -4.6X
     S.D     .9  on   9 of  11 obs.
----------  -------------------------
?  OCT  13  1993  19h 12m 22.37±11.78s
   43.727 N ±27.5km  128.455 W ±91.3km
   DEPTH =  10.0km  (geophysicist)
 OFF COAST OF OREGON                ( 30)

MPOR     3.62  76 P     13 18.87  -0.9
DBO      3.85  97 P     13 22.71  -0.2
HSO      3.90  91 P     13 23.94   0.2
TKO      3.94  64 P     13 23.72  -0.5
KMOR     4.02  60 P     13 24.38  -1.0
HBO      4.44  86 P     13 31.58   0.1
SSOR     4.45  73 P     13 31.88   0.4
GT2      4.65  70 P     13 34.45   0.0
RVW      4.72  57 P     13 35.48   0.1
VLMM     4.92  66 P     13 38.43   0.2
FL2      4.99  58 P     13 39.16   0.0
MTMW     5.00  60 P     13 39.05  -0.2
TDH      5.02  70 P     13 39.37  -0.2
SHW      5.05  59 eP    13 39.79  -0.3
VBEM     5.10  72 P     13 41.26   0.5
SOSW     5.14  59 P     13 41.62   0.4
TDL      5.14  57 P     13 41.12  -0.2
VLL      5.14  68 P     13 41.77   0.4
APM      5.23  65 P     13 43.24   0.7
ASR      5.44  61 P     13 45.56   0.0
LON      5.58  55 P     13 48.15   0.6
     S.D. = 0.5  on  21 of  21 obs.
-------------------------------------
?  OCT  13, 1993  19h 24m 53.15± 0.88s
   33.636 S ± 7.5km   68.250 W ±14.3km
   DEPTH =  33.0km  (normal)
 MENDOZA PROVINCE, ARGENTINA       (139)

RFA      1.15 189 ePc   25 13.00   0.0
                  S     25 31.00
CFA      2.02   0 ePc   25 25.40  -0.3
                  S     25 50.70
RTCB     2.19 348 ePd   25 28.00  -0.1
                  S     25 55.20
RTLL     2.31 355 ePc   25 30.00   0.3
                  S     25 59.00
MRA      2.46  61 e(P)d 25 31.80   0.0
                  (S)   26 07.10
     S.D. = 0.3  on   5 of   5 obs.
-------------------------------------
?  OCT  13, 1993  19h 39m 29.55± 0.83s
   19.704 S ±11.5km  169.853 E ±13.7km
   DEPTH =  33.0km  (normal)
   4.5mb (  6 obs.)  3.8Msz (  1 obs.)
 VANUATU ISLANDS                   (186)

BKM      2.54 323 iPc   40 09.50   0.2
                  iS    40 32.00
DZM      3.96 233 iPc   40 30.20   0.6
                  iS    41 16.00
BRS     17.42 241 eP    43 15.00 -16.7X
ARMA    19.63 234 eP    44 02.40   3.9X
        0.9s    17.00nm          4.3mb
CTA     22.19 265 iP    44 38.00  13.3X
WR2     33.35 263 eP    46 06.10  -0.9
        1.0s     2.50nm          4.1mb
WRA     33.37 263 P     46 06.90  -0.3
        0.6s     0.80nm          3.8mb
ASPA    33.58 257 iPd   46 08.90  -0.1
        1.0s     7.00nm          4.5mb
      Z  22s     0.20um          3.8Msz
BJI     77.66 321 eP    51 30.50   6.1X
        1.6s    20.00nm          4.9mb
KMI     79.01 302 eP    51 33.00   0.5
        1.0s    30.00nm          5.2mb
                  pP    51 40.00  22kmX
CHTO    79.37 294 eP    51 40.80   6.6X
KHC    145.01 333 ePKP  59 05.00   0.0
        1.3s     9.50nm
                  e     59 10.00
                  e     00 07.50
GEC2   145.17 332 PKP   59 04.60  -0.8
        0.7s     1.25nm
                  e     59 10.90
                  e     59 14.10
                  e     59 19.20
SKO    145.26 317 iPKP  59 05.80   0.2
        1.3s    50.00nm
                  i     59 11.60
GRF    145.55 335 ePKP  59 12.70   6.8X
OHR    146.11 316 ePKP  59 07.80   0.6
     S.D. = 0.6  on  10 of  16 obs.
-------------------------------------
   OCT  13, 1993  19h 40m 12.85± 0.46s
   13.895 N ± 7.3km   91.768 W ± 4.7km
   DEPTH =  33.0km  (normal)
   5.0mb ( 25 obs.)  4.3Msz (  1 obs.)
 NEAR COAST OF GUATEMALA           ( 71)
     MD 4.6 (GCG).

TPX      1.11 335 iPc   40 32.72   0.6
                  iS    40 54.03
PCG      1.23  66 iPc   40 39.93   5.9X
IXG      1.31  78 ePc   40 39.69   4.6X
                  eS    41 02.84
BVA      1.34  55 ePc   40 41.81   6.2X
GCG      1.38  60 iPd   40 42.62   6.5X
                  iS    41 09.04
YUP      1.93  81 ePc   40 48.98   4.8X
                  iS    41 17.31
SCX      2.95 344 eP    41 02.69   4.3X
                  iS    41 40.00
OXX      5.73 304 iP    41 37.99  -0.1
                  iS    42 47.49
LVVM     7.34 323 (P)   41 55.78  -4.6X
                  (S)   43 17.78
ACX      8.34 292 (P)   42 11.50  -3.0
PPM      8.35 309 eP    42 15.99   0.9
III      8.64 302 (P)   42 18.56  -0.2
UNM      8.93 308 (P)   42 25.50   2.6X
CRX      9.35 307 (P)   42 30.00   1.2
MRX     10.71 304 iP    42 47.50   0.4
LTX     18.91 326 eP    44 32.32  -1.2
UYO     20.33 354 iPd   44 48.00  -1.0
OXF     20.64   6 eP    44 51.90  -0.3
SDV     21.30 101 eP    44 58.60  -0.7
WMOK    21.70 344 eP    45 01.35  -1.6
        0.8s    57.55nm          5.0mb
SGS     21.77  26 eP    45 04.64   1.0
PRM     21.83  21 eP    45 04.88   0.6
FNO     21.87 348 iPd   45 04.60  -0.1
TOV     21.89  98 eP    45 08.60   3.5X
OCO     22.14 348 iPc   45 06.50  -0.9
MYNC    22.19  17 eP    45 08.85   1.0
        0.6s    60.62nm          5.2mb
JSC     22.42  23 eP    45 11.00   0.9
GBTN    22.72  16 eP    45 14.16   1.1
LHS     22.77  24 eP    45 14.43   0.9
ELC     23.40   5 eP    45 19.44  -0.3
ACO     23.65 345 iPc   45 21.90  -0.2
CEH     24.69  25 eP    45 32.26   0.1
        0.5s    11.46nm          4.7mb
ALQ     24.80 330 ePc   45 34.15   0.6
        0.6s    26.29nm          5.0mb
TUC     25.26 320 eP    45 39.23   1.5
        0.9s    18.99nm          4.7mb
CVL     26.74  24 (P)   45 52.08   0.7
PV08    28.77 332 ePc   46 10.67   0.6
PV10    28.79 331 iPc   46 10.00  -0.2
PV09    28.93 331 eP    46 11.98   0.4
PLM     29.93 315 eP    46 20.66   0.3
MSU     30.46 327 eP    46 26.22   1.2
ARUT    30.62 325 eP    46 27.57   1.2
GPD     30.96  26 eP    46 28.67  -0.5
TBR     31.16  26 eP    46 30.86   0.0
PAL     31.18  27 (P)   46 30.86  -0.2
TPNV    31.70 321 eP    46 36.73   0.8
        0.6s     5.19nm          4.6mb
RSSD    31.90 343 eP    46 36.70  -1.0
        0.6s    17.63nm          5.1mb
TNP     33.01 322 eP    46 47.77   0.3
        1.1s    16.34nm          4.8mb
BONR    33.60 320 eP    46 53.66   1.1
RSNY    33.90  22 eP    46 56.03   1.2
        0.8s    35.50nm          5.3mb
GAC     34.57  20 eP    46 59.00  -1.5
MHC     35.39 317 ePc   47 08.14   0.3
        1.1s    10.00nm          4.7mb
                  ic    47 13.64
LRM     36.30 335 iPc   47 15.90   0.3
                  e     49 43.00
ULM     36.41 356 eP    47 17.50   1.4
LBFM    37.86 322 eP    47 28.65   0.0
LGPM    38.17 321 eP    47 29.75  -1.4
                  ePcP  49 45.96
LPB     38.22 142 P     47 34.00   1.9
YBH     38.59 322 ePc   47 32.96  -1.6
        5.2s   390.00nm          5.5mb X
KMPM    38.70 319 eP    47 36.54   1.0
FHC     38.83 320 (P)   47 37.32   0.8
        0.8s    32.56nm          5.2mb
LMN     39.14  30 eP    47 38.50  -0.5
NEW     40.19 334 eP    47 47.38  -0.4
        0.8s    16.00nm          4.8mb
                  ePcP  49 51.22
WAH2    40.19 330 P     47 48.42   0.7
DPW     40.37 332 ePc   47 49.38   0.1
                  ePcP  49 52.59
SSOR    40.39 326 P     47 49.48   0.0
RNO     40.51 324 P     47 51.22   0.8
ASR     40.78 328 P     47 53.75   1.0
EBG     40.79 330 P     47 53.81   1.1
SAW     40.79 331 P     47 53.25   0.6
WTV     41.05 331 P     47 55.71   0.9
SHW     41.14 328 eP    47 56.76   1.1
LON     41.30 329 eP    47 57.30   0.4
                  ePcP  49 55.06
FMW     41.35 329 P     47 58.37   0.9
KMOR    41.44 326 P     47 59.36   1.2
RMW     41.78 329 (P)   48 01.07   0.2
JAQ     41.78  14 eP    47 58.00  -2.7
BMW     41.84 327 eP    48 01.59   0.2
GMW     42.33 329 eP    48 04.90  -0.3
JCW     42.34 330 P     48 05.02  -0.4
MCW     43.11 330 iPc   48 11.79   0.1
STW     43.17 329 P     48 12.98   0.9
BALM    59.43 334 eP    50 14.43  -0.2
INK     60.60 343 ePd   50 22.10  -0.3
        1.0s    23.00nm          5.3mb
RES     60.81 359 eP    50 21.50  -2.1
        0.6s     6.00nm          4.9mb
KLU     61.17 334 ePc   50 26.24  -0.2
                  ePcP  51 09.04
PMR     62.61 333 eP    50 34.62  -1.3
        0.9s    14.62nm          5.1mb
SLKM    62.69 332 ePc   50 35.45  -1.1
FBA     63.43 337 eP    50 39.93  -1.4
        0.8s    12.60nm          5.1mb
                  ePcP  51 16.87
CRP     63.85 332 iPc   50 42.93  -1.4
CP2     63.88 332 ePc   50 43.67  -1.0
SVW     65.39 331 eP    50 52.50  -1.7
        0.5s    14.52nm          5.3mb
TTA     66.09 333 ePc   50 57.11  -1.6
        0.8s    12.05nm          5.0mb
IMA     66.15 337 eP    50 57.20  -1.9
        0.7s     2.09nm          4.3mb
EKA     77.92  36 Pc    52 07.50  -1.5
        0.7s    24.70nm          5.3mb
NB2     84.13  28 P     52 42.10   0.4
        0.9s     6.20nm          4.8mb
LIC     85.38  85 P     52 49.75   1.0
        0.9s    10.00nm          5.0mb
APO     85.55  29 eP    52 48.00  -0.8
        0.5s     8.60nm          5.2mb
      Z  19s     0.13um          4.3Msz
                  LR    22 42.00
KIC     85.62  85 P     52 50.19   0.2
        0.8s    12.00nm          5.2mb
GEC2    89.54  40 P     53 07.70  -0.7
        0.8s     1.27nm          4.3mb
                  e     53 10.70
                  e     53 13.30
                  e     55 43.30
WR2    135.56 256 ePKP  59 31.30  -1.0
        0.7s     2.00nm
                  i     59 39.30
WRA    135.58 256 PKP   59 27.80  -4.6X
        0.7s     0.80nm
ASPA   135.84 250 ePKP  59 39.50   6.7X
        1.3s     4.20nm
POO    144.80  24 iPKPc 59 50.00   1.0
CHTO   145.83 342 iPKPc 59 50.50  -0.2
        1.1s    29.74nm
LOE    146.16 336 ePKP  59 51.80   0.6
BDT    147.28 341 ePKP  59 55.80   2.8X
        0.7s    73.10nm
NST    148.35 338 ePKP  59 58.80   4.1X
GBA    150.66  22 PKP   59 59.00   0.7
NNT    151.32 336 ePKP  00 05.20   5.9X
     S.D. = 1.0  on  94 of 108 obs.
```

```
-------------------------------------
?  OCT  13, 1993  19h 57m 26.88± 1.51s
    6.021 S ±12.0km  146.357 E ±29.5km
   DEPTH =  33.0km  (normal)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.6 (PMG).

MDG      0.96 323 eP    57 43.40   -0.6
PMG      3.46 167 eP    58 19.00   -0.7
WWKK     3.62 311 eP    58 28.80    6.8X
WR2     18.10 219 eP    01 35.80   -1.8
         0.7s      5.40nm          3.8mb
ASPA    21.25 213 iPc   02 15.20    2.6
         1.2s      6.20nm          3.9mb
GUN     67.34 303 P     08 22.00    0.3
PKI     67.62 303 P     08 23.20   -0.2
KKN     67.80 303 P     08 24.60    0.2
DMN     67.88 303 P     08 25.20    0.2
GKN     68.41 303 P     08 28.00   -0.1
LIC    151.55 272 PKP   17 21.00    7.2X
     S.D. = 1.3  on   9 of  11 obs.
-------------------------------------
?  OCT  13, 1993  20h 27m 27.98± 1.51s
    5.988 S ±15.6km  146.392 E ±22.2km
   DEPTH =  33.0km  (normal)
   3.8mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 3.5 (PMG).

MNDI     2.72 266 eP    28 12.50    1.9
PMG      3.48 167 eP    28 22.50    1.4
WWKK     3.62 310 eP    28 27.30    4.1X
WR2     18.14 219 eP    31 36.80   -2.4
         0.6s      3.80nm          3.7mb
ASPA    21.29 213 iPc   32 17.40    3.2X
         1.0s      5.70nm          3.9mb
GUN     67.35 303 P     38 22.60   -0.3
KKN     67.81 303 P     38 25.40   -0.2
DMN     67.90 303 P     38 26.20    0.1
GKN     68.42 303 P     38 28.80   -0.5
     S.D. = 1.7  on   7 of   9 obs.
-------------------------------------
*  OCT  13, 1993  20h 59m 22.81± 1.04s
    6.109 S ±11.7km  146.450 E ±14.4km
   DEPTH =  33.0km  (normal)
   4.5mb (  4 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.6 (PMG).

MNDI     2.78 269 eP    00 08.00    1.9
PMG      3.35 168 iPc   00 13.90   -0.2
CTA     13.90 181 iP    02 40.00    0.2
WR2     18.09 219 eP    03 31.70   -1.7
         0.4s      9.10nm          4.3mb
ASPA    21.23 213 eP    04 08.40    0.1
         0.5s     10.90nm          4.5mb
BRS     22.00 165 iPc   04 15.50   -0.6
ARMA    24.67 169 eP    04 44.00    1.8
         0.5s      7.00nm          4.5mb
CHTO    52.96 299 eP    08 38.00   -0.7
GBA     71.24 287 P     10 40.00   -1.3
FBA     85.49  23 eP    11 58.80    0.4
         1.0s      9.50nm          5.0mb
KIC    151.36 272 PKP   19 16.21    6.7X
         0.9s     19.50nm
TIC    151.64 273 PKP   19 16.47    6.5X
         0.9s     13.00nm
LIC    151.64 272 PKP   19 16.55    6.6X
         0.9s     14.00nm
     S.D. = 1.3  on  10 of  13 obs.
-------------------------------------
&  OCT  13, 1993  21h 03m 43.36s
   60.203 N          152.889 W
   DEPTH = 105.3km
 SOUTHERN ALASKA                  (  2)
      <AEIC>.

ILIM     0.13 196 iP    03 57.56    0.9
                  eS    04 09.75
INE      0.17 211 eP    03 57.72    0.8
                  eS    04 10.44
RED      0.22  15 eP    03 57.84    0.8
                  eS    04 09.89
RSO      0.27  14 eP    03 58.35    1.0
RDW      0.28   8 eP    03 58.16    0.8
REF      0.30  18 iP    03 58.26   -0.8
                  eS    04 10.88
NCT      0.36 357 iP    03 58.48   -0.7
DFR      0.40  14 iP    03 58.47   -1.0
RDT      0.44  33 eP    03 59.05   -0.6
OPT      0.58 197 eP    03 59.93   -0.6
                  eS    04 13.03
PDB      0.78 238 iP    04 01.18   -1.0
                  eS    04 16.00
HOM      0.83 131 eP    04 02.14   -0.6
AUL      0.87 199 eP    04 02.32   -0.8
AUE      0.88 196 eP    04 02.17   -1.0
AUP      0.89 198 eP    04 02.45   -0.9
AUW      0.89 200 eP    04 02.42   -0.8
AUH      0.89 199 eP    04 02.57   -0.8
AUI      0.91 198 eP    04 02.59   -0.9
                  eS    04 17.70
BKG      0.92  19 iP    04 02.87   -0.9
                  eS    04 19.09
CKL      1.03  15 eP    04 04.13   -0.8
CKT      1.06  18 eP    04 04.19   -1.0
                  eS    04 21.31
SPU      1.06  22 iP    04 04.12   -1.1
                  iS    04 21.04
CNPM     1.08 128 eP    04 04.23   -1.1
                  eS    04 21.06
CKN      1.08  18 eP    04 04.67   -0.7
BGL      1.09  13 eP    04 04.85   -0.7
BRLK     1.10 113 eP    04 05.19   -0.4
                  eS    04 20.78
CP2      1.11  16 eP    04 04.89   -1.0
CRP      1.13  18 eP    04 04.55   -1.5
                  eS    04 21.83
CGLM     1.19  21 eP    04 05.56   -1.1
                  eS    04 23.60
NCG      1.26  16 eP    04 06.54   -0.9
CDD      1.33 197 eP    04 06.60   -1.7
SLKM     1.36  76 eP    04 07.38   -1.2
SVW      1.62 305 P     04 10.10   -1.8
SEW      1.72  92 eP    04 10.88   -2.1
MPA      1.78  79 eP    04 12.07   -1.7
SKT      1.90  20 eP    04 14.55   -0.8
                  eS    04 39.60
PMS      1.94  56 P     04 14.30   -1.6
PWA      2.07  44 eP    04 17.14   -0.3
PWL      2.35  72 eP    04 18.56   -2.6
KNK      2.49  59 eP    04 20.80   -2.3
MTU      2.63  92 eP    04 22.56   -2.5
SML      2.74  52 P     04 23.64   -2.9
VZW      3.24  72 eP    04 31.07   -2.2
KLU      3.65  66 eP    04 35.59   -3.3
       44 obs. associated
-------------------------------------
?  OCT  13, 1993  21h 12m 52.41± 2.26s
   32.133 S ±36.9km   68.377 W ±24.4km
   DEPTH = 100.0km  (geophysicist)
 MENDOZA PROVINCE, ARGENTINA      (139)

RTCV     0.30 333 iPd   13 07.50    0.2
                  S     13 18.50
CFA      0.54  13 ePc   13 09.10    0.4
                  S     13 22.60
RTCB     0.74 331 eP    13 10.20   -0.3
                  S     13 24.00
RTLL     0.80 354 ePc   13 11.00   -0.1
                  S     13 26.00
MRA      2.28  98 iPc   13 29.00   -0.1
                  (S)   13 58.40
     S.D. = 0.4  on   5 of   5 obs.
-------------------------------------
*  OCT  13, 1993  21h 15m 30.01± 0.63s
    5.932 S ± 8.6km  145.984 E ±11.5km
   DEPTH =  33.0km  (normal)
   4.4mb (  3 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.8 (PMG).

MNDI     2.32 264 eP    16 13.50    6.5X
PMG      3.64 161 eP    16 25.00   -0.5
CTA     14.07 179 iPc   18 51.00    1.7
QIS     15.80 202 eP    19 12.00    0.2
WR2     17.94 218 eP    19 37.50   -1.2
         0.5s      9.00nm          4.2mb
                  eS    22 29.60
BRS     22.30 164 iPd   20 25.00   -1.2
BKM     24.68 120 iPc   20 50.50    1.1
ARMA    24.93 168 iPd   20 51.90    0.0
         0.6s      8.00nm          4.5mb
DZM     25.47 131 iPc   20 56.70   -0.3
CHTO    52.47 299 eP    24 43.80    1.5
GBA     70.75 287 P     26 46.00    0.5
NDI     74.48 302 eP    27 06.50   -0.9
KLU     84.95  27 (P)   28 03.50    0.5
FBA     85.51  23 eP    28 04.20   -1.5
         0.6s      2.11nm          4.5mb
KIC    150.89 272 PKP   35 22.88    6.9X
         0.8s     26.00nm
TIC    151.17 273 PKP   35 23.40    7.0X
         0.7s     27.00nm
LIC    151.18 272 PKP   35 23.36    7.0X
         0.6s     34.50nm
     S.D. = 1.1  on  13 of  17 obs.
-------------------------------------
*  OCT  13, 1993  21h 37m 09.58± 0.97s
    6.008 S ±11.4km  146.031 E ±17.5km
   DEPTH =  33.0km  (normal)
   4.6mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.8 (PMG).

MNDI     2.36 266 eP    37 51.00    3.9X
WWKK     3.37 315 eP    38 08.50    7.2X
PMG      3.56 162 eP    38 03.00   -0.8
WR2     17.91 218 eP    41 17.30   -0.6
         1.1s     10.60nm          3.9mb X
                  eS    44 34.40
ASPA    21.08 212 iPc   41 52.60   -1.0
         1.1s     11.00nm          4.2mb
       Z  22s      0.30um          3.6Msz
ARMA    24.85 168 eP    42 31.50    0.9
STK     26.07 189 eP    42 43.60    1.6
         0.4s      1.40nm          3.9mb X
CHTO    52.55 299 eP    46 22.60    0.1
GBA     70.81 287 P     48 26.00    0.5
FBA     85.57  23 eP    49 44.70   -0.8
         1.0s     10.00nm          5.0mb
KIC    150.94 272 PKP   57 02.27    6.6X
         0.9s     19.50nm
TIC    151.22 273 PKP   57 02.81    6.7X
         0.9s     17.00nm
LIC    151.22 272 PKP   57 02.93    6.9X
         0.8s     16.50nm
     S.D. = 1.1  on   8 of  13 obs.
-------------------------------------
&  OCT  13, 1993  22h 18m 43.55s
   60.173 N          153.230 W
   DEPTH = 181.0km
 SOUTHERN ALASKA                  (  2)
      <AEIC>.

INE      0.14 143 eP    19 07.22    0.9
                  eS    19 25.60
ILIM     0.16 124 iP    19 07.26    1.0
                  eS    19 25.52
RED      0.34  43 eP    19 07.35    0.7
                  eS    19 25.82
RS2      0.37  39 eP    19 07.72    0.8
RDW      0.37  34 eP    19 07.65    0.8
RSO      0.37  39 eP    19 07.73    0.8
REF      0.41  39 eP    19 07.19    0.2
                  eS    19 26.53
NCT      0.42  21 iP    19 07.57    0.6
                  eS    19 25.95
DFR      0.50  32 iP    19 07.80    0.6
OPT      0.52 180 eP    19 08.61    1.3
RDT      0.57  45 iP    19 08.28   -0.9
PDB      0.62 232 eP    19 07.83   -1.4
AUL      0.80 188 eP    19 10.35    0.1
AUP      0.82 187 (P)   19 10.41   -0.1
AUE      0.82 185 eP    19 10.32    0.0
HOM      0.95 122 eP    19 11.60    0.3
BKG      1.02  27 iP    19 11.03   -0.9
                  eS    19 32.47
CKL      1.12  23 eP    19 11.94   -0.7
                  eS    19 34.08
NKA      1.14  59 eP    19 13.73    1.0
CKT      1.15  26 eP    19 11.96   -0.9
SPU      1.17  29 eP    19 12.05   -1.0
BGL      1.17  20 iP    19 12.49   -0.6
CKN      1.17  26 eP    19 12.32   -0.7
CNPM     1.20 122 eP    19 14.01    0.8
                  eS    19 36.50
CP2      1.20  23 ePc   19 12.52   -0.9
CRP      1.22  25 iPc   19 12.22   -1.3
BRLK     1.25 108 eP    19 14.46    0.8
                  eS    19 36.94
```

13d 22h

```
CDD     1.26 190 eP     19 13.47  -0.3
                 eS     19 35.91
CGLM    1.29  27 eP     19 13.12  -1.0
NCG     1.34  23 eP     19 13.97  -0.6
SLKM    1.53  76 eP     19 15.70  -0.6
SEW     1.89  90 eP     19 20.35   0.5
MPA     1.95  79 eP     19 20.30  -0.2
SKT     1.99  24 eP     19 20.25  -0.7
                 eS     19 47.52
PMS     2.10  58 P      19 21.30  -0.9
KDC     2.46 171 eP     19 24.67  -1.5
PWL     2.52  72 eP     19 26.72  -0.2
GHO     2.64  51 eP     19 27.33  -1.1
KNK     2.65  60 eP     19 27.24  -1.3
CUT     2.66  31 eP     19 28.10  -0.4
MTU     2.80  91 eP     19 31.25   1.0
CFI     2.87  67 eP     19 30.87  -0.2
SML     2.90  53 eP     19 30.05  -1.4
HIN     3.36  83 eP     19 37.78   0.6
FID     3.39  77 eP     19 37.68   0.1
VZW     3.41  72 eP     19 37.15  -0.7
                 eS     20 19.49
VLZ     3.53  71 eP     19 38.84  -0.4
TRF     3.57  22 eP     19 38.74  -1.3
KLU     3.82  67 eP     19 42.85  -0.1
RND     3.85  31 eP     19 42.35  -1.1
GLB     4.79  71 eP     19 55.62   0.2
HDA     5.16  32 eP     19 58.46  -1.8
FBA     5.37  26 (P)    20 00.94  -2.0
BALM    5.43  76 eP     20 04.63   0.7
        54 obs. associated
-------------------------------------
*  OCT  13, 1993  22h 39m 34.03± 1.23s
   51.678 N ±10.2km    7.762 E ± 9.3km
   DEPTH =  10.0km  (geophysicist)
 GERMANY                            (543)
     ML 2.6 (BNS).

WTS     0.67 299 ePg    39 47.50   0.2
        0.5s     7.90nm
                 i      39 49.30
                 eRg    40 51.00
BNS     0.80 207 iPg    39 49.85   0.2
        0.7s   148.00nm
                 iSg    40 00.68
STB     1.23 209 iPc    39 57.10   0.2
        0.6s    91.00nm
                 id     39 57.68
                 iS     40 13.32
                 i      40 14.11
ENN     1.47 232 ePn    40 00.00  -0.6
                 ePg    40 03.00
                 iSg    40 20.40
WLF     2.26 208 P      40 18.00   6.0X
DOU     2.56 233 P      40 19.70   3.5X
MOX     2.64 112 ePg    40 25.50   8.1X
                 eSg    40 59.20
CLL     3.30  94 ePg    40 37.00  10.3X
                 eSg    41 22.00
KHC     4.51 122 eP     40 53.50   9.6X
                 e      41 03.00
                 eSg    42 01.00
GEC2    4.75 124 Pn     40 47.40   0.0
                 Sg     42 06.50
     S.D. = 0.5  on   5 of  10 obs.
-------------------------------------
   OCT  13, 1993  22h 46m 31.67± 0.21s
    6.010 S ± 4.1km  145.994 E ± 5.1km
   DEPTH =  33.0km  (normal)
   5.2mb ( 49 obs.)  4.8Msz ( 23 obs.)
 NEW GUINEA, PAPUA NEW GUINEA      (202)
     ML 5.5 (PMG).

MDG     0.78 344 iPc    46 44.80  -1.5
MNDI    2.33 266 eP     47 14.50   5.8X
WWKK    3.35 315 eP     47 28.60   5.6X
PMG     3.57 161 eP     47 25.00  -1.0
KVG     5.89  55 eP     47 58.80  -0.1
CTA    14.00 179 iPc+   49 51.00   1.1
        2.0s   132.35nm          5.3mb
                 i      50 01.00
                 eS     52 32.00
                 i      52 51.50
                 i      55 10.50
HNR    14.24 105 eP     49 53.00  -0.1
QIS    15.73 203 eP     50 13.00   0.4
MTN    16.15 244 iPd    50 18.00   0.0
        1.0s   400.00nm          5.5mb
WR2    17.88 218 eP     50 40.10   0.4
                 eS     54 10.30
WRA    17.89 218 P      50 40.79   1.0
        1.0s    99.00nm          4.9mb
GUA    19.45 357 e(P)   50 58.50  -0.2
        1.2s   312.50nm          5.5mb
KNA    19.47 239 iPd    50 58.00  -0.9
GUMO   19.50 357 eP     50 57.30  -1.9
        1.2s   208.60nm          5.3mb
                 e      50 58.40
ASPA   21.06 212 iPd    51 14.70  -0.8
        0.9s    73.80nm          5.1mb
                 eS     55 26.00
BRS    22.22 164 iPd    51 25.50  -1.6
DAV    24.17 302 eP     51 47.00   0.8
BKM    24.63 120 iPc    51 50.20  -0.4
ARMA   24.85 168 iPc    51 52.00  -0.8
        0.4s     9.00nm          4.7mb
                 eScP   59 11.60
DZM    25.41 131 iPc    51 55.90  -2.2
STK    26.07 189 iPd    52 02.30  -1.7
        1.0s    11.20nm          4.4mb
                 i      59 14.40
BWA    28.36 176 eP     52 24.30  -0.7
CAN    29.30 175 iPc    52 31.50  -1.9
                 e      52 46.40
TOO    31.42 181 eP     52 51.10  -1.0
        1.0s    61.00nm          5.4mb
                 ePcP   55 54.40
MAT    42.95 351 eP     54 28.00  -1.3
        1.2s    60.94nm          5.2mb
     Z  20s     0.35um          4.3Msz
                 eS     00 52.00
KGM    43.35 279 ePc    54 35.00   2.1
QIZ    43.45 306 eP     54 34.80   1.3
SSE    43.86 329 P      54 36.50  -0.2
        1.0s    11.00nm          4.6mb
     Z  20s     0.70um          4.6Msz
     E  16s     0.50um
                 pP     54 45.50  30kmX
                 S      01 06.00
NJ2    45.84 327 Pc     54 54.40   1.9
     Z  22s     0.37um          4.3Msz
                 pP     55 03.50  30kmX
IPM    46.12 282 ePc    54 56.10   1.0
        1.0s    34.60nm          5.2mb
WHN    47.32 322 eP     55 07.00   2.7
PCT    48.75 295 eP     55 17.00   1.4
LOE    49.53 299 eP     55 22.00   0.4
NNT    49.55 292 eP     55 22.00   0.2
GYA    49.94 312 P      55 26.00   1.2
TIA    49.97 329 eP     55 24.30  -0.4
     Z  20s     0.61um          4.6Msz
                 eS     02 30.00
NST    50.26 296 eP     55 28.50   1.3
SNY    51.83 339 Pc     55 38.20  -0.5
        1.1s    27.00nm          5.1mb
     Z  22s     1.00um          4.8Msz
                 pP     55 49.40  39kmX
                 eS     02 56.00
KMI    52.21 308 Pd     55 43.00   0.8
        1.5s    60.00nm          5.3mb
                 pP     55 49.00  20kmX
MDJ    52.51 345 eP     55 42.80  -1.0
        1.2s    27.00nm          5.1mb
CHTO   52.51 299 ePd    55 45.20   0.9
        1.2s    25.00nm          5.1mb
CN2    52.94 341 eP     55 46.80  -0.3
        1.0s    14.00nm          4.9mb
                 epP    55 57.20  35kmX
XAN    53.06 321 Pd     55 47.00  -1.1
        1.2s    28.00nm          5.1mb
     Z  22s     0.30um          4.3Msz
                 pP     55 57.50  35kmX
                 S      03 16.00
BJI    53.43 332 eP     55 49.50  -1.1
        1.4s    20.00nm          4.9mb
     Z  24s     0.64um          4.6MszX
                 pP     56 01.50  42kmX
                 eS     03 20.00
                 eSS    06 59.00
TIY    53.56 327 eP     55 51.00  -0.8
     Z  22s     0.77um          4.7Msz
                 S      03 19.50
CD2    54.57 315 iPc    55 59.60   0.3
HHC    56.32 329 eP     56 10.50  -1.4
        1.0s    24.00nm          5.2mb
BTO    56.94 328 eP     56 15.00  -1.4
LZH    57.57 320 eP     56 20.00  -0.9
        1.5s    64.00nm          5.4mb
     Z  20s     0.40um          4.5Msz
                 pP     56 32.00  42kmX
DRV    60.70 183 eP     56 40.00  -1.8
HON    61.26  62 P      57 00.00  13.6X
     Z  20s     0.49um          4.6Msz
GTA    62.11 321 P      56 51.50  -0.5
        1.0s    12.00nm          5.0mb
     Z  16s     0.40um          4.7MszX
                 pP     56 58.00  21kmX
                 eS     05 17.50
                 sS     05 28.00
LSA    63.45 307 eP     57 02.50   1.1
        0.8s    13.00nm          5.1mb
PAE    63.85 107 iPc    57 05.70   2.0
        1.4s   311.90nm          6.2mb
CIT    64.06 338 eP     57 04.00  -0.6
TVO    64.17 107 iPc    57 08.40   2.6
        1.2s   213.00nm          6.1mb
CSY    64.99 195 iPc    57 10.20  -0.1
        0.7s    38.70nm          5.6mb
PMO    65.42 104 iPc    57 16.00   2.2
        1.5s   472.20nm          6.4mb X
VAH    65.68 104 iPc    57 17.50   2.0
        1.8s   359.10nm          6.2mb
TPT    65.69 104 iPc    57 17.80   2.2
        1.8s   526.50nm          6.3mb X
RUV    65.91 104 iPc    57 18.50   1.5
        1.4s   289.30nm          6.2mb
YAK    68.99 352 eP     57 33.80  -1.7
        1.9s   116.00nm          5.6mb
HYB    70.53 291 eP     57 46.00   0.1
GBA    70.78 287 Pc     57 48.00   0.7
WMQ    72.15 320 iPd    57 55.40   0.2
        1.0s    21.00nm          5.1mb
SBA    72.62 175 eP     57 58.50   1.2
NDI    74.53 302 iP     58 08.80  -0.5
ILT    77.83  13 iPc    58 25.50  -1.5
        1.4s    57.00nm          5.4mb
                 i      58 31.60
                 iS     08 24.00
TIK    78.31 355 eP     58 29.00  -0.6
        1.0s    20.00nm          5.1mb
                 i      58 32.00
KSH    78.62 312 P      58 33.50   1.3
        1.0s    20.00nm          5.1mb
     E  12s     0.55um
                 pP     58 45.50  40kmX
KDC    80.41  29 (P)    58 41.43   0.2
        1.0s    24.23nm          5.2mb
SVW    80.66  25 eP     58 42.65   0.0
        1.0s    62.96nm          5.6mb
TTA    81.45  23 eP     58 45.64  -1.1
        1.1s    10.92nm          4.8mb
MAW    81.85 203 P      58 48.50  -0.2
        1.0s    29.17nm          5.3mb
CP2    82.16  25 eP     58 49.09  -1.6
CRP    82.20  25 (P)    58 50.01  -0.8
SLKM   82.70  27 eP     58 51.62  -1.6
PWA    83.35  26 eP     58 55.50  -1.0
        0.9s    23.70nm          5.3mb
PMR    83.65  26 eP     58 56.44  -1.5
        1.2s    43.19nm          5.5mb
     Z  20s     0.34um          4.7Msz
IMA    83.92  21 eP     58 58.70  -0.8
        1.2s    22.85nm          5.2mb
SPA    84.03 180 iPd    58 57.40  -2.7
        1.0s    80.00nm          5.8mb
KLU    85.02  27 eP     59 04.33  -0.7
TOA    85.14  26 eP     59 05.00  -0.6
FBA    85.58  23 eP     59 05.08  -2.6
        0.9s    22.83nm          5.4mb
BALM   86.48  28 eP     59 11.34  -1.0
INK    92.03  22 eP     59 38.00  -0.2
        1.0s     6.00nm          5.0mb
KMPM   93.76  50 eP     59 49.20   2.3
FHC    93.90  50 eP     59 50.46   3.1X
        1.1s    38.84nm          5.7mb
LGPM   94.78  49 eP     59 51.73   0.1
YBH    94.92  49 eP     59 54.11   1.9
        1.0s    10.00nm          5.2mb
WDC    94.98  50 eP     59 54.52   2.2
        0.9s     8.31nm          5.2mb
     Z  20s     0.56um          5.0Msz
```

```
BKS     95.04  53 eP     59 54.44   1.8
         0.4s    30.00nm          6.1mb
GMW     95.21  43 eP     59 53.45   0.2
LBFM    95.51  49 eP     59 56.70   1.6
ORV     95.72  51 eP     59 54.61  -1.1
         1.0s    10.00nm          5.2mb
RMW     95.87  43 (P)    59 58.14   1.7
CMB     96.51  52 P      00 10.00  10.5X
      Z  18s     0.37um          4.9Msz
NVL     97.56 194 (P)    00 03.00  -0.5
ISA     97.96  55 P      00 20.00  14.0X
      Z  20s     0.29um          4.8Msz
DPW     98.31  43 (P)    00 09.19   1.8
YKA     99.65  28 eP     00 13.80   0.8
         1.0s     2.70nm          4.7mb
HVU    102.35  49 ePdiff00 27.87   2.0
DUG    102.40  50 Pdiff 00 40.00  13.9X
      Z  18s     0.21um          4.7Msz
TUC    104.36  58 Pdiff 00 50.00  15.1X
      Z  18s     0.43um          5.0Msz
GOL    108.14  50 PKP   05 10.00  11.3X
      Z  19s     0.62um          5.2Msz
GLD    108.25  50 PKP   05 10.00  11.2X
      Z  19s     0.61um          5.2Msz
BUL    113.21 245 ePKP  05 09.60   1.0
WMOK   114.08  55 PKP   05 20.00  10.2X
      Z  19s     0.44um          5.1Msz
UYO    117.70  55 iPKPc 05 16.40  -0.3
GEC2   121.35 325 PKP   05 21.50  -1.8
         0.8s     1.17nm
                   e     05 29.00
                   e     05 33.30
MYNC   125.63  51 ePKP  05 31.97   0.0
      Z  19s     0.28um          4.9Msz
PRM    127.34  51 ePKP  05 35.74   0.5
BINY   128.24  39 PKP   05 50.00  13.3X
      Z  18s     0.44um          5.2Msz
LHS    128.39  50 ePKP  05 37.81   0.6
CBM    129.80  30 PKP   05 50.00  10.6X
      Z  19s     0.37um          5.1Msz
LSCT   130.25  38 PKP   05 50.00   9.5X
      Z  19s     0.29um          5.0Msz
HRV    130.77  37 PKP   05 50.00   8.6X
      Z  18s     0.27um          5.0Msz
CCH    140.66 127 ePKP  05 58.00  -3.1X
SDV    143.58  83 ePKP  06 04.40  -1.7
TOV    144.37  82 ePKP  06 05.80  -1.5
RSTA   146.19 155 ePKP  06 10.80   0.8
PPD    147.38 149 ePKP  06 14.10   2.1
                   e     06 18.90
VAO2   148.47 158 ePKP  06 17.70   3.8X
                   e     06 28.40
VAO    148.50 157 ePKP  06 14.80   0.9
                   e     06 17.80
KIC    150.90 272 PKP   06 24.05   6.4X
         0.9s    58.00nm
TIC    151.19 273 PKP   06 24.57   6.5X
         0.7s    44.00nm
LIC    151.19 272 PKP   06 24.93   6.9X
         0.8s    63.50nm
SOB1   163.40 156 ePKP  06 32.00  -0.9
     S.D. = 1.3  on 108 of 128 obs.
-----------------------------------
*  OCT  13, 1993  22h 57m 39.21± 1.11s
    5.966 S ±10.4km  146.446 E ±17.3km
    DEPTH =  33.0km  (normal)
    4.1mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.6 (PMG).

MDG      0.97 317 eP     57 55.50  -1.0
MNDI     2.78 266 eP     58 24.00   1.4
PMG      3.49 168 eP     58 33.00   0.5
WWKK     3.65 309 eP     58 41.20   6.4X
WR2     18.20 219 eP     01 49.40  -1.7
         0.6s     6.70nm          4.0mb
ASPA    21.34 213 eP     02 29.60   3.7X
         1.3s    11.70nm          4.1mb
GUN     67.39 303 P      08 34.60   0.3
PKI     67.66 303 P      08 36.20   0.2
KKN     67.85 303 P      08 37.00   0.0
         0.8s    20.00nm          5.3mb X
DMN     67.93 303 P      08 37.60   0.0
GKN     68.45 303 P      08 41.00   0.3
LIC    151.64 272 PKP    17 33.00   6.7X
     S.D. = 1.0  on   9 of  12 obs.
-----------------------------------
```

```
   OCT  13, 1993  23h 06m 53.64± 0.30s
    5.920 S ± 4.4km  146.194 E ± 7.9km
    DEPTH =  28.4km  (  3 depth phases)
    4.7mb ( 16 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.8 (PMG).

MDG      0.78 328 iPc    07 08.40  -0.2
MNDI     2.53 265 eP     07 39.00   5.0X
WWKK     3.43 312 eP     07 52.60   6.1X
PMG      3.59 165 eP     07 48.00  -0.8
CTA     14.08 180 i(P)c  10 15.00   1.5
QIS     15.89 203 eP     10 37.30   0.2
WR2     18.07 218 iPd    11 04.20  -0.3
         0.6s    19.50nm          4.4mb
                   eS    13 30.60
WRA     18.09 218 P      10 59.20  -5.4X
ASPA    21.24 213 eP     11 39.20  -0.7
         0.8s    15.10nm          4.5mb
                   i     11 45.20  22km
                   eS    15 43.50
BKM     24.50 120 iP     12 13.70   1.7
ARMA    24.90 169 iPc    12 15.90   0.1
         0.4s     5.00nm          4.5mb
DZM     25.32 131 iPc    12 19.10  -0.7
STK     26.18 189 iPd    12 27.20  -0.5
         1.0s     2.90nm          3.9mb
BWA     28.44 176 eP     12 48.60   0.4
TOO     31.51 181 eP     13 15.10  -0.4
MAT     42.90 351 eP     14 50.00  -1.4
         1.1s     8.86nm          4.4mb
SSE     43.89 328 Pc     15 01.50   2.0
         1.0s    11.00nm          4.6mb
NJ2     45.87 327 Pc     15 14.50  -0.9
IPM     46.29 282 ePc    15 19.20   0.2
NST     50.40 296 eP     15 51.50   0.6
SNY     51.81 339 Pc     16 01.00  -0.2
         1.0s    24.00nm          5.1mb
KMI     52.31 308 eP     16 18.00  12.4X
         1.0s    30.00nm
MDJ     52.48 345 eP     16 05.60  -0.6
CHTO    52.64 299 eP     16 09.40   1.5
XAN     53.11 321 eP     16 10.20  -1.0
         0.8s     5.50nm          4.6mb
                   pP    16 19.50  31km
                   sP    16 23.00
BJI     53.45 331 eP     16 13.00  -0.4
         1.0s     6.00nm          4.5mb
CD2     54.65 315 eP     16 22.80   0.3
HHC     56.35 329 eP     16 35.00   0.3
         1.0s    20.00nm          5.1mb
LZH     57.63 320 eP     16 42.50  -1.4
         1.2s    31.00nm          5.2mb
                   pP    16 52.50  33km
                   sP    16 56.00
GTA     62.17 321 eP     17 15.00   0.0
         1.0s     9.00nm          4.9mb
LSA     63.55 307 eP     17 25.80   1.0
CSY     65.13 195 eP     17 33.60  -0.2
         0.5s    11.80nm          5.3mb
GBA     70.94 287 P      18 12.00   1.0
WMQ     72.21 320 P      18 18.40   0.2
NDI     74.66 302 eP     18 32.00  -0.7
POO     75.29 291 eP     18 40.00   3.5X
MAW     82.01 203 P      19 12.89   0.8
SLKM    82.53  27 (P)    19 15.24   0.2
PMR     83.48  26 (P)    19 21.02   1.2
         0.7s     5.74nm          4.8mb
SPA     84.12 180 iPd    19 20.80  -2.4
         1.0s    10.00nm          5.0mb
KLU     84.85  27 eP     19 27.14   0.3
FBA     85.42  23 eP     19 28.81  -0.7
         0.8s     9.33nm          5.1mb
LPB    139.40 124 PKP    26 25.00   3.4X
RSTA   146.19 155 (PKP)  26 33.00   0.3
PPD    147.35 149 ePKP   26 37.40   2.8X
VAO    148.51 156 (PKP)  26 36.00  -0.6
KIC    151.10 272 PKP    26 47.64   7.0X
         0.9s    20.50nm
TIC    151.38 273 PKP    26 48.16   7.1X
         0.5s     6.00nm
LIC    151.38 272 PKP    26 48.24   7.2X
         0.4s     9.00nm
BAO    154.39 147 (PKP)  26 53.90   8.5X
                   i     26 58.00
     S.D. = 0.9  on  39 of  50 obs.
-----------------------------------
```

```
?  OCT  13, 1993  23h 21m 21.87± 1.12s
    45.442 N ± 9.3km   18.633 E ±12.0km
    DEPTH =  10.0km  (geophysicist)
 NORTHWESTERN BALKAN REGION        (383)
      ML 3.0 (ZAG), 2.5 (LJU). Felt
      (V) at Vinkovci, Croatia.

UZD      1.15 358 ePn    21 44.00   0.6
ZAG      1.90 282 e(Pn)  21 54.00  -0.5
                  eSg    22 25.20
PTJ      1.93 285 iPn    21 54.20  -0.9
                  iSg    22 25.50
VBY      2.38 273 ePn    22 03.40   1.9
                  iSn    22 40.30
LJU      2.93 283 e(Pn)  22 14.30   4.9X
                  e      22 19.60
                  eSg    23 04.00
ZST      2.95 340 eP     22 14.50   4.9X
                  e      23 03.90
CEY      2.97 277 e(Pn)  22 17.70   7.8X
                  eSn    22 59.20
VOY      3.37 282 e(Pn)  22 24.90   9.2X
                  eSn    23 12.00
OHR      4.61 159 eP     22 33.00  -0.2
GEC2     4.79 317 Pn     22 35.20  -0.6
                  Pg     22 57.30
                  Sn     23 37.70
                  Sg     23 59.70
KHC      5.04 319 ePn    22 39.00  -0.4
                  e      22 50.50
                  e      23 37.50
                  eSg    23 45.60
     S.D. = 1.2  on   7 of  11 obs.
-----------------------------------
?  OCT  13, 1993  23h 27m 51.23± 0.76s
    31.261 S ±22.1km   68.602 W ±19.7km
    DEPTH = 100.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA      (137)

RTLL     0.13 121 iPd    28 05.50  -0.3
                  S      28 16.00
RTCB     0.28 217 ePc    28 05.80  -0.3
                  S      28 18.00
CFA      0.46 138 ePc    28 07.20   0.2
                  S      28 20.10
RTRS     1.31 326 iPd    28 15.50   0.0
                  S      28 32.00
MRA      2.72 116 e(P)   28 33.70  -0.2
     S.D. = 0.3  on   5 of   5 obs.
-----------------------------------
    OCT  13, 1993  23h 34m 21.41± 0.25s
    28.629 N ± 4.1km  103.419 E ± 3.8km
    DEPTH =  33.0km  (normal)
    5.0mb ( 35 obs.)
 SICHUAN, CHINA                    (307)
      ML 4.8 (BJI).

CD2      2.29   7 iPgc   35 01.50   3.8X
                  Sg     35 32.00
KMI      3.54 190 ePn    35 16.50   0.8
                  Pg     35 25.00
                  Sn     35 59.00
GYA      3.60 126 iPnd   35 17.60   1.2
                  Pg     35 29.80
                  Sn     36 00.60
                  Sg     36 18.80
XAN      7.16  40 Pnc    36 05.20  -1.3
                  Sn     37 25.00
                  Sg     38 08.30
LZH      7.44   3 ePn    36 12.00   1.4
         1.0s    37.00nm          5.3mb
      Z  10s     1.39um          3.6Msz
WHN      9.71  76 eP     36 42.50   0.7
                  pP     36 47.00
                  S      38 35.00
CHTO    10.59 204 eP     36 54.70   0.7
                  e      39 59.10
LSA     10.78 279 eP     36 58.20   1.2
         0.8s    13.00nm          5.2mb
                  S      39 02.00
GTA     11.16 345 eP     37 02.80   1.0
         1.0s    13.00nm          5.1mb
      Z  12s     1.20um          3.8Msz
                  pP     37 08.40
                  sP     37 12.00
QIZ     11.22 147 eP     37 00.60  -1.9
TIY     11.79  37 eP     37 08.00  -2.3
```

13d 23h

```
      Z 11s     0.99um
BTO     13.11  23 eP    37 26.00   -2.0
      N 10s     0.85um
      E 10s     0.62um
NJ2     13.76  72 Pc    37 37.00    0.6
      Z 10s     0.96um
                S       40 09.50
TIA     13.82  53 eP    37 36.00   -1.2
      Z 12s     1.30um
      E 10s     0.74um
HHC     13.90  27 P     37 37.60   -0.7
      0.8s    10.00nm          4.6mb
      Z 14s     0.95um          6.9Msz
BJI     15.49  39 eP    38 00.00    1.0
      1.0s     9.00nm          3.9mb X
      Z 12s     0.36um          4.4Msz
SSE     15.61  77 Pn    38 08.50    7.9X
WMQ     19.72 324 eP    38 50.00   -1.1
SNY     21.02  46 iPd   39 05.00    0.5
      1.0s    18.00nm          4.4mb
NDI     22.98 276 eP    39 23.80   -0.4
CN2     23.25  43 eP    39 28.00    1.4
      1.0s    14.00nm          4.4mb
IRK     23.63   1 eP    39 32.80    2.6
      1.6s    46.00nm          4.7mb
                e       39 38.10
IPM     24.03 186 ePd   39 34.90    0.5
      0.7s    23.70nm          4.8mb
KSH     25.08 303 eP    39 47.00    2.5
      1.0s    50.00nm          5.1mb
      N 10s     0.54um
      E 10s     0.95um
                pP      39 54.00   25kmX
                sP      39 58.00
HYB     25.41 249 eP    39 46.50   -1.1
      1.0s    40.00nm          5.0mb
MDJ     26.22  45 eP    39 55.50    0.6
FRU     27.18 309 eP    40 05.00    1.2
GBA     28.39 244 P     40 15.00    0.1
SVE     41.15 325 ePd   42 05.00    1.1
ARU     42.02 324 eP    42 11.00   -0.1
OBN     53.92 319 eP    43 33.00  -10.7X
                e       44 47.00
WRA     56.78 145 P     44 05.20    0.4
      0.6s    11.00nm          5.1mb
WR2     56.80 145 eP    44 03.40   -1.6
      0.5s    47.80nm          5.8mb
SDF     58.94 334 iP    44 18.80   -0.7
KAF     59.15 328 iP    44 19.90   -1.0
      0.3s     2.00nm          4.7mb
NUR     60.07 326 eP    44 27.80    0.5
PSN     60.62 306 eP    44 30.00   -1.2
VRI     61.16 309 ePc   44 35.00    0.1
ISR     61.44 308 ePc   44 38.00    1.1
MLR     61.78 309 iPc   44 39.00   -0.3
JMB     62.05 305 eP    44 40.00   -0.9
PVL     62.75 306 iP    44 45.00   -0.5
KDZ     63.09 305 iP    44 47.00   -0.9
UZH     63.47 313 eP    44 50.50    0.3
      1.0s    31.00nm          5.4mb
                e       45 02.70
PLD     63.49 305 eP    44 49.00   -1.4
RZN     63.59 305 iPc   44 50.00   -1.4
UPP     63.64 326 iP    44 51.10   -0.1
PGB     63.75 306 iP    44 52.00   -0.3
MMB     64.33 305 iP    44 54.00   -2.1
KKB     64.71 305 iP    44 57.00   -1.5
PSZ     65.20 313 ePc   45 01.70    0.0
APO     65.28 327 eP    45 00.50   -1.4
      0.6s     7.90nm          5.0mb
SKO     65.86 306 iPc   45 05.20   -0.6
      0.8s    50.00nm          5.7mb
SRO     66.26 313 eP    45 08.30    0.0
NB2     66.43 328 P     45 08.20   -1.1
      0.7s     7.60nm          4.9mb
UZD     66.44 311 eP    45 09.50    0.0
OHR     66.58 305 iP    45 09.00   -1.6
KSP     66.64 316 iP    45 10.60   -0.1
ZST     66.92 313 eP    45 12.30   -0.2
PRU     67.97 316 iPc   45 19.10    0.0
      1.0s    17.20nm          5.1mb
                i       45 22.60
BRG     68.04 317 iPc   45 19.40   -0.2
      0.7s    14.00nm          5.2mb
                i       45 21.90
PTJ     68.38 311 eP    45 22.40    0.5
CLL     68.47 318 iPc   45 21.80   -0.4
      1.0s    19.00nm          5.1mb
KHC     68.84 315 Pc    45 25.40    0.8
      1.0s     5.40nm          4.6mb
                e       45 43.00
                e       46 10.50
GEC2    68.86 315 P     45 25.00    0.2
      0.5s     6.33nm          4.9mb
                e       45 26.30
                e       45 28.60
WET     69.26 315 iPc   45 27.50    0.3
MOX     69.52 317 eP    45 29.20    0.5
      1.5s    20.00nm          5.0mb
KBA     69.69 313 iPc   45 29.00   -1.0
      1.2s    21.80nm          5.1mb
BHG     69.76 314 eP    45 31.10    0.9
      1.1s    32.00nm          5.3mb
GRF     70.09 316 ePc   45 33.20    1.0
      0.8s    15.00nm          5.1mb
FUR     70.61 315 iPc   45 36.30    0.9
      0.9s    70.00nm          5.7mb
                e       45 39.60
WTTA    70.71 314 iPc   45 35.70   -0.6
      0.6s     8.50nm          5.0mb
                i       45 39.20
                i       45 53.50
WATA    70.72 314 iPc   45 35.80   -0.5
SQTA    71.00 314 iPc   45 37.50   -0.4
      0.6s    15.00nm          5.2mb
                i       45 41.10
MOTA    71.02 314 iPc   45 37.60   -0.5
      0.8s    14.40nm          5.1mb
                i       45 58.00
OGA     71.24 314 iPd   45 39.40   -0.1
      1.0s    18.00nm          5.1mb
FBA     71.92  25 (P)   45 44.10    1.1
      1.0s    15.00nm          4.9mb
WLF     73.14 318 iPc   45 51.30    0.9
FIN     74.11 312 P     45 57.48    1.3
LSD     74.27 313 P     45 58.07    0.7
ROB     74.30 312 P     45 58.12    0.8
RSP     74.33 313 P     45 57.30   -0.3
IMI     74.44 312 P     45 58.30    0.1
INK     74.68  19 eP    46 00.00    1.0
      0.6s     3.00nm          4.5mb
PZZ     74.71 312 P     45 59.67   -0.1
RRL     74.74 313 P     46 00.22    0.1
RES     76.25   5 eP    46 09.00    1.2
      1.0s     4.00nm          4.4mb
YKA     84.23  17 eP    46 51.20    0.7
      0.6s     4.00nm          4.8mb
BUL     86.94 245 iPd   47 05.50    0.7
BAO    150.62 290 ePKP  54 11.70    5.1X
                e       54 16.60
                e       54 18.00
                i       54 21.90
      S.D. = 1.0  on  86 of  90 obs.
-----------------------------------
   OCT  13, 1993  23h 37m 59.79± 0.26s
    5.944 S ± 4.4km  146.070 E ± 6.8km
   DEPTH =  32.6km  (  2 depth phases)
   5.0mb ( 30 obs.)  4.3Msz (  1 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.8 (PMG).

WWKK     3.36 313 eP    38 57.20    5.9X
PMG      3.61 163 eP    38 40.00  -14.7X
CTA     14.06 179 iP    41 21.00    2.1
      2.0s    73.53nm          5.0mb
                i       41 35.50
                eS      44 12.00
QIS     15.82 203 iPc   41 42.10    0.2
MTN     16.25 244 iPc   41 46.80   -0.5
WR2     17.98 218 eP    42 08.20   -0.8
      0.7s    37.10nm          4.6mb
                eS      45 23.60
WRA     17.99 218 P     42 09.39    0.2
      0.7s    21.40nm          4.4mb
GUA     19.39 357 eP    42 26.00   -0.1
GUMO    19.44 356 eP    42 26.10   -0.6
      1.3s   158.40nm          5.1mb
PJG     19.44 356 eP    42 26.30   -0.4
KNA     19.57 239 iPd   42 30.00    1.8
ASPA    21.16 212 P     42 43.79   -0.9
      1.1s    28.90nm          4.6mb
BRS     22.26 164 iPd   42 54.50   -1.2
BKM     24.60 120 iPd   43 19.90    1.4
ARMA    24.90 169 iPd   43 21.60    0.2
      0.4s    10.00nm          4.8mb
DZM     25.39 131 iPc   43 26.10    0.0
STK     26.14 189 iPc   43 [illegible]0   -0.9
      0.7s     4.20nm          4.2mb
                iPcP    45 [illegible]0
                iScP    50 [illegible]0
BWA     28.42 176 eP    43 [illegible]60   -0.1
                e       44 01.80   29km
CAN     29.36 175 eP    44 01.20   -0.9
                e       44 11.40   36km
CNB     29.39 175 eP    44 01.20   -1.2
TOO     31.49 181 eP    44 20.30   -0.6
      0.9s    16.00nm          4.9mb
                iPcP    46 12.20
                e       47 14.00
MAT     42.90 351 eP    45 57.00   -0.1
      1.2s    29.69nm          4.9mb
                eS      51 34.00
SSE     43.85 329 P     46 04.50   -0.2
      1.0s    11.00nm          4.6mb
NJ2     45.83 327 Pc    46 21.50    0.9
IPM     46.18 282 ePd   46 24.10    0.4
      0.7s    21.10nm          5.2mb
LOE     49.56 299 eP    46 51.50    1.5
NST     50.30 296 eP    46 56.00    0.3
SNY     51.79 339 iPd   47 08.00    1.4
      1.0s    23.00nm          5.1mb
KMI     52.23 308 eP    47 12.50    2.0
      1.0s    20.00nm          5.0mb
MDJ     52.47 345 eP    47 10.30   -1.4
      1.0s    19.00nm          5.0mb
CHTO    52.55 299 eP    47 12.30   -0.4
      1.0s    15.00nm          4.9mb
CN2     52.91 341 eP    47 16.50    1.5
      1.2s    22.00nm          5.0mb
BJI     53.41 332 eP    47 18.50   -0.2
      1.4s    17.00nm          4.8mb
      Z 20s     0.30um          4.3Msz
TIY     53.55 327 eP    47 19.00   -0.9
      Z 26s     0.56um          4.5MszX
LZH     57.57 320 eP    47 47.50   -1.6
      1.8s    44.00nm          5.2mb
GTA     62.11 321 eP    48 21.00    0.8
      1.2s    10.00nm          4.8mb
LSA     63.47 307 eP    48 31.20    1.4
      0.6s     9.00nm          5.1mb
CSY     65.08 195 iPd   48 39.20    0.2
      0.6s    13.00nm          5.2mb
GBA     70.83 287 P     49 15.00   -0.8
WMQ     72.15 320 iPd   49 23.00   -0.4
NDI     74.56 302 iP    49 36.00   -1.7
SDN     75.28  28 eP    49 40.10   -1.1
      1.0s   120.80nm          5.9mb
SVW     80.57  25 eP    50 10.38    0.1
      1.0s    36.60nm          5.3mb
TTA     81.36  23 eP    50 14.77    0.3
      1.1s     6.78nm          4.6mb
MAW     81.94 203 P     50 18.79    1.5
CP2     82.07  25 eP    50 18.64    0.3
SLKM    82.61  27 eP    50 19.58   -1.4
PMS     83.22  26 eP    50 23.10   -1.0
      0.9s    46.70nm          5.6mb
PMR     83.56  26 eP    50 23.67   -2.0
      1.1s    24.67nm          5.3mb
IMA     83.83  21 eP    50 26.59   -0.7
      0.9s    10.92nm          5.0mb
SPA     84.09 180 iPc   50 26.60   -2.0
      0.7s    11.72nm          5.2mb
KLU     84.93  27 eP    50 32.37   -0.4
TOA     85.05  26 eP    50 33.40    0.1
FBA     85.49  23 ePd   50 33.74   -1.7
      0.7s    15.34nm          5.3mb
BALM    86.38  28 eP    50 39.51   -0.5
INK     91.94  22 eP    51 05.00   -0.9
      1.0s     5.00nm          4.9mb
LGPM    94.68  49 eP    51 19.94    0.6
GMW     95.11  43 (P)   51 22.04    1.0
LBFM    95.41  49 eP    51 24.82    2.0
ARN     95.47  53 eP    51 24.59    1.7
ORV     95.62  51 (P)   51 23.79    0.3
BCH     96.53  55 eP    51 29.89    2.0
BONR    98.05  53 (P)   51 37.33    2.4
BCAO   127.74 271 iPdiff53 37.90   -9.7X
      0.8s     7.00nm
SDV    143.50  83 ePKP  57 31.70   -2.5
TOV    144.28  82 ePKP  57 33.60   -1.7
RSTA   146.22 155 ePKP  57 40.40    2.1
```

```
PPD    147.40 149 ePKP   57 43.20    3.0X
VAO2   148.50 157 (PKP)  57 47.00    4.9X
VAO    148.53 157 ePKP   57 45.40    3.3X
KIC    150.98 272 PKP    57 52.63    6.7X
        0.6s    24.00nm
TIC    151.26 273 PKP    57 53.51    7.1X
        0.4s    26.50nm
LIC    151.26 272 PKP    57 53.17    6.8X
        0.4s    26.00nm
BAO    154.43 147 ePKP   57 52.20    1.3
                  i      58 02.20
     S.D. = 1.2  on  65 of  74 obs.
-------------------------------------
?  OCT  13, 1993  23h 47m 43.84± 1.51s
   31.377 S ±34.3km   68.840 W ±22.3km
   DEPTH = 100.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA     (137)

RTCB     0.11 162 ePd    47 57.80   -0.6
                  S      48 08.50
RTLL     0.32  82 ePc    47 59.00    0.2
                  S      48 10.20
RTCV     0.55 152 eP     48 00.50    0.2
                  S      48 14.50
CFA      0.56 114 ePd    48 01.00    0.6
                  S      48 14.30
MRA      2.86 112 e(P)c  48 27.90   -0.5
     S.D. = 0.7  on   5 of   5 obs.
-------------------------------------
*  OCT  14, 1993  00h 55m 27.20± 2.08s
   13.823 N ±26.9km   92.069 W ± 8.7km
   DEPTH =  33.0km  (normal)
   4.1mb (  2 obs.)
 OFF COAST OF CHIAPAS, MEXICO     ( 68)
      MD 4.1 (GCG).

TPX      1.09 350 iP     55 46.25    0.0
IXG      1.61  77 ePd    55 53.00   -0.8
                  eS     56 13.37
BVA      1.62  59 ePc    55 54.78    0.7
GCG      1.67  63 iPd    55 55.73    1.0
                  eS     56 18.01
YUP      2.23  80 ePd    56 02.54   -0.2
                  eS     56 28.91
OXX      5.53 306 (P)    56 48.50   -1.2
PPM      8.17 311 (P)    57 29.00    2.0
LTX     18.81 327 eP     59 46.12   -0.5
UYO     20.37 354 iPc    00 02.80   -1.0
WMOK    21.69 345 ePc    00 16.03   -1.2
        0.9s     5.49nm          4.0mb
ALQ     24.72 331 ePc    00 47.90    0.8
        0.8s     5.60nm          4.2mb
PV08    28.70 332 (P)    01 24.16    0.4
     S.D. = 1.1  on  12 of  12 obs.
-------------------------------------
?  OCT  14, 1993  02h 22m 55.10± 2.71s
   61.906 N ±12.9km    4.516 E ±24.7km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN NORWAY                  (535)
      MD 1.9 (BER).

FOO      0.40 141 iPc    23 03.24    0.0
                  eS     23 08.07
SUE      0.86 172 eP     23 11.64    0.0
                  eS     23 23.57
MOL      1.57  64 eP     23 22.99    0.0
                  eS     23 41.96
EGD      1.68 168 eP     23 24.55    0.0
                  eS     23 46.76
NRA0     3.58 106 ePg    23 57.85    6.0X
                  eLg    24 43.25
     S.D. = 0.0  on   4 of   5 obs.
-------------------------------------
*  OCT  14, 1993  03h 15m 46.23± 1.56s
   37.312 N ±16.8km   28.408 E ±11.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)

CIN      0.38 318 ePg    15 53.00   -1.1
                  iSg    16 00.00
ELL      1.33 115 ePn    16 11.00    0.2
KHL      1.34  41 ePn    16 11.50    0.5
IZM      1.41 320 ePn    16 13.20    1.2
BCK      1.74  84 ePn    16 16.00   -0.8
     S.D. = 1.3  on   5 of   5 obs.
-------------------------------------
?  OCT  14, 1993  03h 38m 44.42± 2.37s
   31.562 S ±25.2km   69.352 W ±24.8km
   DEPTH = 120.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA     (137)

RTCB     0.48  81 ePc    39 02.50   -0.1
                  S      39 15.50
RTLL     0.79  73 iPc    39 04.40   -0.4
                  S      39 18.90
CFA      0.95  93 ePd    39 06.70    0.4
                  S      39 22.80
RTRS     1.39 356 eP     39 11.00    0.1
                  S      39 31.00
RTPR     2.74  64 eP     39 28.00    0.0
                  S      40 00.00
     S.D. = 0.4  on   5 of   5 obs.
-------------------------------------
%  OCT  14, 1993  03h 50m 49.10± 0.67s
   37.363 N ± 5.8km    2.483 W ± 5.9km
   DEPTH =  10.0km  (geophysicist)
 SPAIN                            (377)
      mbLg 2.9 (MDD).

ENIJ     0.45 150 iPc    50 58.02   -0.2
                  e      51 03.50
EHUE     0.46 349 eP     50 57.72   -0.7
                  e      51 03.40
ECOG     0.87 265 iPc    51 05.57   -0.3
                  e      51 18.10
EALH     0.98  59 iPd    51 08.03    0.4
                  e      51 20.40
EGUA     1.01 239 iPc    51 08.00   -0.3
                  e      51 21.20
EVIA     1.27 359 iPd    51 12.94    0.1
                  e      51 30.70
ELUQ     1.43 278 eP     51 16.79    1.6
EHOR     2.24 283 eP     51 26.29   -0.5
                  e      51 54.40
     S.D. = 0.9  on   8 of   8 obs.
-------------------------------------
*  OCT  14, 1993  04h 40m 45.48± 1.26s
    6.119 S ±12.5km  146.191 E ±21.0km
   DEPTH =  33.0km  (normal)
   3.9mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.3 (PMG).

YYYY     0.25 241 iPd    40 50.80   -2.0
                  eS     40 56.60
MNDI     2.52 269 eP     41 31.00    5.8X
PMG      3.40 164 eP     41 37.00   -0.6
WWKK     3.56 314 eP     41 50.10   10.3X
WR2     17.92 219 eP     44 56.10    2.2
        0.7s     4.50nm          3.7mb
ASPA    21.08 213 iPc    45 33.10    3.6X
        0.9s     6.00nm          4.0mb
GUN     67.26 304 P      51 40.00    0.2
PKI     67.53 303 P      51 41.40   -0.1
KKN     67.72 303 P      51 42.60    0.1
DMN     67.80 303 P      51 43.20    0.2
GKN     68.32 303 P      51 46.10   -0.1
KIC    151.10 272 PKP    00 38.37    6.6X
        0.5s     4.00nm
TIC    151.39 273 PKP    00 38.29    6.1X
        0.6s     2.50nm
LIC    151.39 272 PKP    00 38.29    6.1X
        0.5s     3.00nm
     S.D. = 1.4  on   8 of  14 obs.
-------------------------------------
?  OCT  14, 1993  05h 34m 16.78± 1.97s
    7.065 N ±14.0km   72.712 W ±23.0km
   DEPTH = 203.2 ± 24.4 km
   4.0mb (  1 obs.)
 NORTHERN COLOMBIA                ( 99)

SDV      2.74  49 iPnd   35 04.20    0.0
                  iSn    35 41.50
TOV      3.96  47 ePnd   35 19.20    0.4
                  iPP    35 19.80
                  iSn    36 09.20
CEOS     4.75  65 iPc    35 28.30   -0.6
                  eS     36 25.80
MORO     5.76  49 eP     35 42.00    0.2
OLLA     6.54  63 ePd    35 51.80   -0.1
                  eS     37 08.60
LPB     23.89 169 P      39 14.00    0.1
LTX     36.61 311 eP     41 05.00   -0.3
YKA     63.18 340 eP     44 25.20    0.2
        0.6s     1.50nm          4.0mb
WRA    150.81 241 PKP    53 47.30    6.0X
        0.5s     1.00nm
     S.D. = 0.4  on   8 of   9 obs.
-------------------------------------
*  OCT  14, 1993  05h 42m 04.59± 0.89s
   17.870 S ±13.5km  178.706 W ±10.8km
   DEPTH = 594.0 ± 11.0 km
   4.8mb ( 21 obs.)
 FIJI ISLANDS REGION              (181)

VUN      2.70 267 iPd    43 21.30   -0.7
DZM     14.57 251 iPd    45 10.60    1.9
BRS     27.92 245 iPd    47 11.00    0.5
ARMA    29.72 240 iPd    47 26.30    0.3
        0.6s    42.00nm          5.2mb
CTA     33.17 260 iPc    47 54.00   -1.0
        1.0s    20.00nm          4.7mb
CNB     33.23 232 iPd    47 56.40    1.0
        0.4s    78.00nm          5.7mb
CAN     33.50 232 iPd    47 58.20    0.5
BWA     33.61 234 iPd    47 56.90   -1.7
PMG     34.17 280 eP     48 04.80    1.4
TOO     36.98 231 iPd    48 27.10    0.8
        0.7s    99.00nm          5.6mb
STK     38.40 241 iPd    48 39.10    1.2
        0.4s    38.90nm          5.3mb
ADE     41.42 237 ePd    49 02.90    0.8
DHH     43.96  29 eP     49 20.56   -1.4
WR2     44.34 260 iPc    49 24.50   -0.6
        0.6s    64.90nm          5.2mb
                  iScP   53 46.80
                  eS     54 19.80
WRA     44.36 260 P      49 24.90   -0.3
        0.6s    18.00nm          4.8mb
ASPA    44.53 254 iPd    49 26.50    0.0
        0.7s   297.90nm          5.9mb X
                  iPcP   50 56.50
                  iS     55 19.60
MTN     48.52 268 eP     49 56.40   -0.5
        0.8s   116.00nm          5.5mb
FORT    49.77 245 iPd    50 06.20    0.3
        0.5s    35.00nm          5.1mb
COOL    55.72 244 eP     50 47.00   -1.3
MBL     57.71 256 iPd    51 01.40   -0.6
        0.3s    20.00nm          4.8mb
KLB     58.59 244 iPd    51 11.80    4.0X
        0.7s    41.00nm          4.8mb
NWAO    58.98 242 eP     51 09.70   -0.7
        0.8s    22.00nm          4.5mb
BAL     59.54 245 iPd    51 13.10   -1.0
        0.7s    59.00nm          4.9mb
MUN     59.89 243 eP     51 15.80   -0.6
MRWA    60.26 246 iPd    51 18.20   -0.7
        0.7s    24.00nm          4.6mb
CSY     66.06 205 eP     51 55.60    0.6
        0.7s    11.00nm          4.4mb
SPA     72.24 180 iPc    52 29.70   -2.3
        0.8s     8.33nm          4.3mb
LEM     72.43 268 iPc    52 35.50    1.5
SAO     76.59  44 eP     52 56.83    0.5
        1.1s    20.00nm          4.5mb
MHC     76.79  43 eP     52 57.74    0.1
        1.8s    30.00nm          4.4mb
ARN     76.87  43 eP     52 58.14    0.3
ISA     77.99  46 eP     53 03.42   -0.6
        0.8s     8.18nm          4.2mb
CMB     78.01  43 eP     53 03.89   -0.1
WDC     78.10  40 eP     53 04.43    0.1
        1.3s     8.57nm          4.0mb
LGPM    78.12  40 iPc    53 05.07    0.5
ORV     78.15  42 eP     53 04.66    0.0
YBH     78.67  39 eP     53 07.91    0.5
SLKM    81.42  14 ePc    53 20.22   -0.9
CRP     81.68  13 eP     53 20.45   -2.2
TUC     81.90  52 eP     53 26.38    2.2
        1.0s     6.63nm          4.1mb
VGB     82.03  37 (P)    53 24.09   -0.4
GMW     82.11  35 eP     53 25.07    0.2
ARUT    82.55  47 (P)    53 28.25    0.8
RMW     82.59  35 iPc    53 27.52    0.2
MSU     83.78  46 eP     53 34.41    0.8
PV10    85.90  48 eP     53 43.82   -0.1
LTX     86.21  58 ePc    53 46.18    0.7
GEC2   147.50 345 PKP    00 44.20    3.8X
        0.6s     2.54nm
     S.D. = 1.0  on  46 of  48 obs.
```

```
-------------------------------------
   OCT  14, 1993  06h 04m 47.03± 0.39s
   14.397 N ± 6.6km   93.159 W ± 4.0km
   DEPTH =  33.0km  (normal)
   4.9mb ( 28 obs.)  4.9Msz (  1 obs.)
 NEAR COAST OF CHIAPAS, MEXICO    ( 69)
      Mw 5.3 (HRV). MD 5.2 (GCG).
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 28S, 42C
      Centroid Location:
      Origin Time        06:04:46.1 0.5
      Lat 14.14N 0.07 Lon  93.24W 0.06
      Dep  15.0 FIX Half-duration  1.3
      Moment Tensor;   Scale 10**16 Nm
        Mrr= 7.05 0.37  Mtt=-5.41 0.47
        Mff=-1.64 0.60  Mrt= 7.14 1.68
        Mrf=-3.35 1.25  Mtf= 2.05 0.38
       Principal Axes:
        T  Val= 10.70  Plg=65  Azm= 26
        N       -0.74       1      295
        P       -9.96      25      204
      Best Double Couple:Mo=[illegible].0*10**17
       NP1:Strike=293 Dip=20 Slip=  88
       NP2:        115     70       91

TPX     1.00  60 iP     05 07.25   2.4
                iS     05 23.50
SCX     2.38  12 iP     05 28.25   3.7X
                iS     05 58.00
BVA     2.46  83 iPd    05 27.92   2.0
PCG     2.47  90 iPd    05 27.29   1.2
GCG     2.55  85 iPd    05 29.32   2.2
IXG     2.63  95 iPd    05 28.88   0.6
                iS     06 09.91
YUP     3.26  93 iP     05 37.91   0.7
OXX     4.35 308 eP     05 52.50  -0.2
                (S)    06 48.50
LVVM    6.17 330 eP     06 14.50  -3.8X
ACX     6.91 292 (P)    06 28.50  -0.1
PPM     7.00 312 eP     06 31.50   1.1
III     7.23 304 eP     06 32.50  -0.9
UNM     7.57 311 eP     06 38.00  -0.2
CRX     7.98 309 (P)    06 46.00   2.0
MRX     9.32 306 eP     07 02.50   0.4
CGX    11.17 300 (P)    07 28.50   0.7
LTX    17.76 329 eP     08 54.11   0.6
OXF    20.31   9 eP     09 21.49  -1.5
WMOK   20.88 347 eP     09 27.40  -1.5
       1.0s    46.86nm          4.8mb
FNO    21.12 350 iPd    09 31.60   0.3
OCO    21.39 350 iPd    09 34.20   0.1
TUL    21.55 354 iP     09 36.90   1.2
HBF    21.81  30 eP     09 38.33   0.1
PRM    21.90  25 eP     09 38.33  -0.8
SGS    21.96  29 eP     09 39.76   0.0
                i      09 50.15
MYNC   22.14  20 eP     09 40.15  -1.4
       0.9s    35.32nm          4.8mb
LST    22.25   7 eP     09 42.72   0.2
JSC    22.53  26 eP     09 44.67  -0.7
SDV    22.72 101 eP     09 48.40   0.7
ACO    22.84 348 iPd    09 48.60   0.1
LHS    22.90  27 eP     09 47.71  -1.3
ELC    23.06   8 eP     09 50.41  -0.2
TOV    23.30  99 eP     09 53.70   0.6
FVM    23.62   5 eP     09 54.98  -1.0
       1.0s    23.65nm          4.7mb
ALQ    23.71 332 ePc    09 58.06   0.9
       1.0s    33.67nm          4.8mb
TUC    24.01 321 ePc    10 02.24   2.3
       1.1s    64.34nm          5.1mb
CEH    24.85  28 eP     10 05.72  -2.1
       0.8s    21.08nm          4.8mb
NAV    25.34  24 eP     10 10.68  -1.9
BLA    25.40  24 eP     10 12.90  -0.2
       1.2s    43.92nm          4.9mb
GLD    27.39 339 eP     10 31.99   0.4
       1.3s    32.03nm          4.8mb
GOL    27.39 339 eP     10 31.37  -0.4
       1.2s    52.26nm          5.1mb
PV08   27.70 333 eP     10 35.29   0.6
PV10   27.71 332 eP     10 33.77  -0.9
PV09   27.85 332 eP     10 35.69  -0.3
PLM    28.62 315 eP     10 43.05   0.2
SRU    28.98 331 eP     10 46.48   0.4
MSU    29.32 329 eP     10 49.52   0.4
ARUT   29.44 326 ePc    10 51.11   1.0
SSK    29.68 316 eP     10 53.83   1.5
GSC    29.75 319 eP     10 53.99   1.1
DAU    30.36 332 eP     10 58.88   0.4
TPNV   30.46 322 (P)    10 57.21  -2.0
       0.7s    3.28nm          4.2mb
DUG    30.93 330 eP     11 02.99  -0.2
       1.2s    9.80nm          4.5mb
RSSD   31.05 345 ePd    11 04.10  -0.2
       0.6s   12.20nm          4.9mb
TBR    31.33  28 (P)    11 03.24  -3.4X
BCH    31.85 315 eP     11 11.65   0.2
HVU    32.15 332 ePc    11 14.32   0.4
BONR   32.36 321 eP     11 16.48   0.5
MEMM   32.57 320 eP     11 17.43   0.0
CMB    33.70 319 eP     11 27.76   0.4
       1.1s   10.76nm          4.7mb
ARN    34.03 317 eP     11 29.82  -0.5
COE    34.07 317 eP     11 31.73   1.1
LRM    35.30 336 ePc    11 41.70   0.5
ORV    35.31 321 eP     11 41.94   0.8
NTYM   35.36 318 eP     11 41.42  -0.1
                i      11 50.02
ULM    35.82 357 eP     11 45.50   0.2
LBFM   36.64 323 eP     11 52.72   0.1
KMPM   37.44 320 ePd    12 00.63   1.5
                e      12 08.96
FHC    37.58 320 eP     12 01.71   1.5
       1.3s   136.37nm         5.7mb
VGB    38.80 329 eP     12 11.81   1.4
NEW    39.15 335 eP     12 12.43  -0.9
       1.0s   11.88nm          4.6mb
DPW    39.31 333 ePc    12 14.75   0.1
LON    40.17 329 eP     12 21.27  -0.6
GMW    41.20 329 eP     12 30.17  -0.1
CCH    41.33 139 P      12 31.00  -1.0
MCW    42.01 331 eP     12 35.99  -0.9
YKA    50.39 347 P      13 41.90  -1.0
       1.0s   43.00nm          5.4mb
BAO    53.70 122 eP     14 07.10  -1.4
PPD    54.72 131 (P)    14 13.00  -2.8
SOB1   56.89 111 eP     14 29.90  -1.7
BALM   58.39 334 eP     14 41.43  -0.2
VAO    58.53 129 (P)    14 45.00   2.0
INK    59.74 344 eP     14 50.00  -0.7
       0.8s    8.00nm          4.9mb
KLU    60.13 334 eP     14 52.96  -0.6
RES    60.29 359 eP     14 53.50  -0.8
       1.0s   17.00nm          5.1mb
PMR    61.56 333 ePc    15 02.00  -1.1
       0.9s   12.79nm          5.1mb
SLKM   61.61 332 ePc    15 02.24  -1.4
FBA    62.44 337 eP     15 06.94  -2.1
       1.3s   15.54nm          5.0mb
EKA    78.30  36 Pc     16 43.80  -1.5
       1.7s   25.90nm          5.0mb
NB2    84.33  28 P      17 17.50   0.6
       1.3s   22.30nm          5.2mb
APO    85.75  28 eP     17 23.10  -0.9
       0.6s    4.80nm          4.9mb
     Z  18s    0.47um          4.9Msz
                LR     48 08.00
TIC    86.58  84 P      17 28.63  -0.3
       1.0s   12.50nm          5.1mb
LIC    86.67  84 P      17 29.67   0.3
       1.2s   39.00nm          5.5mb
KIC    86.92  84 P      17 30.72   0.2
       1.0s   22.00nm          5.3mb
KHC    89.83  39 eP     17 45.00   1.1
       1.0s    5.40nm          4.8mb
GEC2   90.01  39 PKP    17 43.90  -0.9
GEC2   90.01  39 P      17 45.70   0.9
       0.9s    3.66nm          4.6mb
                e      17 48.90
                e      17 52.60
LZH   127.28 343 ePKP   23 55.00   4.5X
       1.2s   28.00nm
WR2   134.38 256 ePKP   24 01.80  -2.4
       0.8s    2.00nm
WRA   134.40 256 Pdiff  21 00.20  -3.9X
       0.9s    0.20nm
HYB   147.35  15 ePKP   24 29.00   1.7
       1.0s   50.00nm
GBA   150.66  19 PKP    24 36.00   3.5X
     S.D. = 1.1  on  96 of 102 obs.
-------------------------------------
?  OCT  14, 1993  06h 20m 46.91± 1.54s
    5.980 S ±11.7km  146.079 E ±27.0km
   DEPTH =  33.0km  (normal)
   4.1mb (  3 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.5 (PMG).

YYYY    0.28 203 iPc    20 52.30  -2.3
MDG     0.78 338 iPd    21 01.20  -0.3
MNDI    2.41 266 eP     21 31.80   6.6X
WWKK    3.39 314 eP     21 46.20   7.4X
PMG     3.57 163 iPc    21 41.40   0.1
WR2    17.96 218 iPd    24 56.40   0.6
       0.5s    9.00nm          4.2mb
                eS     28 00.80
ASPA   21.13 212 eP     25 33.00   1.5
       0.9s    8.60nm          4.2mb
     Z  19s    0.10um          3.2Msz
                eS     29 22.00
STK    26.11 189 eP     26 20.00   0.4
       1.1s    2.10nm          3.7mb
KIC   150.99 272 PKP    40 40.81   7.8X
       0.7s    7.50nm
TIC   151.27 273 PKP    40 41.41   7.9X
       0.5s    3.00nm
LIC   151.27 272 PKP    40 41.49   8.0X
       0.4s    2.50nm
     S.D. = 1.7  on   6 of  11 obs.
-------------------------------------
*  OCT  14, 1993  06h 31m 07.50± 1.70s
   14.003 N ±20.8km   93.283 W ± 9.6km
   DEPTH =  33.0km  (normal)
   4.0mb (  2 obs.)
 NEAR COAST OF CHIAPAS, MEXICO    ( 69)
      MD 4.5 (GCG).

TPX     1.34  48 iP     31 29.25  -0.7
                iS     31 46.75
BVA     2.65  75 iPd    31 49.50   0.4
GCG     2.73  77 iPd    31 50.66   0.5
                iS     32 28.43
IXG     2.75  86 iPd    31 50.66   0.3
                iS     32 32.14
SCX     2.79  13 iP     31 51.00   0.3
                iS     32 21.00
YUP     3.38  86 iPd    31 59.35  -0.1
OXX     4.51 313 (P)    32 22.00   6.5X
PPM     7.18 315 (P)    32 54.00   0.6
LTX    18.03 329 eP     35 18.50   1.1
ALQ    24.00 333 eP     36 20.20  -0.2
       1.0s    2.38nm          3.7mb
YKA    50.74 347 eP     40 04.00  -2.1
       0.7s    2.30nm          4.3mb
     S.D. = 1.0  on  10 of  11 obs.
-------------------------------------
   OCT  14, 1993  06h 46m 35.75± 0.31s
   12.413 N ± 6.5km  144.610 E ± 7.0km
   DEPTH =  31.6km  (  3 depth phases)
   4.9mb ( 20 obs.)  4.5Msz (  6 obs.)
 SOUTH OF MARIANA ISLANDS          (210)

GUA     1.16  15 iPc    46 56.70   0.9
GUMO    1.19  12 iPc    46 57.20   0.9
                eS     47 12.40
PJG     1.19  12 iP     46 57.20   0.9
BAG    23.60 283 ePc+   51 45.20   0.1
WR2    33.70 198 iPc    53 16.40   0.0
       0.6s   36.90nm          5.5mb
BJI    37.21 323 eP     53 45.00  -1.0
       1.0s    7.00nm          4.5mb
     Z  20s    0.30um          4.1Msz
ASPA   37.36 196 eP     53 41.40  -6.0X
       0.8s    3.60nm          4.3mb
TIY    38.20 317 eP     53 54.00  -0.5
     Z  22s    1.03um          4.6Msz
GYA    38.25 297 P      53 56.60   1.5
       1.0s   16.00nm          4.8mb
XAN    38.93 310 P      54 00.50  -0.1
     Z  20s    0.60um          4.4Msz
BTO    41.34 319 eP     54 20.00  -0.4
KMI    41.44 294 Pc     54 22.50   0.9
       1.4s   60.00nm          5.1mb
                pP     54 33.50  39km
ARMA   43.12 171 eP     54 34.30  -0.8
LZH    43.57 310 eP     54 38.50  -0.3
       1.5s   53.00nm          5.1mb
     Z  20s    0.50um          4.4Msz
                pP     54 47.50  30km
```

```
IPM     43.75 264 ePd   54 43.00   2.6
         1.0s    45.00nm          5.2mb
STK     44.14 184 eP    54 42.70  -0.4
         1.4s     2.60nm          3.9mb X
GTA     47.77 313 Pc    55 11.70  -0.5
         1.0s    15.00nm          5.0mb
      Z  22s      0.82um          4.7Msz
                  pP    55 19.50  26km
                  PcP   56 41.80
                  ScP   00 34.00
                  PcS   00 36.00
                  S     02 03.00
TOO     49.72 179 iPc   55 28.00   1.0
MRWA    49.76 213 iPc   55 28.10   0.6
         0.8s    17.00nm          5.1mb
LSA     52.31 298 eP    55 48.20   0.7
         0.8s    11.00nm          4.9mb
WMQ     57.77 314 iPd   56 25.00  -1.4
         1.0s    14.00nm          5.0mb
      Z  18s      1.05um          5.0Msz
SDN     60.25  33 eP    56 41.20  -2.0
         0.6s    20.52nm          5.4mb
GBA     65.27 279 P     57 17.20   0.0
         0.6s     3.00nm          4.6mb
SLKM    67.13  29 ePd   57 26.36  -2.1
PMR     67.93  28 eP    57 31.26  -2.1
         0.8s    14.37nm          5.1mb
POO     68.10 285 eP    57 35.50   0.3
FBA     69.39  25 eP    57 39.67  -2.7
         0.6s     2.36nm          4.4mb
KLU     69.40  29 eP    57 41.40  -1.2
BALM    71.02  29 eP    57 50.77  -1.7
INK     75.54  22 eP    58 19.00   0.4
         1.0s     3.00nm          4.3mb
MAIO    78.87 305 iPc   58 38.00   0.1
BMW     82.59  44 eP    58 58.36   1.0
GMW     82.70  43 eP    58 58.84   1.0
SHW     83.32  44 eP    59 02.50   1.3
RMW     83.37  43 eP    59 04.63   3.3X
YKA     84.01  27 eP    59 03.60  -0.5
         0.7s     3.10nm          4.6mb
VGB     84.45  45 eP    59 07.55   0.8
LBFM    84.51  49 eP    59 08.70   1.3
DPW     85.66  42 eP    59 13.50   0.7
RES     85.75  13 eP    59 13.50   0.9
         1.0s     5.00nm          4.7mb
NEW     86.27  42 eP    59 16.69   0.9
         0.8s    49.89nm          5.8mb
BCH     87.22  55 (P)   59 20.45  -0.3
GSC     89.79  54 eP    59 34.69   1.7
LRM     90.02  43 eP    59 34.60   0.5
DUG     91.47  48 eP    59 41.74   1.0
         1.0s     6.24nm          5.0mb
KAF     91.68 336 iP    59 40.10  -0.9
ARUT    91.72  51 eP    59 42.17   0.2
MSU     92.45  50 (P)   59 46.95   1.6
SRU     93.49  49 (P)   59 51.05   1.0
PV10    94.83  49 eP    59 56.98   0.6
RTCB   143.87 127 iPKPc 06 09.00  -1.3
RTLL   144.19 127 iPKPd 06 09.50  -1.3
CFA    144.26 128 ePKPc 06 09.70  -1.1
KIC    144.28 300 PKP   06 09.85  -1.5
         0.7s    14.50nm
TIC    144.36 300 PKP   06 10.01  -1.5
         0.4s     6.50nm
LIC    144.59 300 PKP   06 10.67  -1.2
         0.6s    24.00nm
ARE    144.84 101 ePKP  06 14.00   1.5
LPB    148.09 101 PKP   06 23.00   5.0X
CCH    149.90 103 PKP   06 26.00   5.3X
     S.D. = 1.2  on  55 of  59 obs.
-----------------------------------
?  OCT  14, 1993  06h 55m 01.53± 1.43s
    6.070 S ±11.0km  146.080 E ±25.3km
   DEPTH =  33.0km  (normal)
   3.6mb (  1 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.0 (PMG).

YYYY     0.20 213 eP    55 07.10  -1.2
MDG      0.87 340 eP    55 17.40   0.1
PMG      3.48 162 eP    55 55.00   0.3
WR2     17.89 218 eP    59 10.50   0.9
         1.0s     3.10nm          3.4mb X
ASPA    21.06 213 eP    59 50.90   5.6X
         0.9s     2.70nm          3.6mb
KIC    150.99 272 PKP   14 54.72   7.1X
         0.9s    11.00nm
TIC    151.27 273 PKP   14 55.14   7.1X
         0.6s     4.50nm
LIC    151.27 272 PKP   14 55.32   7.3X
         0.6s     6.50nm
     S.D. = 1.6  on   4 of   8 obs.
-----------------------------------
?  OCT  14, 1993  07h 03m 24.14± 4.16s
   36.869 N ±43.4km   29.068 E ±11.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)

CIN      1.07 313 iPgc  03 45.00   0.7
                  iSg   04 00.00
BCK      1.35  64 ePn   03 49.20   0.1
KHL      1.50  14 ePn   03 51.00  -0.1
IZM      2.09 317 ePn   03 59.00  -0.7
     S.D. = 1.1  on   4 of   4 obs.
-----------------------------------
   OCT  14, 1993  07h 18m 23.61± 1.85s
    5.528 N ± 7.3km   94.722 E ± 8.6km
   DEPTH =  77.5 ± 17.1 km
   4.8mb ( 16 obs.)
 NORTHERN SUMATERA, INDONESIA    (706)

IPM      6.35  98 ePd   19 56.60   0.0
                  eS    21 06.00
KGM      9.26 112 eP    20 36.00  -0.6
GBA     18.83 296 P     22 40.10   0.0
         0.8s     7.00nm          4.0mb
HYB     19.74 308 eP    22 49.50  -0.5
         1.0s    30.00nm          4.6mb
                  e     23 05.00
QIZ     19.93  46 Pc    22 52.60   0.7
KMI     20.95  21 Pc    23 04.50   2.0
         1.0s    60.00nm          4.9mb
GYA     23.73  27 P     23 30.40   0.6
         1.0s    62.00nm          5.0mb
POO     24.12 304 eP    23 36.50   3.0X
LSA     24.28 352 eP    23 36.40   1.0
CD2     26.64  18 eP    23 55.60  -1.3
NDI     28.38 326 eP    24 26.00  13.3X
XAN     31.28  23 P     24 37.00  -1.4
LZH     31.55  14 eP    24 37.50  -3.4X
         1.1s    27.00nm          4.9mb
      Z  20s      0.74um          4.4Msz
GTA     34.04   7 Pc    25 01.00  -1.5
         1.0s    11.00nm          4.7mb
                  PcP   27 39.00
                  S     30 23.00
NJ2     34.72  38 Pd    25 08.60   0.4
TIA     36.82  31 eP    25 25.80  -0.1
HHC     38.27  21 Pd    25 39.00   0.8
         1.0s    21.00nm          5.0mb
BJI     39.41  26 eP    25 48.50   1.0
         1.1s    16.00nm          4.9mb
WRA     46.46 124 P     26 45.20   0.3
         0.9s     7.20nm          4.6mb
ASPA    47.99 129 iPc   26 56.70  -0.2
         0.4s    31.80nm          5.6mb
      Z  20s      0.50um          4.5Msz
                  iS    33 47.60
QIS     51.13 122 eP    27 21.00   0.0
STK     58.09 133 iPc   28 10.90  -0.5
         1.0s     5.10nm          4.6mb
BWA     64.32 132 e(P)  29 06.40  12.9X
                  i     29 10.50
CAN     65.15 133 eP    28 56.50  -2.3
                  e     29 03.80
                  i     29 33.90
CNB     65.42 133 eP    29 00.70   0.2
OBN     67.64 328 ePc   29 30.00  15.8X
         1.1s    23.00nm
VRI     70.79 317 ePc   29 33.50  -0.3
MLR     71.25 316 ePd   29 36.00  -0.7
SLR     71.49 241 iPc   29 38.20  -0.3
         0.8s    20.00nm          5.1mb
CSY     72.55 173 eP    29 46.10   2.3
         0.8s     5.10nm          4.5mb
SEK     72.76 238 eP    29 40.00  -6.0X
ZST     77.65 318 iP    30 13.00  -0.2
SUR     79.49 236 eP    30 26.00   2.2
         1.0s    64.00nm          5.5mb
GEC2    79.95 318 P     30 26.00   0.1
         0.7s     6.55nm          4.7mb
                  e     30 29.10
KHC     80.05 319 eP    30 22.50  -3.8X
                  e     30 25.50
APO     80.68 330 eP    30 28.00  -1.3
         0.5s     2.00nm          4.3mb
PPD    143.29 240 (PKP) 37 50.00  -1.5
LPB    159.92 236 PKP   38 17.00   0.9
                  e     38 57.00
     S.D. = 1.1  on  31 of  38 obs.
-----------------------------------
&  OCT  14, 1993  07h 25m 13.62s
   32.377 N          115.063 W
   DEPTH =   6.0km  (geophysicist)
 CALIF.-BAJA CALIF. BORDER REGION( 45)
      <PAS-P>. ML 2.9 (PAS).

GLA      0.70  16 ePd   25 25.97  -1.7
PLM      1.80 303 eP    25 45.66   0.1
SSK      2.86 310 (Pn)  26 01.47   0.6
GSC      3.26 334 (Pn)  26 06.05  -0.3
         4 obs. associated
-----------------------------------
%  OCT  14, 1993  07h 28m 52.45± 1.05s
   40.349 N ±11.8km   28.867 E ± 5.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.6 (ISK).

BNT      0.72 271 iPg   29 06.00  -0.7
                  eSg   29 17.00
ISK      0.73  11 iPg   29 07.00   0.2
                  eSg   29 16.50
EDC      0.77 270 iPg   29 06.90  -0.5
                  iSg   29 17.90
HRT      0.77  52 ePg   29 07.00  -0.5
CTT      0.86 338 iPg   29 09.00  -0.1
                  eSg   29 20.00
EYL      1.01  77 iPn   29 12.00   0.4
KGT      1.20 275 ePn   29 16.00   1.2
     S.D. = 0.8  on   7 of   7 obs.
-----------------------------------
*  OCT  14, 1993  08h 01m 30.66± 0.94s
    5.896 S ±10.2km  146.046 E ±24.3km
   DEPTH =  33.0km  (normal)
   4.3mb (  4 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.5 (PMG).

YYYY     0.35 193 iPd   01 37.60  -1.7
MDG      0.69 338 iPc   01 44.50   0.5
MNDI     2.39 264 eP    02 15.50   7.0X
WWKK     3.31 313 eP    02 29.20   7.8X
PMG      3.66 163 eP    02 27.50   1.2
WR2     18.00 218 eP    05 40.70   0.5
         0.6s     9.30nm          4.1mb
ASPA    21.19 212 iPd   06 20.30   4.6X
         0.8s    18.80nm          4.5mb
                  eS    10 24.70
STK     26.19 189 eP    07 05.90   1.8
         0.6s     1.40nm          3.7mb
FBA     85.46  23 ePd   14 06.80   0.8
         1.0s    12.00nm          5.1mb
RSTA   146.27 155 ePKP  21 07.80  -1.4
PPD    147.45 149 ePKP  21 09.30  -1.8
KIC    150.95 272 PKP   21 23.99   7.3X
         0.7s    14.00nm
TIC    151.23 273 PKP   21 24.45   7.3X
         0.5s    14.00nm
LIC    151.24 272 PKP   21 24.49   7.4X
         0.5s    19.50nm
     S.D. = 1.7  on   8 of  14 obs.
-----------------------------------
?  OCT  14, 1993  08h 23m 59.83± 1.42s
   39.115 N ± 8.2km   27.651 E ±18.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.7 (ISK).

IZM      0.78 203 ePg   24 15.00   0.0
                  eSg   24 28.00
EDC      1.24   8 ePn   24 22.40  -0.5
EZN      1.25 305 ePn   24 22.80  -0.2
KGT      1.36 349 iPn   24 25.50   0.7
     S.D. = 0.9  on   4 of   4 obs.
-----------------------------------
?  OCT  14, 1993  09h 24m 09.12± 2.13s
   39.083 N ±10.6km   27.823 E ±27.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
```

14d 09h

```
      ML 2.6 (ISK).

IZM      0.81 213 ePg    24 24.90    0.0
                  eSg    24 38.90
EDC      1.26   1 ePn    24 32.00   -0.6
EZN      1.38 303 ePn    24 34.00   -0.3
KGT      1.42 344 iPn    24 35.90    0.9
     S.D. = 1.1  on   4 of   4 obs.
-----------------------------------
*  OCT  14, 1993  09h 32m 40.20± 1.63s
   36.886 S ±11.5km  178.032 E ±17.0km
   DEPTH = 179.1 ± 10.1 km
   4.8mb (  2 obs.)
 OFF E. COAST OF N. ISLAND, N.Z. (160)

HBZ      0.74 163 P      33 05.10   -1.2
WIZ      0.93 226 P      33 06.40   -1.1
PUZ      1.20 171 Pc     33 09.50   -0.2
                  S      33 31.80
URZ      1.55 208 Pc     33 13.10    0.2
                  S      33 38.90
NOZ      1.73 180 Pc     33 15.90    1.3
TAZ      1.81 222 P      33 17.20    1.7
KUZ      1.86 274 Pd     33 14.20   -1.8
                  S      33 39.70
UTU      1.95 228 P      33 18.70    1.7
PATZ     2.05 223 P      33 19.90    1.7
PAHZ     2.12 201 P      33 20.00    1.1
WLZ      2.17 242 P      33 20.30    0.8
                  S      33 50.50
MAHZ     2.30 183 P      33 21.90    1.0
TTH      2.82 199 P      33 27.90    0.9
NGZ      2.99 219 P      33 30.50    1.3
MOZ      3.03 237 P      33 31.80    2.2
CNZ      3.03 220 eP     33 30.80    1.0
WAHZ     3.10 205 P      33 30.80    0.2
TEHZ     3.24 197 P      33 32.30    0.0
BSZ      3.79 219 P      33 40.70    1.5
OUZ      3.96 293 P      33 38.70   -2.6
PGZ      3.97 200 P      33 40.90   -0.6
MNG      4.23 207 P      33 43.70   -1.1
                  S      34 35.30
MTW      4.70 204 P      33 49.40   -1.5
CAW      4.81 208 eP     33 50.30   -2.0
BLW      4.90 203 eP     33 52.40   -1.1
MRW      5.05 210 eP     33 54.00   -1.5
                  S      34 53.40
DIW      5.06 218 eP     33 54.90   -0.7
WEL      5.07 209 P      33 55.10   -0.6
                  S      34 54.20
TCW      5.22 213 eP     33 55.30   -2.3
LTZ      7.37 215 eP     34 24.80   -1.3
                  eS     35 45.50
MQZ      7.96 209 eP     34 30.40   -3.4X
                  S      35 57.50
ASPA    39.99 277 iPc    40 00.00    1.2
         0.6s    26.50nm          5.0mb
                  eS     45 57.30
WRA     41.58 282 P      40 13.60    1.7
         0.5s     7.40nm          4.5mb
LIC    149.35 174 PKP    52 13.40    8.4X
NUR    150.93 333 iPKP   52 11.60    5.7X
         0.4s     6.20nm
     S.D. = 1.5  on  32 of  35 obs.
-----------------------------------
%  OCT  14, 1993  09h 40m 55.90± 1.33s
   39.247 N ± 7.2km   27.866 E ±15.1km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.8 (ISK).

IZM      0.97 209 ePg    41 14.40    0.0
EDC      1.10 360 ePn    41 16.40   -0.1
BNT      1.11   2 ePn    41 16.90    0.2
KGT      1.28 340 iPn    41 19.90    0.3
EZN      1.32 296 ePn    41 20.30    0.0
MFT      1.60 344 ePn    41 24.00   -0.4
     S.D. = 0.3  on   6 of   6 obs.
-----------------------------------
*  OCT  14, 1993  09h 41m 09.32± 1.59s
   15.183 N ±24.0km   94.634 W ±13.5km
   DEPTH =  33.0km  (normal)
   4.3mb (  7 obs.)
 NEAR COAST OF OAXACA, MEXICO     ( 66)

TPX      2.31  97 iP     41 47.50    1.7
SCX      2.47  51 eP     41 52.00    3.9X
                  iS     42 24.50
OXX      2.76 314 iP     41 53.50    1.2
                  iS     42 24.50
LVVM     4.85 339 (P)    42 20.00   -1.8
ACX      5.30 289 (P)    42 24.50   -3.7X
PPM      5.43 316 eP     42 33.00    2.4
III      5.61 305 eP     42 31.00   -1.9
UNM      5.99 314 eP     42 38.00   -0.3
CRX      6.39 312 eP     42 45.00    1.0
MRX      7.71 307 eP     43 01.50   -0.6
LTX     16.36 331 eP     44 58.13   -0.2
WMOK    19.83 350 eP     45 38.74   -1.5
         0.8s     7.92nm          4.1mb
TUL     20.67 357 iP     45 53.30    4.3X
ACO     21.80 350 iPc    46 03.10    2.6X
MYNC    21.94  24 eP     45 58.97   -2.9
         0.6s     4.49nm          4.1mb
TUC     22.51 322 eP     46 10.90    3.3X
         1.0s    12.09nm          4.3mb
CEH     24.87  31 (P)    46 24.57   -5.8X
         1.2s    14.43nm          4.4mb
GLA     25.53 318 (P)    46 41.02    4.3X
GOL     26.17 341 eP     46 44.06    1.2
         1.0s     8.09nm          4.3mb
HVU     30.79 333 eP     47 25.78    1.4
LRM     34.02 338 ePc    47 53.80    1.2
                  e      48 32.80
ULM     34.99 359 eP     48 01.50    1.0
YKA     49.32 348 eP     49 57.50    0.5
         0.6s     3.20nm          4.5mb
INK     58.60 344 eP     51 06.00    1.0
         1.0s     3.00nm          4.3mb
RES     59.50 360 eP     51 11.00   -0.2
CNB    119.73 238 iPKPc  00 12.80   14.6X
         0.7s    13.00nm
STK    126.40 241 ePKP   00 30.40   19.4X
         8.0s     8.70nm
WR2    133.17 257 iPKPd  00 38.40   14.2X
         0.7s     6.40nm
                  iSKP   01 54.10
                  ePP    02 16.20
WRA    133.19 257 PKP    00 21.20   -3.1
         0.6s     0.20nm
ASPA   133.64 252 iPKPc  00 50.10   25.0X
         0.9s     5.00nm
                  iPP    02 27.20
GBA    150.34  16 PKP    01 00.00    5.8X
     S.D. = 1.7  on  19 of  31 obs.
-----------------------------------
%  OCT  14, 1993  09h 43m 04.32± 1.48s
   39.136 N ± 9.8km   27.663 E ±35.3km
   DEPTH =   5.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.8 (ISK).

IZM      0.80 203 ePg    43 20.40    0.0
                  eSg    43 32.90
EDC      1.22   7 ePn    43 27.40   -0.1
BNT      1.23   9 ePn    43 27.90    0.2
KGT      1.34 348 iPn    43 29.90    0.3
MFT      1.67 350 ePn    43 34.00   -0.5
     S.D. = 0.4  on   5 of   5 obs.
-----------------------------------
   OCT  14, 1993  09h 54m 17.79± 0.48s
   10.959 S ± 7.0km  165.918 E ± 8.4km
   DEPTH =  33.0km  (normal)
   5.1mb (  8 obs.)
 SANTA CRUZ ISLANDS                (184)

HNR      6.07 284 eP     55 47.00   -0.6
BKM      7.04 162 iP     56 02.50    1.2
DZM     11.06 177 iPc    56 55.90   -1.0
                  iS     58 56.90
BRS     20.50 215 iP     58 56.00    0.2
CTA     20.99 242 iPd    59 01.00    0.1
ARMA    23.48 212 iPd    59 26.50    0.9
         0.9s    25.00nm          4.7mb
QIS     27.02 246 eP     59 58.40   -0.7
                  e      02 25.40
PUZ     29.18 160 eP     00 17.90   -0.4
MNG     30.73 166 P      00 30.70   -1.4
PGZ     30.93 165 P      00 32.60   -1.2
THZ     31.29 170 P      00 37.50    0.4
                  e      00 45.10
WRA     31.67 250 P      00 57.80   17.2X
         1.7s     2.80nm
WRA     31.67 250 P      00 33.50   -7.1X
         0.6s     0.20nm          3.2mb X
TOO     32.23 211 iPc    00 45.20   -0.2
         0.6s    20.00nm          5.2mb
MQZ     33.15 171 P      00 52.20   -0.9
BWZ     33.63 175 P      00 58.40    1.1
TUZ     35.02 175 P      01 10.30    1.0
MRWA    49.88 241 eP     03 09.20   -1.1
         0.7s    13.00nm          5.1mb
LEM     57.68 269 ePd    04 08.50    0.4
IPM     66.40 280 ePc    05 06.40    0.1
         1.0s    28.40nm          5.3mb
CSY     66.53 201 ePKP   05 06.80    0.5
         0.6s    19.90nm          5.4mb
KMI     71.22 301 Pd     05 37.50    1.2
         1.4s    40.00nm          5.3mb
                  pP     05 50.00   43kmX
AUP     77.33  20 (P)    06 09.48   -1.2
KLU     81.46  21 ePc    06 34.52    1.6
                  e      06 39.59
FBA     83.19  18 eP     06 41.78    0.1
         0.8s     8.29nm          4.9mb
                  e      06 56.38
CMB     84.16  50 (P)    06 45.46   -1.8
         0.8s     3.03nm          4.5mb
SOB1   146.64 126 ePKP   13 58.80    1.7
     S.D. = 1.1  on  25 of  27 obs.
-----------------------------------
%  OCT  14, 1993  09h 57m 27.32± 1.33s
   39.642 N ± 9.7km   29.392 E ±15.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.8 (ISK).

ALT      0.81 136 ePg    57 43.00   -0.1
                  eSg    57 54.70
EYL      1.09  32 ePn    57 48.40    0.5
HRT      1.20  10 ePn    57 49.00   -0.7
ISK      1.44 350 ePn    57 53.50    0.0
CTT      1.67 334 ePn    57 57.00    0.2
     S.D. = 0.6  on   5 of   5 obs.
-----------------------------------
%  OCT  14, 1993  10h 00m 36.17± 0.87s
   39.668 N ± 8.0km   29.456 E ± 8.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.7 (ISK).

ALT      0.80 140 ePg    00 51.70    0.0
                  eSg    01 03.20
EYL      1.05  31 iPn    00 55.90   -0.1
HRT      1.16   8 ePn    00 58.00    0.1
BNT      1.36 301 ePn    01 00.90   -0.3
EDC      1.40 299 ePn    01 02.00    0.3
     S.D. = 0.3  on   5 of   5 obs.
-----------------------------------
?  OCT  14, 1993  10h 04m 29.69± 8.86s
   39.224 N ±70.7km   29.758 E ±30.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.9 (ISK).

EYL      1.37  13 iPn    04 55.00    0.0
BNT      1.81 309 ePn    05 00.90   -0.3
EDC      1.84 308 ePn    05 01.40   -0.2
ISK      1.92 344 ePn    05 02.50   -0.1
CTT      2.17 333 ePn    05 06.50    0.1
MFT      2.46 310 ePn    05 11.00    0.4
     S.D. = 0.3  on   6 of   6 obs.
-----------------------------------
?  OCT  14, 1993  10h 14m 43.17± 0.77s
   50.237 S ±13.4km  139.055 E ±26.9km
   DEPTH =  10.0km  (geophysicist)
   4.6mb (  6 obs.)
 SOUTH OF AUSTRALIA                (437)

TOO     13.48  22 eP     17 54.00   -2.8
         0.9s    15.00nm          5.0mb
ADE     15.26 359 e(P)   18 23.90    3.6X
CAN     16.57  30 eP     18 36.90   -0.2
CNB     16.70  31 eP     18 40.50    1.8
BWA     17.23  27 eP     18 45.70    0.4
STK     18.44   7 iPc    19 01.50    1.2
         2.0s     4.70nm          3.3mb X
                  eS     23 46.00
CSY     21.68 212 eP     19 37.20    1.7
         0.9s    27.70nm          4.7mb
                  ipP    19 56.10   88kmX
```

```
ARMA   21.94  30 eP    19 39.00   0.4
        0.9s    13.00nm          4.4mb
ASPA   26.83 349 eP    20 25.10  -0.3
        0.9s     7.10nm          4.4mb
     Z  22s     0.30um          3.8Msz
                 eS    24 07.90
WR2    30.45 351 eP    20 57.20  -0.9
        0.8s    12.50nm          4.8mb
WRA    30.46 351 P     20 51.80  -6.3X
        0.7s     0.40nm          3.4mb X
SPA    39.95 180 iPc   22 16.80  -2.2
        0.9s    10.45nm          4.5mb
BUL    87.04 242 iPc   27 34.00   3.7X
MCW   129.35  58 ePKP  33 56.93   4.3X
MSU   129.60  75 ePKP  33 56.00   2.3
GEC2  145.18 289 PKP   34 21.80   0.0
        1.5s     7.44nm
                  e    34 30.70
MYNC  145.34  99 ePKP  34 22.04  -0.4
KHC   145.37 290 ePKP  34 21.00  -1.0
        1.0s     3.50nm
                  e    34 43.00
RES   147.08  23 ePKP  34 28.00   4.0X
        1.0s     3.00nm
     S.D. = 1.6  on  14 of  19 obs.
-----------------------------------
?  OCT  14, 1993  10h 29m 18.39± 2.75s
   36.797 N ±30.5km   29.060 E ±14.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
     ML 3.2 (ISK).

ELL     0.68  94 ePg   29 32.00   0.0
                 eSg   29 43.00
CIN     1.12 316 eP    29 41.00   1.7
BCK     1.39  61 ePn   29 44.30   0.4
KHL     1.57  13 ePn   29 46.00  -0.4
IZM     2.14 319 ePn   29 53.00  -1.7
     S.D. = 1.7  on   5 of   5 obs.
-----------------------------------
&  OCT  14, 1993  10h 42m 40.08s
   60.009 N          153.216 W
   DEPTH = 127.3km
 SOUTHERN ALASKA                   (  2)
     <AEIC>.

INE     0.09  56 eP    42 56.92   0.7
                 eS    43 10.73
ILIM    0.15  61 eP    42 56.67   0.5
                 eS    43 10.08
OPT     0.36 181 iP    42 57.56   0.7
                 eS    43 11.25
RED     0.47  28 eP    42 58.38  -0.6
RS2     0.51  26 P     42 59.20  -0.2
RDW     0.52  23 eP    42 58.66  -0.8
                 eS    43 13.53
PDB     0.54 246 eP    42 58.32  -1.0
                 eS    43 12.58
REF     0.55  28 eP    42 58.72  -0.9
                 eS    43 12.99
NCT     0.57  14 eP    42 58.87  -0.8
                 eS    43 13.16
AUL     0.64 190 eP    42 59.17  -0.8
                 eS    43 14.70
DFR     0.64  24 eP    42 59.10  -1.0
AUW     0.65 192 iP    42 59.26  -0.8
AUE     0.66 187 iP    42 59.04  -1.0
AUH     0.66 190 iP    42 59.33  -0.9
AUP     0.66 189 iPc   42 59.00  -1.2
AGU     0.66 190 eP    42 59.20  -1.1
AUI     0.68 189 eP    42 59.26  -1.0
                 eS    43 14.12
RDT     0.70  35 iP    42 59.55  -0.9
HOM     0.87 113 iP    43 01.08  -0.7
                 eS    43 17.35
CDD     1.10 192 iP    43 02.73  -1.4
                 eS    43 21.26
CNPM    1.11 115 iP    43 02.95  -1.2
                 eS    43 20.33
BKG     1.16  23 iP    43 04.06  -0.7
                 eS    43 22.84
BRLK    1.20 101 eP    43 04.05  -1.0
                 eS    43 22.29
NKA     1.23  52 eP    43 06.01   0.7
CKL     1.27  20 iP    43 05.30  -0.6
CKT     1.30  22 iP    43 05.39  -0.8
SPU     1.31  25 iP    43 05.41  -0.9
CKN     1.32  22 eP    43 06.04  -0.4
BGL     1.32  18 eP    43 06.10  -0.4
CP2     1.35  20 iP    43 06.45  -0.4
CRP     1.37  22 iP    43 06.51  -0.5
                 eS    43 27.37
CGLM    1.43  24 iP    43 07.00  -0.7
NCG     1.49  20 eP    43 07.79  -0.6
SLKM    1.57  70 eP    43 07.80  -1.5
SVW     1.62 314 iPc   43 08.36  -1.5
SEW     1.89  85 eP    43 11.62  -1.3
MPA     1.98  74 eP    43 12.65  -1.4
SKT     2.14  22 eP    43 15.36  -0.8
                 eS    43 42.56
PMS     2.19  54 P     43 15.30  -1.4
KDC     2.30 170 eP    43 14.93  -3.1
                 eS    43 43.45
PWA     2.32  43 P     43 17.80  -0.6
PLRM    2.56  50 eP    43 20.19  -1.2
PMR     2.56  50 eP    43 19.38  -2.0
                 eS    43 48.40
PWL     2.57  68 eP    43 18.93  -2.6
LTI     2.69  87 eP    43 21.43  -1.7
KNK     2.73  57 eP    43 21.22  -2.5
GHO     2.74  48 eP    43 21.74  -2.2
CUT     2.80  29 eP    43 23.23  -1.3
CFI     2.93  64 eP    43 23.23  -3.1
SML     2.99  51 eP    43 24.54  -2.6
HIN     3.37  80 eP    43 30.47  -1.8
SCM     3.41  55 eP    43 30.22  -2.5
FID     3.43  75 eP    43 30.61  -2.3
VZW     3.46  69 eP    43 31.27  -2.1
VLZ     3.58  69 eP    43 33.45  -1.4
KTH     3.72  16 eP    43 35.76  -1.1
TRF     3.72  21 eP    43 35.65  -1.4
KLU     3.88  64 eP    43 36.24  -2.8
SGAM    4.02  79 eP    43 38.78  -2.1
DHY     4.16  40 eP    43 40.59  -2.3
BALM    5.47  74 eP    43 58.30  -2.3
                 eS    44 56.29
IL1     5.61  29 iP    43 59.59  -2.8
ILB     5.61  29 eP    43 59.21  -3.2
IM3     6.00 358 eP    44 06.56  -1.2
BC3     6.26  56 eP    44 09.18  -2.2
        65 obs. associated
-----------------------------------
*  OCT  14, 1993  11h 00m 22.27± 0.85s
    5.926 S ± 8.5km  146.058 E ±14.4km
   DEPTH =  33.0km  (normal)
   4.4mb (  3 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
     ML 4.9 (PMG).

YYYY    0.33 196 iPc   00 28.60  -1.9
MDG     0.73 338 ePd   00 36.20   0.2
MNDI    2.40 264 eP    01 07.00   6.7X
WWKK    3.33 313 eP    01 20.90   7.5X
PMG     3.63 163 eP    01 17.50   0.0
KVG     5.79  55 eP    01 48.10   0.0
CTA    14.08 179 iPc   03 44.00   2.4
        1.0s    10.00nm          4.5mb
WR2    17.99 218 eP    04 32.40   0.8
        0.6s     4.40nm          3.8mb X
                 eS    07 48.40
ASPA   21.17 212 eP    05 11.00   3.8X
        1.1s     8.40nm          4.1mb
     Z  18s     0.30um          3.7Msz
                 eS    08 55.70
BRS    22.28 164 iPc   05 17.50  -0.8
ARMA   24.92 169 eP    05 44.30   0.3
        0.6s     7.00nm          4.4mb
STK    26.16 189 eP    05 54.50  -0.9
        1.1s     1.60nm          3.5mb X
KIC   150.97 272 PKP   20 15.55   7.2X
        0.9s    17.50nm
TIC   151.24 273 PKP   20 16.15   7.4X
        0.6s     5.00nm
LIC   151.25 272 PKP   20 16.23   7.5X
        0.5s     5.50nm
     S.D. = 1.4  on   9 of  15 obs.
-----------------------------------
?  OCT  14, 1993  11h 06m 32.60± 1.07s
   39.474 N ±10.8km   22.494 E ±20.4km
   DEPTH =  33.0km  (normal)
 GREECE                            (364)

AGG     0.47 196 iPg   06 42.78   0.0
                 eSg   06 50.98
LIT     0.63 360 ePg   06 49.78   4.8X
                 eSg   07 04.26
PAIG    1.02  63 ePg   06 50.70   0.1
SOH     1.50  26 ePb   06 57.22  -0.3
KNT     1.71  10 ePn   07 00.78   0.2
     S.D. = 0.4  on   4 of   5 obs.
-----------------------------------
&  OCT  14, 1993  12h 00m 54.82s
   59.822 N          151.965 W
   DEPTH =  66.9km
 KENAI PENINSULA, ALASKA           ( 14)
     <AEIC>. ML 2.9 (AEIC).

HOM     0.23 135 iPc   01 05.01  -0.3
XLV     0.39 161 iPc   01 05.56  -1.0
                 eS    01 14.01
CNPM    0.47 128 iPc   01 06.78  -0.5
                 eS    01 16.30
BRLK    0.55  96 eP    01 07.54  -0.5
                 eS    01 17.22
ILIM    0.56 298 ePc   01 07.18  -1.1
                 eS    01 17.31
INE     0.60 294 eP    01 07.47  -1.3
OPT     0.66 256 iPc   01 08.35  -1.0
                 eS    01 19.55
RED     0.72 326 iPc   01 09.44  -0.6
                 eS    01 20.96
RSO     0.75 329 eP    01 10.01  -0.6
RS2     0.76 329 eP    01 09.99  -0.6
                 eS    01 21.16
REF     0.76 331 iPd   01 09.95  -0.7
                 eS    01 22.07
RDT     0.79 344 iPd   01 09.94  -0.9
                 eS    01 22.04
RDW     0.79 328 ePd   01 10.30  -0.6
                 eS    01 22.57
DFR     0.85 335 eP    01 10.79  -0.9
                 eS    01 23.79
AUE     0.85 238 iPd   01 10.81  -0.7
AUL     0.87 240 eP    01 11.13  -0.6
AUP     0.87 239 iPc   01 11.03  -0.9
                 eS    01 24.16
AGU     0.88 239 eP    01 11.29  -0.7
AUH     0.88 239 iPd   01 11.35  -0.6
NCT     0.88 327 eP    01 11.40  -0.7
                 eS    01 24.91
AUI     0.89 237 eP    01 11.16  -0.9
AUW     0.89 240 eP    01 11.43  -0.6
NKA     0.99  21 iPd   01 14.47   1.2
SLKM    1.11  51 eP    01 14.21  -0.7
PDB     1.13 269 iPc   01 13.78  -1.3
                 eS    01 28.66
CDD     1.24 225 ePd   01 15.50  -1.1
                 eS    01 31.58
BKG     1.26 353 iPd   01 16.41  -0.5
                 eS    01 33.10
SEW     1.30  76 eP    01 17.78   0.5
SPU     1.37 358 iPd   01 17.79  -0.5
                 eS    01 35.94
CKT     1.39 355 eP    01 18.13  -0.5
CKL     1.39 353 eP    01 18.36  -0.4
CKN     1.41 356 eP    01 18.90   0.0
CRP     1.45 356 iPd   01 18.75  -0.9
                 eS    01 39.00
CP2     1.45 355 eP    01 19.18  -0.5
                 eS    01 39.43
BGL     1.46 352 eP    01 19.51  -0.2
MPA     1.46  62 eP    01 19.69   0.1
CGLM    1.49 359 ePd   01 19.80  -0.3
NCG     1.59 357 ePd   01 21.38  -0.1
PMS     1.86  39 P     01 24.80  -0.3
LTI     2.08  82 eP    01 26.83  -1.3
PWL     2.08  58 iPd   01 27.03  -1.1
KDC     2.10 188 eP    01 25.93  -2.4
PWA     2.10  28 P     01 28.00  -0.4
SVW     2.22 307 P     01 28.60  -1.6
PLRM    2.26  37 eP    01 29.38  -1.2
PMR     2.26  37 ePd   01 29.10  -1.4
KNK     2.35  46 eP    01 30.71  -1.2
GHO     2.46  36 eP    01 32.40  -1.1
CFI     2.49  55 eP    01 32.09  -1.6
SML     2.67  40 eP    01 35.04  -1.4
CUT     2.72  17 eP    01 36.43  -0.6
HIN     2.80  76 eP    01 35.82  -2.3
FID     2.89  69 eP    01 36.39  -3.0
VZW     2.96  63 eP    01 38.24  -2.2
SCM     3.04  46 eP    01 40.69  -0.9
```

14d 12h

```
VLZ     3.08  62 eP    01 40.01  -2.1
KLU     3.42  58 eP    01 44.94  -1.9
TRF     3.73  12 eP    01 49.68  -1.7
KTH     3.78   7 eP    01 51.00  -0.9
FBA     5.45  19 eP    02 13.35  -2.0
IL1     5.50  23 eP    02 14.05  -2.0
ILB     5.50  23 eP    02 14.06  -2.0
BC3     5.87  52 eP    02 19.73  -1.5
IM3     6.24 353 eP    02 24.39  -1.9
        64 obs. associated
-------------------------------------
%  OCT  14, 1993  12h 02m 05.04± 1.57s
   40.777 N ±15.6km   29.993 E ±14.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 3.0 (ISK).

EYL     0.24 149 iPg   02 10.40   0.1
                eSg    02 13.90
HRT     0.25 280 iPg   02 10.00  -0.4
                eSg    02 15.00
GPA     0.54 154 iPg   02 15.50  -0.5
                iSg    02 24.70
ISK     0.76 292 iPg   02 19.00  -0.9
EDC     1.68 256 ePn   02 34.40  -0.2
ALT     1.72 177 ePn   02 35.70   0.4
DMK     1.98 303 ePn   02 39.80   0.8
KGT     2.07 262 ePn   02 41.00   0.7
     S.D. = 0.7  on   8 of   8 obs.
-------------------------------------
   OCT  14, 1993  12h 02m 35.56± 0.24s
   50.436 S ± 6.6km  139.904 E ±10.4km
   DEPTH =  10.0km  (geophysicist)
   5.4mb ( 26 obs.)  5.7Msz ( 15 obs.)
 SOUTH OF AUSTRALIA                (437)
      Mw 6.0 (HRV).
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 51S, **C
      Centroid Location:
      Origin Time        12:02:42.9 0.2
      Lat 50.28S 0.02 Lon 139.35E 0.03
      Dep  15.0 BDY Half-duration  2.3
      Moment Tensor;   Scale 10**17 Nm
        Mrr=-0.46 0.10  Mtt= 1.04 0.11
        Mff=-0.58 0.12  Mrt= 2.59 0.32
        Mrf= 1.92 0.34  Mtf=-8.95 0.12
       Principal Axes:
        T  Val=  9.26  Plg= 4  Azm= 42
        N        0.57      71      301
        P       -9.83      19      133
      Best Double Couple:Mo=9.5*10**17
       NP1:Strike=176 Dip=74 Slip= -11
       NP2:       269     80      -164

TOO    13.47  19 eP    05 46.30  -2.8
       0.8s    73.00nm          5.7mb
                eTT   14 27.00
ADE    15.48 356 e(P)  06 11.60  -4.0X
DRV    16.28 180 iP    06 33.80   8.3X
CAN    16.49  27 eP    06 28.90   0.5
                e     06 31.70
                ePP   09 47.50
CNB    16.60  28 eP    06 29.70  -0.2
       1.3s   143.00nm          4.9mb
BWA    17.17  24 iPd   06 36.80  -0.2
                i     06 39.70
RIV    18.54  31 eP+   06 57.00   3.1X
                eS    10 24.00
STK    18.58   5 eP    06 50.60  -3.8X
       1.5s    21.00nm          4.1mb X
                eS    10 23.40
CSY    21.80 212 eP    07 27.60  -1.5
       0.8s   106.50nm          5.3mb
ARMA   21.84  28 iPc   07 29.00  -1.0
       1.0s   119.00nm          5.3mb
BRS    25.02  28 iPd-  08 01.00   0.0
                i     08 08.00
                ePP   08 42.00
                eS    12 27.00
MRW    25.73  83 eP    08 13.00   5.5X
ASPA   27.13 348 eP    08 13.40  -7.2X
       1.2s     9.00nm          4.3mb X
     Z  21s     9.30um          5.3Msz
                eS    12 45.30
SBA    29.28 169 iPd   08 42.00   2.5
QIS    29.82 359 eP    08 42.00  -2.8
CTA    30.70  12 iP    08 42.00 -10.6X
                i     08 56.00
                ePP   09 42.00
                eS    13 30.00
WR2    30.74 350 eP    08 46.00  -7.0X
       0.9s    10.70nm          4.7mb
                ePP   11 50.40
WRA    30.74 350 P     08 47.20  -5.8X
       0.9s    15.20nm          4.9mb
WRA    30.74 350 P     09 08.90  15.9X
       1.3s    11.30nm
DZM    35.13  46 iPc   09 30.90  -0.3
SPA    39.75 180 iPc   10 08.40  -1.4
       0.9s    94.55nm          5.5mb
     Z  20s    21.80um          6.0Msz
                i     11 43.90
MAW    40.08 215 P     10 11.00  -1.2
       1.1s    55.56nm          5.1mb
     Z  20s    22.73um          6.0Msz
PMG    41.34  11 eP    10 25.00   2.0
PAF    43.38 243 eP    10 47.00   7.6X
                eS    17 14.00
LEM    51.13 317 ePd   11 40.20  -0.5
                eS    19 09.00
NVL    53.51 199 iPc   11 57.00  -0.7
       1.2s    69.00nm          5.5mb
     Z  18s    24.00um          6.3Msz
     N  18s    13.00um
     E  18s    17.00um
                e     12 15.00
                e     12 27.00
                ePcP  13 07.00
                e     13 24.00
                ePP   14 08.00
                ePPP  15 35.00
                ePcS  17 20.00
                iS    19 27.00
                eScS  21 55.00
                eSS   23 05.00
                eSSS  25 14.00
SNA    56.49 194 e(P)  12 17.50  -2.0
       0.8s    35.82nm          5.5mb
DAV    58.62 343 eP    12 20.00 -15.0X
CTB    58.99 342 ePd   12 52.00  14.4X
GUMO   63.89   5 e(P)  13 06.00  -4.6X
AFR    64.17  86 eP    13 15.70   3.2X
       0.9s    66.80nm          5.8mb
IPM    64.20 316 ePc   13 12.40  -0.3
PAE    64.20  87 eP    13 16.70   4.0X
       1.2s    79.10nm          5.8mb
PPT    64.27  87 eP    13 16.40   3.2X
       1.5s   213.10nm          6.1mb
BAG    68.70 340 eP-   13 44.00   2.6X
QIZ    74.07 330 eP    14 16.00   2.7X
     N  17s     2.12um
GZH    76.88 335 eP    14 30.00   0.8
     Z  34s     3.55um          5.4MszX
                S     24 16.00
GRM    77.98 232 iPd   14 36.00   0.5
       0.7s    62.00nm          5.8mb
     Z  18s    11.50um          6.2Msz
HVD    80.70 233 iPc   14 52.50   2.1
       0.8s    35.00nm          5.4mb
SEK    81.42 236 e(P)  14 47.00  -7.2X
CER    81.47 227 eP    14 52.00  -2.2
       1.0s   100.00nm          5.8mb
FRS    81.48 233 eP    14 45.00  -9.2X
       0.8s    14.93nm          5.1mb
BLF    81.55 234 e(P)  14 48.50  -6.3X
SUR    81.57 228 eP    14 55.00   0.1
       1.0s   200.00nm          6.1mb
     Z  20s    44.60um          6.8MszX
GYA    82.02 330 P     14 58.20   1.2
     Z  26s     2.93um          5.5MszX
     N  20s     1.42um
     E  20s     0.96um
                S     25 16.00
KMI    82.10 326 eP    14 58.50   0.9
       1.5s    80.00nm          5.6mb
     Z  26s     5.50um          5.8MszX
     N  20s     4.50um
     E  20s     1.70um
                sP    15 11.00
                SKS   25 16.00
BOSA   82.35 234 (P)   14 57.24  -1.5
       1.0s    37.04nm          5.5mb
SSE    82.85 344 P     15 01.50   0.5
     Z  20s     1.80um          5.4Msz
     N  16s     1.00um
                pP    15 10.00  27kmX
                S     [illegible] 12.00
                SKS   [illegible] 6.00
WHN    83.74 338 eP    1[illegible] 9.50   3.9X
     N  18s     1.36um
                S     25 30.00
GBA    83.82 300 P     15 09.00   2.7X
NJ2    84.22 342 eP    15 09.00   1.0
     Z  24s     1.50um          5.3MszX
                S     25 30.00
HYB    86.33 303 eP    15 20.00   1.1
CD2    87.08 329 eP    15 28.40   6.1X
     Z  20s     3.37um          5.7Msz
     N  20s     4.13um
                SKS   25 46.00
                S     26 04.80
BUL    87.42 241 iP    15 25.10   0.6
                iS    26 14.00
XAN    88.46 335 eP    15 29.60   0.8
       1.0s     8.90nm          5.0mb
     Z  34s     4.17um          5.6MszX
     N  18s     0.68um
     E  18s     1.34um
                pP    15 39.50  31kmX
                sP    15 43.60
                SKS   25 54.00
                S     26 10.00
TIA    88.59 342 eP    15 28.40  -1.0
       1.2s    20.00nm          5.3mb
     Z  19s     3.01um          5.7Msz
     N  17s     0.94um
KRI    89.49 244 eP    15 33.00  -1.5
                i     15 41.90
POO    89.81 300 eP    15 39.00   3.4X
LSA    90.70 319 eP    15 39.60  -0.4
     Z  38s     9.09um          5.9MszX
     N  11s     0.46um
                sP    15 52.60
                S     26 38.00
                SS    32 41.00
TIY    91.05 339 eP    15 40.40  -0.5
RFA    91.53 157 ePd   15 43.50  -0.1
LZH    91.84 332 eP    15 45.00   0.3
       2.0s   190.00nm          6.1mb
     Z  25s     3.05um          5.6MszX
                sP    15 58.00
                eS    26 40.00
BJI    92.47 342 eP    15 47.50   0.2
       1.0s     8.00nm          5.1mb
     Z  22s     1.54um          5.4Msz
     E  20s     2.06um
                eSKS  26 20.00
                eS    26 48.00
HHC    94.24 339 eP    15 59.40   3.8X
CN2    94.70 350 eP    15 56.40  -1.0
       0.8s     1.50nm          4.5mb
     Z  20s     1.24um          5.4Msz
     N  20s     1.68um
     E  20s     0.68um
                epP   16 10.00  45kmX
                eS    27 06.00
                eSS   33 36.00
MDJ    95.09 353 eP    16 01.80   2.6X
     Z  28s     2.89um          5.6MszX
                SKS   26 32.00
GTA    96.15 330 eP    16 07.50   3.1X
       2.0s    20.00nm          5.3mb
     Z  22s     3.52um          5.8Msz
     N  18s     0.81um
                PP    20 05.00
                SKS   26 40.00
                S     27 22.00
                SS    33 56.00
SVW   122.56  31 ePKP  21 29.44  -2.1
SVW   122.56  31 ePKP  21 33.30   1.8
ARN   122.70  69 ePKP  21 33.43   0.9
ISA   123.45  73 (PKP) 21 34.55   0.4
GLA   123.97  78 ePKP  21 34.80  -0.4
SLKM  124.00  34 ePKP  21 33.50  -0.9
ORV   124.16  67 ePKP  21 35.81   0.5
WDC   124.21  66 ePKP  21 35.06  -0.3
GSC   124.23  74 ePKP  21 35.74   0.0
BONR  125.04  71 ePKP  21 39.19   1.7
LBFM  125.08  66 ePKP  21 37.79   0.5
PMR   125.13  34 ePKP  21 35.63  -0.8
```

```
TPNV  125.64  73 (PKP) 21 38.49   0.0
TNP   125.78  71 ePKP  21 38.14  -0.7
TOA   126.53  34 ePKP  21 41.20   1.9
IMA   126.70  28 ePKP  21 40.00   0.4
        0.9s     5.90nm
BALM  127.27  37 ePKP  21 40.13  -0.7
FBA   127.77  31 ePKP  21 43.80   2.3
        0.8s     7.00nm
MSU   129.13  74 (PKP) 21 46.40   1.2
DUG   129.77  72 ePKP  21 44.83  -1.4
ANN   129.78 295 ePKP  21 40.00  -5.9X
ALQ   130.47  82 ePKP  21 47.37  -0.4
                eSKP   25 13.84
PV09  131.00  76 (PKP) 21 49.34   0.5
LRM   133.24  66 ePKP  21 57.70   4.9X
INK   134.39  31 ePKP  21 57.50   3.6X
        1.0s     6.00nm
WMOK  135.22  87 ePKP  21 57.77   1.2
RSSD  137.37  73 ePKP  21 57.70  -3.0
YKA   139.48  44 ePKP  22 04.80   1.2
        0.9s     4.20nm
FVM   142.54  90 ePKP  22 06.11  -3.8X
OJC   142.68 294 ePKP  22 08.00  -1.7
ZST   143.43 289 ePKP  22 10.00  -1.0
MYNC  144.78  99 ePKP  22 12.71  -1.1
KSP   144.98 293 ePKP  22 13.00  -0.6
                i      22 15.10
ULM   145.12  68 ePKP  22 17.00   3.2X
KBA   145.24 286 iPKPc 22 13.40  -1.0
        0.9s    17.80nm
PRM   145.25 102 ePKP  22 14.37  -0.2
PRU   145.70 291 PKP   22 14.70  -0.1
      Z  18s     0.70um          5.5Msz
                i      22 32.70
                i      23 15.10
GEC2  145.76 289 PKP   22 10.80  -4.3X
        1.0s    29.49nm
                e      22 21.20
                e      22 27.00
                e      22 32.60
                e      22 42.80
GEC2  145.76 289 e(PKP)22 29.30  14.2X
        1.1s    16.40nm
GEC2  145.76 289 e(PKP)22 24.50   9.4X
        0.9s    22.20nm
GEC2  145.76 289 e(PKP)22 21.50   6.4X
        0.8s    14.90nm
BHG   145.80 286 iPKPd 22 17.20   2.1
        1.1s    59.00nm
KHC   145.95 289 ePKP  22 15.50   0.1
        1.1s    35.20nm
      Z  20s     1.60um          5.8Msz
      N  18s     0.70um
      E  20s     0.60um
                e      22 22.50
                e      22 31.00
                e      23 16.50
JSC   146.07 102 ePKP  22 16.50   0.6
                ePKPbc22 18.43
WTTA  146.37 285 iPKPc 22 17.70   1.4
        1.3s   108.00nm
                i      22 29.00
BRG   146.38 292 iPKP  22 16.80   0.9
        2.2s   160.00nm
                i      22 36.00
LHS   146.48 103 ePKP  22 16.24  -0.4
OGA   146.58 284 iPKPc 22 18.50   1.8
        0.8s    23.00nm
SQTA  146.62 285 iPKPc 22 16.20  -0.4
        0.9s    36.90nm
UPP   146.73 309 iPKP  22 17.30   1.2
FUR   146.97 286 ePKP  22 21.20   4.2X
RES   147.05  24 ePKP  22 16.00  -0.3
        1.0s    39.00nm
CLL   147.09 293 iPKP  22 19.10   2.1
        1.0s    25.00nm
                i      22 41.90
BSD   147.13 300 iPKP  22 19.00   2.0
        0.8s    52.00nm
GRF   147.58 289 ePKPc 22 22.70   4.8X
      Z  22s     1.00um          5.6Msz
MOX   147.68 291 ePKP  22 17.00  -1.1
        1.8s    65.00nm
      Z  22s     1.20um          5.6Msz
                e      22 40.60
NAV   148.28  99 ePKP  22 24.01   4.5X
FCC   148.44  54 ePKP  22 38.00  19.1X
BLA   148.45  99 ePKP  22 25.05   5.3X
CEH   148.46 102 ePKP  22 24.36   4.6X
HFS   148.72 309 ePKP  22 24.50   5.1X
        0.7s     5.60nm
TIO   148.75 244 iPKP  22 27.50   6.9X
CVL   150.15 100 ePKP  22 29.56   7.3X
EHUE  150.59 259 ePKP  22 30.72   7.6X
EGUA  150.59 257 iPKPd 22 30.70   7.7X
ECHE  150.61 264 ePKP  22 31.00   8.0X
EVIA  151.03 261 ePKP  22 34.13  10.4X
ELUQ  151.49 257 iPKPd 22 32.90   8.5X
PLAT  151.49 253 ePKP  22 32.00   7.6X
EJIF  151.53 254 ePKP  22 32.65   8.2X
EBAN  151.55 259 iPKPd 22 32.56   8.1X
MOMI  151.60 253 ePKP  22 32.00   7.5X
EPRU  151.71 255 iPKPc 22 33.59   8.9X
DOU   151.75 287 PKP   22 31.10   6.8X
ALJ   151.75 254 ePKP  22 33.00   8.1X
EVAL  153.04 254 ePKP  22 37.45  10.9X
      S.D. = 1.3  on  83 of 143 obs.
-------------------------------------
?  OCT  14, 1993  12h 12m 27.80± 4.87s
   39.197 N ±19.1km   27.959 E ±78.1km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.6 (ISK).

IZM     0.97 214 ePg   12 46.20   0.0
                eSg    13 02.00
EDC     1.15 356 ePn   12 49.40   0.1
KGT     1.35 338 iPn   12 52.90   0.3
MFT     1.67 342 ePn   12 56.90  -0.4
      S.D. = 0.5  on   4 of   4 obs.
-------------------------------------
*  OCT  14, 1993  12h 57m 54.80± 1.09s
   5.875 S ±10.4km  145.792 E ±13.8km
   DEPTH =  33.0km  (normal)
   3.9mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.1 (PMG).

YYYY    0.40 154 eP    58 02.90  -1.2
                eS     58 09.60
MDG     0.62 359 iPc   58 07.40   0.3
MNDI    2.14 262 eP    58 28.00  -1.1
PMG     3.76 159 eP    58 52.50   0.6
WR2    17.86 217 eP    02 04.00   1.4
        0.6s     3.90nm          3.7mb
ASPA   21.07 212 eP    02 43.70   5.0X
        0.5s     4.50nm          4.1mb
      S.D. = 1.6  on   5 of   6 obs.
-------------------------------------
*  OCT  14, 1993  13h 11m 39.43± 0.33s
   11.221 S ± 6.5km  115.230 E ±10.1km
   DEPTH =  33.0km  (normal)
   4.9mb ( 12 obs.)
 SOUTH OF BALI, INDONESIA          (284)

LEM     8.69 300 iPd   13 47.00   0.9
MBL    10.82 156 eP    14 15.70   0.5
                eS     16 06.00
KNA    13.91 110 eP    14 54.00  -2.6X
MEEK   15.66 169 eP    15 14.40  -5.1X
        0.2s    64.00nm          5.5mb
                eS     17 56.20
MRWA   17.92 178 eP    15 43.20  -4.6X
        0.2s    23.00nm          5.0mb
                eS     18 47.20
BAL    19.34 176 eP    16 02.80  -2.3
        0.5s   191.00nm          5.6mb
                eS     19 22.40
COOL   20.32 165 eP    16 14.50  -1.1
                eS     19 41.60
WR2    20.35 118 iPc   16 15.10  -0.9
        1.0s    16.40nm          4.3mb
                i      16 28.10  58kmX
                eS     19 48.50
KLB    20.41 174 eP    16 16.30  -0.1
        0.3s    15.00nm          4.8mb
                iS     19 48.50
MUN    20.68 178 eP    16 19.40   0.2
        0.3s   450.00nm          6.3mb X
                eS     19 55.40
IPM    21.12 317 ePd   16 24.10   0.2
ASPA   21.66 127 eP    16 30.20   0.9
        0.5s    19.60nm          4.8mb
      Z  19s     0.60um          4.0Msz
                iS     20 22.80
NWAO   21.68 175 eP    16 32.30   2.9X
                eS     20 17.40
FORT   22.81 150 eP    16 41.70   1.1
                e      16 52.50  42kmX
QIZ    30.52 350 P     17 52.20   0.1
STK    31.84 134 iP    18 03.90   0.3
        0.5s    10.80nm          5.0mb
TOO    37.74 139 eP    18 57.20   3.1X
        0.4s     8.00nm          4.9mb
BWA    38.04 133 e(P)  19 00.20   3.5X
                i      19 12.90  48kmX
GYA    38.37 348 P     19 00.20   0.7
ARMA   38.78 125 eP    19 06.00   3.0X
CAN    38.90 134 eP    19 05.10   1.2
                e      19 18.10  49kmX
CD2    43.31 346 eP    19 39.40  -0.7
        0.7s    34.00nm          5.2mb
GBA    44.87 302 P     19 52.00  -0.9
XAN    45.41 353 P     19 55.50  -1.4
LZH    48.26 348 eP    20 20.00   0.5
        1.0s   120.00nm          5.9mb
POO    50.40 306 eP    20 37.00   0.9
BTO    51.78 355 eP    20 45.00  -1.2
GTA    52.37 345 eP    20 51.00   0.2
        1.5s     8.00nm          4.5mb
WMQ    60.24 337 P     21 47.00   0.1
SPA    78.85 180 iPc   23 41.40   0.7
        1.0s     4.00nm          4.4mb
FVM   144.82  36 ePKP  31 14.98  -0.1
LPB   152.23 173 PKP   31 33.00   5.2X
      S.D. = 0.9  on  24 of  32 obs.
-------------------------------------
   OCT  14, 1993  13h 27m 52.06± 0.76s
   39.156 N ± 5.2km   27.648 E ±12.1km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.8 (ISK).

IZM     0.81 202 ePg   28 07.20  -0.7
                eSg    28 19.00
EDC     1.20   8 ePn   28 14.40   0.0
BNT     1.22  10 ePn   28 13.90  -0.8
EZN     1.22 304 ePn   28 14.90   0.1
KGT     1.32 349 ePn   28 17.40   1.0
CIN     1.59 167 eP    28 21.00   0.7
MFT     1.65 350 ePn   28 21.00  -0.3
      S.D. = 0.8  on   7 of   7 obs.
-------------------------------------
*  OCT  14, 1993  13h 30m 04.23± 1.57s
   7.470 S ±10.9km  128.319 E ±18.6km
   DEPTH = 133.8 ± 16.8 km
   4.7mb (  7 obs.)
 BANDA SEA                         (280)

MTN     6.02 153 eP    31 31.50  -0.7
KNA     8.24 177 iPc   32 02.60   0.3
                eS     33 29.00
WR2    13.72 155 iPc   33 10.60  -3.8X
                iS     35 34.60
ASPA   16.97 162 eP    33 54.60  -0.5
                iS     36 52.30
QIS    16.99 141 eP    33 55.00  -0.3
CTA    21.43 128 eP    34 44.00   1.1
FORT   23.19 181 eP    35 01.00   1.1
        0.3s     5.00nm          4.4mb
STK    27.26 155 iPc   35 36.30  -1.5
        0.6s    10.80nm          4.6mb
                eS     41 13.20
ADE    28.99 162 e(P)  35 53.30  -0.1
ARMA   31.60 139 eP    36 17.20   0.7
BWA    32.60 148 eP    36 25.70   0.6
CAN    33.59 149 iP    36 33.40  -0.3
TOO    33.78 155 iPc   36 35.80   0.6
        0.4s    30.00nm          5.4mb X
GYA    39.74 329 P     37 26.60   1.1
WHN    40.10 341 Pd    37 29.50   1.3
        0.8s    16.00nm          4.8mb
CD2    44.83 330 eP    38 07.00   0.3
XAN    45.19 337 P     38 08.00  -1.5
        1.0s    31.00nm          5.0mb
TIY    47.33 343 eP    38 25.80  -0.6
LZH    49.06 334 eP    38 40.00   0.2
        1.4s    44.00nm          5.1mb
HHC    50.49 344 eP    38 50.60   0.0
        1.0s     7.10nm          4.4mb
GTA    53.60 333 iPc   39 14.00   0.2
```

14d 13h

```
       1.0s    13.00nm          4.8mb
GEC2  111.71 320 PKP   48 22.80  -2.0
       0.6s     1.06nm
     S.D. = 1.0  on  21 of  22 obs.
-----------------------------------
   OCT  14, 1993  13h 37m 21.77± 0.70s
   41.216 N ± 7.5km   21.937 E ± 5.4km
   DEPTH = 10.0km  (geophysicist)
 NORTHWESTERN BALKAN REGION       (383)
      ML 2.6 (THE).

GRG      0.44 126 ePg   37 29.94  -0.7
                  eSg   37 37.86
FNA      0.61 225 iPg   37 34.26   0.2
KNT      0.73  94 iPg   37 35.57  -0.5
                  eSg   37 45.14
SKO      0.84 334 ePg   37 38.50   0.5
                  eSg   37 52.00
OHR      0.87 263 ePg   37 37.70  -0.8
SOH      1.14 110 ePg   37 43.74   0.6
                  eSg   37 58.38
LIT      1.19 159 ePb   37 44.74   0.7
                  iSb   38 02.98
     S.D. = 0.8  on   7 of   7 obs.
-----------------------------------
*  OCT  14, 1993  14h 13m 39.44± 0.86s
   19.281 S ±11.2km  177.995 W ±13.4km
   DEPTH = 443.3 ±  8.0 km
   4.6mb ( 10 obs.)
 FIJI ISLANDS REGION              (181)

TVI      3.05 320 iPc   14 46.60  -0.4
SVA      3.56 288 eP    14 50.90  -0.1
VUN      3.59 290 eP    14 49.90  -1.4
UDU      3.65 328 iPc   14 53.60   1.8
NDE      3.71 316 iPc   14 52.00  -0.4
MBU      3.88 306 ePc   14 53.60  -0.2
BKM     13.16 275 iPd   16 34.20   1.4
DZM     14.83 257 iPc   16 50.00  -0.4
PUZ     19.01 189 eP    17 33.10   1.1
URZ     19.39 192 eP    17 34.60  -1.0
NOZ     19.57 189 eP    17 38.40   0.9
BRS     27.98 248 iPc   18 55.20   0.9
ARMA    29.62 242 iPd   19 09.20   0.4
         0.4s    41.00nm          5.2mb
CNB     32.92 234 iPd   19 37.80   0.9
         0.5s    10.00nm          4.5mb
CAN     33.21 234 iPd   19 39.70   0.5
BWA     33.37 236 eP    19 39.00  -1.6
CTA     33.63 263 iPd   19 42.80  -0.1
         1.0s    30.00nm          4.7mb
TOO     36.63 232 iPc   20 09.00   1.2
         0.6s    15.00nm          4.6mb
STK     38.34 243 iPd   20 22.70   0.8
         0.7s     9.80nm          4.3mb
                  eS    27 38.20
WR2     44.76 261 iPc   21 11.80  -1.8
         0.5s    20.80nm          4.8mb
ASPA    44.82 256 iPd   21 13.40  -0.6
         0.7s    97.60nm          5.3mb
                  i     22 31.70
                  iPcS  25 42.90
                  iS    27 04.80
FORT    49.79 246 eP    21 50.90  -1.0
         0.6s    25.00nm          4.7mb
SPA     70.84 180 iPc   24 09.90  -1.6
         1.0s    13.50nm          4.5mb
FBA     87.06  12 ePc   25 36.80  -0.3
         1.0s     8.00nm          4.4mb
CLL    146.88 347 iPKP  32 31.80   2.5X
BRG    147.08 346 iPKP  32 32.90   3.3X
KHC    148.80 345 ePKP  32 33.50   1.0
GEC2   149.03 345 PKP   32 38.00   5.1X
         1.0s     3.39nm
     S.D. = 1.1  on  25 of  28 obs.
-----------------------------------
?  OCT  14, 1993  14h 14m 09.70± 1.52s
   40.339 N ±13.4km   29.993 E ± 9.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 2.7 (ISK).

GPA      0.25 102 iPg   14 14.70  -0.3
                  iSg   14 19.70
EYL      0.26  29 iPg   14 15.40   0.2
HRT      0.54 333 ePg   14 20.50  -0.2
CTT      1.44 305 ePn   14 35.90   0.1
     S.D. = 0.4  on   4 of   4 obs.
-----------------------------------
?  OCT  14, 1993  14h 38m 45.00± 1.01s
    6.345 S ± 9.4km  145.614 E ±14.3km
   DEPTH =  33.0km  (normal)
   4.6mb (  2 obs.)
 NEW GUINEA, PAPUA NEW GUINEA     (202)
      ML 4.5 (PMG).

YYYY     0.37  74 iPd   39 06.00  12.2X
MDG      1.10   9 iPd   39 04.70   0.6
MNDI     1.95 275 eP    39 29.00  12.3X
WWKK     3.35 324 eP    39 35.60  -0.8
PMG      3.40 153 eP    39 36.80  -0.3
MTN     15.67 245 eP    42 25.60   0.5
         0.8s    93.00nm          5.0mb
ASPA    20.58 212 iPd   43 18.80  -5.1X
         0.8s     8.90nm          4.2mb
                  iS    47 09.00
     S.D. = 1.2  on   4 of   7 obs.
-----------------------------------
?  OCT  14, 1993  14h 51m 46.27± 1.15s
   38.060 N ±10.3km   21.013 E ± 7.9km
   DEPTH =  10.0km  (geophysicist)
 GREECE                           (364)
      MD 3.2 (ATH).

VLS      0.35 289 ePb   51 53.50  -0.1
AGG      1.41  47 ePn   52 12.32   0.3
                  eSn   52 43.70
IGT      1.56 340 ePn   52 15.08   1.0
KEK      1.90 331 ePb   52 20.00   0.9
VLI      2.04 131 ePn   52 21.00   0.0
LSK      2.11 351 ePn   52 22.00  -0.2
LIT      2.34  29 ePn   52 24.76  -0.6
                  eSn   53 07.80
TPE      2.36 341 ePn   52 24.00  -1.7
KBN      2.57 356 ePn   52 30.00   1.4
OHR      3.05 357 ePn   52 37.50   2.0
GRG      3.09  20 ePn   52 35.28  -0.7
SOH      3.30  33 ePn   52 39.24   0.2
TIR      3.40 345 ePn   52 38.00  -2.4
KNT      3.42  25 ePn   52 40.52  -0.2
SKO      3.92   5 ePn   52 32.00 -15.8X
     S.D. = 1.3  on  14 of  15 obs.
-----------------------------------
%  OCT  14, 1993  14h 58m 35.63± 1.89s
   40.295 N ±33.5km   28.778 E ± 7.1km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 2.6 (ISK).

EDC      0.70 275 ePg   58 48.40  -1.1
                  eSg   58 59.40
HRT      0.86  52 ePn   58 51.90  -0.3
EYL      1.09  75 ePn   58 56.40   0.3
KGT      1.14 278 iPn   58 57.90   1.0
MFT      1.24 294 ePn   58 58.90   0.1
     S.D. = 1.1  on   5 of   5 obs.
-----------------------------------
*  OCT  14, 1993  15h 03m 48.03± 1.45s
    6.086 S ±10.8km  146.120 E ±23.3km
   DEPTH =  33.0km  (normal)
   4.0mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.5 (PMG).

YYYY     0.22 224 iPd   03 53.50  -1.5
MDG      0.90 338 eP    04 04.40   0.2
MNDI     2.45 268 eP    04 34.00   7.2X
PMG      3.46 163 eP    04 40.80   0.0
WWKK     3.49 314 eP    04 48.30   6.9X
WR2     17.90 219 iPc   07 57.30   1.0
         0.8s     9.90nm          4.0mb
ASPA    21.07 213 eP    08 32.20   0.3
         0.9s     6.80nm          4.0mb
KIC    151.03 272 PKP   23 41.63   7.4X
         0.8s    14.50nm
TIC    151.31 273 PKP   23 42.18   7.5X
         0.7s     4.00nm
LIC    151.32 272 PKP   23 42.01   7.4X
         0.4s     3.00nm
     S.D. = 1.3  on   5 of  10 obs.
-----------------------------------
*  OCT  14, 1993  15h 30m 28.29± 0.93s
    6.143 S ± 9.6km  146.162 E ±17.1km
   DEPTH =  33.0km  (normal)
   4.0mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.5 (PMG).

YYYY     0.22 243 eP    30 34.00  -1.2
MDG      0.97 337 eP    30 46.50   1.0
MNDI     2.49 270 eP    31 14.50   6.9X
PMG      3.39 163 iPc   31 20.60   0.4
WWKK     3.56 315 eP    31 30.50   7.9X
KVG      5.83  53 eP    32 00.00   5.3X
WR2     17.88 219 eP    34 37.00   0.7
         0.7s     4.60nm          3.7mb
ASPA    21.04 213 eP    35 15.10   3.2X
         0.8s     8.70nm          4.2mb
      Z  20s     0.20um          3.5Msz
                  iS    38 53.90
ARMA    24.69 169 eP    35 48.00   0.2
FBA     85.64  23 (P)   43 03.50  -1.1
KIC    151.08 272 PKP   50 23.04   8.5X
         0.8s    12.50nm
LIC    151.36 272 PKP   50 23.42   8.5X
         0.6s     6.00nm
TIC    151.36 273 PKP   50 23.49   8.5X
         0.7s     4.00nm
     S.D. = 1.2  on   6 of  13 obs.
-----------------------------------
%  OCT  14, 1993  16h 11m 14.76± 1.56s
   37.045 S ±15.6km  177.629 E ±12.4km
   DEPTH = 140.0km  (geophysicist)
 OFF E. COAST OF N. ISLAND, N.Z. (160)

HBZ      0.77 136 P     11 36.60  -0.3
PUZ      1.14 154 P     11 40.10  -0.1
                  eS    11 58.60
URZ      1.28 199 P     11 42.10   0.6
                  S     12 02.50
KUZ      1.56 280 P     11 43.50  -1.0
NOZ      1.60 169 P     11 45.90   0.9
WLZ      1.82 242 P     11 48.10   0.6
PAHZ     1.87 194 P     11 49.10   1.0
MAHZ     2.15 175 eP    11 52.20   0.7
TTH      2.57 194 P     11 57.10   0.3
MOZ      2.67 236 P     11 59.80   1.7
TEHZ     3.01 192 P     12 01.50  -0.9
PGZ      3.72 196 P     12 10.10  -1.7
MNG      3.94 205 P     12 13.00  -1.7
                  S     12 58.50
     S.D. = 1.2  on  13 of  13 obs.
-----------------------------------
   OCT  14, 1993  16h 13m 52.29± 0.76s
   47.524 N ± 8.0km   15.947 E ± 6.2km
   DEPTH =  10.0km  (geophysicist)
 AUSTRIA                          (546)
      ML 3.6 (GRF), 3.2 (VIE), 3.2
      (BRA). Felt (V) at Spital and
      Semmering.

SOP      0.44  69 iPgc  14 02.60   1.3
VKA      0.78  18 iPgc  14 07.00  -0.5
                  iSg   14 17.60
ZST      1.03  49 iPn   14 12.20   0.5
                  iSn   14 27.20
                  Lg    14 29.50
PTJ      1.62 180 iPn   14 19.70  -1.4
                  iSn   14 48.30
SRO      1.63  79 ePn   14 26.20   5.2X
KBA      1.83 257 iPnd  14 24.30   0.2
                  iPg   14 27.00
                  iSg   14 49.80
VRAC     1.84  13 iPnd  14 23.00  -1.1
         0.3s    66.60nm
                  e     14 27.70
                  eSn   14 46.20
                  eSg   14 47.40
GEC2     2.00 312 Pg    14 25.30  -1.3
                  Sg    14 49.40
VBY      2.08 194 e(Pn) 14 35.00   7.4X
                  iSn   15 01.90
BHG      2.08 277 iPc   14 29.60   1.9
KHC      2.25 316 Pg    14 29.50  -0.7
                  eSg   14 55.00
PRU      2.64 340 Pg    14 38.20   2.6X
         0.3s    56.60nm
                  Sg    15 08.20
WTTA     2.94 267 iPnc  14 40.70   0.6
                  iPg   14 47.10
                  iSg   15 24.20
```

```
WATA     2.97 268 iP    14 45.20    4.7X
                  i     15 22.70
                  i     15 25.00
SQTA     3.23 266 iPgc  14 51.80    7.6X
                  iSg   15 32.80
MOTA     3.29 269 iPg   14 52.30    7.2X
                  iSg   15 33.00
KSP      3.33   4 eP    14 51.00    5.5X
                  iSn   15 29.30
                  iSg   15 33.10
BRG      3.60 339 iPg   14 58.70    9.4X
                  iSg   15 39.50
GRF      3.81 306 ePg   15 01.20    8.9X
                  eSg   15 48.40
MOX      4.23 319 ePn   14 58.80    0.6
     S.D. = 1.2  on  11 of  20 obs.
-------------------------------------
%  OCT  14, 1993  16h 30m 27.25± 1.01s
   67.007 N ± 9.5km   20.896 E ±14.5km
   DEPTH =  10.0km  (geophysicist)
 SWEDEN                            (536)
      MD 2.9 (BER).

NSD      2.01 206 eP    31 02.90    1.4
       0.1s    32.70nm
KTK1     2.20  23 eP    31 04.22   -0.1
                  eSg   31 35.05
TRO      2.74 345 eP    31 12.81    0.9
LOF      3.04 295 eP    31 15.83   -0.3
ARA0     3.06  32 ePg   31 16.08   -0.5
                  eLg   31 57.81
NRA0     7.52 218 ePn   32 18.12   -1.4
     S.D. = 1.3  on   6 of   6 obs.
-------------------------------------
?  OCT  14, 1993  16h 31m 37.80± 6.17s
   58.120 N ±48.7km    6.325 E ±17.9km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN NORWAY                   (535)
      MD 2.4 (BER).

KMY      1.23 333 eP    32 00.59   -0.1
                  eS    32 16.09
BLS5     1.31   3 eP    32 01.53   -0.5
                  eS    32 16.88
ODD1     1.80   5 eP    32 10.30    1.1
                  eS    32 32.02
EGD      2.23 346 eP    32 14.95   -0.4
                  eS    32 44.06
ASK      2.44 347 eP    32 18.10   -0.2
                  eS    32 49.69
NRA0     3.74  43 ePn   32 36.49   -0.3
                  ePg   32 46.29
                  eSn   33 18.59
                  eLg   33 30.07
     S.D. = 0.7  on   6 of   6 obs.
-------------------------------------
*  OCT  14, 1993  16h 34m 25.50± 0.90s
   31.892 S ± 8.3km  178.456 W ±16.0km
   DEPTH =  33.0km  (normal)
   4.8mb (  7 obs.)
 KERMADEC ISLANDS REGION           (177)

RAO      2.67  10 eP    35 06.80   -0.3
                  iS    35 30.00
HBZ      6.29 204 eP    36 00.00    1.7
PUZ      6.73 203 eP    36 05.20    0.6
                  eS    37 23.80
KUZ      6.83 223 eP    36 10.40    4.5X
URZ      7.32 209 eP    36 11.40   -1.3
                  S     37 37.70
OUZ      7.42 241 P     36 21.00    6.8X
MNG      9.99 208 eP    36 47.30   -2.5
DZM     16.62 302 iPc   38 18.50    0.8
BRS     25.37 273 eP    39 47.00   -4.3X
TOO     30.04 249 eP    40 33.30   -0.4
       0.5s     3.00nm          4.3mb
CTA     33.68 282 iPc   41 07.00    1.3
       0.9s    12.60nm          4.8mb
STK     33.79 259 eP    41 07.80    1.3
       0.9s     2.70nm          4.2mb
ASPA    42.66 269 eP    42 20.20   -0.7
WR2     43.76 274 iPd   42 28.60   -1.2
       0.6s    34.10nm          5.3mb
WRA     43.78 274 P     42 29.10   -0.9
       0.7s    12.60nm          4.8mb
CSY     53.65 208 eP    43 47.30    1.7
       0.6s    11.20nm          5.0mb
SPA     58.28 180 iPc   44 20.00    0.8
       0.7s     9.38nm          5.0mb
KAF    145.81 339 iPKP  53 59.30   -2.2
       0.6s     4.30nm
OBN    146.15 324 ePKPd 54 03.00    0.7
       1.5s    35.00nm
                  i     54 16.50
NUR    147.57 339 ePKP  54 05.00    0.6
NB2    150.16 351 PKP   54 13.00    4.5X
       7.0s     3.20nm
SLL    150.37 348 ePKP  54 11.50    2.7X
       0.5s     4.80nm
     S.D. = 1.4  on  17 of  22 obs.
-------------------------------------
?  OCT  14, 1993  16h 38m 17.71± 7.11s
   57.899 N ±59.6km    6.218 E ±20.0km
   DEPTH =  10.0km  (geophysicist)
 NORTH SEA                         (534)
      MD 2.6 (BER).

KMY      1.41 339 eP    38 43.75    0.4
                  eS    38 59.09
BLS5     1.53   5 eP    38 44.83   -0.3
                  eS    38 59.60
ODD1     2.03   6 eP    38 53.18    0.8
                  eS    39 14.78
EGD      2.43 348 eP    38 57.89   -0.2
                  eS    39 23.23
BER      2.53 350 eP    38 59.23   -0.3
ASK      2.65 349 eP    39 00.91   -0.2
                  eSg   39 33.37
SUE      3.25 347 eP    39 09.70    0.0
NRA0     3.94  42 ePn   39 19.25   -0.3
                  ePg   39 26.92
                  eSn   40 01.69
                  eLg   40 15.09
SLL      4.47  52 eP    39 27.20    0.1
       0.1s     2.70nm
     S.D. = 0.4  on   9 of   9 obs.
-------------------------------------
?  OCT  14, 1993  17h 04m 27.85± 1.59s
    5.973 S ±11.0km  146.150 E ±24.0km
   DEPTH =  33.0km  (normal)
   4.0mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.5 (PMG).

YYYY     0.32 214 eP    04 35.00   -1.0
MDG      0.81 333 eP    04 42.60   -0.2
MNDI     2.48 266 eP    05 13.50    6.4X
WWKK     3.43 313 eP    05 26.90    6.5X
PMG      3.55 164 iPc   05 21.80   -0.3
WR2     18.01 218 eP    08 37.30   -0.1
       0.5s     5.80nm          4.0mb
                  eS    11 45.20
ASPA    21.18 213 iPc   09 14.40    1.6
       1.0s     9.00nm          4.1mb
     Z  18s     0.30um          3.7Msz
                  i     09 18.60
                  eS    13 11.80
LIC    151.34 272 PKP   24 20.26    5.8X
       0.4s     2.50nm
LKO    151.78 279 PKP   24 21.91    6.7X
       0.5s     2.50nm
     S.D. = 1.3  on   5 of   9 obs.
-------------------------------------
   OCT  14, 1993  17h 13m 00.31± 0.55s
   50.807 N ± 5.4km    6.330 E ± 3.9km
   DEPTH =  10.0km  (geophysicist)
 GERMANY                           (543)
      ML 2.2 (UCC), 2.0 (BNS).

ENN      0.26 261 iPgc  13 06.00    0.2
       0.7s   125.30nm
                  iSg   13 09.80
MEM      0.29 226 iPc   13 06.33    0.1
                  iS    13 10.46
STB      0.39 123 iPgc  13 08.57    0.3
       0.3s    57.00nm
                  iSg   13 13.79
BNS      0.56  73 iPg   13 11.07   -0.6
       0.3s    90.00nm
                  iSg   13 18.60
BGG      0.88 133 ePgd  13 17.30    0.1
       0.2s   110.00nm
                  Sg    13 29.30
KOE      0.97 113 iPgc  13 18.60   -0.1
       0.3s   *******nm
                  Sg    13 31.60
WLF      1.15 186 iPc   13 22.00    0.2
                  iS    13 37.74
WTS      1.23  14 eP    13 23.50    0.4
       0.7s    13.00nm
                  e     13 25.80
                  e     13 39.50
DOU      1.32 238 iP    13 24.10   -0.5
                  iS    13 41.30
     S.D. = 0.4  on   9 of   9 obs.
-------------------------------------
&  OCT  14, 1993  17h 23m 08.73s
   63.098 N          150.673 W
   DEPTH = 119.7km
 CENTRAL ALASKA                      (  1)
      <AEIC>.

TRF      0.39  26 iP    23 26.19   -0.3
                  eS    23 39.59
KTH      0.47 346 iP    23 26.51   -0.3
                  eS    23 39.43
HUR      0.49 104 eP    23 26.18   -0.7
                  eS    23 41.09
CUT      0.72 165 iP    23 28.08   -0.4
                  eS    23 43.19
RND      0.88  69 iP    23 29.38   -0.6
MCK      1.01  50 eP    23 30.67   -0.5
                  eS    23 46.98
SKT      1.19 200 iP    23 32.47   -0.6
                  eS    23 50.36
BWN      1.21  26 eP    23 33.02   -0.1
PWA      1.50 165 P     23 36.50    0.0
DHY      1.50  89 iP    23 36.30   -0.4
                  eS    23 58.37
GHO      1.56 148 iP    23 36.99   -0.3
                  eS    23 59.14
NEA      1.65  25 eP    23 37.21   -1.0
PLRM     1.67 154 eP    23 37.73   -0.8
PMR      1.67 154 eP    23 37.39   -1.2
SML      1.69 139 iP    23 37.99   -0.9
                  eS    24 01.02
WRH      1.79  39 eP    23 39.03   -1.0
NCG      1.84 203 eP    23 40.03   -0.7
CGLM     1.90 200 eP    23 41.20   -0.3
PMS      1.93 164 P     23 41.40   -0.4
                  S     24 06.90
MLY      1.94 359 eP    23 41.02   -0.9
CRP      1.97 201 eP    23 41.17   -1.2
CP2      1.98 202 eP    23 41.69   -0.9
KNK      1.98 147 eP    23 41.68   -0.8
CCB      2.01  38 eP    23 41.71   -1.0
SCM      2.01 128 eP    23 42.02   -0.8
BGL      2.01 204 eP    23 43.12    0.3
CKN      2.01 201 eP    23 43.09    0.3
SPU      2.03 199 eP    23 42.73   -0.3
CKT      2.04 201 eP    23 42.75   -0.4
CKL      2.06 203 eP    23 43.14   -0.4
HDA      2.11  50 eP    23 43.18   -0.9
                  eS    24 09.08
MDM      2.16  29 eP    23 43.53   -1.1
BKG      2.17 201 eP    23 44.11   -0.8
FBA      2.21  34 eP    23 44.00   -1.3
TOA      2.31 114 eP    23 46.29   -0.3
CFI      2.36 143 eP    23 46.53   -0.6
PAX      2.38  91 eP    23 47.22   -0.3
NKA      2.38 187 eP    23 50.19    2.7
GLM      2.38  36 eP    23 46.63   -1.0
SDG      2.42 101 eP    23 47.83   -0.3
TTA      2.44 268 eP    23 47.46   -0.9
PWL      2.50 153 eP    23 47.83   -1.3
SLKM     2.61 175 eP    23 50.14   -0.4
RDT      2.66 199 eP    23 50.81   -0.5
DFR      2.69 202 eP    23 51.44   -0.2
MPA      2.69 166 eP    23 50.56   -1.0
                  eS    24 23.66
KLU      2.74 124 eP    23 50.53   -1.8
REF      2.79 201 eP    23 52.80   -0.3
RDW      2.81 202 eP    23 52.69   -0.7
RS2      2.82 201 eP    23 53.15   -0.4
VLZ      2.84 132 eP    23 51.70   -1.8
SEW      3.06 168 eP    23 55.27   -1.2
SVW      3.07 232 eP    23 54.63   -2.0
FID      3.08 138 eP    23 55.06   -1.7
IM3      3.19 337 eP    23 56.98   -1.2
CNPM     3.60 185 eP    24 03.10   -0.6
GLB      3.61 114 eP    24 02.36   -1.6
```

14d 17h

```
CDD     4.42 200 eP    24 14.57  -0.4
BALM    4.43 114 eP    24 12.98  -2.1
        59 obs. associated
-----------------------------------
   OCT  14, 1993  18h 13m 05.69± 0.28s
   23.730 N ± 5.8km  143.020 E ± 5.0km
   DEPTH =  33.0km  (normal)
   4.7mb ( 30 obs.)  4.1Msz (  4 obs.)
 VOLCANO ISLANDS REGION           (213)

GUMO   10.24 170 eP    15 34.20   0.7
       1.5s   165.70nm          6.1mb X
                e(S)  17 27.10
GUA    10.29 170 eP    15 35.30   1.1
       1.7s   769.23nm          6.7mb X
SSE    20.70 296 P     17 45.00  -0.7
       1.0s    42.00nm          4.8mb
     Z  20s     0.90um          4.1Msz
                pP    17 51.50  24kmX
                PP    18 07.50
                S     21 34.00
BAG    22.28 255 ePc   18 08.00   6.1X
NJ2    22.88 297 Pd    18 08.00   0.6
       0.8s    32.00nm          4.9mb
     Z  20s     0.59um          4.0Msz
YSS    23.24 359 ePd   18 14.00   3.2X
       1.0s    10.00nm          4.3mb
     Z  16s     0.60um          4.1MszX
                e     18 27.70  57kmX
                eS    22 28.00
                eSS   23 18.00
MDJ    23.55 335 eP    18 15.00   1.2
       1.0s    19.00nm          4.6mb
DL2    23.64 315 eP    18 14.50  -0.3
     Z  26s     0.68um          4.0MszX
SNY    24.25 323 Pd    18 21.00   0.3
       1.0s    18.00nm          4.6mb
CTB    24.42 231 eP    18 36.00  13.4X
CN2    24.69 328 P     18 26.40   1.5
       0.8s    12.00nm          4.5mb
     Z  18s     0.60um          4.1Msz
TIA    25.56 305 eP    18 32.60  -0.7
WHN    26.36 291 ePc   18 40.50  -0.1
       1.0s    28.00nm          4.8mb
BJI    27.85 312 eP    18 53.00  -1.2
       1.0s     6.00nm          4.2mb
     Z  24s     0.64um          4.1MszX
TIY    29.61 305 eP    19 10.00  -0.2
     Z  24s     1.08um          4.4MszX
YYYY   29.93 174 eP    19 05.20  -8.0X
HHC    31.38 311 P     19 25.00  -0.8
       1.2s    14.00nm          4.7mb
XAN    31.45 297 Pc    19 25.50  -0.9
       1.0s     8.90nm          4.6mb
     Z  27s     0.69um          4.2MszX
BTO    32.37 309 eP    19 33.00  -1.5
GYA    32.97 282 P     19 39.80   0.0
     Z  24s     1.07um          4.5MszX
                sP    19 52.40
CD2    35.47 290 iPc   20 00.40  -0.9
       1.0s    39.00nm          5.3mb
LZH    35.89 299 eP    20 04.50  -0.4
       1.0s    22.00nm          5.0mb
     Z  20s     0.69um          4.4Msz
CIT    36.10 329 eP    20 08.00   1.7
KMI    36.61 281 Pd    20 11.50   0.4
       1.5s    50.00nm          5.2mb
                sP    20 23.50
GTA    39.60 304 eP    20 34.80  -1.1
       1.0s     6.00nm          4.3mb
     Z  24s     0.66um          4.4MszX
                sP    20 47.50
CTA    43.67 176 iP    21 07.00  -2.1
                i     21 13.00  20kmX
WRA    44.23 192 P     21 30.00  16.3X
       0.9s     3.90nm
LEM    46.01 233 iPd   21 26.80  -1.4
LSA    46.40 289 Pd    21 33.00   1.4
       1.0s    18.00nm          5.0mb
                eS    28 18.00
TIK    48.61 354 iPd   21 51.00   3.3X
       1.2s    20.00nm          5.0mb
                e     22 07.00  62kmX
WMQ    49.19 308 iPc   21 53.00   0.2
       1.0s    21.00nm          5.1mb
     Z  10s     0.57um          4.9MszX
ILT    50.01  18 eP    22 15.00  16.5X
SDN    51.86  37 (P)   22 12.34  -0.4
       0.8s    36.95nm          5.4mb
ARMA   54.47 171 eP    22 43.70  11.2X
STK    55.31 181 eP    22 33.50  -4.9X
       3.1s     4.70nm          4.0mb X
CP2    57.36  31 eP    22 52.87  -0.2
FRU    58.72 307 eP    23 03.40   0.7
       1.6s    40.00nm          5.3mb
PMR    58.89  31 eP    23 02.34  -1.1
       0.9s    26.50nm          5.4mb
FBA    59.95  27 eP    23 10.30  -0.4
       0.5s     1.74nm          4.4mb
KLU    60.41  31 eP    23 13.72  -0.3
BALM   62.11  32 eP    23 24.30  -1.4
GBA    62.49 273 P     23 30.00   1.3
POO    64.18 280 eP    23 39.00  -0.8
INK    65.78  24 eP    23 49.50   0.2
       1.0s     3.00nm          4.3mb
SVE    66.36 323 iPd   23 54.00   0.8
                e     24 08.00  50kmX
ARU    67.53 323 iPc   24 00.20  -0.4
       1.0s   100.00nm          5.9mb X
                e     24 18.00  66kmX
                e     24 25.00
MAIO   71.38 302 eP    24 25.40   0.6
ASH    71.80 304 P     24 28.00   0.9
       0.5s   100.00nm          6.1mb X
YKA    74.74  28 eP    24 43.50  -0.3
       0.5s     3.90nm          4.7mb
RES    75.14  13 eP    24 46.50   0.6
       0.9s     6.00nm          4.6mb
GMW    75.59  44 eP    24 49.57   0.6
RMW    76.24  44 (P)   24 52.61  -0.2
LBFM   78.34  50 ePd   25 04.93   0.3
OBN    79.71 326 ePd   25 12.00   0.5
       1.0s    17.00nm          5.0mb
                i     25 24.00  40kmX
PYA    80.63 314 eP    25 18.00   1.3
                i     25 30.50  42kmX
CMB    80.65  53 eP    25 17.04   0.0
       1.0s    11.33nm          4.8mb
TAB    80.71 307 eP    25 20.00   2.6
KAF    80.82 335 iP    25 16.70  -0.6
       0.7s     4.90nm          4.6mb
BONR   82.20  52 eP    25 25.61   0.2
NUR    82.40 334 eP    25 26.00   0.5
SOC    83.01 315 eP    25 29.00  -0.1
DUG    85.10  48 eP    25 39.97   0.1
       0.6s     3.69nm          4.8mb
ARUT   85.75  51 eP    25 43.57   0.3
MSU    86.31  49 ePd   25 46.30   0.2
APO    86.44 337 ePKP  25 43.70  -2.3
       0.4s     1.50nm          4.6mb
EMUT   86.64  48 (P)   25 48.15   0.5
NB2    87.01 339 P     25 48.00  -0.8
       0.9s     3.20nm          4.6mb
SRU    87.17  48 eP    25 50.02  -0.2
ARE   146.86  84 e(PKP)32 47.00   1.6
LPB   149.96  82 PKP   32 49.00  -1.4
RFA   150.52 119 ePKPd 32 54.30   4.0X
RTCB  150.84 112 ePKPd 32 54.80   3.8X
RTLL  151.14 112 iPKPc 32 55.00   3.7X
      S.D. = 1.0  on  61 of  73 obs.
-----------------------------------
?  OCT  14, 1993  18h 31m 37.42± 2.38s
     0.384 S ±24.6km   12.691 W ±18.7km
   DEPTH =  10.0km  (geophysicist)
   4.2mb (  1 obs.)
 NORTH OF ASCENSION ISLAND        (407)

LIC    10.08  49 P     34 05.54   0.2
       0.4s    10.00nm          5.6mb X
     Z  20s     0.69um
                S     36 02.20
TIC    10.36  48 P     34 09.32   0.1
       0.2s     9.50nm          5.8mb X
                S     36 05.90
KIC    10.39  50 P     34 10.22   0.7
       0.5s    15.50nm          5.7mb X
                S     36 05.46
LKO    12.14  35 P     34 32.20  -1.2
       0.4s     5.00nm          5.2mb X
                S     36 45.28
KDS    12.88   2 iP    34 43.50   0.2
                iS    37 05.00
GEC2   54.07  21 P     41 05.10   0.6
       1.1s     2.63nm          4.2mb
                e     41 11.90
                e     41 14.50
                e     41 19.90
                e     43 09.20
MAIO   75.92  52 eP    43 26.00  -0.5
WRA   141.91 124 PKP   51 02.80  -9.5X
       0.7s     0.40nm
      S.D. = 0.8  on   7 of   8 obs.
-----------------------------------
?  OCT  14, 1993  18h 43m 13.85± 2.42s
   40.542 N ±30.8km   29.937 E ±10.3km
   DEPTH =   5.0km  (geophysicist)
 TURKEY                           (366)
      ML 2.7 (ISK).

EYL     0.17  82 ePg   43 17.40   0.0
HRT     0.35 324 ePg   43 20.90   0.1
                eSg    43 23.90
ISK     0.85 308 iPg   43 30.50  -0.2
CTT     1.29 298 iPn   43 38.40   0.1
      S.D. = 0.2  on   4 of   4 obs.
-----------------------------------
   OCT  14, 1993  18h 51m 58.18± 0.47s
   44.052 N ± 3.7km    7.822 E ± 3.4km
   DEPTH =   5.0km  (geophysicist)
 NORTHERN ITALY                   (545)
      ML 2.7 (GEN).

IMI     0.15 161 Pc    52 00.67  -0.6
                S     52 02.35
SAOF    0.20 251 Pg    52 02.29  -0.1
ROB     0.25   8 Pc    52 04.07   0.9
                S     52 08.41
AUTN    0.29 259 Pg    52 04.35   0.3
FIN     0.32  60 Pc    52 04.87   0.2
                S     52 09.94
AURF    0.39 245 Pg    52 05.60  -0.5
                Sg    52 11.67
STV     0.41 298 P     52 06.51   0.2
                S     52 11.91
TOUF    0.42 265 Pg    52 06.66   0.1
REVF    0.45 227 Pg    52 08.35   1.1
                Sg    52 14.09
MVIF    0.51 252 Pg    52 08.24  -0.1
                Sg    52 15.72
PZZ     0.69 311 P     52 11.96   0.0
                S     52 21.20
PCP     0.71  46 P     52 12.50   0.0
                S     52 22.02
BHB     0.89 333 P     52 15.16  -0.5
                S     52 26.90
RSP     1.17 340 P     52 19.70  -0.9
      S.D. = 0.6  on  14 of  14 obs.
-----------------------------------
   OCT  14, 1993  19h 10m 49.71± 0.56s
   39.036 N ± 4.8km   29.753 E ± 7.5km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 3.2 (ISK).

ALT     0.28  86 iPg   10 55.80   0.2
                eSg    11 00.00
KHL     0.73 194 iPg   11 02.80  -1.4
                eSg    11 12.00
IZI     1.32 351 ePn   11 14.00  -0.1
GPA     1.32  19 iPn   11 14.80   0.7
EYL     1.56  11 iPn   11 18.40   0.8
BCK     1.71 157 ePn   11 19.00  -0.7
HRT     1.78 358 ePn   11 20.90   0.1
BNT     1.93 314 ePn   11 22.90   0.0
CIN     1.94 223 eP    11 26.00   2.9
EDC     1.96 313 ePn   11 22.40  -0.9
ISK     2.10 345 ePn   11 24.90  -0.4
ELL     2.29 177 ePn   11 28.00  -0.2
CTT     2.34 335 iPn   11 27.90  -0.9
      S.D. = 1.2  on  13 of  13 obs.
-----------------------------------
   OCT  14, 1993  19h 48m 39.15± 0.38s
   6.140 S ± 4.9km  146.298 E ± 6.8km
   DEPTH =  22.3km  (  4 depth phases)
   4.6mb ( 10 obs.)  4.5Msz (  1 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.8 (PMG).

YYYY    0.34 253 eP    48 46.00  -0.8
MDG     1.02 330 eP    48 57.40  -0.6
MNDI    2.63 270 eP    49 26.50   5.2X
```

```
PMG      3.36 165 eP     49 31.50    0.1
WWKK     3.65 313 eP     49 41.80    6.0X
KVG      5.72  52 eP     50 11.60    6.7X
RAB      6.15  72 eP     50 10.00   -1.1
CTA     13.86 180 e(P)   51 53.00   -3.7X
WR2     17.97 219 iPd    52 49.00   -0.4
         1.0s    18.60nm          4.2mb
                   eS    55 50.80
ASPA    21.12 213 eP     53 25.80    0.9
      Z  19s     2.10um          4.5Msz
                  ipP    53 30.90   19km
                   eS    57 21.90
                  iPcS   01 52.70
ARMA    24.67 169 eP     54 00.40    0.6
         0.7s    7.00nm          4.4mb
STK     25.98 189 eP     54 10.80   -1.3
         0.4s    2.20nm          4.2mb
BWA     28.21 176 eP     54 32.30   -0.2
CAN     29.15 175 eP     54 35.40   -5.5X
TOO     31.29 181 eP     55 00.00    0.1
IPM     46.44 282 ePc    57 06.00   -0.6
KMI     52.53 308 eP     57 55.00    1.4
         1.5s   50.00nm          5.2mb
                   pP    58 02.50   25km
XAN     53.35 321 eP     57 58.00   -1.2
         1.0s    8.90nm          4.7mb
                   pP    58 05.50   25km
BJI     53.69 331 eP     58 01.50    0.0
         1.0s    6.00nm          4.5mb
TIY     53.84 327 eP     58 03.00    0.2
      Z  16s     0.48um          4.7MszX
CD2     54.87 315 eP     58 10.00   -0.5
HHC     56.59 329 Pc     58 23.60    0.8
         1.2s   12.00nm          4.8mb
LZH     57.86 320 eP     58 33.00    1.1
         1.0s   32.00nm          5.3mb
GTA     62.40 321 eP     59 03.00    0.0
         1.0s    5.00nm          4.6mb
                   pP    59 09.50   21km
LSA     63.77 307 eP     59 13.00    0.4
GBA     71.11 287 P      59 58.00   -0.3
SPA     83.90 180 iPc    01 05.10   -3.4X
         0.7s    2.34nm          4.5mb
CNCB   139.15 124 PKP    08 09.00    1.2
LPB    139.19 124 (PKP)  07 53.00  -14.7X
LPAZ   139.29 124 ePKP   07 59.00   -9.2X
PPD    147.11 149 (PKP)  08 24.00    3.3X
KIC    151.21 272 PKP    08 33.56    6.3X
         0.8s   16.50nm
LIC    151.49 272 PKP    08 33.48    5.8X
         0.7s   13.50nm
TIC    151.49 273 PKP    08 33.40    5.7X
         0.5s    5.50nm
LKO    151.95 279 PKP    08 34.89    6.5X
         0.5s    8.00nm
      S.D. = 0.8  on  22 of  35 obs.
-----------------------------------
?  OCT  14, 1993  19h 57m 02.85± 1.36s
    6.010 S ±10.5km  146.086 E ±27.3km
   DEPTH =  33.0km  (normal)
 EASTERN NEW GUINEA REG., P.N.G.  (207)
      ML 4.2 (PMG).

YYYY     0.26 207 iPd     57 08.40   -1.9
MDG      0.81 338 eP      57 16.60   -1.3
MNDI     2.42 266 eP      57 47.00    5.8X
WWKK     3.41 314 eP      58 02.30    7.2X
PMG      3.54 163 eP      57 57.00    0.2
WR2     17.94 218 eP      01 12.50    1.0
         1.0s   10.20nm          3.9mb
WRA     17.95 218 P       01 03.20   -8.5X
         0.6s    0.50nm          2.8mb
GUN     67.11 304 P       07 55.60   -0.6
KKN     67.57 303 P       07 58.40   -0.5
DMN     67.65 303 P       08 01.20    1.7
GKN     68.18 303 P       08 04.00    1.4
LKO    151.72 279 PKP     16 57.93    7.8X
         1.0s   10.00nm
      S.D. = 1.5  on   8 of  12 obs.
-----------------------------------
&  OCT  14, 1993  20h 15m 21.50s
   35.004 N          116.903 W
   DEPTH =   6.0km
 CENTRAL CALIFORNIA                ( 39)
      <PAS-P>. ML 2.8 (PAS). Felt.

GSC      0.31  15 eP     15 27.37   -0.4
SSK      1.03 220 iPd    15 40.28   -1.1
                  eS     15 53.93
PEC      1.13 191 eP     15 41.96   -1.1
                  eS     15 57.33
ISA      1.44 298 eP     15 47.83   -0.4
                  eS     16 07.92
PLM      1.65 179 eP     15 51.71    0.5
                  eS     16 14.62
ABL      1.91 266 eP     15 56.95    1.8
                  eS     16 24.84
TPNV     2.01  15 eP     15 58.88    2.4
                  eS     16 25.82
BCH      2.61 275 eP     16 08.54    3.4
         8 obs. associated
-----------------------------------
?  OCT  14, 1993  20h 20m 02.84± 1.16s
   52.829 N ±28.5km  169.595 E ±10.8km
   DEPTH =  33.0km  (normal)
   4.1mb (  6 obs.)
 SOUTH OF ALEUTIAN ISLANDS         ( 16)

TTA     20.63  47 (P)    24 42.00    0.3
AUP     21.42  58 (P)    24 48.72   -1.0
KDC     21.93  62 (P)    24 53.45   -1.3
IMA     22.46  40 eP     25 01.70    1.5
         0.8s    3.50nm          3.9mb
PMR     23.63  52 (P)    25 09.57   -1.8
FBA     24.58  44 eP     25 20.82    0.3
         0.6s    5.71nm          4.3mb
                   e     25 31.03
TOA     25.05  51 eP     25 27.30    2.1
KLU     25.16  52 (P)    25 26.28    0.0
BALM    26.91  53 eP     25 41.56   -0.9
INK     30.56  38 eP     26 15.00    0.0
YKA     39.37  45 eP     27 30.70    0.4
         0.8s    2.60nm          4.0mb
PV10    55.74  70 eP     29 39.57    0.9
GUN     64.60 283 P      30 40.40    0.9
KKN     65.05 283 P      30 42.20    0.0
PKI     65.13 283 P      30 42.40   -0.5
NB2     65.18 349 P      30 43.90    1.5
         0.6s    2.40nm          4.5mb
GKN     65.27 284 P      30 43.40   -0.2
LTX     65.32  74 (P)    30 44.19    0.4
SLL     65.46 347 eP     30 41.70   -2.4
         0.4s    0.60nm          4.0mb
GEC2    76.65 344 P      31 51.60   -0.1
         1.0s    1.78nm          4.0mb
WRA     78.66 214 P      32 18.50   15.6X
         0.8s    0.90nm
      S.D. = 1.2  on  20 of  21 obs.
-----------------------------------
%  OCT  14, 1993  20h 34m 54.64± 1.05s
   31.156 S ±18.8km   68.339 W ±12.7km
   DEPTH = 100.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA      (137)

RTLL     0.21 213 ePc    35 09.20   -0.2
                  S      35 20.00
CFA      0.46 169 ePd    35 10.90    0.5
                  S      35 23.00
RTCB     0.51 230 iPc    35 10.70   -0.2
                  S      35 22.00
RTPR     1.79  62 eP     35 25.00    0.1
                  S      35 48.00
MRA      2.57 120 iPc    35 35.00   -0.2
      S.D. = 0.4  on   5 of   5 obs.
-----------------------------------
*  OCT  14, 1993  20h 59m 52.09± 0.88s
   17.750 S ±10.4km  178.863 W ±12.2km
   DEPTH = 585.5 ±  8.6 km
   4.8mb ( 17 obs.)
 FIJI ISLANDS REGION               (181)

VUN      2.56 264 eP     01 07.50   -0.6
SVA      2.58 261 eP     01 08.20    0.0
BKM     12.29 268 iP     02 34.90    1.1
DZM     14.47 250 iPc    02 55.90    0.6
OUZ     18.65 200 eP     03 37.90    2.7
URZ     20.74 189 eP     03 51.90   -2.5
ARMA    29.65 239 iPd    05 13.70    0.4
         0.6s   28.00nm          5.1mb
CTA     33.05 260 iPc    05 41.00   -0.9
         1.0s   20.00nm          4.7mb
CNB     33.18 232 iPd    05 44.10    1.1
         0.6s   48.00nm          5.3mb
CAN     33.46 232 eP     05 45.80    0.5
BWA     33.56 234 eP     05 44.40   -1.7
PMG     34.01 280 iPd    05 50.80    0.9
MDG     36.72 285 eP     06 14.00    1.7
TOO     36.94 230 iPd    06 15.30    1.4
         0.7s   58.00nm          5.3mb
STK     38.33 241 iPc    06 25.90    0.6
         0.5s   21.00nm          5.0mb
ADE     41.36 237 iPd    06 50.20    0.6
WR2     44.21 259 iPc    07 10.80   -1.3
         0.6s   46.30nm          5.2mb
WRA     44.23 259 P      07 11.10   -1.2
         0.6s   12.40nm          4.6mb
ASPA    44.42 254 iPd    07 13.40   -0.3
         0.6s  250.70nm          5.9mb X
                  iS     13 05.60
                  iScS   16 08.80
GUA     47.37 309 eP     07 35.60   -0.7
         0.8s  179.10nm          5.7mb
GUMO    47.44 309 eP     07 35.80   -0.9
MTN     48.37 268 iPc    07 42.70   -1.2
         0.8s   87.00nm          5.3mb
FORT    49.68 244 iPc    07 52.60   -0.7
         0.5s   20.00nm          4.9mb
MBL     57.60 256 eP     08 57.20    7.9X
         0.3s   10.00nm          4.6mb
KLB     58.51 243 eP     08 53.90   -1.5
         0.8s   34.00nm          4.7mb
MUN     59.81 243 eP     09 03.80   -0.2
         0.8s   42.00nm          4.7mb
MRWA    60.17 246 eP     09 05.50   -0.9
         0.5s    8.00nm          4.3mb
LEM     72.29 268 iPc    10 22.00    0.7
MDJ     77.81 325 eP     10 50.50   -0.4
         1.0s    9.70nm          4.2mb
BONR    79.36  44 eP     10 59.61    0.0
BJI     83.37 316 eP     11 19.00   -0.4
         1.2s    8.00nm          4.2mb
TIY     84.84 312 Pc     11 28.00    1.2
XAN     85.82 308 P      11 32.00    0.4
         1.0s   14.00nm          4.6mb
ALQ     86.34  52 eP     11 34.00   -0.3
CLL    145.21 347 iPKP   18 25.30    0.5
BRG    145.41 346 i(PKP) 18 26.40    1.2
KHC    147.11 345 ePKP   18 32.00    4.0X
GEC2   147.35 345 PKP    18 31.50    3.0X
         0.6s    1.29nm
                   e     18 35.10
      S.D. = 1.1  on  35 of  38 obs.
-----------------------------------
&  OCT  14, 1993  21h 19m 29.00s
   47.502 N          116.069 W
   DEPTH =   1.0km  (geophysicist)
 WESTERN IDAHO                     ( 33)
      <BUT>. ML 2.9 (BUT). Rockburst
      at the Sunshine Mine. Felt in
      the area near the mine.

NEW      1.04 318 ePd    19 49.16   -0.3
DPW      1.49 285 ePd    19 56.88   -0.1
                  eS     20 13.50
OD2      1.80 267 Pd     20 00.62   -0.8
WRD      2.16 257 P      20 05.67   -1.0
SAW      2.26 276 Pd     20 07.23   -1.0
CRF      2.36 255 P      20 08.34   -1.2
EPH      2.40 268 P      20 09.22   -0.9
DHW2     2.54 282 P      20 11.28   -0.9
WTV      2.64 276 P      20 12.46   -1.0
BVW      2.69 257 P      20 13.11   -1.2
CBSW     2.70 278 P      20 13.32   -1.1
ETW      2.89 274 Pd     20 15.93   -1.3
HBMT     2.93 124 P      20 18.70    0.8
NLW      2.94 283 P      20 16.61   -1.2
HRY      3.00 104 ePn    20 23.70    5.0
LRM      3.01 123 ePn    20 19.10    0.2
TBM      3.10 266 P      20 18.73   -1.3
EBG      3.12 261 P      20 19.53   -0.9
MCMT     3.49 139 ePn    20 26.60    0.8
BGMT     3.60 128 P      20 27.30    0.0
SXM      3.60 110 ePn    20 28.60    1.3
WPW      3.83 260 P      20 29.91   -0.6
FMW      3.86 264 P      20 29.52   -1.5
         23 obs. associated
-----------------------------------
?  OCT  14, 1993  21h 22m 01.36± 1.12s
   32.482 S ± 7.5km   68.761 W ±16.6km
   DEPTH =  33.0km  (normal)
 MENDOZA PROVINCE, ARGENTINA       (139)
```

14d 21h

```
RTCV    0.65  17 iPc   22 13.50  -0.6
RTCB    0.99 358 iPc   22 19.20   0.1
                 S     22 32.50
RTLL    1.18  12 ePd   22 22.00   0.4
                 S     22 37.70
RFA     2.30 174 ePd   22 37.70   0.0
                 S     23 14.00
MRA     2.58  89 ePc   22 41.80   0.1
                 S     23 23.70
CYA     4.77  33 ePd   23 45.70  32.9X
     S.D. = 0.5  on   5 of   6 obs.
-------------------------------------
   OCT  14, 1993  21h 50m 44.01± 0.71s
   45.855 N ± 7.1km   14.888 E ± 5.9km
   DEPTH =  10.0km  (geophysicist)
 NORTHWESTERN BALKAN REGION       (383)
      MD 2.9 (LJU). Felt (IV) at
      Ambrus and Zagradec, Slovenia.

LJU     0.31 307 iPg   50 49.80  -0.7
LJU     0.31 307 iPg   50 50.00  -0.5
                 i     50 50.50
                 iSg   50 53.80
CEY     0.34 250 ePg   50 51.50   0.4
                 eSg   50 57.50
VBY     0.44 144 iPgc  50 52.90   0.0
                 iSg   50 59.40
RIY     0.62 215 ePg   50 56.50   0.0
                 iSg   51 05.50
VOY     0.72 285 ePg   50 57.50  -0.7
                 eSg   51 07.20
PTJ     0.75  86 iPgc  50 58.40  -0.3
                 iSg   51 00.30
KBA     1.62 319 iPgc  51 14.70   1.8
                 iSg   51 36.00
     S.D. = 1.0  on   8 of   8 obs.
-------------------------------------
&  OCT  14, 1993  22h 57m 41.82s
   63.061 N          150.958 W
   DEPTH = 131.0km
 CENTRAL ALASKA                   (  1)
      <AEIC>.

KTH     0.49   2 iPd   58 00.91  -0.4
                 eS    58 14.55
TRF     0.50  37 iPc   58 01.06  -0.4
                 eS    58 15.91
HUR     0.61  97 ePc   58 01.32  -0.6
                 eS    58 16.66
CUT     0.73 154 iPc   58 02.55  -0.2
RND     1.01  69 ePc   58 04.73  -0.6
                 eS    58 22.14
SKT     1.12 194 eP    58 05.89  -0.4
                 eS    58 24.14
                 eS    58 24.15
MCK     1.13  53 iPd   58 05.94  -0.5
                 eS    58 23.93
BWN     1.30  30 iPd   58 07.99  -0.1
PWA     1.50 160 P     58 10.30   0.0
GHO     1.60 143 iPc   58 11.10  -0.5
                 eS    58 34.18
DHY     1.63  88 ePc   58 11.36  -0.7
                 eS    58 33.68
PLRM    1.70 149 ePc   58 11.72  -0.9
                 eS    58 35.00
PMR     1.70 149 eP    58 11.38  -1.3
                 eS    58 34.52
NEA     1.74  28 iPd   58 11.84  -1.2
                 eS    58 34.01
SML     1.75 135 iPc   58 12.42  -0.9
                 eS    58 37.08
NCG     1.76 199 iPd   58 12.80  -0.6
                 eS    58 37.15
CGLM    1.83 196 eP    58 13.56  -0.7
CRP     1.89 198 iPd   58 13.91  -1.1
                 eS    58 39.55
CP2     1.90 199 iPd   58 14.46  -0.8
WRH     1.90  41 iPd   58 14.05  -1.0
BGL     1.93 201 eP    58 15.20  -0.3
CKN     1.93 198 eP    58 15.14  -0.3
PMS     1.94 160 eP    58 14.90  -0.7
SPU     1.96 196 iPd   58 14.99  -0.8
                 eS    58 40.28
CKT     1.96 198 eP    58 15.16  -0.7
MLY     1.98   3 iPd   58 14.99  -1.1
CKL     1.98 200 eP    58 15.67  -0.5
KNK     2.03 144 ePc   58 15.64  -1.0
SCM     2.09 125 ePc   58 16.16  -1.3
                 eS    58 44.48
BKG     2.09 198 ePd   58 16.63  -0.9
CCB     2.12  40 iPd   58 16.52  -1.2
HDA     2.23  51 ePd   58 17.96  -1.2
                 eS    58 47.13
MDM     2.25  31 iPd   58 18.26  -1.2
TTA     2.31 269 iPd   58 19.06  -1.2
FBA     2.31  36 iPd   58 18.74  -1.5
NKA     2.33 183 eP    58 22.37   2.0
THY     2.38  79 eP    58 21.42   0.3
CFI     2.41 140 eP    58 20.08  -1.3
TOA     2.41 111 P     58 20.80  -0.7
IL1     2.49  45 iPd   58 21.02  -1.4
ILB     2.49  45 iPd   58 21.03  -1.4
                 eS    58 50.36
GLM     2.49  38 ePd   58 21.37  -1.2
PAX     2.50  90 eP    58 21.88  -0.9
                 eS    58 52.23
PWL     2.53 150 eP    58 21.99  -1.0
SDG     2.55 100 eP    58 22.56  -0.6
DJE     2.56  65 eP    58 22.69  -0.6
SLKM    2.59 172 eP    58 22.93  -0.8
RDT     2.59 196 eP    58 22.94  -0.9
DFR     2.61 199 eP    58 22.98  -1.1
NCT     2.68 201 eP    58 24.26  -0.7
MPA     2.69 163 eP    58 23.83  -1.2
REF     2.71 199 ePd   58 24.84  -0.7
                 eS    58 57.30
RDW     2.73 200 ePd   58 25.29  -0.5
KLU     2.83 122 ePc   58 24.97  -2.0
                 eS    58 59.03
VZW     2.89 132 ePc   58 25.74  -1.9
VLZ     2.91 130 eP    58 25.70  -2.2
                 eS    59 00.14
SVW     2.94 230 iPd   58 26.88  -1.5
SEW     3.05 166 eP    58 28.61  -1.1
FID     3.14 136 eP    58 29.14  -1.8
ILIM    3.14 199 eP    58 29.96  -1.0
DOT     3.16  76 ePd   58 29.74  -1.5
IM3     3.17 339 iPd   58 30.06  -1.3
IMA     3.24 340 eP    58 30.56  -1.8
BRLK    3.31 179 eP    58 32.38  -0.8
                 eS    59 09.28
HIN     3.41 140 eP    58 32.91  -1.6
CVA     3.53 133 eP    58 34.80  -1.3
OPT     3.59 199 eP    58 36.35  -0.6
PDB     3.63 207 ePd   58 36.70  -0.8
GLB     3.72 113 ePc   58 37.10  -1.5
                 eS    59 19.24
SGAM    3.75 131 eP    58 36.91  -2.1
AUL     3.88 199 eP    58 40.27  -0.5
AUP     3.90 199 eP    58 39.66  -1.4
AUW     3.90 199 eP    58 40.40  -0.6
AUH     3.90 199 eP    58 40.32  -0.8
RAGM    4.02 129 eP    58 41.18  -1.5
BC3     4.17  86 ePd   58 42.77  -2.0
HMT     4.20 128 eP    58 43.09  -2.0
CDD     4.35 199 eP    58 45.52  -1.6
CRQM    4.36 119 eP    58 45.70  -1.7
KAIM    4.44 132 eP    58 46.39  -1.9
TGL     4.49 117 eP    58 46.96  -2.1
BALM    4.53 113 eP    58 47.62  -2.1
CTGM    5.00 111 eP    58 54.98  -1.0
BM3     5.12  29 ePd   58 55.51  -2.1
YAH     5.15 118 eP    58 56.06  -2.0
KDC     5.39 189 eP    58 58.02  -3.0
        86 obs. associated
-------------------------------------
   OCT  15, 1993  00h 11m 35.96± 0.24s
    6.033 S ± 4.2km  146.198 E ± 6.1km
   DEPTH =  21.7km  (  5 depth phases)
   5.2mb ( 33 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 5.7 (PMG).

YYYY    0.31 228 iPd   11 42.70  -0.3
MDG     0.88 332 iPd   11 52.60   0.1
MNDI    2.53 267 eP    12 21.00   4.2X
PMG     3.48 164 iPc   12 31.00   0.9
                 eS    13 33.00
KVG     5.73  54 eP    13 10.40   8.4X
CTA    13.97 180 iPc   14 37.00 -18.0X
        0.8s     7.46nm
                 i     15 15.00
                 iS    17 45.00
QIS    15.79 203 eP    15 20.00   1.2
MTN    16.33 244 eP    15 24.80  -0.8
WR2    17.99 219 iPc   15 46.20  -0.3
        1.1s    66.20nm          4.7mb
                 eS    19 11.10
GUA    19.49 356 e(P)  16 05.70   1.0
GUMO   19.54 356 eP    16 03.10  -2.2
        1.6s   151.70nm          5.0mb
                 e     16 07.60  18km
ASPA   21.15 213 iPc   16 20.80  -1.3
        1.2s    45.00nm          4.8mb
     Z  19s     1.60um           4.4Msz
                 ipP   16 26.10  19km
                 eS    20 20.20
BRS    22.14 164 eP    16 36.00   4.0X
BKM    24.44 120 iP    16 56.00   1.5
DZM    25.24 131 iPc   17 01.60  -0.6
CTB    25.58 301 eP    17 08.00   2.6
STK    26.07 189 eP    17 08.90  -0.9
        0.8s     7.90nm          4.4mb
                 eS    21 43.80
CNB    29.29 175 eP    17 39.00  -0.1
TSM    30.09 289 eP    17 46.00  -0.4
TOO    31.40 181 eP    17 58.00   0.3
        0.8s    22.00nm          5.1mb
KKM    32.24 291 ePc   18 08.50   3.1X
QIZ    43.62 306 eP    19 41.00   0.2
SSE    43.99 329 Pc    19 43.50   0.0
        1.0s    21.00nm          4.9mb
NJ2    45.97 327 Pd    20 00.00   0.6
IPM    46.32 282 ePd   20 03.00   0.5
        0.8s    47.90nm          5.5mb
WHN    47.46 322 Pd    20 12.50   1.3
TIA    50.09 329 eP    20 29.70  -1.8
GYA    50.11 312 P     20 32.60   0.7
        1.0s    16.00nm          5.0mb
SNY    51.92 339 Pc    20 44.60  -0.7
        0.8s    15.00nm          5.0mb
KMI    52.39 308 Pc    20 50.00   0.6
        1.0s    50.00nm          5.4mb
MDJ    52.58 345 eP    20 49.70  -0.5
        0.8s    19.00nm          5.1mb
CN2    53.03 341 P     20 53.50  -0.1
        0.8s     6.00nm          4.6mb
     Z  18s     0.30um           4.4Msz
                 epP   21 05.00  40kmX
XAN    53.20 321 P     20 54.00  -1.1
        1.2s    53.00nm          5.4mb
BJI    53.55 331 eP    20 57.00  -0.3
        1.5s    25.00nm          5.0mb
     Z  20s     0.30um           4.3Msz
TIY    53.69 327 eP    20 57.60  -1.0
CD2    54.73 315 iPc   21 05.70  -0.6
        0.8s    76.00nm          5.8mb
HHC    56.44 329 Pd    21 19.00   0.4
        1.4s    62.00nm          5.4mb
BTO    57.07 328 eP    21 22.00  -1.1
LZH    57.72 320 Pc    21 28.00   0.2
        1.5s    93.00nm          5.6mb
                 pP    21 40.00  42kmX
GTA    62.26 321 iPc   21 59.00   0.1
        1.0s    28.00nm          5.4mb
                 pP    22 04.60  18km
                 S     30 25.00
LSA    63.62 307 Pc    22 09.20   0.7
        1.0s   480.00nm          6.6mb X
                 eS    30 44.00
CIT    64.15 338 eP    22 11.00  -0.1
CSY    65.03 195 iPd   22 17.20   0.8
        1.4s    11.80nm          4.8mb
YAK    69.04 352 iPd   22 41.20  -0.6
        1.5s    88.00nm          5.7mb
HYB    70.73 291 eP    22 52.00  -1.0
        1.0s    50.00nm          5.6mb
GBA    70.98 287 Pc    22 51.00  -3.5X
WMQ    72.30 320 iPc   23 02.00   0.0
        1.0s    42.00nm          5.4mb
POO    75.34 291 iPc   23 21.90   1.8
        1.2s    59.38nm          5.5mb
ILT    77.80  13 iPd   23 33.60   0.8
        1.1s    84.00nm          5.7mb
KSH    78.78 312 P     23 40.80   1.8
        1.4s    78.00nm          5.5mb
                 pP    23 48.70  25km
                 sP    23 51.00
SVW    80.60  25 eP    23 49.27   1.1
        1.1s    38.43nm          5.3mb
FRU    80.77 315 eP    23 50.00   0.5
```

```
        2.0s    40.00nm          5.1mb
TTA    81.39  23 eP    23 53.00   0.6
MAW    81.91 203 iP    23 55.00   0.1
        0.9s    16.45nm          5.1mb
SLKM   82.63  27 eP    23 58.20  -0.6
PMR    83.58  26 eP    24 03.20  -0.4
IMA    83.87  21 eP    24 05.90   0.7
        1.1s    15.10nm          5.1mb
SPA    84.00 180 iPc   24 03.60  -2.3
        0.8s    48.75nm          5.8mb
NRI    84.93 342 iPc   24 09.00  -1.2
        1.4s    25.00nm          5.3mb
                   e    24 18.00  28km
KLU    84.95  26 eP    24 10.95   0.3
TOA    85.07  26 eP    24 11.90   0.7
FBA    85.52  23 eP    24 12.43  -0.9
        0.9s    11.35nm          5.1mb
MAIO   90.88 306 eP    24 40.00   0.4
INK    91.98  22 eP    24 44.00   0.1
        1.0s     2.00nm          4.5mb
KMPM   93.62  50 eP    24 54.03   1.9
ORV    95.57  51 eP    25 01.58   0.5
RMW    95.75  43 eP    25 02.47   0.7
BUL   113.39 245 iPKPc 30 15.90   0.9
PPM   115.72  72 ePKP  30 26.50   6.5X
IISM  116.91  72 (PKP) 30 20.50  -1.0
LVVM  117.74  71 (PKP) 30 19.00  -4.1X
ZST   119.82 323 ePKP  30 23.80  -2.5
GEC2  121.48 325 PKP   30 27.70  -1.9
        0.8s     0.80nm
CNCB  139.29 124 PKP   30 56.80  -8.2X
LPB   139.34 124 PKP   31 00.00  -4.9X
LPAZ  139.43 124 PKP   30 54.80 -10.5X
CCH   140.48 127 PKP   31 04.00  -2.8
SDV   143.38  83 ePKP  31 09.90  -1.9
TOV   144.17  82 ePKPc 31 11.60  -1.4
RSTA  146.09 155 ePKP  31 17.20   1.3
PPD   147.26 149 ePKP  31 19.60   1.8
VAO2  148.37 157 ePKP  31 23.60   3.9X
KIC   151.11 272 PKP   31 24.62   0.6
        1.0s   119.00nm
TIC   151.39 273 PKP   31 25.16   0.7
        0.9s   105.00nm
LIC   151.39 272 PKP   31 25.28   0.9
        0.8s   111.00nm
LKO   151.84 279 PKP   31 25.32   0.2
        0.9s   196.50nm
BDFB  154.27 147 ePKP  31 28.29  -0.2
                 iPKPbc31 37.61
KDS   157.74 289 ePKP  31 34.00   1.1
SOB1  163.29 155 ePKP  31 33.70  -5.1X
     S.D. = 1.1  on  76 of  89 obs.
-----------------------------------
&  OCT  15, 1993  00h 38m 27.36s
   60.726 N          152.249 W
   DEPTH =  96.1km
 SOUTHERN ALASKA                  (  2)
     <AEIC>.

DFR     0.25 238 eP    38 40.64   0.7
                eS    38 52.00
REF     0.33 223 iP    38 41.24  -0.8
                eS    38 52.73
BKG     0.35 359 eP    38 41.41  -0.6
RS2     0.36 224 iP    38 41.54  -0.8
RSO     0.36 223 eP    38 41.63  -0.7
RDW     0.37 229 iP    38 41.60  -0.7
                eS    38 52.82
NCT     0.37 244 iP    38 41.54  -0.7
                eS    38 52.92
RED     0.40 220 eP    38 41.33  -1.1
                eS    38 52.98
SPU     0.47  12 iP    38 41.99  -0.8
CKL     0.47 355 iP    38 42.14  -0.8
CKT     0.48   2 iP    38 42.02  -0.9
                eS    38 54.16
NKA     0.50  88 iP    38 44.32   1.4
CKN     0.50   4 iP    38 42.42  -0.6
CP2     0.54   0 iP    38 42.85  -0.7
BGL     0.54 353 iP    38 42.81  -0.6
CRP     0.54   5 iP    38 42.84  -0.7
                eS    38 55.22
CGLM    0.60  11 iP    38 43.07  -0.8
NCG     0.68   4 iP    38 43.91  -0.7
ILIM    0.74 209 eP    38 44.00  -1.1
INE     0.78 212 eP    38 44.49  -1.1
SLKM    1.02 101 iP    38 47.24  -0.8
HOM     1.11 164 eP    38 48.88  -0.2
BRLK    1.18 144 eP    38 48.87  -1.0
                eS    39 05.83
OPT     1.18 205 iP    38 49.14  -0.8
                eS    39 07.13
SKT     1.31  15 eP    38 50.35  -1.1
CNPM    1.31 157 eP    38 50.42  -1.0
PDB     1.35 227 iP    38 50.49  -1.4
PMS     1.41  67 P     38 52.20  -0.5
MPA     1.44  98 eP    38 52.05  -1.0
AUL     1.47 204 eP    38 52.64  -0.8
PWA     1.48  50 P     38 53.50   0.0
AUE     1.48 203 eP    38 52.33  -1.2
AUP     1.49 204 eP    38 52.80  -1.0
AUH     1.49 204 eP    38 52.87  -0.9
AUW     1.49 205 eP    38 52.71  -1.0
SEW     1.52 113 eP    38 52.81  -1.2
SVW     1.69 285 P     38 54.50  -1.8
PLRM    1.74  59 eP    38 55.35  -1.5
GHO     1.92  55 eP    38 57.73  -1.6
PWL     1.92  84 eP    38 57.38  -1.9
CUT     1.93  28 eP    38 58.60  -0.8
CDD     1.93 202 eP    38 57.68  -1.8
KNK     1.97  68 iP    38 58.28  -1.6
SML     2.18  58 eP    39 00.96  -1.8
CFI     2.23  76 eP    39 01.17  -2.2
KNIM    2.26  98 eP    39 04.04   0.2
MTU     2.40 106 eP    39 04.14  -1.5
HUR     2.58  28 eP    39 07.90  -0.2
SCM     2.62  63 eP    39 07.27  -1.5
VZW     2.80  81 eP    39 08.94  -2.2
FID     2.83  87 eP    39 08.41  -3.1
HIN     2.86  94 eP    39 09.63  -2.3
TRF     2.89  18 eP    39 10.84  -1.6
KTH     2.91  12 eP    39 10.86  -1.7
VLZ     2.92  79 eP    39 10.39  -2.2
RND     3.13  29 eP    39 14.02  -1.6
KLU     3.17  73 eP    39 13.54  -2.6
CVA     3.21  90 eP    39 14.71  -1.9
TOA     3.23  62 eP    39 15.47  -1.6
DHY     3.30  42 eP    39 16.58  -1.5
TZL     3.54  65 eP    39 19.59  -1.6
SDG     3.68  58 eP    39 21.53  -1.6
PAX     3.92  52 eP    39 24.96  -1.6
GLB     4.16  76 eP    39 27.18  -2.6
HDA     4.43  31 eP    39 31.50  -2.0
CCB     4.44  26 eP    39 30.83  -2.7
IL1     4.75  29 eP    39 35.33  -2.5
ILB     4.75  29 eP    39 35.41  -2.5
BALM    4.85  82 eP    39 36.06  -3.3
IM3     5.32 353 eP    39 42.99  -2.8
BC3     5.48  60 eP    39 45.42  -2.6
       71 obs. associated
-----------------------------------
   OCT  15, 1993  00h 43m 54.61± 0.26s
   22.231 S ± 6.7km  175.109 W ± 7.0km
   DEPTH =  33.0km  (normal)
   5.0mb ( 21 obs.)  4.9Msz (  1 obs.)
 TONGA ISLANDS REGION             (174)

SVA     7.30 303 eP    45 43.20   1.6
                eS    47 33.10
VUN     7.36 304 iPc   45 43.50   1.0
BKM    16.29 283 iPc   47 42.00  -0.7
DZM    17.09 267 iPc   47 51.90  -0.9
NOZ    17.36 198 eP    48 03.80   7.9X
MNG    19.99 201 eP    48 26.70  -0.4
QRZ    21.28 207 eP    48 41.80   1.4
THZ    21.93 205 eP    48 48.20   1.2
LTZ    23.04 204 eP    48 58.40   0.5
LMZ    25.03 207 eP    49 14.80  -2.3
BWZ    25.45 206 eP    49 21.00   0.0
CTA    36.03 266 iPd   50 48.50  -6.5X
        0.8s     9.33nm          4.8mb
                  i    56 49.00
STK    39.52 246 eP    51 18.80  -5.3X
        0.4s     3.10nm          4.4mb
ASPA   46.77 258 eP    52 15.60  -7.4X
        0.6s    11.70nm          5.0mb
                 eScP  57 31.20
                 iS    58 44.70
                 iScS  01 57.30
WR2    47.02 263 iPd   52 16.70  -8.3X
        0.7s     5.00nm          4.6mb
                 ipP   53 11.40 257kmX
                 iPP   54 26.10
                 iScP  57 32.60
                eS    58 40.30
WRA    47.05 263 P     52 17.50  -7.7X
CSY    63.58 206 eP    54 24.50   0.5
        0.9s     7.60nm          4.8mb
SPA    67.90 180 iPd   54 51.80  -0.2
        1.0s    18.00nm          5.1mb
BCH    77.33  43 eP    55 48.81   0.9
SAO    77.48  42 eP    55 49.19   0.6
        1.0s    30.00nm          5.3mb
BKS    77.73  40 eP    55 50.64   0.8
        1.0s    40.00nm          5.4mb
MHC    77.74  41 eP    55 50.69   0.6
        1.1s    30.00nm          5.2mb
ARN    77.81  41 eP    55 50.95   0.6
KMPM   78.32  37 eP    55 53.93   0.7
PEC    78.45  46 eP    55 54.81   0.8
        0.6s     7.70nm          4.9mb
ISA    78.66  44 ePd   55 55.96   0.8
        0.9s    22.24nm          5.2mb
CMB    78.95  41 eP    55 57.00   0.4
        1.1s    20.00nm          5.0mb
ORV    79.26  39 eP    55 58.36   0.1
        1.0s    10.00nm          4.8mb
WDC    79.33  38 iPd   55 58.85   0.3
        0.9s    19.10nm          5.1mb
GSC    79.53  45 ePd   56 00.72   0.8
GLA    79.54  48 (P)   56 01.27   1.3
MIN    79.71  39 eP    56 00.44  -0.4
        1.2s    20.00nm          5.0mb
YBH    80.00  37 eP    56 02.71   0.4
        0.9s    20.00nm          5.1mb
BONR   80.18  42 ePd   56 04.39   0.8
LBFM   80.20  38 eP    56 03.99   0.4
MAW    80.84 199 iP    56 06.30   0.1
        1.0s    20.83nm          5.1mb
TUC    81.96  50 ePd   56 15.68   2.9X
        1.0s    20.72nm          5.1mb
VBEM   82.82  35 P     56 16.86  -0.2
BMW    82.91  33 ePd   56 17.49   0.1
CROR   83.09  35 P     56 18.23  -0.1
ARUT   83.17  45 eP    56 20.18   1.1
SHW    83.23  34 ePd   56 19.53   0.4
ASR    83.53  34 P     56 20.47  -0.2
VGB    83.55  35 eP    56 20.19  -0.4
LON    83.82  34 ePd   56 21.45  -0.5
STW    83.83  32 P     56 22.46   0.5
FMW    84.01  34 P     56 23.03  -0.1
JBO    84.01  36 P     56 22.89  -0.1
RMW    84.29  33 ePd   56 24.13  -0.3
MSU    84.41  45 eP    56 25.99   0.6
EBG    84.57  34 P     56 25.76   0.0
MCW    84.60  32 ePc   56 24.10  -1.7
JCW    84.72  33 P     56 26.47   0.0
SLKM   84.89  12 ePd   56 23.65  -3.4X
CRP    85.24  11 ePd   56 24.78  -4.2X
WTV    85.40  34 P     56 29.26  -0.6
SAW    85.68  34 P     56 30.80  -0.5
SRU    85.81  45 ePd   56 32.62   0.3
DAU    86.05  43 (P)   56 34.00   0.4
PMR    86.10  12 ePd   56 29.61  -3.3X
        1.2s    23.26nm          5.3mb
PV10   86.40  46 eP    56 34.96  -0.4
DPW    86.42  34 eP    56 34.33  -0.6
KLU    86.67  14 eP    56 32.93  -3.0
PV08   86.76  46 ePc   56 37.61   0.4
BALM   87.10  15 eP    56 35.58  -2.5
LRM    88.35  38 ePc   56 44.40  -0.2
FBA    89.37  11 eP    56 46.20  -2.5
RSSD   92.55  43 ePd   57 03.57  -0.5
        1.0s    26.89nm          5.6mb
YKA    96.97  24 eP    57 21.20  -2.4
        0.8s     2.70nm          4.8mb
NB2   140.97 355 PKP   03 11.40 -11.3X
        0.8s     1.50nm
HFS   141.62 353 ePKP  03 11.80 -12.0X
        0.4s     1.10nm
MUD   145.67 356 iPKPc 03 26.20  -4.6X
        0.8s    17.00nm
EKA   146.40   8 PKPd  03 29.40  -2.7
        0.7s     7.40nm
KAS   149.13 315 iPKPc 03 37.20   0.2
KSP   150.08 345 iPKPd 03 39.00   1.0
                  i    03 51.60
UZH   150.22 336 ePKP  03 40.30   2.0
        1.0s    45.00nm
                  e    03 55.50
WTS   150.25 358 ePKP  03 39.50   1.3
```

15d 01h

```
       1.0s    47.40nm
                  e     03 56.00
VRI   150.47 328 ePKP   03 29.00  -9.8X
SPC   150.47 339 ePKP   03 39.40   0.5
BRG   150.55 348 iPKP   03 40.80   2.1
       1.4s    38.00nm
MLR   151.12 328 ePKPc  03 41.00   1.1
MOX   151.15 351 iPKPd  03 42.20   2.5X
       1.6s    42.00nm
PRU   151.27 347 iPKPd  03 42.10   2.3X
                  e     03 46.50
                  e     03 54.00
                  e     03 57.80
ENN   151.51 359 ePKP   03 43.00   2.9X
       0.8s    12.50nm
SNF   151.77   1 PKP    03 44.10   3.6X
GRF   152.14 351 ePKP   03 38.50  -2.7
     Z 20s     0.20um          4.9Msz
                  e     03 45.00
DOU   152.19   0 PKPc   03 44.90   3.7X
       0.9s    16.70nm
                  e     04 00.90
KHC   152.28 348 ePKP   03 45.00   3.6X
       1.0s     8.90nm
                  e     03 53.00
                  e     04 31.00
ZST   152.31 342 e(PKP) 03 35.20  -6.2X
GEC2  152.53 347 PKP    03 38.00  -3.8X
       0.8s     0.41nm
                  e     03 44.90
                  e     03 48.40
                  e     03 57.20
WLF   152.60 358 PKP    03 46.00   4.3X
LKO   163.87 140 PKP    03 54.00  -2.1
       1.5s    29.00nm
     S.D. = 1.2  on  69 of  92 obs.
-----------------------------------
*  OCT  15, 1993  01h 12m 19.87± 0.57s
   3.274 N ±11.8km  127.080 E ±25.4km
   DEPTH =  33.0km  (normal)
   4.8mb (  8 obs.)  4.5Msz (  6 obs.)
 TALAUD ISLANDS, INDONESIA        (263)

DAV     4.07 338 eP     13 20.80  -0.7
                  e     14 24.00
CTB     4.84 324 ePd    13 38.00   5.7X
                  eS    14 38.00
PLP     8.11 345 ePd    14 23.00   4.7X
BAG    14.53 334 eP     15 49.00   3.6X
                  e     18 48.00
WR2    24.16 163 eP     17 33.30  -1.0
       0.3s     6.90nm          4.7mb
                  ipP   17 51.30  80kmX
                  i     19 15.70
QIS    26.68 153 eP     18 01.00   3.0X
ASPA   27.59 166 eP     18 07.70   1.4
       0.4s     5.60nm          4.6mb
     Z 19s      0.60um          4.2Msz
NJ2    29.65 346 Pc     18 26.00   1.3
     Z 20s      0.47um          4.1Msz
TIA    34.04 346 eP     19 01.30  -1.8
       1.0s    14.00nm          4.8mb
     Z 21s      0.82um          4.4Msz
                  S     24 30.00
XAN    34.98 333 P      19 09.20  -2.0
       0.5s     6.40nm          4.8mb
     Z 34s      1.17um          4.4MszX
CD2    35.22 324 eP     19 13.60   0.3
     Z 20s      0.84um          4.5Msz
                  S     24 40.00
TIY    36.81 340 eP     19 26.00  -0.7
     Z 23s      1.19um          4.6MszX
     E 16s      0.38um
                  S     25 11.00
STK    37.59 160 eP     19 31.80  -1.4
       0.7s     3.80nm          4.4mb
                  i     19 38.40
                  ePP   21 12.50
SNY    38.51 356 Pc     19 40.40  -0.4
LZH    39.07 330 eP     19 47.50   1.7
       1.4s    40.00nm          5.0mb
     Z 25s      1.18um          4.6MszX
HHC    39.94 342 eP     19 53.60   0.7
       1.4s    24.00nm          4.8mb
     Z 26s      0.85um          4.5MszX
     N 18s      1.02um
                  sP    20 01.50
                  PP    21 33.00
                  S     25 55.00
BTO    40.22 340 eP     20 00.50   5.3X
     N 11s      0.17um
     E 13s      0.30um
                  eS    26 03.00
ARMA   40.90 147 eP     20 01.30   0.4
GTA    43.66 329 eP     20 23.00  -0.4
     Z 18s      1.14um          4.8Msz
     E 14s      0.35um
GBA    50.07 285 P      21 14.00   0.0
WMQ    53.30 325 eP     21 39.10   1.1
     Z 20s      0.80um          4.8Msz
YAK    58.64   1 iPd    22 17.40   1.5
       1.7s    70.00nm          5.5mb
                  e     23 57.00
     S.D. = 1.3  on  17 of  22 obs.
-----------------------------------
%  OCT  15, 1993  02h 02m 37.94± 1.74s
   17.634 N ±15.9km  101.822 W ±12.8km
   DEPTH =  33.0km  (normal)
 NEAR COAST OF GUERRERO, MEXICO   ( 58)

ACX     2.02 112 iP      03 09.89  -0.6
                  iS    03 40.73
MRX     2.14  16 iPd     03 10.62  -1.4
                  iS    03 37.33
III     2.36  71 iP      03 15.45   0.1
                  iS    03 46.58
CGX     2.58 323 (P)     03 19.00   0.5
CRX     2.69  49 (P)     03 16.00  -4.1X
                  (S)   03 51.50
UNM     3.02  56 (P)     03 26.00   1.2
PPM     3.35  64 eP      03 30.00   0.2
                  iS    04 12.61
IIA     3.36  63 (P)     03 32.43   3.0X
OXX     4.90  96 iP      03 51.51   0.1
     S.D. = 1.0  on   7 of   9 obs.
-----------------------------------
   OCT  15, 1993  02h 43m 02.36± 0.30s
   44.226 N ± 3.0km   12.180 E ± 2.9km
   DEPTH =  10.0km  (geophysicist)
   3.2mb (  1 obs.)
 NORTHERN ITALY                   (545)
     ML 3.7 (STR), 3.3 (FUR), 3.0
     (LJU). MD 3.5 (FIR), 3.4 (ROM).

RSM     0.36 147 P       43 09.81   0.1
PGD     0.48 223 P       43 11.68  -0.5
FIR     0.80 236 iPgc    43 17.50  -0.4
                  iSg   43 29.00
ARV     0.91 143 P       43 19.12  -0.7
BDI     1.15 262 P       43 24.75   0.8
ASS     1.21 163 P       43 24.45  -0.4
PII     1.30 248 P       43 26.27  -0.1
SAL     1.81 320 P       43 34.99   1.2
TRI     1.86  37 P       43 34.43  -0.1
MNS     1.88 169 P       43 35.15   0.3
RIY     1.93  54 iPnd    43 35.50   0.0
                  iSn   43 59.60
BOB     2.03 286 P       43 39.56   2.5
VOY     2.17  33 ePnc    43 38.80  -0.4
                  eSn   44 06.10
                  eSg   44 16.20
CEY     2.20  46 ePn     43 38.80  -0.7
                  e     43 43.90
                  eSg   44 16.40
FVI     2.40  10 P       43 43.29   1.0
LJU     2.46  42 ePn     43 43.50   0.3
                  ePg   43 50.40
                  eSn   44 13.90
                  eSg   44 25.50
RDP     2.50 171 P       43 44.79   1.0
VBY     2.53  59 iPn     43 44.30   0.1
                  i     43 50.60
                  iSn   44 15.10
                  i     44 25.20
                  i     44 28.00
PCP     2.62 278 P       43 46.52   1.0
SDI     2.79 154 P       43 49.20   1.3
CKI     2.81 275 P       43 38.95  -9.2X
OSS     2.85 331 eP      43 50.80   2.0
FIN     2.86 271 P       43 49.08   0.3
VDL     2.96 321 iPc     43 51.60   1.2
KBA     2.97  16 iPnc    43 51.20   0.7
       0.6s    82.80nm
                  iPg   44 00.00
                  i     44 30.00
                  i     44 43.70
TMA     3.00 310 eP      43 50.40  -0.6
WTTA    3.06 353 iPnc    43 53.60   1.8
       0.5s    63.30nm
                  i     44 04.00
                  i     44 32.70
                  i     44 46.20
SQTA    3.07 348 iPnc    43 52.80   0.9
       0.4s    61.70nm
                  i     43 54.20
                  i     44 03.30
                  i     44 34.00
                  i     44 41.90
ROB     3.10 273 P       43 52.79   0.6
IMI     3.11 266 P       43 52.56   0.2
ZAG     3.13  58 ePn     44 02.40   9.8X
                  iSn   44 43.30
WATA    3.14 352 iPnc    43 54.70   1.8
                  i     44 05.20
                  i     44 45.60
PTJ     3.16  57 iPnd    44 03.00   9.9X
                  iSn   44 46.00
MOTA    3.21 347 iPnd    43 55.50   1.6
       0.6s    49.60nm
                  i     44 35.60
                  i     44 50.60
HVAR    3.27 107 iPn     43 55.20   0.6
ORO     3.29 297 P       43 54.81  -0.3
ENR     3.42 272 P       43 57.55   0.7
LLS     3.46 321 eP      43 58.40   0.9
STV     3.49 272 P       43 58.19   0.3
BHG     3.53   8 ePn     44 01.40   3.1X
DOI     3.55 276 P       43 59.33   0.6
BHB     3.57 282 P       43 57.78  -1.1
RSP     3.63 286 P       43 57.37  -2.5
PZZ     3.65 276 P       43 59.56  -0.7
LSD     3.78 291 P       43 59.38  -2.8
RRL     3.92 282 P       44 03.13  -0.9
FUR     3.99 351 iPnc    44 05.50   0.6
BNI     4.01 284 P       44 07.36   2.0
ZLA     4.20 322 eP      44 08.30   0.5
SLE     4.37 325 eP      44 09.90  -0.5
BBS     4.60 316 P       44 12.93  -0.6
FEL     4.66 323 P       44 13.63  -0.9
GEC2    4.74  12 Pn      44 14.50  -1.1
                  Pg    44 33.00
                  Sn    44 52.70
                  Sg    45 42.70
LOMF    4.88 312 P       44 16.54  -1.0
                  S     45 11.92
WET     4.94   5 ePn     44 07.80 -10.6X
VKA     4.96  34 iPc     44 18.30  -0.2
                  i     44 38.50
                  i     45 14.00
KHC     5.00  11 Pn      44 18.40  -0.8
                  e     44 25.50
                  e     44 39.00
                  e     45 03.00
                  Sn    45 15.50
                  Sg    45 47.50
MOF     5.05 318 P       44 19.23  -0.7
                  S     45 15.47
ZST     5.24  39 e(Pb)   44 31.80   9.3X
                  i     46 29.70
ECH     5.30 321 P       44 22.46  -1.0
WLS     5.36 323 P       44 23.16  -1.2
CDF     5.39 323 P       44 23.91  -0.9
GRF     5.51 354 ePn     44 25.00  -1.4
                  ePg   44 50.10
                  e(Sn) 45 24.20
                  eSg   02 46.00
VITF    5.86 315 P       44 30.49  -0.9
PRU     5.99  15 ePn     44 32.00  -1.0
                  e     44 39.50
                  i     44 56.00
                  Sn    45 36.50
                  eSg   46 10.50
                  e     02 48.50
                  e     03 28.80
                  eSg   03 44.00
MOX     6.43 357 ePn     44 36.90  -2.6
BRG     6.76  10 ePn     44 41.00  -3.0X
                  iPg   45 11.00
                  iSg   46 46.00
OHR     7.07 113 eP      44 46.80  -1.7
CLL     7.11   4 (Pg)    45 12.00  23.1X
```

```
                 eSg   47 01.00
KSP      7.18  21 eP    45 03.50   13.6X
                 e     45 22.00
                 eS    46 23.50
SPC      7.44  45 eP    45 35.00   41.3X
APO     16.37   3 eP    46 55.90    2.3
         0.5s      1.10nm          3.2mb
      S.D. = 1.2  on  62 of  72 obs.
-------------------------------------
?  OCT  15, 1993  02h 51m 46.66± 1.58s
    6.159 S ±12.2km  146.332 E ±26.2km
   DEPTH =  33.0km  (normal)
   4.1mb (  3 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.5 (PMG).

MDG      1.06 329 ePd   52 05.20    0.0
MNDI     2.66 270 eP    52 33.50    5.2X
PMG      3.33 166 eP    52 38.00    0.4
                 eS    53 38.00
WWKK     3.69 313 eP    52 49.10    6.3X
WR2     17.98 219 eP    55 55.40   -0.4
         0.7s     12.50nm          4.2mb
                 i     56 00.20
                 eS    59 09.10
ASPA    21.12 213 eP    56 32.10    1.0
         0.8s      9.00nm          4.2mb
      Z  18s      0.30um          3.7Msz
                 eS    00 55.80
STK     25.97 189 eP    57 17.10   -1.0
         0.5s      1.90nm          3.9mb
KIC    151.25 272 PKP   11 39.43    6.3X
         0.8s     11.00nm
LIC    151.53 272 PKP   11 39.86    6.3X
         0.6s      4.50nm
TIC    151.53 273 PKP   11 39.89    6.3X
         0.5s      3.00nm
LKO    151.99 279 PKP   11 40.91    6.6X
         0.7s      5.00nm
      S.D. = 1.1  on   5 of  11 obs.
-------------------------------------
&  OCT  15, 1993  02h 54m 53.32s
   32.389 N          115.062 W
   DEPTH =   6.0km  (geophysicist)
 CALIF.-BAJA CALIF. BORDER REGION( 45)
      <PAS-P>. ML 2.9 (PAS).

GLA      0.69  17 eP    55 05.47   -1.7
PLM      1.79 303 eP    55 23.64   -1.6
PEC      2.31 311 (P)   55 30.83   -1.8
GSC      3.25 334 (Pn)  55 45.53   -0.3
TUC      3.62  90 ePn   55 48.07   -3.1
         5 obs. associated
-------------------------------------
*  OCT  15, 1993  03h 00m 19.59± 1.33s
   44.081 N ±12.7km   12.348 E ± 9.4km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                    (545)
      MD 2.9 (FIR).

FIR      0.84 249 ePg   00 35.50   -0.4
                 iSg   00 49.00
RIY      1.93  48 ePn   00 53.00    0.3
                 eSn   01 18.30
CEY      2.22  41 ePn   00 57.50    0.5
                 eSg   01 33.70
VOY      2.24  29 ePn   00 56.70   -0.6
                 eSn   01 24.80
                 eSg   01 34.10
LJU      2.50  38 ePg   01 09.20    8.3X
                 eSn   01 32.00
                 eSg   01 43.50
VBY      2.51  54 e(Pn) 01 02.00    0.9
                 eSn   01 32.80
KBA      3.08  13 iPnc  01 09.10   -0.2
         0.5s     15.10nm
                 iPg   01 18.40
                 i     01 47.30
PTJ      3.14  53 eP    01 20.40   10.3X
WTTA     3.22 351 iPnc  01 12.60    1.2
         0.6s     12.30nm
                 iPg   01 22.40
                 i     01 32.50
                 i     02 04.60
SQTA     3.24 346 iPnc  01 12.10    0.5
         0.5s     13.20nm
                 iPg   01 21.80
                 i     01 50.90
                 i     02 03.40
WATA     3.30 351 iPnc  01 13.00    0.5
                 i     01 23.10
                 i     01 52.90
MOTA     3.38 345 iPnc  01 14.70    1.1
         0.6s     10.90nm
                 i     02 05.60
BHG      3.66   6 eP    01 29.40   11.9X
GEC2     4.86  11 Pn    01 32.20   -2.3
                 Pg    01 54.40
                 Sn    02 10.40
                 Sg    02 57.70
KHC      5.12   9 ePn   01 36.50   -1.7
                 e     01 57.50
                 eSn   02 32.50
                 e     03 15.50
      S.D. = 1.2  on  12 of  15 obs.
-------------------------------------
%  OCT  15, 1993  03h 19m 13.77± 2.11s
   32.155 S ±11.1km   69.787 W ±19.2km
   DEPTH = 125.1 ± 30.5 km
 MENDOZA PROVINCE, ARGENTINA       (139)

RTCB     1.07  52 ePd   19 37.00   -0.4
                 S     19 54.00
RTCV     1.10  75 iPc   19 38.00    0.4
                 S     19 56.00
RTLL     1.39  54 iPc   19 40.50   -0.2
                 S     20 00.50
CFA      1.43  68 ePd   19 41.20    0.1
                 S     20 01.90
RTRS     2.00   8 eP    19 48.00    0.1
                 S     20 15.00
RFA      2.83 157 ePc   19 58.70    0.0
MRA      3.46  95 e(P)c 20 07.00    0.0
      S.D. = 0.4  on   7 of   7 obs.
-------------------------------------
?  OCT  15, 1993  03h 42m 40.37± 4.13s
   38.131 S ±29.6km  175.581 E ±40.7km
   DEPTH = 150.0km  (geophysicist)
 NORTH ISLAND, NEW ZEALAND         (159)

URZ      1.21  97 P     43 07.70    0.4
                 S     43 26.10
PAHZ     1.37 123 P     43 09.50    0.6
WAHZ     1.68 159 P     43 12.90    0.7
TTH      1.71 146 P     43 12.90    0.4
TEHZ     2.09 153 P     43 16.60   -0.3
PUZ      2.11  89 P     43 16.30   -0.9
                 S     43 41.10
HBZ      2.22  77 P     43 18.50    0.1
MNG      2.49 182 P     43 21.70   -0.1
                 S     43 49.80
PGZ      2.54 168 P     43 21.60   -0.8
      S.D. = 0.7  on   9 of   9 obs.
-------------------------------------
%  OCT  15, 1993  04h 52m 49.98± 1.28s
   26.868 S ±13.3km   26.538 E ± 9.8km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA          (584)
      ML 3.2 (PRE).

BFS      0.22  98 iPd   52 53.30   -1.3
                 S     52 53.80
SEK      1.74 147 iPd   53 21.60    0.4
                 S     53 43.00
SLR      1.93  55 iPc   53 24.80    0.9
                 S     53 47.60
BLF      2.25 188 eP    53 30.10    1.5
                 S     53 57.30
FRS      3.07 200 iPc   53 40.00    0.1
                 S     54 11.60
BFT      3.36  70 eP    53 51.00    6.6X
                 S     54 33.00
HVD      3.83 194 e(P)  53 51.00   -0.1
SUR      7.42 221 eP    54 41.50   -0.2
                 S     56 18.00
CER      9.01 222 e(P)  55 02.50   -1.3
      S.D. = 1.1  on   8 of   9 obs.
-------------------------------------
*  OCT  15, 1993  05h 13m 38.27± 2.07s
   37.790 N ±14.1km   19.739 E ±14.7km
   DEPTH =  10.0km  (geophysicist)
   3.9mb (  1 obs.)
 IONIAN SEA                        (399)
      ML 4.0 (THE).

VLS      0.78  60 ePb   13 52.00   -1.4
IGT      1.80  15 ePb   14 10.00    0.4
KEK      1.92   1 ePb   14 12.00    0.7
AGG      2.38  58 ePn   14 18.96    1.0
                 eSn   14 48.14
VLI      2.77 112 ePn   14 24.00    0.5
LIT      3.15  42 iPn   14 29.96    1.1
                 iSn   15 05.50
FNA      3.25  23 iPn   14 30.90    0.6
OHR      3.42  14 iPn   14 33.70    1.0
                 i     14 45.50
                 i     15 13.90
                 i     15 32.40
GRG      3.78  32 ePn   14 36.90   -0.9
SOH      4.13  42 ePn   14 42.64   -0.1
KNT      4.16  35 iPn   14 42.52   -0.7
SKO      4.38  17 ePn   14 51.00    4.7X
SRS      4.46  41 ePn   14 46.44   -1.1
HFS     22.69 352 eP    18 39.20   -1.7
         0.4s      1.50nm          3.9mb
      S.D. = 1.1  on  13 of  14 obs.
-------------------------------------
%  OCT  15, 1993  05h 27m 31.75± 0.89s
   38.525 S ±11.2km  175.797 E ± 9.4km
   DEPTH = 150.0km  (geophysicist)
 NORTH ISLAND, NEW ZEALAND         (159)

NGZ      0.67 193 P     27 56.40    1.9
CNZ      0.70 196 P     27 56.50    1.9
MOZ      0.78 271 P     27 56.50    1.5
PAHZ     1.04 109 P     27 57.90    0.7
URZ      1.07  76 Pd    27 56.80   -0.5
                 S     28 15.40
WAHZ     1.25 160 Pc    28 00.50    1.4
                 eS    28 21.40
TTH      1.29 142 P     28 01.00    1.5
BSZ      1.44 208 P     28 02.40    1.4
TEHZ     1.66 152 eP    28 04.30    0.9
MAHZ     1.76 113 eP    28 04.70    0.2
NOZ      1.76  94 P     28 04.10   -0.3
PUZ      1.99  78 P     28 05.60   -1.5
                 S     28 30.80
MNG      2.10 187 Pc    28 08.70    0.2
                 S     28 35.90
PGZ      2.12 170 Pd    28 08.80    0.1
HBZ      2.18  66 P     28 07.90   -1.5
KIW      2.43 196 P     28 12.00   -0.5
CAW      2.64 192 P     28 14.30   -0.8
MTW      2.64 185 P     28 14.10   -1.0
DIW      2.70 212 P     28 15.10   -0.7
MRW      2.83 197 Pd    28 16.50   -1.0
                 S     28 50.80
BLW      2.85 185 P     28 16.70   -1.0
TCW      2.93 203 P     28 17.70   -1.0
QRZ      3.41 227 P     28 22.90   -2.1
                 S     29 04.50
LTZ      5.03 211 eP    28 43.10   -3.3X
MQZ      5.70 204 P     28 50.90   -4.3X
      S.D. = 1.3  on  23 of  25 obs.
-------------------------------------
%  OCT  15, 1993  07h 54m 58.67± 1.22s
   39.082 N ± 7.8km   27.642 E ±15.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.7 (ISK).

IZM      0.74 204 ePg   55 13.30    0.0
                 eSg   55 26.00
EZN      1.26 307 ePn   55 22.00   -0.1
EDC      1.27   8 ePn   55 23.00    0.7
BNT      1.29   9 ePn   55 21.80   -0.8
KGT      1.39 349 iPn   55 24.30    0.2
      S.D. = 0.7  on   5 of   5 obs.
-------------------------------------
   OCT  15, 1993  08h 29m 54.24± 0.47s
   21.308 S ± 5.0km   67.281 W ± 9.5km
   DEPTH = 219.2 ±  7.4 km
   4.7mb (  4 obs.)
 CHILE-BOLIVIA BORDER REGION       (124)

YJA      1.86 118 iPd   30 32.70   -1.0
HJA      2.57 138 iPd   30 40.90    0.4
                 S     31 12.50
SLA      3.78 155 iPc   30 55.10    0.4
                 (S)   31 41.60
CCH      4.05  16 P     30 56.60   -1.6
CNCB     4.52 351 iPc   31 05.80    1.5
```

15d 08h

```
                 i      31 57.30
LPB     4.81 351 Pc     31 09.10    1.3
      1.0s    92.00nm
                 i      32 04.80
FSA     4.89 166 ePd    31 10.10    1.8
LPAZ    5.06 351 iPc    31 11.20    0.1
                 i      32 07.30
ARE     6.25 320 iPc    31 24.50   -1.5
                 iS     32 30.50
CYA     7.23 170 ePc    31 38.40    0.1
RTLL   10.04 186 ePd    32 13.70   -1.0
RTCB   10.23 187 ePc    32 17.00   -0.1
MRA    11.15 173 e(P)   32 28.00   -0.7
PPD    14.87  96 (P)    33 16.00    0.7
BDFB   19.12  76 eP     34 02.53   -0.5
      0.5s    14.96nm          4.8mb
                 e      34 05.83
SOB1   28.10  69 eP     35 26.90   -1.0
LHS    56.95 347 eP     39 28.67    9.8X
FVM    62.86 340 eP     39 59.72    0.8
      0.6s    13.91nm          4.9mb
KIC    67.19  73 P      40 27.44    0.3
      0.6s     8.50nm          4.7mb
LKO    67.87  70 P      40 31.62    0.2
      0.4s     2.50nm          4.3mb
WRA   133.87 209 PKP    48 51.80    4.4X
      0.4s     0.70nm
     S.D. = 1.1  on  19 of  21 obs.
-----------------------------------
*  OCT  15, 1993  08h 37m 50.77± 1.18s
   36.676 N ±12.5km    2.167 E ± 6.0km
   DEPTH =  10.0km  (geophysicist)
   3.9mb (  2 obs.)
 NORTHERN ALGERIA                (396)
      mbLg 3.5 (MDD).

ACU     2.75 313 iPd    38 36.11    0.4
                 e      39 03.80
EALH    3.10 293 eP     38 40.42   -0.1
                 e      39 13.50
ESEL    3.14  10 iPc    38 41.58    0.4
                 e      39 15.50
ENIJ    3.52 276 eP     38 46.88    0.2
                 e      39 23.80
ECHE    3.82 321 eP     38 51.57    0.7
                 e      39 30.80
EHUE    3.96 288 eP     38 53.19    0.2
                 e      39 34.20
EVIA    4.19 299 eP     38 55.71   -0.5
                 e      39 39.80
EBR     4.34 343 eP     38 58.00   -0.2
EROQ    4.36 342 iPd    38 58.05   -0.5
                 e      39 43.40
EGUA    4.61 274 iPc    39 01.34   -0.7
                 e      39 51.50
ECOG    4.63 279 eP     39 02.01   -0.5
                 e      39 50.60
EBAN    4.97 289 eP     39 07.22    0.1
IMI     8.44  29 P      39 55.05   -1.0
STV     8.52  26 P      39 56.67   -0.4
ENR     8.54  26 P      39 56.38   -1.0
PZZ     8.67  24 P      39 59.99    0.7
ROB     8.76  28 P      40 00.09   -0.3
FIN     8.82  30 P      39 59.71   -1.5
RRL     8.95  22 P      40 04.46    1.3
BHB     9.02  24 P      40 04.46    0.4
PCP     9.23  30 P      40 05.12   -1.8
RSP     9.30  23 P      40 09.21    1.3
LSD     9.55  22 P      40 12.52    1.1
GEC2   14.80  31 Pn     41 26.10    4.3X
      0.6s     1.00nm          3.5mb
                 e      41 29.40
                 e      41 33.80
OHR    15.17  67 e(P)   41 39.00   12.4X
MLR    19.91  56 ePc    42 26.00    0.5
YKA    68.99 334 eP     48 59.50    1.6
      0.5s     0.90nm          4.2mb
     S.D. = 0.9  on  25 of  27 obs.
-----------------------------------
%  OCT  15, 1993  08h 56m 56.41± 1.12s
   39.097 N ± 7.3km   27.627 E ±14.5km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.8 (ISK).

IZM     0.75 202 ePg    57 11.20    0.0
                 eSg    57 24.00
EZN     1.24 306 ePn    57 19.40   -0.1
EDC     1.26   8 ePn    57 20.00    0.2
BNT     1.28  10 ePn    57 19.80   -0.3
KGT     1.38 350 iPn    57 21.80    0.2
     S.D. = 0.3  on   5 of   5 obs.
-----------------------------------
   OCT  15, 1993  09h 21m 20.97± 0.98s
   40.425 N ± 9.7km   21.864 E ± 7.4km
   DEPTH =  10.0km  (geophysicist)
 GREECE                          (364)
      ML 3.0 (THE).

FNA     0.52 314 ePg    21 31.00   -0.5
LIT     0.58 124 ePg    21 32.26   -0.4
                 iSg    21 43.20
GRG     0.67  37 ePg    21 33.68   -0.6
                 eSg    21 46.30
OHR     1.06 311 eP     21 41.50    0.5
KNT     1.08  46 ePg    21 41.80    0.6
PAIG    1.48 109 ePb    21 48.00    0.4
     S.D. = 0.7  on   6 of   6 obs.
-----------------------------------
   OCT  15, 1993  09h 49m 05.30± 0.75s
   40.987 N ± 6.4km   20.204 E ± 7.0km
   DEPTH =  10.0km  (geophysicist)
 GREECE-ALBANIA BORDER REGION    (392)

TIR     0.44 325 iPgd   49 15.00    0.7
                 iSg    49 21.00
OHR     0.47  74 iPg    49 15.30    0.5
                 iSg    49 23.00
KBN     0.57 129 ePg    49 16.50   -0.5
                 iSg    49 26.00
TPE     0.71 192 ePg    49 19.50    0.3
LACI    0.75 330 ePg    49 19.10   -0.8
SKO     1.35  43 ePn    49 30.00   -0.2
     S.D. = 0.8  on   6 of   6 obs.
-----------------------------------
   OCT  15, 1993  10h 06m 29.73± 1.17s
   40.358 N ±10.1km   21.670 E ± 7.9km
   DEPTH =  10.0km  (geophysicist)
 GREECE                          (364)
      ML 2.6 (THE).

FNA     0.48 332 ePg    06 39.24   -0.3
LIT     0.68 112 ePg    06 43.08   -0.1
                 eSg    06 51.50
GRG     0.82  43 ePg    06 45.60    0.0
                 eSg    06 58.96
OHR     1.00 319 ePn    06 49.00    0.2
KNT     1.23  49 ePb    06 52.53   -0.1
                 iSb    07 09.72
SOH     1.36  70 ePb    06 55.12    0.3
                 eSb    07 13.48
PAIG    1.60 105 ePb    06 58.04   -0.1
     S.D. = 0.3  on   7 of   7 obs.
-----------------------------------
%  OCT  15, 1993  10h 12m 16.38± 1.27s
   39.087 N ± 7.8km   27.716 E ±15.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.7 (ISK).

IZM     0.77 207 ePg    12 31.50    0.0
                 eSg    12 44.20
EDC     1.26   5 ePn    12 40.00    0.2
BNT     1.28   7 ePn    12 39.70   -0.4
EZN     1.30 305 iPn    12 40.40   -0.1
KGT     1.40 347 iPn    12 42.20    0.3
     S.D. = 0.4  on   5 of   5 obs.
-----------------------------------
?  OCT  15, 1993  10h 43m 48.50± 1.33s
   39.073 N ± 7.9km   27.623 E ±17.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.7 (ISK).

IZM     0.73 203 ePg    44 02.90    0.0
                 eSg    44 15.00
EZN     1.25 307 ePn    44 11.90    0.1
BNT     1.30  10 ePn    44 12.80    0.2
KGT     1.40 350 ePn    44 13.70   -0.3
     S.D. = 0.4  on   4 of   4 obs.
-----------------------------------
*  OCT  15, 1993  10h 51m 54.26± 0.72s
   23.782 N ±10.6km  122.035 E ±10.7km
   DEPTH =  21.3km  (  2 depth phases)
   4.4mb ( 11 obs.)
 TAIWAN REGION                   (243)
      ML 3.8 (BJI).

QZH     3.35 291 Pn     52 46.40   -0.1
     N  10s     1.85um
                 Sn     53 23.30
SSE     7.32 354 eP     53 40.50   -2.1
     Z  16s     0.90um
     N  10s     0.70um
                 pP     53 50.70
                 sP     53 53.50
                 S      55 03.50
NJ2     8.70 342 Pc     54 00.00   -1.9
      0.6s    20.00nm          5.5mb X
     Z  16s     0.82um          4.1Msz
     N  12s     0.65um
     E  10s     0.32um
                 S      55 34.40
WHN     9.60 316 eP     54 11.50   -2.7
     N  12s     1.35um
     E  12s     0.63um
                 eS     55 57.00
QIZ    12.30 250 eP     55 00.40    9.3X
TIA    13.09 342 eP     55 05.10    3.5X
GYA    14.18 284 P      55 16.40    0.3
                 PP     55 26.00
TIY    16.14 332 eP     55 42.00    0.6
     Z  14s     1.19um          4.1Msz
     N  12s     0.51um
BJI    16.95 344 eP     55 53.00    1.4
     Z  16s     0.58um
CD2    17.71 298 eP     56 03.00    1.7
     Z  15s     0.71um
HHC    19.15 335 eP     56 20.20    1.2
      1.2s    13.00nm          4.1mb
     Z  16s     0.91um          4.1Msz
BTO    19.58 332 eP     56 24.00    0.1
     N  13s     0.55um
     E  12s     0.32um
                 eS     59 53.00
LZH    19.93 312 eP     56 29.30    1.5
      1.5s    64.00nm          4.7mb
     Z  15s     0.58um          5.3Msz
                 sP     56 40.00
GTA    24.42 315 eP     57 13.00    0.4
      1.5s    14.00nm          4.3mb
     Z  13s     0.47um          4.2MszX
WR2    45.10 164 eP     00 09.70   -1.2
      0.7s     2.20nm          4.2mb
STK    58.42 160 iPc    01 50.50   -0.2
      0.6s     2.30nm          4.4mb
TTA    65.47  30 eP     02 38.56    0.8
      0.5s     1.74nm          4.5mb
FBA    68.81  27 ePc    03 01.30    2.6
      1.0s    10.00nm          4.9mb
KLU    70.36  31 eP     03 09.26    1.0
INK    73.30  22 eP     03 25.50   -0.1
      1.0s     3.00nm          4.3mb
NB2    78.94 332 P      03 56.00   -1.6
      0.8s     3.70nm          4.5mb
YKA    83.04  23 eP     04 18.60   -0.5
      0.9s     2.50nm          4.4mb
GEC2   83.65 321 P      04 22.30   -0.4
      0.9s     1.91nm          4.3mb
                 e      04 29.60   23km
RMW    88.83  38 (P)    04 44.79   -3.4X
                 e      04 51.05   20km
SDV   145.25  22 iPKPc 11 32.50   -0.6
     S.D. = 1.4  on  22 of  25 obs.
-----------------------------------
&  OCT  15, 1993  11h 38m 21.40s
   36.473 N          121.035 W
   DEPTH =   1.5km
 CENTRAL CALIFORNIA              ( 39)
      <GM-P>. MD 2.7 (GM). ML 2.6
      (PAS).

SAO     0.44 312 iPc    38 30.02   -0.2
COE     0.94 327 iPc    38 40.29    0.2
ARN     0.96 336 eP     38 40.40   -0.1
BCH     1.50 149 eP     38 47.87   -1.7
CMB     1.64  18 eP     38 51.82    0.3
MMPM    1.97  54 eP     38 57.46    1.0
MEMM    2.06  54 eP     38 59.97    2.5
MTUM    2.17  65 eP     39 01.22    2.0
ISA     2.23 111 eP     38 59.17   -0.8
```

```
                 eS    39 27.63
MRCM    2.35  59 eP    39 04.33   2.4
BONR    2.64  55 eP    39 06.49   0.4
ORV     3.10 353 eP    39 13.14   0.8
       12 obs. associated
-------------------------------------
?  OCT  15, 1993  12h 11m 31.18± 1.98s
   39.196 N ± 8.1km   27.816 E ±22.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.7 (ISK).

IZM     0.91 209 ePg   11 48.60   0.0
                 eSg   12 01.60
EZN     1.31 299 ePn   11 55.40   0.0
KGT     1.31 343 iPn   11 55.70   0.2
MFT     1.64 346 ePn   12 00.00  -0.2
     S.D. = 0.3  on   4 of   4 obs.
-------------------------------------
?  OCT  15, 1993  12h 47m 17.27± 2.18s
   26.819 S ±14.7km   26.427 E ±16.9km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA        (584)

BFS     0.33 104 iPc   47 23.50  -0.4
                 S     47 24.30
SEK     1.84 145 eP    47 50.70   0.8
                 S     48 09.60
SLR     1.98  57 eP    47 52.10   0.1
                 S     48 15.50
BLF     2.29 185 eP    47 56.00  -0.5
                 S     48 26.50
     S.D. = 1.0  on   4 of   4 obs.
-------------------------------------
?  OCT  15, 1993  12h 54m 29.24± 3.36s
   16.157 N ±31.3km   98.458 W ±12.2km
   DEPTH =  33.0km  (normal)
 NEAR COAST OF GUERRERO, MEXICO  ( 58)

ACX     1.52 298 iP    54 54.97   0.6
                 iS    55 13.00
OXX     1.90  61 iP    54 59.42  -0.7
                 iS    55 21.33
III     2.41 337 iP    55 07.44   0.1
                 iS    55 37.20
PPM     2.90 357 eP    55 15.41   0.8
                 (S)   55 47.84
IIA     2.98 356 (P)   55 20.50   5.2X
                 iS    55 53.09
IISM    3.00  20 iP    55 17.22   1.7
                 iS    55 55.58
UNM     3.23 348 (P)   55 16.50  -2.6
LVVM    4.04  28 (P)   55 30.50   0.1
MRX     4.38 324 (P)   55 30.65  -4.6X
                 (S)   56 29.91
     S.D. = 1.7  on   7 of   9 obs.
-------------------------------------
?  OCT  15, 1993  12h 55m 59.15± 5.45s
   36.420 N ±38.6km    2.485 E ±30.5km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ALGERIA                (396)
      mbLg 3.0 (MDD).

ACU     3.11 313 iPd   56 49.06  -0.1
                 e     57 21.20
ESEL    3.36   5 iPc   56 53.02   0.3
                 e     57 27.10
ENIJ    3.81 280 eP    56 58.36  -0.8
                 e     57 39.00
ECHE    4.18 320 eP    57 04.63   0.3
EHUE    4.29 290 eP    57 07.26   1.2
                 e     57 53.00
TAF     4.30 250 iPc   57 32.50  26.3X
                 i     58 30.50
EVIA    4.54 301 iPd   57 09.39  -0.2
                 e     57 56.80
EROQ    4.69 340 iPc   57 10.88  -0.7
                 e     57 57.90
     S.D. = 0.8  on   7 of   8 obs.
-------------------------------------
%  OCT  15, 1993  13h 06m 57.52± 0.75s
   40.794 N ± 6.2km   27.778 E ± 6.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.6 (ISK).

MFT     0.38 269 ePg   07 05.20  -0.1
BNT     0.45 166 iPg   07 06.70   0.0
KGT     0.50 227 ePg   07 07.70   0.1
                 eSg   07 13.70
CTT     0.61  54 iPg   07 09.70  -0.1
                 iSg   07 19.70
DMK     1.03 359 ePg   07 17.00   0.1
                 eSg   07 31.50
     S.D. = 0.1  on   5 of   5 obs.
-------------------------------------
%  OCT  15, 1993  13h 13m 02.22± 1.13s
   39.091 N ± 7.1km   27.679 E ±14.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.7 (ISK).

IZM     0.76 205 ePg   13 17.20   0.0
                 eSg   13 29.70
EDC     1.26   6 ePn   13 26.00   0.3
BNT     1.28   8 ePn   13 25.80  -0.1
EZN     1.28 305 ePn   13 26.00   0.1
KGT     1.39 348 ePn   13 27.70   0.1
MFT     1.72 350 ePn   13 32.00  -0.4
     S.D. = 0.3  on   6 of   6 obs.
-------------------------------------
?  OCT  15, 1993  13h 46m 34.99± 2.46s
   30.829 S ±24.2km   68.678 W ±22.7km
   DEPTH = 100.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA    (137)

RTLL    0.53 160 eP    46 51.70   0.4
                 S     47 05.00
RTCB    0.66 189 iPd   46 52.70   0.3
                 S     47 06.50
ZON     0.71 180 iPd   46 53.00   0.2
                 eS    47 06.00
CFA     0.86 154 iPc   46 55.60   1.3
                 S     47 12.00
RTPR    1.94  75 iPc   47 06.50  -0.8
                 S     47 32.00
MRA     2.98 123 iPd   47 21.60   0.3
                 S     47 57.00
RFA     3.93 177 ePd   47 32.60  -1.8
                 S     48 29.00
     S.D. = 1.2  on   7 of   7 obs.
-------------------------------------
%  OCT  15, 1993  14h 33m 24.08± 0.83s
   31.734 S ±10.4km   68.034 W ± 9.0km
   DEPTH =  33.0km  (normal)
 SAN JUAN PROVINCE, ARGENTINA    (137)

CFA     0.22 306 iPc   33 30.10  -0.8
                 S     33 34.00
RTCV    0.45 253 iPd   33 33.00  -0.9
RTLL    0.55 317 eP    33 36.20   0.8
ZON     0.58 289 eP    33 36.00   0.1
                 eS    33 42.00
RTCB    0.70 291 ePd   33 38.00   0.4
                 S     33 47.00
MRA     2.09 109 e(P)c 33 57.10  -0.3
                 S     34 38.40
RFA     3.05 187 ePd   34 12.00   0.8
                 S     34 59.30
     S.D. = 0.9  on   7 of   7 obs.
-------------------------------------
?  OCT  15, 1993  14h 37m 15.12± 3.78s
   39.923 N ±13.0km   19.291 E ±27.5km
   DEPTH =   5.0km  (geophysicist)
 GREECE-ALBANIA BORDER REGION    (392)
      ML 2.8 (THE).

SRN     0.55  94 iPgd  37 28.30   2.2
                 iSg   37 34.30
VLO     0.57  16 iPgd  37 28.50   2.0
TPE     0.67  56 iPgd  37 28.50   0.1
                 iSg   37 36.50
IGT     0.89 116 ePg   37 32.14  -0.6
                 eSg   37 39.94
LSK     1.03  77 iPgc  37 28.20  -6.9X
KBN     1.34  58 ePg   37 39.00  -1.4
TIR     1.49  17 ePn   37 53.00  10.5X
                 iSn   38 19.00
OHR     1.65  44 ePn   37 43.30  -1.6
LACI    1.74  10 ePn   38 02.60  16.5X
FNA     1.81  61 ePb   37 46.94  -0.3
                 eSb   38 06.50
LIT     2.46  85 ePn   37 55.34  -1.3
                 eSn   38 24.02
AGG     2.52 110 ePn   37 58.60   1.2
GRG     2.59  66 ePn   37 57.34  -1.1
SKO     2.61  38 ePn   38 05.50   6.8X
KNT     3.01  65 ePn   38 05.30   0.9
SOH     3.23  73 iPn   38 07.34  -0.2
     S.D. = 1.5  on  12 of  16 obs.
-------------------------------------
*  OCT  15, 1993  14h 50m 13.39± 0.96s
   44.831 S ±11.7km  165.913 E ± 8.8km
   DEPTH =  10.0km  (geophysicist)
 OFF W. COAST OF S. ISLAND, N.Z. (161)
      ML 4.0 (WEL).

MSZ     1.44  84 eP    50 39.10  -0.4
SIZ     2.57 144 P     50 55.80   0.2
LMZ     2.66  66 eP    50 57.10   0.1
BWZ     2.85  85 eP    51 00.30   0.6
TUZ     2.85 115 eP    50 59.60  -0.1
ODZ     3.37  95 P     51 06.70  -0.4
ASPA   33.52 298 eP    56 55.20   0.0
        0.5s     4.50nm          4.7mb
     S.D. = 0.4  on   7 of   7 obs.
-------------------------------------
?  OCT  15, 1993  14h 56m 04.18± 1.19s
   41.634 N ± 7.4km   27.671 E ±15.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.8 (ISK).

DMK     0.20  19 iPg   56 08.50  -0.1
                 iSg   56 12.50
CTT     0.75 130 iPg   56 19.10   0.2
                 eSg   56 33.10
MFT     0.90 199 ePg   56 21.70   0.3
                 eSg   56 36.00
BNT     1.29 172 ePn   56 27.60  -0.5
     S.D. = 0.6  on   4 of   4 obs.
-------------------------------------
%  OCT  15, 1993  14h 58m 01.37± 1.81s
   40.261 N ±12.7km   23.031 E ±12.4km
   DEPTH =  10.0km  (geophysicist)
 GREECE                          (364)
      ML 2.3 (THE).

THE     0.37 352 ePg   58 08.68  -0.4
                 eSg   58 14.04
LIT     0.44 249 iPg   58 10.32  -0.1
                 iSg   58 16.40
SOH     0.61  24 ePg   58 13.20  -0.5
                 eSg   58 22.16
GRG     0.84 326 ePg   58 18.20   0.5
                 eSg   58 30.60
KNT     0.91 354 ePg   58 18.50  -0.2
                 iSg   58 31.80
SRS     0.96  26 ePg   58 20.28   0.7
                 eSg   58 34.88
     S.D. = 0.6  on   6 of   6 obs.
-------------------------------------
%  OCT  15, 1993  15h 15m 08.05± 0.99s
   39.568 N ± 9.6km   29.498 E ±11.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.8 (ISK).

ALT     0.70 137 ePg   15 22.00   0.1
                 eSg   15 34.00
EYL     1.12  27 ePn   15 28.70  -0.4
BNT     1.45 303 ePn   15 33.70  -0.6
ISK     1.53 348 ePn   15 35.70   0.3
CTT     1.78 333 ePn   15 39.60   0.6
     S.D. = 0.7  on   5 of   5 obs.
-------------------------------------
%  OCT  15, 1993  15h 39m 38.58± 1.49s
   39.322 N ± 7.9km   27.808 E ±17.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.8 (ISK).

IZM     1.02 205 ePg   39 57.90   0.1
                 eSg   40 12.20
BNT     1.04   5 iPg   39 58.70   0.6
KGT     1.19 341 iPn   40 01.20   0.4
EZN     1.25 294 ePn   40 02.00   0.2
MFT     1.52 345 ePn   40 04.70  -1.2
     S.D. = 1.0  on   5 of   5 obs.
-------------------------------------
?  OCT  15, 1993  15h 59m 10.24± 1.02s
```

15d 15h

```
    9.988 N ±10.7km   67.186 W ± 8.0km
   DEPTH =  10.0km  (geophysicist)
 VENEZUELA                          (101)

GUAC     0.22 338 iPc    59 14.50  -0.6
                  iS     59 18.80
OLLA     0.38  85 iPd    59 18.10   0.1
                  iS     59 27.00
MORO     1.42 308 eP     59 36.90   0.8
                  iS     00 00.90
CEOS     1.48 230 iPc    59 36.70  -0.3
                  iS     59 55.80
GUAN     1.52  91 iPd    59 40.90   3.4X
                  iS     00 03.20
     S.D. = 1.0  on   4 of   5 obs.
-------------------------------------
%  OCT  15, 1993  18h 00m 33.61± 0.78s
   31.263 S ±16.6km   68.002 W ± 9.8km
   DEPTH = 100.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA      (137)

CFA      0.40 211 ePc    00 49.10   0.1
                  S      01 00.10
RTLL     0.41 260 iPd    00 49.00   0.0
RTCB     0.72 252 ePc    00 51.50   0.0
                  S      01 04.50
RTPR     1.60  54 eP     01 01.50   0.0
                  S      01 22.00
MRA      2.26 121 ePc    01 10.10   0.0
     S.D. = 0.1  on   5 of   5 obs.
-------------------------------------
?  OCT  15, 1993  18h 41m 48.81± 1.13s
   16.987 N ±13.0km   99.351 W ± 8.7km
   DEPTH =  10.0km  (geophysicist)
 NEAR COAST OF GUERRERO, MEXICO  ( 58)

ACX      0.50 257 iP     41 59.00   0.0
                  iS     42 02.00
III      1.39 355 iP     42 14.00  -0.4
                  iS     42 33.00
PPM      2.18  18 iP     42 26.50   0.4
                  iS     42 55.00
OXX      2.52  87 iP     42 30.50  -0.1
                  iS     43 02.00
     S.D. = 0.5  on   4 of   4 obs.
-------------------------------------
?  OCT  15, 1993  18h 52m 48.00± 6.90s
   44.475 N ±15.8km    9.310 E ±50.8km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                     (545)
      ML 2.9 (GEN).

PCP      0.55 277 P      52 58.78  -0.5
                  S      53 08.64
FIN      0.83 252 P      53 04.44   0.3
                  S      53 17.21
ROB      1.05 261 P      53 08.19   0.4
                  S      53 24.13
IMI      1.17 242 P      53 09.37  -0.5
BHB      1.51 285 P      53 15.20   0.1
PZZ      1.58 272 P      53 16.27   0.0
RSP      1.61 296 P      53 16.54  -0.1
     S.D. = 0.4  on   7 of   7 obs.
-------------------------------------
&  OCT  15, 1993  18h 57m 09.44s
   34.242 N          116.425 W
   DEPTH =   2.6km
 SOUTHERN CALIFORNIA                ( 43)
      <PAS-P>. ML 3.1 (PAS). Felt in
      the Yucca Valley area.

PEC      0.70 240 iPd    57 22.62  -0.9
                  eS     57 32.12
PLM      0.96 202 iPd    57 27.14  -1.4
SSK      1.05 269 eP     57 29.00  -1.1
                  eS     57 44.22
GSC      1.10 344 eP     57 30.00  -0.9
GLA      1.78 131 ePn    57 34.04  -7.4
ISA      2.20 311 ePn    57 47.08  -0.4
                  eS     58 18.49
ABL      2.39 286 ePn    57 49.57  -0.8
TPNV     2.70   3 ePn    57 53.73  -1.1
BCH      3.16 288 ePn    58 00.70  -0.5
BONR     4.00 338 ePn    58 13.92   0.5
ARUT     4.29  34 ePn    58 15.56  -1.7
                  ePg    58 29.45
       11 obs. associated
-------------------------------------
*  OCT  15, 1993  19h 34m 14.75± 0.69s
   13.530 N ±15.6km  146.208 E ±10.1km
   DEPTH =  33.0km  (normal)
   4.4mb (  3 obs.)  4.1Msz (  1 obs.)
 SOUTH OF MARIANA ISLANDS           (210)

GUA      1.26 271 eP     34 36.50   0.3
                  eS     34 53.20
GUMO     1.31 273 eP     34 37.00   0.2
                  eS     34 54.40
PJG      1.31 273 eP     34 37.50   0.7
WR2     35.25 200 eP     41 06.00  -2.5
         0.8s     3.70nm          4.4mb
BJI     37.31 321 eP     41 24.00  -1.6
         1.3s    10.00nm          4.5mb
      Z  18s     0.29um          4.1Msz
ASPA    38.88 198 eP     41 41.00   2.0
         0.8s     3.60nm          4.2mb
      Z  23s     0.10um          3.6MszX
                 ipP     41 53.10  44kmX
YAK     49.84 350 eP     43 00.00  -6.4X
GMW     80.83  43 (P)    46 27.65   0.8
RMW     81.50  43 (P)    46 31.17   0.8
LRM     88.14  43 eP     47 04.10   0.1
KIC    145.03 303 PKP    53 50.95  -0.4
         0.7s    10.00nm
TIC    145.10 303 PKP    53 51.05  -0.4
         0.8s     4.50nm
LIC    145.35 303 PKP    53 51.83  -0.1
         0.6s     4.00nm
LPAZ   146.73  99 ePKP   53 59.00   4.1X
LPB    146.76 100 ePKP   54 08.00  13.4X
CNCB   146.86 100 ePKP   54 02.00   7.0X
     S.D. = 1.3  on  12 of  16 obs.
-------------------------------------
*  OCT  15, 1993  19h 38m 21.42± 0.61s
   56.091 S ±14.6km   26.819 W ±14.1km
   DEPTH =  33.0km  (normal)
   4.6mb (  4 obs.)
 SOUTH SANDWICH ISLANDS REGION      (153)

NVL     22.11 147 iPc    43 15.00   0.0
         1.6s    55.00nm          4.7mb
SPA     34.09 180 iPc    45 02.70  -2.0
         0.8s    28.33nm          5.2mb
MRA     35.83 295 e(P)d  45 18.60  -0.9
CFA     37.77 293 ePc    45 35.00  -0.9
RTLL    38.11 293 iPc    45 37.80  -1.0
RTCB    38.15 292 iPd    45 38.70  -0.5
PPD     38.55 322 eP     45 42.80   0.3
CNCB    50.04 305 P      47 16.50   1.1
LPB     50.34 305 P      47 19.00   1.5
LPAZ    50.57 305 iPc    47 19.70   0.2
ARE     52.00 301 eP     47 31.00   1.1
CSY     53.79 160 eP     47 44.50   2.3
         1.1s     4.60nm          4.4mb
BUL     54.39  72 iPd    47 47.40   0.0
LKO     67.74  23 P      49 15.94  -1.7
         0.5s     1.50nm          4.4mb
INK    145.96 320 ePKPd  57 57.20   0.5
         0.8s     8.00nm
TOA    149.33 307 ePKP   58 08.30   5.9X
PMS    150.63 304 ePKP   58 09.80   5.5X
         0.7s    14.10nm
FBA    150.70 312 ePKP   58 09.00   4.7X
         0.9s    10.10nm
IMA    153.29 313 e(PKP) 58 15.80   7.6X
     S.D. = 1.3  on  15 of  19 obs.
-------------------------------------
?  OCT  15, 1993  19h 54m 52.75± 2.87s
   27.132 S ±23.2km  179.218 E ±16.4km
   DEPTH = 534.0 ± 29.9 km
   4.7mb (  9 obs.)
 KERMADEC ISLANDS REGION            (177)

OUZ      9.39 209 P      57 07.00   1.9
PUZ     10.94 184 eP     57 21.40   0.4
URZ     11.24 189 eP     57 22.90  -1.1
NOZ     11.50 185 eP     57 25.70  -1.0
PGZ     13.67 190 eP     57 47.20  -1.6
CAW     14.36 193 eP     57 55.00  -0.7
BLW     14.53 191 eP     57 56.20  -1.3
                  eS     00 27.70
MRW     14.55 194 eP     57 56.50  -1.1
                  eS     00 25.60
QRZ     14.74 200 P      58 01.10   1.6
THZ     15.49 198 P      58 07.40   0.3
                  eS     00 47.80
LTZ     16.61 198 eP     58 18.00   0.0
WVZ     17.34 201 eP     58 26.00   1.0
MQZ     17.37 196 eP     58 25.80   0.5
LMZ     18.40 203 P      58 36.10   0.8
BWZ     18.92 201 eP     58 39.60  -0.6
ARMA    24.38 256 eP     59 30.10  -0.4
         0.6s     7.00nm          4.4mb
CNB     26.73 245 iPd    59 53.40   2.3
CAN     27.02 245 eP     59 55.30   1.6
BWA     27.37 247 iPc    59 55.40  -1.3
TOO     30.19 241 eP     00 21.90   0.8
         0.5s    19.00nm          4.9mb
CTA     30.94 276 iPc    00 27.50  -0.1
         0.5s     7.04nm          4.5mb
STK     32.98 253 iPc    00 44.80   0.2
         0.5s     4.50nm          4.3mb
QIS     36.71 272 eP     01 15.30  -0.4
ASPA    40.92 264 iPc    01 49.50  -0.5
         0.3s    13.40nm          5.0mb
                  eS     07 18.00
WR2     41.57 270 eP     01 54.10  -1.1
         0.7s    25.00nm          4.9mb
WRA     41.59 270 P      01 54.70  -0.7
         0.7s    12.50nm          4.6mb
FORT    44.60 253 eP     02 17.90  -1.0
         0.8s    47.00nm          5.1mb
BAL     54.23 250 eP     03 29.00  -1.3
MRWA    55.16 252 iPd    03 35.80  -1.0
         0.4s     4.00nm          4.1mb
MAIO   128.63 296 iPKPd  13 01.00   0.3
NB2    145.14 350 PKP    13 31.10   1.1
         0.6s     1.50nm
HFS    145.55 347 ePKP   13 31.10   0.5
         0.4s     2.20nm
     S.D. = 1.1  on  32 of  32 obs.
-------------------------------------
   OCT  15, 1993  20h 01m 15.57± 0.27s
   20.143 N ± 5.4km  146.176 E ± 6.1km
   DEPTH =  32.3km  ( 12 depth phases)
   4.9mb ( 36 obs.)  4.2Msz (  4 obs.)
 MARIANA ISLANDS REGION             (215)

PJG      6.64 191 eP     02 55.80   2.4
GUMO     6.64 191 eP     02 55.50   2.1
         1.2s   510.60nm          6.2mb X
                  e(S)   04 08.20
GUA      6.68 191 eP     02 55.80   1.8
         0.7s   219.18nm          6.1mb X
                  e      02 59.90
PLP     22.26 250 ePd    06 13.00   1.6
CVP     23.16 268 ePd    06 22.70   2.4
MAP     23.51 249 iPc    06 27.00   3.3X
GQP     23.51 258 ePd    06 25.00   1.3
DAV     23.82 240 eP     06 28.00   1.3
BAG     24.58 266 eP     06 37.00   2.7
SSE     24.98 301 P      06 38.00   0.2
         1.0s    11.00nm          4.4mb
      Z  20s     0.90um          4.3Msz
                  pP     06 49.50  45kmX
PGP     25.01 259 ePd    06 40.30   2.0
YSS     26.95 355 eP     07 06.50  10.6X
      Z  18s     0.50um          4.1Msz
                  e      13 07.00
MDJ     28.03 334 iPc    07 06.70   1.0
         1.0s    31.00nm          5.0mb
DL2     28.24 317 eP     07 09.20   1.5
         1.0s    89.00nm          5.4mb
SNY     28.87 323 Pc     07 11.80  -1.5
      Z  24s     0.77um          4.2MszX
CN2     29.26 328 eP     07 16.40  -0.5
         1.0s     7.00nm          4.3mb
      Z  14s     0.41um          4.2MszX
      N  14s     0.31um
      E  14s     0.32um
                  epP    07 25.00  30km
                  eS     12 06.00
PMG     29.38 178 eP     07 15.00  -3.1X
BJI     32.43 314 eP     07 48.50   3.7X
      Z  18s     0.47um          4.2Msz
TIY     34.09 308 eP     07 58.40  -1.0
XAN     35.73 301 P      08 12.50  -1.0
         1.0s     7.10nm          4.6mb
                  pP     08 22.50  34km
HHC     35.94 313 P      08 14.00  -1.2
         1.0s    19.00nm          5.0mb
```

```
      Z  28s     0.74um          4.3MszX
GYA   36.73 287 P      08 21.60  -0.4
                pP     08 32.40  38km
BTO   36.91 312 eP     08 22.00  -1.4
CD2   39.54 294 eP     08 44.60  -0.9
CTA   39.98 180 eP     08 47.00  -2.0
LZH   40.24 302 P      08 51.50   0.2
      1.4s    49.00nm          5.1mb
      Z  25s     0.48um          4.2MszX
                pP     09 00.00  29km
CIT   40.66 329 eP     08 56.00   1.6
WR2   41.49 197 iPd    08 59.20  -2.2
      0.6s    29.90nm          5.2mb
YAK   43.38 349 eP     09 16.00  -0.4
      1.2s    65.00nm          5.3mb
GTA   44.05 306 Pd     09 21.80  -0.5
      1.4s    21.00nm          4.8mb
      Z  20s     0.58um          4.5Msz
                pP     09 27.50  19kmX
ASPA  45.16 196 eP     09 28.70  -2.5
      0.8s    10.10nm          4.8mb
      Z  23s     0.50um          4.4MszX
                eS     16 00.80
DZM   46.39 154 iPc    09 39.80  -1.3
IPM   46.55 257 ePc    09 43.10   0.7
LSA   50.41 292 eP     10 08.20  -4.5X
      0.8s    10.00nm          4.9mb
ARMA  50.54 174 eP     10 10.30  -2.9
      0.9s    12.00nm          4.9mb
STK   51.91 185 eP     10 20.60  -2.8
      1.3s     1.20nm          3.7mb X
TIK   52.48 353 iPd    10 27.00  -0.2
      1.0s    10.00nm          4.7mb
                e      10 44.00  66kmX
                e      11 32.00
WMQ   53.72 310 iPc    10 37.00   0.1
      2.0s    45.00nm          5.1mb
      Z  16s     0.52um          4.7MszX
                eS     18 09.00
BWA   54.30 178 eP     10 39.30  -1.8
CAN   55.22 177 eP     10 47.50  -0.3
SVW   57.34  29 eP     11 02.70  -0.1
TOO   57.41 181 eP     11 03.00  -0.4
TTA   57.77  27 eP     11 05.80   0.0
BAL   57.87 210 eP     11 04.00  -2.7
IMA   59.78  24 eP     11 19.25  -0.5
      1.0s     4.49nm          4.6mb
PWA   60.15  30 eP     11 23.60   1.5
      0.9s    19.40nm          5.2mb
NRI   60.26 340 ePd    11 21.00  -1.9
      1.8s    46.00nm          5.3mb
                e      11 31.00  33km
                e      12 05.00
PMR   60.48  30 eP     11 23.72  -0.7
FBA   61.81  26 eP     11 35.30   1.9
      0.8s     5.33nm          4.7mb
                e      11 44.04  28km
KLU   61.97  30 eP     11 32.53  -2.1
                e      11 43.99  39km
KSH   62.41 305 P      11 39.00   0.9
      1.0s    22.00nm          5.2mb
FRU   63.22 309 eP     11 43.00  -0.2
      1.8s    40.00nm          5.2mb
                e      12 00.00  64kmX
GBA   65.72 276 P      11 58.00  -1.7
INK   67.88  23 eP     12 12.00  -0.6
      0.9s     4.00nm          4.5mb
SVE   70.97 325 ePc    12 31.00  -0.8
      2.2s    60.00nm          5.3mb
ARU   72.14 324 eP     12 37.00  -1.8
                e      12 47.00  32km
GMW   76.10  44 ePc    13 03.02   1.1
ASH   76.24 306 eP     13 03.50   0.6
      1.4s   120.00nm          5.7mb
YKA   76.51  28 eP     13 02.90  -0.9
      0.8s     8.80nm          4.8mb
RMW   76.76  44 eP     13 06.38   0.7
KMPM  77.01  52 eP     13 08.57   1.3
LGPM  77.82  51 ePc    13 12.72   1.0
RES   77.92  14 eP     13 12.00   0.5
      1.0s     6.00nm          4.6mb
VGB   77.98  46 eP     13 12.19  -0.2
LBFM  78.38  50 eP     13 14.03  -0.9
ORV   79.18  52 ePc    13 19.44   0.3
NEW   79.55  42 eP     13 20.81  -0.1
      1.0s    19.91nm          5.1mb
ARN   79.81  54 eP     13 21.82  -0.8
BCH   81.60  56 eP     13 33.63   1.5
BONR  82.06  53 eP     13 35.41   0.7
LRM   83.39  44 eP     13 41.40   0.0
MOS   83.50 327 eP     13 50.00   8.7X
GRO   83.72 314 eP     13 42.00  -0.7
      1.5s   160.00nm          6.0mb
                i      13 50.00  25km
TPNV  83.93  53 eP     13 44.59   0.4
      0.4s     2.49nm          4.7mb
PEC   84.30  56 eP     13 45.58  -0.4
OBN   84.31 327 iP     13 45.00  -0.4
      1.1s    43.00nm          5.5mb
                e      13 55.00  32km
HVU   84.69  47 P      13 49.39   1.5
TAB   85.22 309 eP     13 51.00   0.4
PYA   85.22 315 eP     13 50.00  -0.3
                i      14 02.00  39km
DUG   85.26  49 eP     13 50.86   0.1
      0.7s     5.43nm          4.9mb
KAF   85.29 336 iP     13 49.30  -0.9
      0.7s    10.60nm          5.2mb
ARUT  85.72  51 eP     13 53.48   0.4
DAU   86.28  48 eP     13 55.07  -1.0
MSU   86.36  50 eP     13 57.29   0.9
NUR   86.88 335 eP     13 58.00  -0.1
SRU   87.31  49 eP     14 01.17   0.3
PV09  88.55  49 eP     14 07.59   0.6
TUC   89.85  56 ePd    14 15.51   2.5
      1.1s     7.42nm          4.9mb
ULM   91.16  35 eP     14 21.00   2.5
HFS   91.22 338 eP     14 15.80  -2.8
      0.4s     1.00nm          4.5mb
NB2   91.38 340 P      14 17.90  -1.6
      1.1s     7.00nm          5.0mb
KSP   96.73 331 eP     14 43.00  -1.1
                e      18 38.70
GEC2  99.33 330 P      14 54.80  -1.3
      1.1s     1.69nm          4.5mb
                e      15 04.20  29km
ELC  102.65  42 ePdiff15 11.19   0.3
RSNY 105.66  29 (PKP) 19 39.69   2.4
CVL  108.57  36 ePdiff15 43.14   5.9X
LKO  139.47 314 PKP    20 45.16   2.7
      0.9s     6.50nm
LIC  141.42 310 PKP    20 45.18  -0.8
      1.0s     6.50nm
LPAZ 147.22  89 PKP    20 59.00   2.5
LPB  147.30  89 PKP    21 00.80   4.5X
CNCB 147.47  90 PKP    21 00.20   3.4X
CCH  149.31  90 ePKP   21 04.00   4.6X
     S.D. = 1.4  on  92 of 102 obs.
-----------------------------------
%  OCT  15, 1993  21h 03m 54.75± 1.14s
   31.213 S ±16.5km   68.701 W ±13.9km
   DEPTH = 100.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA     (137)

RTLL    0.23 121 iPd   04 09.50  -0.1
                S      04 20.50
RTCB    0.29 197 iPd   04 09.50  -0.1
                S      04 20.50
ZON     0.33 177 eP    04 10.00   0.2
                eS     04 20.00
CFA     0.56 135 eP    04 11.30   0.1
RTCV    0.66 168 eP    04 12.00  -0.1
                S      04 25.00
RTPR    2.09  65 eP    04 29.00   0.0
                S      04 55.50
MRA     2.81 116 e(P)c 04 38.70   0.0
                (S)    05 11.50
     S.D. = 0.1  on   7 of   7 obs.
-----------------------------------
   OCT  15, 1993  21h 31m 37.38± 1.31s
    4.214 N ± 4.7km  127.797 E ± 8.4km
   DEPTH = 126.0 ± 14.4 km
   5.3mb ( 16 obs.)
 TALAUD ISLANDS, INDONESIA        (263)

MAP     7.15 328 ePc   33 22.00   1.2
PLP     7.45 338 ePd   33 25.00   0.2
MTN    17.27 169 eP    35 30.80  -1.5
       0.3s    89.00nm          5.5mb
GUMO   19.25  60 eP    35 53.70  -0.9
       1.0s    98.50nm          5.1mb
PJG    19.25  60 eP    35 54.30  -0.3
GUA    19.27  60 eP    35 54.80   0.0
LEM    22.94 242 ePc   36 36.50   4.9X
WR2    24.86 165 iPc   36 49.10  -0.8
       0.4s   252.30nm          6.1mb
                eS     41 11.40
                iScP   43 47.90
QIS    27.21 155 iPd   37 10.60  -0.8
ASPA   28.34 168 iPc   37 20.80  -0.8
       0.6s    56.40nm          5.4mb
                eS     41 56.90
                eScS   47 47.60
CTA    30.20 144 iPd   37 40.00   1.9
MEEK   31.93 196 iPc   37 52.20  -1.0
       0.9s    77.00nm          5.5mb
XAN    34.48 332 P     38 14.30  -0.9
       0.8s     6.90nm          4.5mb
                pP     38 25.00  38kmX
FORT   34.80 180 iPc   38 12.00  -5.8X
       0.6s   114.00nm          5.9mb X
MRWA   35.12 198 eP    38 20.00  -0.6
       0.4s    12.00nm          5.1mb
COOL   35.47 190 eP    38 22.50  -1.1
TIY    36.18 339 eP    38 29.70   0.2
BAL    36.21 196 iPc   38 29.40  -0.4
KLB    36.87 194 iPc   38 34.90  -0.4
BJI    37.18 345 eP    38 27.00 -10.8X
       1.0s    22.00nm
BJI    37.18 345 eP    38 37.00  -0.8
       1.0s    22.00nm          4.9mb
MUN    37.64 196 eP    38 41.50  -0.3
     Z  20s   123.50um          6.7Msz
     N  20s    50.70um
     E  20s    74.30um
STK    38.22 161 iPc   38 46.80   0.2
       0.7s    79.50nm          5.6mb
NWAO   38.27 194 eP    38 46.80  -0.2
LZH    38.64 328 eP    38 51.50   1.2
       1.0s    20.00nm          4.9mb
MDJ    40.27   2 eP    39 04.00   0.6
       1.0s    29.00nm          5.0mb
ADE    40.30 166 iPc   39 05.00   1.2
ARMA   41.30 148 iPc   39 12.30   0.2
       0.6s   159.00nm          5.9mb X
BWA    43.07 155 iPc   39 28.20   1.7
GTA    43.24 328 eP    39 28.20   0.3
       1.0s     6.00nm          4.3mb
CAN    44.08 155 iPc   39 35.30   0.7
CNB    44.23 154 iPd   39 37.00   1.1
       0.8s    35.00nm          5.1mb
TOO    44.71 160 iPc   39 40.70   1.1
       0.3s    27.00nm          5.5mb
                e      41 27.00
DZM    45.95 126 iPd   39 49.10  -0.6
YAK    57.69   1 eP    41 14.50  -2.1
       1.0s    70.00nm          5.6mb
CSY    71.43 187 eP    42 47.50   2.1
       0.7s    51.30nm          5.4mb
IMA    81.51  24 eP    43 41.63  -0.3
       1.1s     3.26nm          4.0mb X
     S.D. = 1.0  on  34 of  37 obs.
-----------------------------------
   OCT  15, 1993  21h 41m 44.37± 0.39s
   42.319 N ± 2.9km   29.831 E ± 4.2km
   DEPTH =  10.0km  (geophysicist)
 BLACK SEA                        (360)
     ML 3.6 (ISK).

ISK     1.38 205 iPg   42 09.60   0.0
                iSg    42 26.60
HRT     1.50 185 iPn   42 11.60   0.2
CTT     1.57 222 iPn   42 12.60   0.2
DMK     1.62 253 iPn   42 13.70   0.6
EYL     1.77 172 iPn   42 15.40   0.1
PSN     1.82 319 iP    42 16.00   0.0
IZI     2.00 188 ePn   42 19.00   0.4
GPA     2.06 170 ePn   42 19.70   0.2
JMB     2.41 275 iP    42 25.00   0.5
BNT     2.43 217 iPn   42 24.60  -0.2
MFT     2.45 232 ePn   42 25.10   0.0
EDC     2.47 218 ePn   42 25.00  -0.2
KGT     2.66 226 iPn   42 28.10   0.0
KAS     3.09 107 eP    42 33.50  -0.6
CFR     3.11 338 eP    42 34.00  -0.3
DIM     3.20 267 iP    42 35.00  -0.7
ALT     3.27 176 ePn   42 37.00   0.2
PVL     3.43 287 iP    42 40.00   1.1
ISR     3.69 321 iPc   42 43.50   0.8
PLD     3.81 269 iP    42 44.00  -0.4
RZN     3.86 262 iP    42 44.00  -1.3
```

15d 21h

```
MLR     4.24 320 eP    42 51.00    0.5
MTUR    4.51 312 iPc   42 54.00   -0.4
                 e     15 46.00
CLI     4.61 338 iPc   42 55.50   -0.1
MMB     4.61 263 eP    42 55.00   -0.7
BZS     6.78 302 eP    43 16.00 -10.3X
     S.D. = 0.6  on  25 of  26 obs.
-----------------------------------
   OCT  15, 1993  22h 37m 19.67± 0.34s
   40.744 N ± 6.7km   48.105 E ± 4.8km
   DEPTH =  56.1km  (  2 depth phases)
   4.8mb ( 17 obs.)
 EASTERN CAUCASUS                (337)

BAK     1.41 104 iPgc  37 44.00    0.6
                 iS    38 06.00
MTA     2.67 292 ePn   38 01.00    0.0
                 i     38 09.00
                 e     38 43.00
TAB     3.01 208 iPc   38 07.00    0.9
GRO     3.17 326 iPnd  38 09.00    0.9
                 i     38 15.00
                 iS    38 55.00
PYA     4.98 313 ePn   38 32.00   -1.7
                 iS    39 28.50
                 i     39 48.00
TEH     5.63 152 eP    38 41.00   -1.9
ASH     8.41 106 P     39 16.50   -5.0X
      0.6s   120.00nm          5.9mb X
                 S     40 55.50
MAIO    9.96 113 iPd   39 37.80   -5.1X
                 i     41 29.00
OBN    16.27 336 ePd   41 00.50   -5.2X
MOS    16.52 339 ePc   41 09.00    0.2
      1.4s   150.00nm          4.9mb
MLR    16.85 294 eP    41 14.00    0.8
ARU    17.10  20 eP    41 09.50   -6.6X
                 e     44 14.00
CMP    17.45 293 ePd   41 30.00    9.4X
SVE    18.02  23 iPd   41 21.90   -5.6X
      1.4s   140.00nm          4.9mb
                 e     44 28.00
FRU    19.85  75 eP    41 46.20   -2.5
      2.0s   280.00nm          5.2mb
UZH    19.90 302 eP    41 52.50    3.4X
OHR    20.61 280 eP    41 55.00   -1.5
PSZ    21.34 299 eP    42 03.80   -0.1
SPC    21.35 303 eP    42 03.20   -0.9
OJC    21.88 305 eP    42 10.00    0.9
                 i     42 13.90   14kmX
SRO    22.37 298 eP    42 26.20   12.1X
ZST    23.23 299 eP    42 23.20    0.8
NUR    24.51 332 iP    42 33.80   -0.9
      0.6s    52.40nm          5.2mb
KAF    25.11 336 iP    42 39.20   -1.1
      0.6s    38.60nm          5.1mb
GEC2   25.55 300 P     42 44.90    0.2
      0.7s     2.85nm          3.9mb
                 e     42 50.90   21kmX
                 e     42 52.90
                 e     42 55.40
                 e     43 06.60
KHC    25.66 301 eP    42 58.00   12.3X
                 e     43 12.60   61km
                 e     44 35.00
BRG    25.66 305 e(P)  42 50.20    4.6X
KBA    25.68 296 iPd   42 47.00    0.9
NDI    26.66 108 iPc   42 55.50    0.5
      0.6s    32.00nm          5.1mb
UPP    26.91 326 iP    43 06.80    9.9X
HFS    28.76 324 eP    43 12.40   -1.3
      0.4s     3.60nm          4.4mb
WMQ    29.26  71 iPd   43 18.00   -0.5
      1.0s    14.00nm          4.6mb
    Z  16s     0.52um          4.2MszX
NB2    30.26 325 P     43 25.10   -2.1
      0.7s     2.10nm          4.0mb
HYB    35.04 123 eP    44 09.20    0.1
NRI    35.50  23 eP    44 14.00    1.6
                 e     45 30.00 390kmX
LSA    36.52  94 eP    44 17.20   -4.8X
GBA    37.25 128 P     44 28.00    0.4
GTA    39.12  75 eP    44 43.40    0.1
      1.0s     6.00nm          4.4mb
                 pP    44 47.50   14kmX
LZH    43.30  77 eP    45 18.00    0.3
      1.0s    20.00nm          4.8mb
```

```
CD2    45.51  84 iPd   45 36.00    0.7
HHC    47.07  68 eP    45 48.60    1.0
XAN    47.94  78 P     45 54.10   -0.3
      0.8s     6.90nm          4.7mb
TIY    48.92  71 eP    45 58.00   -4.0X
TIK    49.06  24 eP    46 03.00    0.5
GYA    49.95  88 P     46 09.40   -0.7
      1.0s    13.00nm          4.9mb
FBA    73.96   7 ePc   48 50.08   -0.2
      1.0s     8.57nm          4.6mb
JAQ    74.18 329 eP    48 52.00    0.2
LMN    75.03 318 eP    48 57.50    0.7
YKA    76.17 352 eP    49 02.50   -0.4
      0.9s     2.80nm          4.2mb
KLU    77.48   7 eP    49 11.06    0.7
                 pP    49 25.63   51km
GAC    80.25 324 eP    49 27.00    1.5
ULM    84.03 338 eP    49 49.50    4.4X
RSSD   91.88 340 eP    50 24.62    1.5
      0.9s     5.72nm          5.0mb
     S.D. = 1.1  on  39 of  53 obs.
-----------------------------------
& OCT  15, 1993  23h 12m 49.56s
   59.042 N          152.975 W
   DEPTH =  77.0km
 SOUTHERN ALASKA                  (  2)
     <AEIC>.

CDD     0.36 252 iPc   13 01.16   -1.0
                 eS    13 10.72
AUI     0.38 322 iPd   13 01.57   -0.6
                 iS    13 10.72
AUE     0.38 327 iPd   13 01.78   -0.4
AUP     0.39 325 iP    13 01.66   -0.8
AGU     0.40 324 iPd   13 02.00   -0.5
AUH     0.40 323 ePd   13 01.95   -0.5
AUL     0.42 325 iPd   13 01.99   -0.5
AUW     0.42 322 iPd   13 01.98   -0.5
OPT     0.63 348 iPd   13 04.00   -0.5
                 eS    13 15.12
XLV     0.77  57 eP    13 05.29   -0.6
                 eS    13 17.90
HOM     0.92  47 eP    13 07.49   -0.2
PDB     0.97 321 eP    13 07.39   -1.0
                 eS    13 21.15
CNPM    1.02  61 iPd   13 08.12   -0.8
                 eS    13 22.41
INE     1.02 358 iPd   13 08.15   -1.0
ILIM    1.04   0 iPd   13 08.26   -1.0
                 eS    13 22.80
BRLK    1.29  55 eP    13 11.40   -1.0
                 iS    13 27.96
KDC     1.32 169 eP    13 10.95   -1.8
RED     1.39   4 iPd   13 12.75   -1.0
                 eS    13 30.68
RSO     1.43   4 iPd   13 13.58   -0.8
RS2     1.43   4 iPd   13 13.60   -0.8
RDW     1.45   3 iPd   13 13.74   -0.9
REF     1.46   5 iPd   13 13.93   -0.9
                 eS    13 32.61
NCT     1.52   1 iPd   13 14.75   -0.8
DFR     1.56   5 iPd   13 15.29   -0.8
NKA     1.92  26 eP    13 22.12    1.3
SLKM    2.03  42 eP    13 20.69   -1.6
BKG     2.07  10 eP    13 22.15   -0.8
SEW     2.09  58 eP    13 21.09   -2.0
CKL     2.19   8 iPd   13 23.80   -0.8
SPU     2.20  12 iPd   13 23.78   -0.9
CKT     2.20  10 iPd   13 23.93   -0.8
CKN     2.23  10 eP    13 24.48   -0.6
BGL     2.25   7 iPd   13 24.75   -0.7
CP2     2.26   9 eP    13 24.72   -1.0
CRP     2.27  10 eP    13 24.42   -1.4
CGLM    2.32  12 iPd   13 25.68   -0.8
MPA     2.33  50 eP    13 25.10   -1.4
NCG     2.40   9 iPd   13 26.80   -0.8
SVW     2.46 329 eP    13 26.57   -1.8
PMS     2.79  36 P     13 31.70   -1.2
PWL     2.96  50 eP    13 33.21   -2.0
                 eS    14 06.13
PWA     3.04  29 P     13 35.40   -0.8
PLRM    3.19  35 eP    13 36.43   -2.0
PMR     3.19  35 eP    13 36.33   -2.1
KNK     3.28  42 eP    13 37.65   -2.0
CFI     3.38  48 eP    13 38.49   -2.5
GHO     3.40  35 eP    13 39.52   -1.8
HIN     3.55  65 eP    13 41.44   -2.0
```

```
SML     3.60  38 eP    13 42.27   -1.9
CUT     3.63  20 eP    13 43.11   -1.3
FID     3.69  60 eP    13 41.97   -3.4
VZW     3.80  55 eP    13 44.17   -2.8
VLZ     3.93  55 eP    13 46.59   -2.1
CVA     3.95  64 eP    13 46.33   -2.6
SCM     3.96  43 eP    13 47.37   -1.8
TTA     4.17 341 (P)   13 48.46   -3.8
KLU     4.29  52 iPc   13 51.44   -2.4
RAGM    4.41  69 eP    13 53.29   -2.3
TOA     4.55  45 P     13 55.50   -2.0
TRF     4.61  15 eP    13 56.91   -1.5
KTH     4.63  11 eP    13 57.74   -0.9
TZL     4.79  48 eP    13 57.10   -3.7
DHY     4.88  32 eP    13 59.97   -2.2
MCK     5.09  21 P     14 03.90   -1.1
GLB     5.16  58 eP    14 03.00   -3.0
CRQM    5.24  67 eP    14 04.24   -3.0
PAX     5.37  40 eP    14 06.89   -2.1
BALM    5.69  65 eP    14 10.15   -3.3
YAH     5.84  72 eP    14 13.38   -2.2
HDA     6.09  25 eP    14 15.95   -3.0
CCB     6.13  21 eP    14 16.13   -3.3
IMA     7.06 358 (P)   14 30.88   -1.5
SIT     9.56  94 (P)   15 01.95   -4.6
       73 obs. associated
-----------------------------------
& OCT  15, 1993  23h 17m 58.47s
   38.849 N          122.821 W
   DEPTH =    1.0km
 NORTHERN CALIFORNIA              ( 36)
     <GM-P>. MD 3.3 (GM). ML 3.3
     (BRK).

GDXM    0.05 153 P     17 59.52    0.0
GCRM    0.11 132 P     18 00.83    0.1
GAXM    0.15 159 P     18 01.47    0.1
SKG     0.21 226 P     18 03.13    0.5
NMTM    0.30  98 P     18 04.78    0.4
GCWM    0.34 325 P     18 05.63    0.3
NSHM    0.37 153 P     18 06.01    0.2
GARM    0.46  76 P     18 10.50    2.9
NTYM    0.48 165 ePc   18 08.19    0.2
NCFM    0.53 178 P     18 09.90    0.9
GNAM    0.72 299 P     18 13.22    0.4
SNT     0.73 156 P     18 12.76   -0.2
GCBM    0.76 315 P     18 14.19    0.5
OSUM    0.86  60 P     18 16.43    0.7
CPIM    0.98 151 P     18 18.03    0.1
ZSP     1.01 154 iP    18 17.88   -0.5
HMR     1.06 131 eP    18 19.78    0.5
BKS     1.07 154 ePd   18 19.43   -0.1
                 eS    18 34.93
BKC     1.08 148 P     18 20.00    0.4
JPRM    1.09 165 P     18 20.53    0.8
CSVM    1.17 147 P     18 22.12    0.9
ORV     1.25  55 eP    18 21.27   -1.2
CSLM    1.25 154 P     18 22.69    0.1
JCPM    1.32 163 P     18 24.69    1.0
JEGM    1.36 168 eP    18 23.76   -0.7
PCC     1.39 165 iP    18 21.79   -3.1
ASMM    1.67  90 P     18 29.21    0.1
WDC     1.74   7 eP    18 30.63    0.6
MHC     1.77 148 eP    18 31.11    0.5
ARN     1.81 145 eP    18 29.32   -1.7
COE     1.83 150 eP    18 29.79   -1.5
KMPM    1.86 328 eP    18 36.15    4.3
LMEM    1.94  29 (P)   18 34.18    1.1
CMB     2.08 112 eP    18 33.41   -1.6
FHC     2.15 336 (P)   18 35.38   -0.5
SAO     2.35 152 eP    18 36.28   -2.6
LBFM    2.60  16 eP    18 44.07    1.6
YBH     2.88   2 eP    18 52.15    5.7
TNP     4.46  98 (P)   19 12.31    3.2
ISA     4.70 131 eP    19 11.82   -0.5
       40 obs. associated
-----------------------------------
? OCT  15, 1993  23h 51m 05.26± 1.04s
   44.624 N ±12.6km   11.791 E ±18.2km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                   (545)
     MD 2.4 (FIR).

FIR     0.93 205 ePg   51 23.00    0.0
                 iSg   51 32.00
RIY     1.98  68 e(Pn) 51 38.90   -0.2
                 iSn   52 01.90
```

```
VOY      2.04  46 ePn   51 40.50    0.3
                  eSn   52 08.20
CEY      2.17  58 e(Pn) 51 49.50    7.5X
                  eSg   52 20.50
LJU      2.40  53 ePg   51 53.50    8.3X
                  eSn   52 14.60
VBY      2.61  69 ePn   51 57.50    9.3X
BRG      6.42  12 e(P)  52 42.00   -0.1
                  e     56 14.00
     S.D. = 0.4  on   4 of   7 obs.
-----------------------------------
   OCT  15, 1993  23h 52m 24.09± 1.06s
   44.111 N ± 9.2km   12.285 E ± 6.4km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                    (545)
      MD 3.4 (FIR).

FIR      0.81 246 ePg   52 40.00    0.2
                  iSg   52 52.00
RIY      1.94  50 iPn   52 57.40    0.0
                  iSn   53 22.80
CEY      2.23  42 ePn   53 02.50    0.9
                  eSg   53 38.50
VOY      2.23  30 ePn   53 01.00   -0.8
                  eSn   53 27.10
                  eSg   53 38.00
LJU      2.50  39 ePg   53 13.50    8.0X
                  eSn   53 36.00
                  eSg   53 47.50
VBY      2.53  56 ePn   53 13.50    7.6X
OGA      2.90 343 eP    53 11.40    0.1
SCE      2.96 352 ePn   53 12.30    0.2
OSS      2.99 330 P     53 13.10    0.6
KBA      3.06  14 iPnd  53 13.70    0.2
       0.6s    32.70nm
                  iPg   53 22.70
                  i     53 30.50
                  i     53 42.40
                  i     54 07.10
VDL      3.10 321 eP    53 13.80   -0.3
ZAG      3.13  56 ePn   53 26.00   11.6X
TMA      3.13 311 eP    53 13.60   -1.0
PTJ      3.16  54 iPn   53 25.30   10.4X
                  iSn   54 11.50
WTTA     3.19 352 iPnc  53 16.00    0.6
       0.5s    23.50nm
                  i     53 26.80
                  i     53 54.80
                  i     54 09.00
SQTA     3.20 347 iPnc  53 15.90    0.4
       0.7s    35.40nm
                  iPg   53 26.10
                  i     53 55.30
                  i     54 04.80
                  i     54 07.80
WATA     3.26 352 iPnd  53 17.00    0.6
                  iPg   53 27.40
                  i     53 56.30
                  i     54 04.30
MOTA     3.34 346 iPnc  53 17.90    0.4
       0.6s    16.60nm
                  i     53 26.90
                  i     53 57.50
                  i     54 07.50
LLS      3.60 321 eP    53 21.10   -0.1
GEC2     4.84  11 Pn    53 36.80   -1.9
                  Pg    54 14.70
                  Sg    54 34.40
KHC      5.10  10 ePn   53 17.00  -25.4X
                  ePg   53 40.40
                  eSn   54 36.60
                  eSg   55 10.00
PRU      6.08  14 eP    54 09.50   13.4X
                  e     55 07.80
                  eSg   55 48.20
MOX      6.55 356 eP    54 29.60   26.7X
       1.1s     8.00nm
     S.D. = 0.8  on  16 of  23 obs.
-----------------------------------
   OCT  16, 1993  00h 41m 00.00± 0.26s
   24.201 S ± 5.0km   67.358 W ± 5.9km
   DEPTH = 161.5km  ( 20 depth phases)
   5.1mb ( 32 obs.)
 CHILE-ARGENTINA BORDER REGION    (127)

SLA      1.78 108 iPc   41 36.90    3.0
FSA      2.24 147 iPc   41 41.20    2.3
```

```
YJA      2.65  41 iPc   41 46.70    2.3
RTPR     6.12 173 iPd   42 28.00   -1.3
                  S     43 34.00
CCH      6.88  10 P     42 38.80   -1.0
RTLL     7.17 188 iPc   42 40.50   -2.9
                  S     43 56.00
RTCB     7.37 190 iPc   42 43.00   -3.1X
                  (S)   43 03.00
CNCB     7.37 355 iPc   42 46.90    0.2
ZON      7.41 189 eP    42 42.50   -4.1X
CFA      7.42 186 ePd   42 44.10   -2.6
                  S     44 04.00
LPB      7.66 355 P     42 50.50    0.1
       0.9s   420.17nm          5.9mb
                  LR    54 16.00
LPAZ     7.91 355 P     42 52.90   -0.9
                  LR    55 38.00
MRA      8.31 170 e(P)d 42 55.30   -3.1X
                  S     44 23.00
ARE      8.62 333 eP    42 58.00   -5.0X
                  iS    44 30.50
MDZ      8.75 188 eP    43 35.10   30.7X
                  e     43 59.10
                  e     44 39.90
                  eS    45 13.50
IHA      9.56 202 e(P)  43 07.00   -8.0X
RFA     10.58 185 ePd   43 24.50   -3.9X
                  (S)   45 38.00
PPD     14.92  85 eP    44 23.20   -0.9
                  e     44 24.70
NNA     15.12 322 eP    44 28.00    1.4
                  e(S)  47 13.00
RSTA    16.70  95 eP    44 46.70    0.7
                  e     44 48.00
CACB    19.16  87 iPc   45 12.70   -0.8
                  e     45 16.70   15kmX
                  e     45 19.00
                  eS    48 39.80
BDFB    20.06  68 ePc   45 21.85   -0.9
       1.1s  1007.20nm          6.2mb X
BAO     20.09  68 iPd   45 21.20   -1.8
                  e     45 34.50   62kmX
                  e     45 38.70
                  e     46 56.30
                  e     47 24.60
CDCB    21.32  84 iPc   45 35.10   -0.2
                  e     45 41.10   22kmX
                  e     45 42.30
                  e     46 13.70
                  eS    49 22.50
SOB1    29.32  64 eP    46 47.50   -2.2
                  e     46 49.00    5kmX
SDV     33.04 354 eP    47 20.00   -2.3
TOV     33.86 356 eP    47 27.20   -2.0
SGS     58.43 347 eP    50 40.59   -0.3
SNA     59.06 159 iPd   50 44.10   -0.7
       0.8s   123.88nm          5.8mb
CEH     60.79 349 ePd   50 56.26   -0.7
       0.7s    15.66nm          5.0mb
OXF     62.03 339 iPd   51 03.46   -1.8
                  e     51 25.10
                  epP   51 41.92 163km
PWLA    62.05 341 eP    51 03.15   -2.2
NAV     62.48 348 iPc   51 07.62   -0.6
CVL     62.73 350 eP    51 09.60   -0.2
UYO     63.50 335 iPc   51 14.00   -1.0
MIAR    63.51 336 ePd   51 13.57   -1.4
       0.4s     7.23nm          4.9mb
                  e     51 37.18
                  epP   51 51.65 160km
LTX     63.65 325 eP    51 14.76   -1.4
NVL     63.81 159 iPd   51 17.00    0.4
       1.0s   180.00nm          5.9mb
                  epP   51 34.00   63kmX
                  ePcP  51 57.00
                  ePP   53 40.00
                  ePPP  55 19.00
                  ePcS  56 09.00
                  e     58 14.00
                  eS    59 47.00
ELC     64.53 341 eP    51 19.80   -1.8
KDS     65.08  62 iP    51 29.50    4.0X
GPD     65.22 354 iPc   51 25.58   -0.3
FVM     65.54 340 eP    51 26.41   -1.6
       0.6s    39.54nm          5.5mb
                  epP   52 05.29 163km
MEO     65.72 332 iPc   51 27.20   -2.1
```

```
LSCT    65.77 355 iPc   51 29.41    0.0
       0.8s    64.60nm          5.6mb
                  epP   52 08.13 162km
SPA     65.95 180 iPd   51 28.20   -2.4
       1.0s   265.00nm          6.1mb
BINY    66.54 353 eP    51 34.39    0.0
       1.1s    46.17nm          5.2mb
                  epP   52 13.15 162km
YSNY    67.14 351 iPc   51 37.86   -0.3
       0.7s    45.02nm          5.4mb
                  epP   52 16.97 163km
LIC     67.81  72 P     51 42.79   -0.1
       0.6s     5.50nm          4.5mb
TIC     68.02  72 P     51 42.89   -1.3
       0.5s    15.50nm          5.1mb
KIC     68.13  72 P     51 44.05   -0.8
       0.7s    18.50nm          5.0mb
RSNY    68.73 355 iPc   51 49.77    1.9
       0.8s    19.93nm          5.0mb
                  epP   52 28.96 163km
LKO     68.97  69 P     51 49.88   -0.1
       0.9s    28.00nm          5.1mb
ALQ     69.53 326 iPd   51 53.33    0.1
       0.8s    18.23nm          4.9mb
                  epP   52 31.40 158km
                  esP   52 48.02
LMN     69.75   2 eP    51 53.50   -0.6
TUC     69.83 322 eP    51 56.24    1.2
       1.1s    14.30nm          4.7mb
                  epP   52 34.81 160km
PV08    73.46 327 ePd   52 17.15    0.4
PV09    73.64 327 eP    52 18.18    0.4
PEC     74.69 319 eP    52 24.07    0.5
       0.8s    16.88nm          4.8mb
SRU     74.81 327 iPd   52 24.63    0.3
                  epP   53 03.41 158km
MSU     75.20 325 iPd   52 27.31    0.7
                  epP   53 06.24 159km
ARUT    75.34 324 eP    52 28.70    1.4
                  epP   53 07.37 157km
GSC     75.46 320 eP    52 28.72    0.8
EMUT    75.49 327 eP    52 28.76    0.5
RSSD    75.84 334 ePc   52 30.28    0.2
       0.5s     7.29nm          4.7mb
                  epP   53 10.81 165km
SUR     76.00 119 iPc   52 33.50    2.1
       0.5s    67.00nm          5.6mb
DAU     76.16 327 eP    52 32.55    0.5
TPNV    76.29 322 eP    52 33.70    1.0
       0.5s     3.58nm          4.4mb
ISA     76.69 319 eP    52 35.54    0.7
       1.2s    27.58nm          4.9mb
                  epP   53 14.73 159km
DUG     76.79 326 ePd   52 35.41    0.1
       0.8s    23.15nm          5.0mb
                  epP   53 15.99 165km
BCH     77.34 318 ePd   52 39.34    0.9
                  epP   53 18.49 159km
TNP     77.63 322 eP    52 40.90    0.8
       0.7s     4.95nm          4.3mb
HVU     77.95 327 eP    52 41.93    0.2
JAQ     78.01 355 ePc   52 45.50    4.0X
BONR    78.16 321 eP    52 44.02    0.9
ULM     78.31 342 eP    52 45.50    2.2
TIO     79.47  49 iP    52 51.00    0.8
ARN     79.65 319 eP    52 51.89    1.0
COE     79.67 319 eP    52 51.97    1.0
GRM     80.19 122 eP    52 55.00    1.0
       0.5s    61.00nm          5.6mb
LRM     80.83 330 eP    52 57.50    0.3
                  e     53 39.50 170km
NTYM    81.00 319 eP    52 58.44    0.6
BOSA    81.06 117 eP    52 58.47    0.0
       1.0s    20.74nm          4.8mb
ORV     81.08 321 ePd   52 59.09    0.8
                  epP   53 39.01 161km
MAW     81.34 163 P     53 00.30    1.1
       1.0s    75.00nm          5.4mb
BLF     81.50 118 iPd   53 01.70    0.7
       1.2s    80.00nm          5.3mb
LBFM    82.49 322 iPd   53 06.03    0.2
                  epP   53 46.32 162km
SEK     82.97 118 eP    53 15.00    6.4X
       0.8s    20.00nm          5.0mb
SLR     84.54 116 e(P)  53 16.70    0.1
       0.8s    33.00nm          5.2mb
DPW     85.02 328 ePd   53 18.62    0.4
```

16d 00h

```
                 epP   53 59.24 162km
FCC    85.58 346 eP    53 20.00  -0.6
BFT    86.01 116 eP    53 33.00   9.0X
RMW    86.51 326 eP    53 24.96  -0.6
BMW    86.59 325 ePd   53 26.35   0.4
BUL    87.12 111 iPd   53 31.10   1.8
CSY    89.78 179 iPc   53 44.60   3.8X
       0.8s  113.50nm          5.9mb
YKA    94.20 340 eP    54 00.50  -0.5
       0.6s    4.60nm          4.9mb
WR2   131.28 208 iPKPc 59 54.70  -0.4
       0.5s   17.20nm
WRA   131.30 208 PKP   59 43.80 -11.3X
       0.6s    0.60nm
GBA   145.16 101 PKPd  00 20.00  -0.4
HYB   147.49  95 ePKP  00 28.00   3.8X
       1.0s   50.00nm
GUA   147.75 257 ePKP  00 26.50   1.8
GUMO  147.81 257 ePKP  00 27.10   2.3
       1.2s  165.50nm
NDI   148.04  74 ePKP  00 26.00   1.2
     S.D. = 1.3  on  89 of 103 obs.
-----------------------------------
% OCT  16, 1993  01h 18m 32.04± 0.99s
  31.078 S ±15.9km   68.354 W ±11.1km
  DEPTH = 100.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA    (137)

RTLL    0.27 202 iPd   18 47.00   0.0
                 S     18 57.50
CFA     0.54 170 iPc   18 48.50   0.1
                 S     19 00.50
ZON     0.54 211 iPd   18 48.60   0.2
                 eS    19 00.60
RTCB    0.56 223 iPd   18 48.50  -0.1
                 S     19 00.00
RTCV    0.80 191 iPd   18 50.50  -0.2
                 S     19 04.00
RTPR    1.77  64 eP    19 02.00   0.0
                 S     19 25.50
MRA     2.62 121 ePc   19 13.30   0.0
                 S     19 44.40
     S.D. = 0.1  on   7 of   7 obs.
-----------------------------------
  OCT  16, 1993  02h 24m 20.56± 0.48s
   8.971 N ± 6.9km  126.724 E ±10.3km
  DEPTH =  37.3km  (  2 depth phases)
  4.9mb ( 12 obs.)
 MINDANAO, PHILIPPINE ISLANDS    (259)

BIP     0.88 212 iPd   24 37.50   1.0
DAV     2.19 211 iPc   24 58.10   2.8
                 iS    25 30.50
PLP     2.78 322 ePc   25 03.50  -0.2
                 eS    25 21.30
MAP     3.02 297 iPd   25 09.00   1.8
                 eS    25 41.00
GQP     6.45 320 ePc   25 57.00   1.4
                 eS    26 32.50
QCP     7.89 316 eP    26 18.00   2.2
BAG     9.52 322 eP    26 36.60  -1.9
                 e     28 43.60
CVP     9.90 332 eP    26 34.00  -9.6X
WWKK   20.98 126 eP    29 05.60   2.3
MTN    22.11 169 eP    29 14.50   0.0
SSE    22.61 348 P     29 19.00  -0.3
       0.8s   12.00nm          4.4mb
     Z  20s    0.50um          3.9Msz
                 sP    29 32.50
                 PP    29 50.00
                 S     33 24.00
                 sS    33 40.00
KNA    24.64 175 eP    29 39.00  -0.2
IPM    25.88 262 ePd   29 50.40  -0.6
       1.0s   42.90nm          5.0mb
WRA    29.70 165 P     30 23.50  -2.0
       0.4s    6.00nm          4.7mb
WR2    29.71 165 eP    30 22.90  -2.7
       0.5s    7.70nm          4.7mb
                 epP   30 33.40  38km
                 eS    34 52.60
BJI    32.34 345 eP    30 58.00   9.5X
MRWA   39.35 195 iPd   31 47.90  -0.3
FORT   39.54 178 eP    31 49.20  -0.6
       0.5s   12.00nm          4.9mb
COOL   39.99 187 iPc   31 52.10  -1.4
BAL    40.51 193 eP    31 57.00  -0.8
KLB    41.24 192 iPd   32 03.10  -0.6
       0.4s    9.00nm          4.9mb
STK    43.04 161 iPc   32 17.70  -0.8
       0.4s    7.10nm          4.8mb
HYB    47.54 285 eP    32 53.00  -1.7
       1.0s   30.00nm          5.3mb
BWA    47.81 156 eP    32 57.80   1.3
GBA    48.49 280 P     33 01.40  -0.7
       0.6s   10.00nm          5.0mb
CAN    48.82 156 eP    33 05.30   1.0
TOO    49.52 160 iPd   33 10.00   0.3
       0.5s    7.00nm          4.9mb
MAIO   66.41 306 eP    35 07.00  -1.5
CSY    76.00 187 iPd   36 06.90   1.7
       0.5s   24.50nm          5.4mb
SLKM   78.83  30 eP    36 21.75   0.6
                 e     36 33.05  37km
FBA    80.02  26 (P)   36 28.40   0.9
INK    85.32  22 eP    36 56.00   1.3
KAF    86.98 332 eP    37 01.00  -2.0
NUR    88.14 331 eP    37 06.00  -2.6
YKA    94.75  24 eP    37 39.50   0.2
       0.7s    4.10nm          5.0mb
CNCB  163.69 120 PKP   44 24.00   1.9
LPB   163.71 119 PKP   44 27.00   5.0X
LPAZ  163.79 118 ePKP  44 30.00   7.7X
     S.D. = 1.5  on  34 of  38 obs.
-----------------------------------
   OCT  16, 1993  03h 05m 30.30± 0.09s
    5.898 S ± 2.2km  146.202 E ± 2.5km
   DEPTH =  27.1km  (geophysicist)
   6.2mb (103 obs.)  6.4Msz ( 56 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      Mw 6.3 (GS), 6.3 (HRV). Ms 6.5
      (BRK). ML 6.5 (PMG).
      Mo=4.7*10**18 Nm (PPT). Three
      people killed and additional
      damage in the Upper Markham
      Valley. Depth from broadband
      displacement seismograms.
      FAULT PLANE SOLUTION: P-Waves
       NP1:Strike=110 Dip=50 Slip=  90
       NP2:       290     40       90
       Principal Axes:
        T                Plg=85  Azm= 20
        P                     5      200
      Comment: The focal mechanism is
        poorly controlled and
        corresponds to reverse
        faulting. The preferred fault
        plane is NP1.
      RADIATED ENERGY
       No. of sta:   8  Focal mech.  F
       Energy        4.7±1.2*10**13 Nm
      MOMENT TENSOR SOLUTION
      Dep  33            No. of sta:  5
      Moment Tensor;   Scale 10**18 Nm
        Mrr= 3.14       Mtt=-2.80
        Mff=-0.35       Mrt=-0.77
        Mrf=-0.08       Mtf= 0.73
       Principal axes:
        T  Val=  3.25  Plg=82  Azm=159
        N       -0.17       5      284
        P       -3.08       7       15
      Best Double Couple:Mo=3.2*10**18
       NP1:Strike=110 Dip=39 Slip=  97
       NP2:       281     52       84
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 55S, **C  M.W.: 34S, 60C
      Centroid Location:
      Origin Time       03:05:35.9 0.1
      Lat  5.97S 0.01 Lon 146.13E 0.01
      Dep  32.9 BDY Half-duration  3.9
      Moment Tensor;   Scale 10**18 Nm
        Mrr= 2.41 0.03  Mtt=-2.76 0.02
        Mff= 0.34 0.03  Mrt= 0.10 0.07
        Mrf=-1.08 0.07  Mtf= 0.97 0.02
       Principal Axes:
        T  Val=  2.89  Plg=66  Azm= 98
        N       0.17       24      289
        P      -3.06        4      197
      Best Double Couple:Mo=3.0*10**18
       NP1:Strike=264 Dip=46 Slip=  56
       NP2:       128     54      120

YYYY    0.41 214 eP    05 38.20  -1.1
MDG     0.77 327 eP    05 46.40   1.4
MNDI    2.54 264 eP    06 15.00   4.1X
WWKK    3.42 311 eP    06 28.70   5.5X
PMG     3.61 165 iPd   06 25.00  -0.8
                 eS    07 27.00
KVG     5.65  55 eP    06 56.00   1.3
RAB     6.17  74 iPc+  07 02.50   0.4
       0.3s  3428.57nm         7.6mb X
CTA    14.11 180 iPd   08 56.00   5.4X
       2.0s   764.71nm          6.0mb
                 i(pP) 09 00.00
                 e(sP) 09 08.00
                 iS    11 30.00
                 i     11 34.00
CTAO   14.11 180 ePd   08 52.25   1.7
MTN    16.39 244 iPc   09 19.20  -1.0
       0.7s   754.00nm          5.9mb
WB5    18.04 219 iPd   09 42.00   1.1
WR2    18.10 218 eP    09 40.70  -0.9
       1.2s   249.40nm          5.2mb X
                 epP   09 55.10
                 eS    13 10.30
GUA    19.35 356 e(P)  09 58.70   1.8
       1.8s  *******nm          6.9mb
GUMO   19.41 356 eP    09 54.00  -3.5X
       1.6s  2493.20nm          6.2mb
                 i     09 59.00
                 eS    13 39.10
GUMO   19.41 356 eP    09 58.15   0.7
       1.5s  4192.84nm          6.5mb
KNA    19.71 239 iPc   10 00.00  -0.8
ASPA   21.27 213 iPc   10 15.30  -1.6
       1.2s  1005.80nm          6.1mb
     Z  18s   149.50um          6.4Msz
                 eS    14 12.30
                 eScS  21 40.50
DAV    24.29 302 eP-   10 46.00  -0.7
                 eS    15 08.50
BKM    24.51 120 iPc   10 49.50   0.7
PVC    24.60 120 iPc   10 50.50   0.8
ARMA   24.92 169 eP    10 52.10  -0.7
       1.1s   235.00nm          5.7mb
                 iScP  18 11.30
DZM    25.33 131 iPc   10 55.30  -1.4
                 ScP   22 03.00
CTB    25.52 300 ePd   11 03.00   4.5X
STK    26.21 189 eP    11 03.40  -1.3
       0.8s    53.10nm          5.2mb X
                 iS    15 35.40
                 iScP  18 13.00
PLP    27.08 309 ePc   11 11.80  -1.1
MAP    27.38 306 ePd   11 04.00 -11.6X
RIV    28.17 171 eP+   11 28.20   5.7X
                 ePP   12 21.00
                 iS    16 07.00
BWA    28.46 176 iPc   11 24.70  -0.5
                 i     11 27.90
                 i     11 30.80
                 eScP  18 21.00
CAN    29.39 175 iPc   11 32.90  -0.7
                 e     11 40.90
                 iScP  18 24.10
CNB    29.42 175 iPd   11 33.30  -0.6
       0.8s    82.00nm          5.5mb
ADE    29.74 192 iPd-  11 37.20   0.4
TSM    30.05 289 ePc   11 40.70   1.1
       0.8s   469.70nm          6.4mb
FORT   30.05 212 eP    11 40.50   1.0
       0.5s    31.00nm          5.4mb
GQP    30.71 310 ePc   11 46.00   0.6
TOO    31.53 181 iPc   11 52.30  -0.2
       0.8s   162.00nm          6.0mb
                 iScP  18 31.00
                 i     21 43.30
PGP    31.62 308 eP    11 52.00  -1.5
TGY    31.99 309 ePd   11 56.50  -0.3
KKM    32.20 291 ePd   12 03.20   4.5X
       1.7s  1195.10nm          6.5mb
QVP    32.25 309 ePc   11 59.20   0.3
MEEK   33.42 229 eP    12 09.80   0.7
       0.5s    69.00nm          5.8mb
CVP    33.61 315 ePc   12 12.00   1.2
BAG    33.67 312 ePc+  12 08.40  -3.2X
       2.3s   454.55nm          6.0mb
                 e     13 35.20
                 eS    17 32.00
VUN    33.71 114 eP    12 10.80  -0.9
```

```
COOL   34.22 220 eP    12 15.10  -0.9
MRWA   36.77 227 eP    12 37.60   0.0
KLB    36.90 223 eP    12 37.50  -1.2
BAL    37.04 225 eP    12 40.00   0.1
LEM    38.35 266 ePd   12 52.50   1.2
       2.5s  2555.56nm          6.6mb
                eS     18 44.00
                eLR    19 42.00
OUZ    38.58 143 P     12 53.50   0.8
TATO   38.99 323 iPc   12 56.71   0.5
       1.0s  1536.16nm          6.7mb
                e      13 07.72
                e(S)   19 00.00
QZH    40.76 320 iPc   13 12.00   1.1
       1.8s   860.00nm          6.2mb
     Z 26s     43.70um          6.2MszX
     N 20s     27.90um
                pP     13 23.00  39kmX
                S      19 22.00
KUZ    40.88 143 P     13 11.50  -0.2
MOZ    41.54 145 P     13 18.50   1.4
WLZ    41.55 144 Pd    13 18.40   1.1
QRZ    42.01 150 Pc    13 22.20   1.3
HKC    42.06 313 iP    13 24.20   2.6
                S      19 42.00
AFI    42.10 104 iPc   13 18.00  -4.1X
                e(S)   19 00.00
AFI    42.10 104 iPc   13 22.73   0.6
                esPd   13 32.82
SHK    42.19 343 ePc   13 22.50   0.0
WIZ    42.27 143 P     13 24.70   1.5
PATZ   42.28 144 P     13 24.40   1.0
TAZ    42.33 144 P     13 25.70   2.1
CNZ    42.44 146 P     13 26.20   1.6
NGZ    42.45 146 Pc    13 26.50   1.7
DRZ    42.50 146 eP    13 27.70   2.3
DIW    42.70 149 P     13 27.40   0.8
URZ    42.70 143 P     13 26.80   0.1
LMZ    42.79 155 P     13 26.90  -0.3
MAJO   42.88 351 iPc   13 27.45  -0.7
                esPd   13 38.54
THZ    42.90 150 P     13 27.80  -0.5
WVZ    42.90 153 P     13 28.50   0.3
HBZ    43.00 142 P     13 28.80  -0.3
MSZ    43.04 157 P     13 29.20  -0.1
GZH    43.14 313 iPc   13 32.00   1.6
       1.0s   120.00nm          5.6mb
     Z 26s     21.90um          5.9MszX
     N 21s     20.60um
                S      19 58.00
TCW    43.18 149 P     13 30.70   0.2
KIW    43.26 148 P     13 30.90  -0.3
PUZ    43.27 142 Pc    13 31.50   0.1
LTZ    43.37 152 P     13 30.50  -1.6
                e      15 25.20
MNG    43.39 147 Pc    13 32.40   0.1
MRW    43.42 148 P     13 32.10  -0.3
SNZO   43.47 148 ePc   13 32.59  -0.3
                epPd   13 40.46  26kmX
                esPd   13 44.43
                e(PP)  15 19.00
                S      19 54.00
                e      20 56.00
NOZ    43.49 143 Pc    13 33.30   0.2
CAW    43.52 148 P     13 33.00  -0.3
KGM    43.54 279 ePc   13 35.20   1.4
       1.8s  2787.50nm          6.7mb
CCW    43.54 149 P     13 33.10  -0.4
QIZ    43.55 306 ePc   13 34.75   0.9
BWZ    43.70 155 P     13 33.30  -1.4
MTW    43.78 148 P     13 35.00  -0.4
PGZ    43.82 147 P     13 35.40  -0.3
SSE    43.88 328 iPc   13 36.51   0.3
       2.0s   550.00nm          6.0mb
     Z 20s     28.40um          6.2Msz
     N 16s      6.50um
     E 15s      5.80um
                esPd   13 48.18
                PP     15 20.00
                iS     20 04.00
                sS     20 32.00
BLW    43.92 148 Pc    13 36.00  -0.5
MQZ    44.26 152 P     13 38.50  -0.7
ODZ    44.44 155 P     13 40.80   0.1
TUZ    44.77 157 P     13 43.00  -0.3
NJ2    45.86 327 Pc    13 52.60   0.5
       2.0s   420.00nm          6.0mb
     Z 22s     19.50um          6.0Msz
     N 16s     11.70um
     E 16s      6.22um
                S      20 36.00
IPM    46.30 282 ePc   13 56.50   0.6
       1.9s  2524.50nm          6.9mb
WHN    47.36 322 Pd    14 06.20   2.2
       1.5s   530.00nm          6.3mb
     N 18s     16.80um
     E 18s      9.52um
                pP     14 17.50  40kmX
                iS     21 00.00
ERM    47.76 357 ePc   14 07.52   0.5
                esPd   14 18.62
MCQ    49.54 170 eP    14 21.30   0.7
TIA    49.98 329 Pc    14 23.40  -0.8
       1.3s   360.00nm          6.2mb
     Z 24s     39.00um          6.3MszX
     N 14s      8.43um
                S      21 31.50
GYA    50.02 312 iPc   14 25.80   0.9
       1.8s   840.00nm          6.5mb
     Z 26s     19.30um          6.0MszX
     N 17s      6.27um
     E 17s      6.60um
                pP     14 36.00  34kmX
                S      21 37.00
                SS     25 08.00
DL2    50.06 335 iPc   14 24.00  -0.8
       1.0s   270.00nm          6.2mb
     Z 24s     17.70um          6.0MszX
     N 16s     11.50um
     E 16s     17.10um
                S      21 29.00
ENH    50.31 318 iPc   14 26.87   0.1
                esPd   14 39.04
VLA    50.49 346 iPd   14 29.00   1.1
       2.0s   483.00nm          6.1mb
     N 16s      7.40um
     E 13s      5.50um
                ipP    14 43.00  52kmX
                i      15 45.00
                i      16 31.00
                iPPP   17 23.00
                iS     21 42.00
                iPS    21 57.00
KUR    50.92   2 iPc   14 32.00   0.8
       1.0s   750.00nm          6.6mb
                iS     21 50.00
SNY    51.80 339 Pc    14 37.40  -0.5
     Z 27s     44.70um          6.4MszX
     N 17s     15.80um
     E 20s     23.30um
                iS     21 59.00
                SS     25 29.00
KMI    52.31 308 iPc   14 43.44   1.1
       2.0s   740.00nm          6.3mb
     Z 25s     50.50um          6.5MszX
     N 23s     19.30um
     E 23s     25.20um
                ec     14 49.07
                epPd   14 51.55  27kmX
                esPd   14 56.11
                iS     22 08.00
                sS     22 30.00
MDJ    52.46 345 iPc   14 42.37  -0.5
       2.5s  2980.00nm          6.8mb
     N 16s     10.80um
                esPd   14 53.70
                S      22 07.00
CHTO   52.64 299 iPc   14 45.25   0.5
YSS    52.77 357 iPc+  14 44.40  -0.7
       1.0s   210.00nm          6.0mb
     Z 17s     12.90um          6.0MszX
     N 17s      7.60um
     E 17s      2.30um
                esP    14 54.00
                e      15 53.00
                e      16 40.00
                ePPP   17 52.00
                iS     22 11.00
                esS    22 24.00
                ePS    22 26.00
                e      24 25.00
                eSS    25 52.00
CN2    52.90 341 Pd    14 45.20  -1.0
       1.6s   360.00nm          6.1mb
     Z 18s     16.60um          6.1Msz
     N 18s     16.60um
     E 18s      3.92um
                esP    15 09.00
                eS     22 12.00
XAN    53.10 321 Pc    14 47.50  -0.4
       2.5s  4440.00nm          7.0mb
     Z 25s     32.90um          6.3MszX
     N 16s     12.90um
     E 18s     12.10um
                pP     14 59.00  40kmX
                PcP    15 56.00
                S      22 16.00
BJI    53.43 331 iPc   14 49.33  -0.8
       2.0s   640.00nm          6.3mb
     Z 24s     22.30um          6.1MszX
     E 19s     22.80um
                esPd   15 01.50
                ePP    16 50.00
                eSS    26 06.00
TIY    53.58 327 iPc   14 51.00  -0.4
       2.0s   330.00nm          6.0mb
     Z 24s     45.90um          6.5MszX
     N 21s     22.30um
                pP     15 04.00  47kmX
                S      22 22.00
RAR    54.41 112 P     14 47.00 -10.7X
                S      22 48.00
RAR    54.41 112 ePc   14 57.62   0.0
       1.1s   379.56nm          6.3mb
                epPc   15 05.24  25kmX
                S      22 48.00
CD2    54.64 315 iPc   14 59.00  -0.3
       0.6s   260.00nm          6.4mb
     Z 20s     39.80um          6.5Msz
     E 20s     38.60um
                ipP    15 11.80  46kmX
                S      22 37.60
                isS    23 06.00
HHC    56.33 329 iPd   15 11.00  -0.4
       1.2s   180.00nm          6.0mb
     Z 26s     31.10um          6.3MszX
     N 18s      8.16um
     E 18s      9.27um
BTO    56.96 328 iPd   15 14.50  -1.4
       1.0s    68.00nm          5.6mb
     N 22s     11.50um
     E 25s     46.30um
                PP     17 26.00
                S      23 09.00
                SS     27 02.00
SKR    56.98   7 eP    15 14.00  -1.8
                eS     23 12.00
LZH    57.62 320 iPc   15 20.85   0.2
       1.8s   820.00nm          6.5mb
     Z 24s     31.60um          6.3MszX
     E 19s     12.20um
                epPd   15 29.45  28kmX
                sP     15 34.00
                PP     17 30.00
                PcS    20 09.00
                eS     23 12.00
                sS     23 30.00
                ScS    25 05.00
                SS     27 02.00
HIA    59.59 340 iPc   15 33.52  -0.5
                esPd   15 44.61
PET    59.63   9 iP+   15 35.00   0.8
                e      15 48.00
                eS     23 48.00
                eSS    27 44.00
DRV    60.82 183 iP    15 42.50   0.4
                PP     18 06.00
                S      24 00.00
HON    61.02  62 P     16 00.00  15.8X
     Z 20s     25.02um          6.4Msz
HON    61.02  62 P     15 49.43   5.2X
     Z 20s     25.02um          6.4Msz
                ScP    20 33.42
                S      24 47.08
                SS     28 47.33
OPA    61.14  61 eP    15 44.90  -0.1
DHH    61.18  62 eP    15 45.57   0.3
GTA    62.16 321 iPc   15 51.50  -0.3
       2.5s  1120.00nm          6.6mb
     Z 22s     23.40um          6.3Msz
     E 19s      9.54um
```

16d 03h

```
                sP    16 17.00
                PP    18 11.20
                S     24 17.00
HKL    62.36  63 eP    15 54.42   0.7
MHA    62.51  64 eP    15 54.34   0.1
SMY    63.02  19 eP    15 57.88   0.8
       0.9s   209.66nm          6.3mb
AFR    63.49 107 iPd   16 00.80   0.0
       1.3s  1230.40nm          6.9mb
LSA    63.55 307 P     15 58.30  -3.3X
       1.2s   220.00nm          6.2mb
     Z 25s     26.50um          6.3MszX
     N 22s     10.70um
     E 20s      9.87um
                sP    16 19.00
                S     24 32.00
                ScS   25 50.00
LSA    63.55 307 iPc   16 02.17   0.6
       1.2s   220.00nm          6.2mb
     Z 25s     26.50um          6.3MszX
     N 22s     10.70um
     E 20s      9.87um
                sP    16 19.00
                S     24 32.00
                ScS   25 50.00
PAE    63.68 107 iPd   16 01.90  -0.1
       2.0s  3386.60nm          7.1mb
PPT    63.68 107 iPd   16 02.10   0.0
       1.1s   918.20nm          6.8mb
PPN    63.82 107 iPd   16 03.00   0.1
       1.3s  1328.60nm          6.9mb
TVO    64.00 107 iPd   16 04.00  -0.2
       1.6s  4696.50nm          7.4mb X
CIT    64.03 338 eP    16 04.00   0.2
                eS    24 41.00
CSY    65.16 195 eP    16 11.70   0.9
       0.7s   150.10nm          6.2mb
PMO    65.24 104 iPd   16 12.20   0.0
       1.6s  5094.50nm          7.4mb X
VAH    65.50 104 iPd   16 13.70  -0.2
       2.0s  4291.60nm          7.2mb
TPT    65.51 104 iPd   16 13.90   0.0
       1.8s  4833.70nm          7.3mb X
ADK    65.69  24 ePc   16 14.74   0.3
       1.4s   250.06nm          6.1mb
                ePd   16 25.58
RUV    65.74 104 iPd   16 15.30  -0.1
       1.6s  2815.90nm          7.1mb
GUN    67.15 303 P     16 25.00   0.3
ZAK    67.17 332 iPc   16 23.70  -0.2
                eS    25 19.00
PKI    67.42 303 P     16 26.00  -0.4
KKN    67.61 303 P     16 27.70   0.3
DMN    67.69 303 P     16 28.20   0.2
IRK    68.01 334 ePc   16 28.00  -1.2
       3.0s  1049.00nm          6.4mb
                e     16 42.00
                e     17 02.00
                eS    25 23.00
                e     26 04.00
                e     29 56.00
GKN    68.21 303 P     16 31.20   0.0
YAK    68.90 352 iPc+  16 33.30  -1.2
       1.0s   705.00nm          6.7mb
                i     16 53.00
                i     26 07.00
HYB    70.68 291 iPc   16 46.20  -0.1
       1.1s   270.00nm          6.3mb
                eS    25 56.00
                eP'P' 44 42.50
GBA    70.95 286 Pc    16 49.00   1.2
WMQ    72.20 320 iPc   16 54.93  -0.1
       2.0s   220.00nm          5.8mb
     Z 32s      8.16um          5.8MszX
     E 17s      7.72um
                esP   17 06.35
                PcP   17 13.00
                S     26 18.00
                SS    30 51.00
UER    72.45 329 iPc   16 54.50  -1.7
       2.0s   450.00nm          6.1mb
     Z 19s     17.20um          6.3Msz
     N 17s      4.15um
     E 19s     15.00um
                e     17 14.00
                PPP   21 20.00
                eS    26 19.50
```

```
                e     26 54.00
SBA    72.72 176 iPc   16 58.60   1.2
                S     26 50.00
NDI    74.65 302 iPc   17 10.00   0.5
       0.8s   126.87nm          6.0mb
SDN    75.18  28 iPc   17 11.44  -0.5
       1.0s   385.42nm          6.4mb
     Z 19s      2.33um          5.5Msz
POO    75.29 291 iPc   17 14.40   1.0
       1.4s   553.49nm          6.4mb
PAF    76.42 221 iPc   17 25.00   5.8X
                eS    27 07.00
                eSS   31 35.00
ILT    77.67  13 iPc   17 25.60  -0.1
       1.8s   444.00nm          6.2mb
     Z 16s      2.80um          5.7MszX
     N 20s      6.30um
     E 20s      4.10um
                i     17 34.20
                i     20 26.00
                iPPP  22 16.00
                iS    27 17.00
                i     27 36.00
TIK    78.22 354 iPc+  17 28.00  -0.6
       2.0s   350.00nm          6.0mb
                i     17 36.00
                i     17 42.00
                ePPP  22 12.00
                iS    27 19.00
                i     27 38.00
                ePS   28 18.00
KSH    78.70 312 iPc   17 33.50   1.4
       1.4s   350.00nm          6.2mb
     Z 22s     18.80um          6.4Msz
     N 20s     10.20um
     E 20s     16.70um
                PcP   17 42.00
                pP    17 44.00  34kmX
                sP    17 54.00
                PP    20 38.00
                iS    27 30.00
                ScS   27 46.00
ANM    78.87  19 eP    17 33.31   0.9
TLG    78.88 316 iPc   17 34.00   1.0
       1.9s   320.00nm          6.0mb
                i     17 44.00
                e     20 35.00
                iS    27 31.00
                ePPS  28 31.00
KDC    80.21  29 ePc   17 39.52  -0.1
       1.2s   123.48nm          5.8mb
SVW    80.47  25 iPc   17 41.75   0.6
       1.0s   367.50nm          6.4mb
AUP    80.55  27 ePc   17 41.89   0.3
FRU    80.68 315 iPc+  17 43.00   0.4
       2.2s   580.00nm          6.2mb
                i     17 56.60
                eS    27 48.00
TTA    81.27  23 iPc   17 45.49   0.2
       1.1s    83.21nm          5.7mb
CP2    81.97  25 ePc   17 48.03  -1.1
CRP    82.01  25 ePc   17 46.84  -2.5
MAW    82.04 203 iP+   17 49.00  -0.1
       1.0s   200.00nm          6.1mb
     Z 18s     18.33um          6.5Msz
SLKM   82.51  27 iPc   17 50.96  -0.8
PMR    83.46  26 eP    17 55.42  -1.1
       1.1s   198.74nm          6.2mb
     Z 20s     12.60um          6.3Msz
IMA    83.74  21 iPc   17 57.89  -0.2
       1.1s   141.61nm          6.1mb
SPA    84.14 180 iPc   17 57.70  -2.5
       0.9s   472.73nm          6.7mb
     Z 15s     42.67um          6.9MszX
NRI    84.80 342 iPc   18 02.00  -1.2
     Z 20s     62.00um          7.0Msz
     E 21s     49.00um
                i     18 12.00
                iS    28 21.00
KLU    84.83  27 iPc   18 03.37  -0.2
TOA    84.95  26 eP    18 04.20   0.1
COL    85.40  23 iPc   18 05.11  -1.1
FBA    85.40  23 iPc   18 04.95  -1.3
       1.0s   143.28nm          6.2mb
BALM   86.28  28 iPc   18 10.66  -0.2
SIT    88.68  32 eP    18 22.64   0.4
       2.1s   340.07nm          6.3mb
```

```
     Z 21s     10.23um          6.2Msz
CRZF   88.76 224 eP    18 25.00   2.0
                ePP   21 48.00
                iS    28 45.00
                iSP   30 25.00
                eSS   35 08.00
MAIO   90.80 306 eP    18 32.00  -0.8
INK    91.85  22 eP    18 36.50  -0.3
       1.0s    43.00nm          5.8mb
ASH    91.89 308 eP    18 37.00  -0.7
       2.5s   400.00nm          6.4mb
     Z 20s     13.26um          6.4Msz
     N 20s      8.49um
     E 20s      9.77um
                e     18 47.00
                e     22 26.50
                ePPP  24 14.00
                e     29 09.00
                S     29 31.00
                PS    30 55.00
                eSS   35 54.00
ABKT   92.07 308 iPc   18 37.96  -0.6
                epPd  18 46.57  27kmX
                esPd  18 51.04
SVE    92.46 327 ePc   18 38.00  -1.9
       2.2s   160.00nm          6.1mb
     Z 18s     13.00um          6.4Msz
     N 18s      1.00um
     E 18s     10.00um
                e     22 23.00
                eS    29 08.00
                e     31 07.00
KMPM   93.53  50 ePc   18 46.12   0.8
ARU    93.54 326 eP    18 42.00  -2.8
       2.0s   120.00nm          6.0mb
     Z 18s      8.50um          6.2Msz
     N 20s      1.50um
     E 18s      5.50um
                e     18 54.00
                e     29 14.00
                ePS   31 10.00
ARC    93.61  49 eP    18 44.29  -1.2
       1.9s   810.00nm          6.8mb
FHC    93.67  50 ePc   18 46.67   0.8
       1.2s   336.64nm          6.6mb
RNO    94.09  46 P     18 48.46   0.7
KMOR   94.39  45 P     18 49.80   0.7
STW    94.43  42 P     18 49.98   0.8
COR    94.45  46 ePc   18 50.43   1.2
                esPd  19 03.34
NTYM   94.51  52 eP    18 48.42  -1.3
BMW    94.62  44 eP    18 49.87  -0.3
YBH    94.69  49 eP    18 51.01   0.4
       1.2s   150.00nm          6.3mb
     Z 21s     18.00um          6.5Msz
                ePP   22 36.52
                eS    30 10.52
                eLQ   44 12.52
                eLR   49 15.52
WDC    94.75  50 ePc   18 51.19   0.4
       1.2s   130.09nm          6.2mb
                ec    18 54.59
                esPd  19 04.43
                PP    22 38.88
                SP    31 35.65
BKS    94.81  53 eP    18 49.89  -1.2
       1.2s   200.00nm          6.4mb
     Z 19s     14.00um          6.4Msz
                eS    29 53.09
                eSP   31 36.09
                eSS   36 42.09
                eLQ   45 04.09
                eLR   48 28.09
STAN   94.83  53 eP    18 51.30   0.1
       1.9s   560.00nm          6.7mb
GMW    94.99  43 ePc   18 51.93   0.2
MCW    95.02  42 ePc   18 52.51   0.6
SSOR   95.06  46 P     18 52.56   0.3
HMR    95.17  52 eP    18 55.08   2.3
COE    95.22  53 ePc   18 53.53   0.5
MHC    95.25  53 eP    18 53.69   0.4
       2.0s   540.00nm          6.6mb
LBFM   95.28  49 ePc   18 53.47  -0.1
SHW    95.29  44 eP    18 54.08   0.7
ARN    95.34  53 ePc   18 53.95   0.3
                iPP   22 41.65
SAO    95.37  54 eP    18 53.50  -0.2
```

```
        1.7s   133.09nm          6.1mb
MIN    95.45  50 eP    18 53.50  -0.7
        2.3s   390.00nm          6.4mb
LMEM   95.48  50 eP    18 55.09   0.7
ORV    95.48  51 eP    18 53.91  -0.3
        1.4s   270.00nm          6.5mb
     Z  20s    11.00um          6.3Msz
                eS    30 12.67
                eLQ   44 28.67
                eLR   49 02.67
JCW    95.60  42 P     18 54.89   0.3
LON    95.61  44 ePc   18 54.35  -0.4
                PP    22 59.55
                SP    31 55.86
RMW    95.65  43 iPc   18 54.98   0.1
                ePP   22 43.93
VBEM   95.69  45 P     18 55.25   0.0
FMW    95.72  43 P     18 55.60   0.2
ASR    95.74  44 P     18 55.42   0.0
SHI    96.07 299 eP    18 57.00  -0.3
CROR   96.11  45 P     18 57.29   0.2
CMB    96.28  52 ePc   18 57.83  -0.1
        2.0s   300.00nm          6.4mb
     Z  19s    15.00um          6.5Msz
                esPd  19 08.67
                ePP   22 50.31
                eSKS  29 41.31
                eS    30 03.31
                esP   31 54.31
                eLQ   45 12.31
                eLR   49 11.31
VGB    96.28  45 iPc   18 57.78   0.0
                ePP   22 42.98
VIPM   96.36  46 P     18 58.35   0.0
BCH    96.39  55 eP    18 58.77   0.2
EBG    96.47  44 P     18 58.97   0.4
MBC    96.75  14 ePc   18 59.00  -0.2
        1.7s   521.00nm          6.8mb
                PP    22 55.00
                PPP   24 47.70
                SKS   29 31.10
                S     30 06.60
                SP    31 46.30
                PS    32 27.60
                PKKP  35 59.90
                SS    36 56.60
                SKKP  38 44.00
                PcPP' 40 03.20
                SSS   40 45.70
                P'P'  43 43.50
WTV    96.91  43 P     19 00.33  -0.2
JBO    96.94  45 P     19 00.74   0.0
ABL    97.09  56 eP    19 02.21   0.4
WAH2   97.16  44 P     19 02.12   0.5
SAW    97.28  43 P     19 02.16  -0.1
MMPM   97.34  53 eP    19 03.44   0.4
MTUM   97.70  53 eP    19 04.74   0.2
NVL    97.71 194 iPc   19 03.00  -0.7
        2.2s   224.00nm          6.3mb
     Z  18s    20.00um          6.6Msz
     N  18s    16.00um
     E  18s    11.00um
                e     19 50.00
                e     21 38.00
                e     22 59.00
                ePP   23 19.00
                e     23 48.00
                e     24 50.00
                ePPP  25 28.00
                iSKS  29 40.00
                e     29 53.00
                e     30 05.00
                iS    30 24.00
                iPS   31 50.00
                e     32 50.00
                e     33 35.00
                eSS   37 35.00
                eSSS  41 20.00
ISA    97.72  55 ePc   19 04.45  -0.1
                esPd  19 17.03
BONR   97.92  53 eP    19 05.59  -0.1
DHR    98.01 296 eP    19 06.03   0.2
LNOR   98.04  45 P     19 05.65   0.0
DPW    98.09  43 ePc   19 05.89   0.0
SSK    98.33  56 eP    19 07.48   0.1
BAK    98.59 310 iPc   19 08.00  -0.1
PEC    98.76  57 ePc   19 09.13   0.0
        1.6s   181.12nm          6.4mb
TNP    98.78  52 eP    19 09.49   0.1
        1.4s    60.41nm          5.9mb
NEW    98.81  42 iPc   19 09.08   0.0
        1.1s   116.51nm          6.3mb
     Z  19s    17.48um          6.6Msz
                ePP   23 07.39
PLM    99.00  57 eP    19 10.31  -0.1
GSC    99.08  55 ePDIFc19 10.82   0.2
                esPd  19 23.82
PFO    99.34  57 ePDIFc19 12.32   0.4
                ec    19 22.67
YKA    99.45  28 eP    19 11.00  -0.6
        1.0s    18.50nm          5.6mb
TPNV   99.54  54 eP    19 12.89   0.0
        0.9s    19.91nm          5.6mb
     Z  21s    13.55um          6.4Msz
                ePP   23 15.45
GLA   100.70  58 ePdiff19 18.86   0.8
SNA   101.04 190 iPdiff19 18.50  -0.1
        1.3s    44.00nm          5.8mb
RYD   101.14 294 ePdiff19 12.67  -7.5X
TAB   101.38 308 ePdiff19 21.00  -0.1
GRO   101.67 313 ePdiff19 21.00  -1.0
     Z  20s     2.50um          5.7Msz
     N  18s    10.00um
     E  21s     4.00um
                i     29 59.00
                iPS   32 38.00
ARUT  101.77  53 ePdiff19 23.07   0.2
                ePP   23 28.28
LRM   102.11  45 ePdiff19 24.00  -0.3
HVU   102.12  49 ePdiff19 24.34   0.0
DUG   102.17  50 ePdiff19 24.29  -0.3
        1.1s    21.61nm          5.7mb
     Z  20s    10.81um          6.4Msz
                e     22 21.77
                ePP   23 34.28
MJMA  102.36 295 ePdiff19 25.33  -0.3
MTA   102.41 311 ePdiff19 26.00   0.7
     N  19s     1.00um
     E  19s     2.50um
                e     23 40.00
                e     30 03.00
                ePPS  32 48.00
ERE   102.72 310 iPdiff19 26.00  -0.9
                i     30 06.00
MSU   102.74  52 ePdiff19 27.18  -0.1
RES   103.07  14 ePdiff19 32.00   4.5X
        1.0s     5.00nm          5.2mb X
DAU   103.35  50 ePdiff19 29.87  -0.2
                iPP   23 42.41
PYA   103.52 314 ePdiff19 30.00  -0.3
     Z  22s     6.00um          6.1Msz
                e     23 44.00
                i     30 08.00
                e     31 22.00
                ePS   32 56.00
QASM  103.94 295 ePdiff19 25.33  -7.3X
SRU   103.99  51 ePdiff19 32.19  -0.6
TUC   104.12  58 ePdiff19 35.59   2.2
        1.1s     9.67nm          5.6mb
     Z  20s    18.01um          6.6Msz
ARO   104.21 280 ePdiff19 36.00   1.9
ABHA  104.58 287 ePdiff19 37.67   1.8
UQSK  105.00 295 ePdiff19 32.67  -4.7X
UQSK  105.00 295 ePdiff19 38.00   0.6
PV09  105.12  52 ePdiff19 37.62  -0.3
PV10  105.21  52 ePdiff19 37.67  -0.6
                ePP   23 55.06
PV08  105.50  52 ePdiff19 40.52   0.9
                ePP   23 57.42
OBN   105.98 326 (Pdiff19 48.00   7.1X
ALQ   107.56  55 ePdiff19 49.52   0.8
        1.8s    26.57nm          6.0mb
     Z  20s     8.43um          6.3Msz
                e     23 06.61
                PP    24 13.39
                SP    33 43.35
                ePKKP335 04.64
                iPKKP 35 26.46
GOL   107.91  50 ePdiff19 50.50   0.2
        1.8s   164.43nm          6.9mb
                ec    19 56.46
                ed    20 01.26
GOL   107.91  50 ePKP  23 58.55   0.8
GLD   108.02  50 ePdiff19 51.09   0.4
        1.7s    55.87nm          6.4mb
     Z  21s    17.08um          6.6Msz
RSSD  108.24  46 ePdiff19 51.64   0.0
        1.4s    29.65nm          6.3mb
RSSD  108.24  46 ePKP  23 59.28   1.1
                iPP   24 21.06
NAI   109.15 267 ePdiff20 08.00  11.7X
                PPP   24 40.00
                PPS   30 42.00
                SS    33 48.00
LTX   110.41  61 Pdiff 20 18.50  17.1X
BFT   110.59 240 ePKP  24 11.00   7.8X
KAS   110.67 312 ePKP  23 57.50  -5.1X
GRM   110.86 231 e(PKP)24 07.00   3.8X
        0.8s    61.00nm
     Z  20s    25.30um          6.8Msz
SEK   111.80 236 ePKP  24 02.00  -3.3X
        1.0s    40.00nm
SLR   112.09 239 iPKPd 24 06.00   0.1
        1.5s    83.33nm
     Z  18s    19.93um          6.7Msz
ULM   112.17  38 ePKP  24 09.00   3.9X
BLF   112.71 235 ePKP  24 02.00  -5.0X
FRS   113.18 234 ePKP  24 10.00   2.4
KRI   113.39 249 iPKPc 24 07.30  -1.3
BUL   113.45 245 iPKP  24 09.70   1.1
                iS    32 32.00
BOSA  113.52 235 (PKP) 24 08.49   0.1
WMOK  113.85  55 PKP   24 20.00  11.1X
     Z  21s     9.47um          6.4Msz
WMOK  113.85  55 ePKP  24 08.67  -0.3
     Z  21s     9.47um          6.4Msz
                SP    34 26.94
                SS    41 09.34
MEO   114.00  55 iPKPc 24 02.70  -6.5X
VRI   114.52 318 ePKP  24 20.00  10.2X
APO   114.81 336 ePKP  24 07.20  -2.7
        0.9s     5.00nm
LVV   114.89 323 ePdiff20 08.00 -12.7X
                e     25 16.00
                ePS   34 47.00
                eSS   41 23.00
NB2   115.56 338 PKP   24 15.20   3.8X
        1.3s    11.70nm
NRE0  115.63 337 Pdiff 20 30.20   6.5X
                PP    25 30.40
                PPP   27 50.70
                SP    34 23.20
                PS    35 02.80
                SS    42 03.00
                SSS   44 52.00
                SKKKS 46 00.00
SUR   115.66 230 ePKP  24 19.50   6.8X
        1.0s   120.00nm
CMP   115.84 318 ePKPc 24 31.00  18.6X
TUL   116.03  53 iPKP  24 15.10   2.1
UZH   116.39 322 iPKP  24 03.50  -9.7X
                e     25 20.00
                ePS   35 00.00
                iSPP  36 18.00
                iSS   41 30.00
BLE   116.59 228 ePKP  24 24.00   9.9X
        0.5s    16.00nm
OJC   117.22 324 ePKP  24 16.20   1.4
SPC   117.40 323 ePKP  24 14.20  -1.2
                e     25 12.10
                i     25 35.20
                e     34 39.20
UYO   117.46  55 iPKPd 24 14.30  -1.5
POF   117.62 233 iPKPd 24 19.00   2.8X
        0.4s    21.00nm
BZS   117.97 319 ePKP  24 07.00  -9.3X
MIAR  118.09  54 ePKP  24 16.61  -0.3
                ePP   25 24.21
PSZ   118.15 322 ePKP  24 16.20  -0.5
KSP   118.92 326 ePKP  24 17.40  -0.6
                e     25 35.70
SRO   119.16 322 ePKP  24 22.10   3.6X
                e     25 21.70
                i     25 37.40
SKO   119.40 315 ePKP  24 20.00   0.8
     Z  20s     4.71um          6.1Msz
                i     25 40.00
                i     35 27.00
                LR    23 12.00
UZD   119.52 321 e(PKP)24 32.00  12.8X
SLM   119.62  49 PKP   24 30.00  10.3X
```

16d 03h

```
     Z  20s     9.90um          6.4Msz
FVM   119.67  49 ePKP  24 17.66  -2.2
     Z  19s    25.49um          6.9Msz
                ePP   25 35.81
ZST   119.71 323 ePKP  24 22.20   2.6
                e     25 29.00
VKA   120.14 324 ePKP  24 22.00   1.6
     Z  17s     3.60um          6.1MszX
OHR   120.15 315 iPKP  24 22.30   1.6
BRG   120.19 327 ePKP  24 22.60   2.2
      1.0s    20.00nm
                iPKKP 34 33.80
                eSKKP 38 18.00
PRU   120.32 326 ePKP  24 20.00  -0.7
      2.7s   263.00nm
     Z  18s     5.00um          6.2Msz
     N  18s     2.70um
     E  18s     3.00um
                e     24 24.50
                e     25 04.80
                e     25 40.30
                e     25 47.90
                e     25 58.50
                e     26 19.60
                e     35 40.00
CLL   120.46 328 ePKP  24 21.00   0.1
     Z  20s     9.50um          6.4Msz
                PKKP  34 28.00
                SKKP  38 31.00
ELC   120.78  50 ePKP  24 21.81  -0.1
KHC   121.30 326 ePKP  24 21.50  -1.1
      1.1s    16.50nm
     Z  18s     9.40um          6.5Msz
     N  18s     3.40um
     E  18s     3.00um
                e     24 25.50
                e     24 51.50
                e     25 22.50
                e     25 54.50
                e     26 49.00
GEC2  121.37 325 e(PKP)24 28.00   5.1X
      0.8s     5.50nm
GEC2  121.37 325 PKP   24 21.60  -1.3
      0.6s     2.96nm
                e     24 30.20
                e     24 34.50
                e     24 45.60
                e     25 57.30
                e     26 12.90
GEC2  121.37 325 e(PKP)24 34.80  11.9X
      0.7s     4.60nm
GEC2  121.37 325 e(PKP)24 30.80   7.9X
      0.6s     3.70nm
OXF   121.44  53 ePKP  24 23.41   0.1
                iPP   25 52.58
PTJ   121.46 321 ePKP  24 22.00  -1.1
ZAG   121.48 321 ePKP  24 23.50   0.5
MOX   121.55 328 ePKP  24 20.10  -2.9
      2.0s    31.00nm
     Z  21s     6.40um          6.2Msz
LJU   122.27 322 ePKP  24 23.80  -0.7
                e     25 12.30
                e     25 27.60
                e     27 57.50
                e     34 15.00
                eSP   35 41.00
                e     37 08.00
GRF   122.30 327 ePKP  24 23.10  -1.4
PWLA  122.37  52 ePKP  24 22.97  -2.1
                iPP   25 58.01
KBA   122.48 324 iPKPc 24 26.60   1.5
                i     24 30.60
                i     24 38.40
                iPP   25 56.80
                i     26 05.60
VOY   122.67 322 ePKP  24 27.50   2.1
                e     25 04.00
WIN   122.75 239 iPKP  24 27.00   0.6
      1.5s   100.00nm
     Z  18s    44.70um          7.2Msz
FUR   123.10 326 ePKP  24 25.30  -0.8
                id    24 28.90
                ePP   26 08.80
                eSP   36 03.90
                eSS   43 10.00
WTS   123.17 331 ePKP  24 29.00   3.0X
WATA  123.38 325 i(PKP)24 25.50  -1.3
                i     24 29.10
                i     24 40.30
                i     26 08.50
WTTA  123.38 324 iPKPd 24 25.70  -1.2
      1.5s    83.30nm
                i     24 29.40
                i     24 40.60
                i     26 00.40
                i     26 09.80
MOTA  123.64 325 iPKPc 24 26.10  -1.3
      1.2s    32.20nm
                i     24 29.70
                i     24 40.90
                i     26 03.40
BNS   123.64 330 ePKP  24 31.50   4.5X
     Z  22s    26.00um          6.8Msz
SQTA  123.65 325 iPKPd 24 26.20  -1.1
                i     24 29.90
                i     24 41.30
                i     26 01.90
                i     26 11.20
ENN   124.38 331 ePKP  24 31.00   2.5
      1.0s    10.00nm
                ePP   26 16.00
HOFF  124.47 328 PKP   24 29.79   1.1
EDI   124.49 340 ePKP  24 27.20  -1.3
     Z  20s    10.00um          6.5Msz
     N  20s     5.00um
     E  20s     4.00um
LANF  124.53 328 PKP   24 29.77   0.9
SRBF  124.55 328 PKP   24 29.17   0.4
WLF   124.97 329 PKP   24 29.00  -0.6
FEL   125.08 327 PKP   24 29.82  -0.3
WLS   125.11 328 PKP   24 30.38   0.3
CDF   125.15 328 PKP   24 30.01  -0.2
ECH   125.33 327 PKP   24 30.12  -0.3
SNF   125.34 331 PKP   24 28.30  -2.0
MYNC  125.40  51 PKP   24 40.00   9.0X
     Z  20s     3.66um          6.0Msz
FIR   125.41 321 e(PKP)24 20.00 -10.6X
DOU   125.47 331 PKP   24 32.10   1.5
MOF   125.57 327 PKP   24 31.01   0.0
VITF  125.96 328 PKP   24 32.16   0.5
LOMF  126.03 327 PKP   24 32.43   0.5
YSNY  126.26  40 ePKPc 24 29.34  -3.1X
GAC   126.40  35 ePKP  24 30.00  -2.6
IHA   127.20 140 ePKP  24 35.50   1.0
BLA   127.37  47 ePKP  24 33.74  -1.0
SAOF  127.57 323 PKP   24 35.34   0.4
SSPA  127.59  42 PKP   24 50.00  15.0X
     Z  20s     0.00um          2.8MszX
AUTN  127.64 323 PKP   24 34.65  -0.6
SBF   127.71 323 PKP   24 35.43   0.2
AURF  127.76 323 PKP   24 35.88   0.5
MVIF  127.86 323 PKP   24 35.99   0.4
RFA   128.00 144 ePKP  24 26.50  -9.6X
BINY  128.02  39 ePKP  24 33.72  -2.1
     Z  21s    20.48um          6.8Msz
                ePP   26 32.17
CVL   128.44  45 ePKP  24 36.63   0.0
SGS   128.87  52 ePKP  24 38.34   0.7
CEH   128.89  48 ePKP  24 36.59  -1.0
     Z  20s    12.66um          6.6Msz
CBN   129.10  44 ePKP  24 39.00   1.1
                e     26 42.00
LBNH  129.30  35 ePKP  24 36.60  -1.5
     Z  20s    13.32um          6.6Msz
                eSKP  27 55.90
CBM   129.60  30 ePKPc 24 36.24  -2.3
     Z  20s    13.19um          6.6Msz
                ed    24 47.67
                ePP   27 57.50
GPD   129.62  40 ePKPd 24 38.02  -0.8
                ePP   26 46.46
TBR   129.71  40 ePKP  24 38.16  -0.8
                ePP   26 44.69
                eSKP  27 56.81
PAL   129.98  40 ePKP  24 38.60  -0.9
RTCB  130.02 140 ePKPc 24 40.00   0.0
LSCT  130.03  38 ePKP  24 39.11  -0.5
     Z  18s    17.48um          6.8Msz
                ePP   26 45.04
                eSKP  27 57.66
CFA   130.30 141 e(PKP)24 40.40  -0.1
RTLL  130.34 140 ePKPd 24 40.30  -0.3
HRV   130.56  37 PKP   24 50.00   9.4X
     Z  21s     8.30um          6.4Msz
HRV   1[illegible]  37 ePKPc 24 40.87   0.3
     Z           8.28um          6.4Msz
                PP    26 51.13
LMN   13[illegible]  29 ePKP  24 43.00  -0.2
LPA   133.47 152 iPKP+ 24 47.60   1.3
     Z  20s     4.26um          6.2Msz
                epPKP 25 02.00
NNA   133.65 113 ePKP  24 46.50  -0.8
      1.5s   208.33nm
CYA   133.99 140 ePKP  24 34.00 -13.6X
FSA   135.42 137 e(PKP)24 39.80 -10.5X
ARE   136.60 121 ePKP  24 44.00  -9.2X
SLA   136.65 136 ePKP  24 44.50  -8.4X
HJA   137.68 134 ePKPd 24 49.10  -5.5X
YJA   138.26 133 ePKPc 24 46.00 -10.4X
CNCB  139.36 124 iPKPc 24 49.80  -8.8X
LPB   139.41 124 PKP   24 50.00  -8.5X
      1.2s  2812.50nm
     Z  19s     3.47um          6.1Msz
                LR    11 46.00
LPAZ  139.50 123 PKPd  24 49.00  -9.9X
      1.2s    40.50nm
                i     24 54.10
                PP    27 44.50
                i     27 52.10
                SKP   28 03.50
                PKKP  33 19.50
CCH   140.56 126 PKP   24 55.50  -4.9X
IFR   141.75 320 iPKP  25 13.00  11.0X
AVE   143.33 321 iPKP  25 05.00   0.5
                i     25 17.80
SDV   143.36  83 iPKPd 25 02.00  -3.3X
TOV   144.15  81 ePKPc 25 03.80  -2.6
                iPP   25 05.60
TIO   144.79 318 iPKP  25 05.50  -1.7
                i     25 22.00
OUK   145.01 319 ePKP  25 07.50   0.2
MCP   145.22  66 PKP   25 06.50  -1.6
CIA   145.35 321 ePKP  25 08.00   0.1
MGP   145.35  67 PKP   25 06.50  -1.8
MORO  145.51  79 iPKP  25 09.20   0.4
APR   145.55  66 PKP   25 07.50  -1.1
JHA   145.65 321 ePKP  25 08.00  -0.4
PORP  145.75  66 PKP   25 07.00  -2.0
CLLP  145.80  66 PKP   25 07.40  -1.6
SJG   146.18  66 iPKPc 25 08.35  -1.4
                e     25 19.19
RSTA  146.20 155 iPKPc 25 10.70   1.1
LPR   146.38  66 PKP   25 09.50  -0.6
CPD   146.41  66 PKP   25 10.00  -0.1
CAR   146.90  80 iPKPd 25 10.00  -1.1
OLLA  147.07  81 iPKP  25 11.50   0.1
PPD   147.37 149 ePKP  25 12.50   1.0
VAO   148.52 156 ePKP  25 15.00   1.6
                e     25 18.00
                e     25 19.00
                e     25 22.00
                e(pPKP25 23.00
                e(PP) 28 42.00
                e     28 52.00
CACB  149.80 156 ePKP  25 16.50   1.0
                e     25 32.60
CFTV  150.84 322 ePKPd 25 22.20   5.4X
KIC   151.11 272 ePKP  25 17.62   0.1
      2.1s   400.50nm
TIC   151.39 273 PKP   25 16.86  -1.1
      1.2s    31.00nm
LIC   151.39 272 PKP   25 18.64   0.7
      1.7s   227.50nm
     Z  19s    11.00um          6.7Msz
LKO   151.82 279 PKP   25 18.92   0.3
      1.7s  1619.50nm
CDCB  151.90 158 ePKPc 25 19.60   1.0
                e     25 25.60
TCE   151.94  78 ePKP  25 25.31   6.6X
SVB   151.98  73 ePKP  25 25.49   6.7X
SVV   152.00  73 ePKP  25 25.57   6.8X
SLB   152.05  72 ePKP  25 26.89   8.0X
TPP   152.28  79 ePKP  25 26.62   7.4X
TRN   152.29  78 ePKP  25 26.26   7.1X
TBH   152.64  79 ePKP  25 22.76   3.1X
TPR   152.82  77 ePKP  25 30.43  10.5X
BOT   152.88  77 ePKP  25 29.86   9.9X
BDFB  154.38 147 iPKPc 25 22.91   0.7
                ec    25 31.19
BAO   154.40 147 PKPd  25 21.90  -0.3
                e     25 30.30
```

```
                  e      25 41.00
                  e      25 51.00
                  e      26 08.80
KDS   157.70 289 ePKP  25 25.50  -0.9
MBO   161.41 298 ePKP  25 33.00   2.7
SOB1  163.41 155 ePKP  25 32.30  -0.2
                  e      26 24.00
     S.D. = 1.0  on 382 of 458 obs.
-----------------------------------
*  OCT  16, 1993  03h 15m 22.11± 0.78s
    6.071 S ±12.3km  146.147 E ±16.6km
   DEPTH =  33.0km  (normal)
   4.9mb (  4 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY    0.24 226 eP    15 28.40  -1.0
MNDI    2.48 268 eP    16 10.80   9.6X
PMG     3.46 163 eP    16 14.00  -1.0
                 eS    17 14.00
WR2    17.93 219 eP    19 33.00   2.3
       1.0s    94.10nm          4.9mb
BKM    24.47 120 iP    20 40.50   1.0
ARMA   24.76 169 eP    20 42.40   0.0
       0.9s    34.00nm          4.9mb
DZM    25.25 131 iPd   20 46.30  -0.8
BWA    28.29 176 eP    21 15.40   0.6
CAN    29.23 175 eP    21 23.20   0.0
GBA    70.94 287 P     26 42.00   3.2X
FBA    85.58  23 eP    28 00.20   2.1
       1.1s    13.13nm          5.1mb
INK    92.03  22 eP    28 30.00   1.4
       1.0s     2.00nm          4.5mb
UYO   117.61  55 iPKPc 34 27.30  20.4X
THE   118.84 313 ePKP  34 23.32  14.3X
KSP   119.03 326 ePKP  34 35.60  26.5X
                  e     38 25.60
SKO   119.49 315 ePKP  34 30.00  19.7X
ZST   119.82 323 e(PKP)34 29.40  18.7X
FVM   119.82  49 ePKPc 34 31.98  20.9X
OHR   120.24 314 ePKP  34 29.50  17.7X
PRU   120.43 326 ePKP  34 27.80  16.0X
     Z  18s     1.20um          5.6Msz
                  e     34 35.00
                  e     34 41.50
ELC   120.94  50 ePKP  34 26.85  13.7X
                  ePKPbc34 33.61
KHC   121.41 325 ePKP  34 26.50  12.7X
       1.1s    10.90nm
     Z  18s     2.60um          5.9Msz
     N  18s     0.60um
     E  18s     1.80um
                  e     34 29.90
                  e     36 19.50
                  e     37 03.00
                  e     38 11.40
GEC2  121.48 325 PKP   34 23.90   9.9X
       0.9s     3.55nm
                  e     34 29.30
                  e     34 38.50
                  e     37 05.60
                  e     37 16.90
OXF   121.58  53 ePKP  34 23.75   9.3X
MOX   121.67 328 ePKP  34 21.50   7.3X
       2.4s    81.00nm
GRF   122.41 327 e(PKP)34 20.70   5.1X
PWLA  122.51  52 ePKP  34 20.22   4.0X
KBA   122.58 323 i(PKP)34 21.80   5.6X
WATA  123.48 324 i(PKP)34 16.40  -1.5
                  i     34 21.80
WTTA  123.49 324 i(PKP)34 16.80  -1.2
       1.1s    23.80nm
                  i     34 22.00
MOTA  123.75 325 iPKPd 34 19.40   0.9
       1.2s    20.00nm
SQTA  123.76 325 iPKPd 34 15.50  -3.0
       1.1s    33.20nm
KIC   151.06 272 PKP   35 17.35   9.0X
       1.2s    42.50nm
TIC   151.34 273 PKP   35 18.57   9.8X
       0.8s    12.50nm
LIC   151.34 272 PKP   35 17.83   9.1X
       1.1s    33.00nm
LKO   151.79 279 PKP   35 18.44   9.0X
       0.7s    16.50nm
     S.D. = 1.6  on 14 of 36 obs.
-----------------------------------
   OCT  16, 1993  03h 45m 39.33± 0.28s
    5.867 S ± 4.5km  146.377 E ± 6.9km
   DEPTH =  39.2km  (  2 depth phases)
   4.9mb ( 23 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY    0.55 227 iPd   45 49.00  -1.9
MDG     0.85 316 eP    45 55.10   0.1
MNDI    2.72 264 eP    46 26.00   4.2X
WWKK    3.53 309 eP    46 37.60   4.4X
PMG     3.60 168 eP    46 34.00  -0.1
                 eS    47 36.00
CTA    14.14 180 iP    49 01.00   1.9
WR2    18.23 219 eP    49 49.80  -1.4
       0.7s    14.50nm          4.2mb
                 epP   50 05.70
                 eS    53 12.30
WRA    18.24 219 P     49 51.00  -0.4
ASPA   21.39 213 eP    50 26.80   0.9
       0.8s    18.50nm          4.5mb
                 eS    54 21.10
BKM    24.37 121 iPc   50 52.50  -2.7
ARMA   24.92 169 eP    51 00.50   0.0
       0.5s     5.00nm          4.3mb
DZM    25.22 132 iPc   51 03.90   0.6
STK    26.27 189 eP    51 11.60  -1.3
       1.2s     7.80nm          4.2mb
BWA    28.48 176 eP    51 33.30   0.3
SSE    43.94 328 Pc    53 44.80   0.5
       1.0s    11.00nm          4.6mb
NJ2    45.93 327 Pc    54 00.80   0.6
       0.8s     8.50nm          4.7mb
IPM    46.46 282 ePc   54 07.00   2.2
TIA    50.04 329 eP    54 31.90  -0.3
GYA    50.13 312 P     54 34.00   0.8
       1.0s    13.00nm          4.9mb
MDJ    52.47 345 eP    54 50.40  -0.1
CN2    52.93 341 eP    54 52.40  -1.6
       1.0s     7.00nm          4.6mb
XAN    53.19 321 P     54 55.20  -0.9
       1.0s    27.00nm          5.2mb
                 pP    55 07.00  41km
BJI    53.49 331 eP    54 57.50  -0.5
       1.0s     8.00nm          4.7mb
TIY    53.65 327 eP    54 58.70  -0.7
CD2    54.74 315 eP    55 07.20  -0.3
       0.8s    34.00nm          5.4mb
HHC    56.40 329 Pd    55 19.60   0.2
       1.0s    19.00nm          5.1mb
BTO    57.03 327 eP    55 23.00  -0.9
LZH    57.71 320 eP    55 29.00   0.2
       1.5s    58.00nm          5.4mb
                 pP    55 40.00  37km
GTA    62.24 321 P     55 59.20  -0.7
       1.5s    26.00nm          5.1mb
LSA    63.67 307 P     56 06.30  -3.5X
       0.8s    15.00nm          5.1mb
CSY    65.23 195 eP    56 19.10   0.3
       0.9s    16.30nm          5.1mb
HYB    70.83 291 eP    56 54.00  -0.7
GBA    71.10 286 P     56 57.00   0.8
SDN    75.07  28 (P)   57 15.90  -2.8
       1.0s    55.06nm          5.5mb
POO    75.44 291 eP    57 23.00   1.3
SVW    80.37  25 eP    57 48.62   0.6
       0.9s    31.72nm          5.3mb
TTA    81.17  23 eP    57 53.30   1.1
CP2    81.87  25 (P)   57 56.28   0.2
MAW    82.13 203 P     57 58.09   1.1
SLKM   82.41  27 eP    57 58.87   0.3
PWA    83.06  26 eP    58 01.50  -0.4
       1.0s    18.40nm          5.1mb
PMR    83.36  26 eP    58 03.17  -0.2
       0.8s    10.59nm          5.0mb
IMA    83.65  21 ePd   58 05.96   0.9
       1.0s    10.95nm          4.9mb
TOA    84.85  26 eP    58 11.40   0.4
FBA    85.30  23 eP    58 12.42  -0.8
       0.8s    14.14nm          5.2mb
BALM   86.17  28 eP    58 18.22   0.5
INK    91.76  21 eP    58 44.00   0.2
       1.0s     3.00nm          4.7mb
GMW    94.85  43 eP    58 59.19   0.7
RMW    95.51  43 eP    59 03.02   1.4
GEC2  121.45 325 PKPc  04 29.00  -1.3
       0.6s     0.39nm
CNCB  139.24 124 PKP   04 59.50  -6.2X
LPB   139.28 124 PKP   05 02.00  -3.6X
LPAZ  139.38 123 PKP   04 58.40  -7.7X
RSTA  146.16 154 (PKP) 05 17.00   0.2
OLLA  146.89  81 iPKP  05 21.40   3.0X
PPD   147.30 149 ePKP  05 20.60   1.8
KIC   151.28 273 PKP   05 32.20   7.1X
       0.8s    15.00nm
TIC   151.56 273 PKP   05 32.72   7.2X
       0.9s    15.00nm
LIC   151.56 272 PKP   05 32.76   7.3X
       0.8s    23.00nm
LKO   151.99 279 PKP   05 33.69   7.5X
       0.7s    14.50nm
BDFB  154.31 146 ePKP  05 38.77   9.3X
BAO   154.33 146 ePKP  05 37.50   8.0X
                  e     05 40.90
                  e     05 49.10
     S.D. = 1.1  on  49 of  62 obs.
-----------------------------------
   OCT  16, 1993  04h 21m 31.53± 0.68s
    5.896 S ± 5.3km  145.990 E ± 9.3km
   DEPTH =  13.0 ±  4.3 km
   4.6mb (  6 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.7 (PMG).

YYYY    0.34 183 eP    21 38.40  -0.5
MDG     0.67 342 iPc   21 45.50   0.9
MNDI    2.33 264 eP    22 15.00   4.6X
WWKK    3.26 314 eP    22 30.00   6.5X
PMG     3.67 162 eP    22 29.00  -0.3
                 eS    23 28.00
KVG     5.82  56 eP    23 00.00   0.3
CTA    14.11 179 iP    24 55.00   1.7
WR2    17.97 218 eP    25 41.40  -1.4
       0.8s    19.90nm          4.3mb
                 eS    28 56.50
ASPA   21.16 212 eP    26 20.00   1.2
       0.9s    43.80nm          4.8mb
                 eS    30 10.70
BKM    24.69 120 iPc   26 57.00   3.3X
DZM    25.49 131 iPc   27 02.00   0.7
STK    26.18 189 eP    27 06.40  -1.1
       1.0s     3.60nm          4.0mb
IPM    46.09 282 ePd   29 58.00   0.5
CSY    65.10 195 eP    32 14.10   0.3
       0.9s     3.40nm          4.5mb
GBA    70.74 287 P     32 50.00   0.1
SVW    80.56  25 eP    33 45.70   0.8
TTA    81.35  23 e(P)  33 49.40   0.3
PMR    83.55  26 eP    33 59.60  -0.7
IMA    83.82  21 eP    33 59.50  -2.4
       1.1s     5.60nm          4.7mb
TOA    85.04  26 eP    34 08.10   0.1
FBA    85.48  23 eP    34 08.70  -1.3
       0.6s     9.80nm          5.2mb
CNCB  139.54 124 PKP   40 57.80  -4.6X
LPB   139.58 124 ePKP  40 50.00 -12.3X
                 i     41 03.80
LPAZ  139.68 124 PKP   40 56.60  -6.1X
CCH   140.73 127 PKP   41 04.50   0.3
RSTA  146.30 155 (PKP) 41 14.00   0.8
PPD   147.48 149 ePKP  41 15.10   0.0
KIC   150.90 272 PKP   41 26.28   5.7X
       0.9s    28.50nm
TIC   151.17 273 PKP   41 26.60   5.5X
       0.9s    28.50nm
LIC   151.18 272 PKP   41 26.72   5.7X
       0.8s    29.50nm
LKO   151.61 279 PKP   41 27.84   6.1X
       0.8s    40.00nm
     S.D. = 1.0  on  21 of  31 obs.
-----------------------------------
*  OCT  16, 1993  06h 30m 05.32± 1.12s
   41.698 N ± 6.0km   81.012 W ±15.8km
   DEPTH =    5.0km  (geophysicist)
 OHIO                              (471)
      mbLg 3.4 (GS), 3.6 (OTT). Felt
      (IV) at Madison and Unionville.
      Also felt in the Perry area.

TYNO    1.63  31 P     30 34.80   0.0
YSNY    2.00  66 ePd   30 41.02   0.9
                 eS    31 07.94
STCO    2.03  41 P     30 41.61   1.0
ACTO    2.03  20 P     30 40.97   0.4
WLVO    2.94  40 P     30 52.82  -0.7
WEO     3.02  39 Pn    30 53.63  -1.1
```

16d 06h

```
                Pg   30 57.88
                Sn   31 29.59
                Sg   31 38.97
BINY    3.78  81 (Pn) 31 05.05  -0.5
                eSn  31 51.22
CVL     4.20 151 ePn  31 11.51   0.1
                ePg  31 19.89
NAV     4.38 178 ePn  31 13.98  -0.1
                ePg  31 22.94
                eS   32 00.72
CBN     4.47 140 eP   31 25.00   9.7X
BLA     4.50 174 ePn  31 15.84   0.0
                ePg  31 25.06
                eSn  32 06.73
                eSg  32 23.43
GPD     4.98  96 ePn  31 21.59  -0.9X
                eSn  32 17.20
CKO     5.01  30 Pn   31 20.15  -2.7X
EEO     5.13  15 Pn   31 22.79  -1.9X
                Sn   32 19.33
                Sg   32 42.56
TBR     5.14  94 ePn  31 23.77  -1.0X
WBO     5.33  50 Pn   31 23.50  -3.9X
                Pg   31 37.96
                Sn   32 21.31
                Sg   32 47.85
OTT     5.33  44 Pg   31 37.89  10.4X
                Sn   32 23.25
                Sg   32 48.50
PAL     5.39  95 (P)  31 27.42  -0.9X
                eSn  32 26.17
RSNY    5.53  57 ePn  31 28.60  -1.8X
                eSn  32 32.85
CRNY    5.62  91 ePn  31 30.11  -1.4X
                eSn  32 32.36
GAC     5.67  43 eP   31 43.50  11.3X
GAC     5.67  43 Pn   31 28.04  -4.1X
                Pg   31 45.95
                Sn   32 26.04
                Sg   32 58.80
LSCT    5.83  88 ePn  31 33.38  -1.1X
                eSn  32 36.61
CEH     5.99 165 (Pn) 31 34.86  -1.9X
GRQ     6.15  35 Pn   31 35.32  -3.6X
                Sn   32 41.07
                Sg   33 12.57
TRQ     6.49  44 Pn   31 39.62  -4.3X
                Pg   31 59.92
                Sn   32 51.66
                Sg   33 23.44
MYNC    7.05 201 ePn  31 49.52  -2.2X
                eSn  33 03.77
LBNH    7.13  66 (Pn) 31 48.75  -4.1X
                eSn  33 11.22
ELC     7.73 238 ePn  31 58.50  -2.7X
                eSn  33 21.80
FVM     8.14 246 ePn  32 05.06  -1.9X
PWLA    8.70 222 (P)  32 40.64  25.9X
TBO     9.13 322 Pn   32 17.97  -2.7X
     S.D. = 0.7  on  10 of  32 obs.
-----------------------------------
?  OCT  16, 1993  06h 57m 21.56± 0.50s
   37.426 N ±12.6km   71.564 E ±10.3km
   DEPTH =  33.0km  (normal)
   4.4mb (  4 obs.)
 AFGHANISTAN-TAJIKISTAN BORD REG.(717)

MAIO    9.74 267 eP   59 43.00   0.5
                eS   01 20.00
NDI     9.92 150 eP   59 44.00  -0.9
GKN    14.46 127 P    00 46.30   0.4
KKN    15.02 126 P    00 53.50   0.3
DMN    15.03 127 P    00 54.10   0.7
PKI    15.25 126 P    00 56.30  -0.1
GUN    15.33 124 P    00 57.10  -0.3
GBA    24.30 166 P    02 30.00  -7.1X
KAF    37.10 326 eP   04 31.00   0.8
NUR    37.35 323 eP   04 33.00   0.7
       0.3s     2.80nm          4.6mb
HFS    42.62 321 eP   05 15.20  -0.8
       0.4s     3.80nm          4.5mb
NB2    43.92 322 P    05 25.40  -1.2
       0.5s     1.70nm          4.1mb
WR2    82.12 122 eP   09 31.80  -8.6X
       0.3s     1.00nm          4.3mb
     S.D. = 0.8  on  11 of  13 obs.
-----------------------------------
   OCT  16, 1993  07h 21m 04.22± 0.51s
   14.364 N ± 9.0km   92.996 W ± 5.8km
   DEPTH =  33.0km  (normal)
   4.6mb ( 18 obs.)  4.6Msz (  1 obs.)
 NEAR COAST OF CHIAPAS, MEXICO    ( 69)

TPX     0.89  53 iPd  21 22.28   1.9
                iS   21 40.00
BVA     2.30  82 iP   21 41.79   0.9
                iS   21 54.46
SCX     2.38   8 iP   21 46.85   5.1X
                iS   22 19.68
GCG     2.40  84 iPc  21 43.60   1.4
IXG     2.47  94 iPc  21 43.50   0.3
YUP     3.10  93 iP   21 52.62   0.5
                iS   22 19.83
OXX     4.49 307 iP   22 12.00   0.0
                (S)  23 05.50
IISM    6.23 318 eP   22 36.89   0.7
LVVM    6.28 329 (P)  22 33.30  -3.7X
PPM     7.14 312 eP   22 50.84   1.3
                (S)  24 19.00
IIA     7.21 312 iP   22 51.90   1.8
III     7.38 304 iP   22 52.06  -0.6
UNM     7.71 311 (P)  22 56.00  -1.4
CRX     8.13 309 (P)  22 56.00  -7.2X
MRX     9.47 305 (P)  23 21.90   0.5
LTX    17.87 328 eP   25 13.12   1.0
UYO    19.76 356 iPc  25 32.20  -2.2
MIAR   20.10 359 eP   25 35.84  -2.2
       1.4s    91.77nm          4.9mb
WMOK   20.95 347 eP   25 45.09  -1.7
       0.7s     8.08nm          4.2mb
MEO    20.95 347 iPd  25 45.80  -1.0
SDV    22.56 102 iPc  26 04.90   1.6
ACO    22.91 347 iPc  26 07.50   1.2
TOV    23.13  99 eP   26 08.80   0.1
ALQ    23.81 332 eP   26 15.51   0.2
       0.9s     6.03nm          4.1mb
TUC    24.14 321 eP   26 20.56   2.2
       1.2s    10.59nm          4.3mb
CEH    24.80  28 eP   26 23.20  -1.4
       0.6s     9.62nm          4.6mb
GLD    27.47 339 (P)  26 50.76   1.2
       1.3s    13.89nm          4.5mb
GOL    27.48 339 eP   26 49.91   0.2
       1.1s    15.56nm          4.6mb
PV08   27.80 333 eP   26 53.48   0.7
PV10   27.81 332 eP   26 52.38  -0.4
MSU    29.43 328 eP   27 07.60   0.3
ARUT   29.56 326 eP   27 09.27   0.9
DAU    30.47 332 eP   27 16.97   0.4
RSSD   31.12 345 eP   27 21.78  -0.4
       0.6s     4.72nm          4.5mb
RSNY   33.94  24 eP   27 46.10  -0.4
       0.7s     5.82nm          4.6mb
LRM    35.39 336 eP   27 59.50   0.3
                e    28 07.20
                e    30 38.50
ULM    35.86 357 eP   28 03.50   0.6
LBFM   36.77 323 eP   28 10.95   0.1
LPAZ   39.13 140 eP   28 36.00   4.7X
LPB    39.33 140 eP   28 34.00   1.2
CNCB   39.62 141 P    28 34.00  -1.3
YKA    50.45 347 eP   29 59.70  -0.9
       0.8s    15.10nm          5.0mb
SOB1   56.73 111 eP   30 45.50  -2.2
INK    59.82 344 eP   31 07.00  -1.4
       0.7s     3.00nm          4.5mb
RES    60.33 359 eP   31 10.50  -1.2
       0.9s     5.00nm          4.6mb
NB2    84.29  28 P    33 34.20   0.3
       0.9s     5.50nm          4.7mb
LKO    85.19  81 P    33 38.09  -1.1
       0.7s     5.50nm          4.9mb
HFS    85.75  29 eP   33 39.50  -1.6
       0.4s     0.70nm          4.2mb
     Z 18s      0.22um          4.6Msz
                LR   07 54.00
LIC    86.52  84 P    33 45.50  -0.3
       0.8s     7.50nm          5.0mb
KIC    86.76  84 P    33 46.76  -0.3
       0.8s    12.50nm          5.2mb
GEC2   89.94  39 P    34 01.60  -0.1
       0.9s     1.06nm          4.1mb
                e    34 14.20
SZP   134.23 313 iPKPd 40 12.80  -8.3X
WRA   134.54 256 PKP   40 21.20  -0.5
       0.7s     0.60nm
HYB   147.34  15 ePKP  40 45.50   1.0
GBA   150.64  19 PKP   40 54.00   4.4X
     S.D. = 1.2  on  49 of  55 obs.
-----------------------------------
*  OCT  16, 1993  07h 41m 02.45± 0.83s
   6.140 S ±11.6km  128.940 E ±14.1km
   DEPTH =  33.0km  (normal)
   4.7mb (  4 obs.)
 BANDA SEA                        (280)

MTN     7.00 162 eP   42 45.50   0.1
       0.3s    89.00nm          6.2mb X
                eS   44 02.80
KNA     9.55 181 iPc  43 19.00  -1.8
WR2    14.70 159 iPd  44 24.10  -5.9X
       0.4s    25.70nm          5.0mb
                eS   47 01.00
PMG    18.34 101 eP   45 16.00  -0.1
LEM    21.20 267 ePc  45 49.50   1.7
CTA    21.80 131 iP   45 55.00   1.3
       1.5s    20.83nm          4.3mb
                i    46 08.50
BAG    23.88 340 ePc  46 14.50   0.2
       1.2s    59.38nm          5.0mb
STK    28.21 157 eP   46 54.70   0.4
       0.7s     5.30nm          4.3mb
ADE    30.07 164 e(P) 47 16.10   5.0X
TOO    34.73 157 eP   47 54.80   3.1X
LZH    48.16 333 eP   49 40.00  -1.8
CNCB  151.71 144 PKP  01 02.00  11.7X
LPB   151.86 143 PKP  01 05.00  14.7X
LPAZ  152.04 143 PKP  01 07.80  17.0X
     S.D. = 1.5  on   8 of  14 obs.
-----------------------------------
*  OCT  16, 1993  07h 42m 18.97± 1.18s
   14.460 N ±16.2km   92.883 W ± 6.7km
   DEPTH =  33.0km  (normal)
   4.5mb (  9 obs.)
 NEAR COAST OF CHIAPAS, MEXICO    ( 69)

TPX     0.75  54 iPd  42 35.87   2.8
                iS   42 50.00
SCX     2.28   6 iP   43 01.00   6.0X
                iS   43 31.07
OXX     4.52 306 iP   43 26.53  -0.6
                (S)  44 22.00
IISM    6.23 317 (P)  43 55.29   4.3X
                (S)  45 12.00
LVVM    6.26 327 (P)  43 53.11   1.7
ACX     7.13 291 (P)  44 05.00   1.3
PPM     7.16 311 iP   44 05.69   1.1
                iS   45 27.50
IIA     7.23 311 iP   44 06.55   1.4
III     7.42 303 eP   44 06.98  -1.0
UNM     7.73 310 (P)  44 13.00   0.6
CRX     8.15 308 (P)  44 18.00  -0.3
MRX     9.50 304 iP   44 36.47  -0.1
LTX    17.85 328 eP   46 26.12  -0.4
UYO    19.67 356 iPd  46 47.20  -1.1
MIAR   20.01 358 eP   46 50.02  -1.8
       0.9s    25.42nm          4.6mb
MEO    20.88 347 iPd  47 02.40   1.6
WMOK   20.88 346 eP   46 59.88  -1.0
       0.8s     6.67nm          4.1mb
ACO    22.84 347 iPc  47 20.50   0.1
ALQ    23.78 331 eP   47 29.51  -0.3
       1.0s     6.27nm          4.1mb
TUC    24.14 320 eP   47 33.50   0.4
       0.9s    10.25nm          4.4mb
PV08   27.77 333 eP   48 07.36   0.1
PV10   27.78 332 eP   48 06.92  -0.3
PV09   27.92 332 (P)  48 08.09  -0.5
ARUT   29.54 326 eP   48 23.35   0.4
DAU    30.44 332 eP   48 31.68   0.6
RSSD   31.06 344 eP   48 35.17  -1.2
       0.6s     1.94nm          4.1mb
HVU    32.22 331 eP   48 46.21  -0.3
RSNY   33.81  24 eP   48 59.92  -0.2
       1.0s    11.20nm          4.7mb
LRM    35.35 336 eP   49 13.60   0.0
                e    51 43.30
ULM    35.78 357 eP   49 09.00  -7.9X
YKA    50.39 347 eP   51 13.60  -1.2
       1.0s    13.00nm          4.9mb
INK    59.76 344 eP   52 21.50  -1.2
```

EDR No. 10-93
Part 2 of 2
P. 209-416

U. S. DEPARTMENT OF THE INTERIOR

Geological Survey

EARTHQUAKE DATA REPORT

The Earthquake Data Report (EDR) is a bulletin of all seismic phase and amplitude data which were associated with events published in the Preliminary Determination of Epicenters (PDE) Monthly Listing. It also contains information about the hypocentral computations (such as standard errors) that are not included in the PDE Monthly Listing. A machine-readable version of this EDR is available from the Books and Open-File Reports Section of the U.S. Geological Survey.

All data in the EDR are grouped by event, with events listed by origin time in date/time order through the month. All times are in Coordinated Universal Time (UTC). Locations are in decimal degrees of geographic latitude and longitude. Depths are in kilometers below the free surface. Hypocentral coordinates are determined by a modified Geiger's method and may be constrained by reported first arriving P-waves, Pdiff, and the DF branch of PKP. Data are corrected for station elevation and for the ellipticity of the Earth. Outliers may be truncated (ie., removed from the calculation) either automatically or manually. The solution is allowed to converge between rounds of automatic truncation to insure a unique result. Convergence is aided by step length damping.

The error bars of the computed hypocentral coordinates are 90% marginal confidence intervals incorporating Baysian information to stabilize estimates derived from small samples (Jordan and Sverdrup, 1981). It is assumed that the travel-time errors *of the data used* are independent, unbiased, and have an expected standard deviation of 1 s. Monte Carlo experiments suggest that the error bars are accurate for events constrained by more than about 30 data. However, care should be exercised in interpreting these numbers in terms of absolute location accuracy because of unmodeled biases. Analysis of events with independently known coordinates indicates that most PDE determinations are accurate to a few tenths of a degree in epicentral position and 25 km in depth. For special studies, we urge that inquiry be made to this office for possible recomputation of hypocenters of interest, using more complete instrumental data.

Restricted focal depths occur in four instances. If at any point in the computation the depth becomes negative, the solution is automatically restricted at 33 km and indicated by "NORMAL DEPTH." If the unrestricted depth computation is unsatisfactory, and in the judgment of the reviewing geophysicist the earthquake probably has a shallow focus, a solution may be held at 33 km. These are also indicated by "NORMAL DEPTH." The geophysicist may restrain the depth at any value indicated by evidence from available seismograms. These are indicated by, for example, "DEPTH = 100 KM (GEOPHYSICIST)." If two or more pP phases are identified, and in general, yield depths within 10 km of the mean, then the depth is automatically restricted to this value and denoted by, for example, "DEPTH = 51 KM (5 DEPTH PHASES)." pP phases may also appear as unidentified second arrivals with associated travel-time residuals. Hypocentral coordinates derived from other sources, such as the California Institute of Technology, the University of California at Berkeley, and the U. S. Department of Energy are noted on the EDR.

Two types of magnitude are computed: body-wave magnitude (m_b) and surface-wave magnitude (M_{SZ}). Each is a 25% trimmed mean of individual station values. Station magnitudes not used in the trimmed mean are marked with an X. This includes station magnitudes of either type which deviate significantly from the mean and surface-wave magnitudes determined from horizontal amplitudes. Body-wave magnitudes are computed according to the formula $\log(A/T)+Q$, derived by Gutenberg and Richter (1956), where A is the P-wave amplitude in micrometers, T is the period in seconds, and Q is the depth-distance factor. Surface-wave magnitudes are computed from the formula $\log(A/T) + 1.66\log(\Delta) + 3.3$, where A is the maximum vertical surface-wave amplitude in micrometers, T is the period in seconds, and Δ is the epicentral distance in degrees. Surface-wave magnitudes are determined only for earthquakes whose focal depths (taking into account the computed standard deviations) are potentially less than 50 km, for stations having $20° \leq \Delta \leq 160°$, and for reported periods of $18 \leq T \leq 22$ s. No correction for focal depth is used in the M_S calculation. Body-wave magnitudes are not determined from PKP arrivals or for stations having $\Delta \leq 5°$. Amplitude values stated in this report are in nanometers (nm) for body-waves and micrometers (μm) for surface-waves.

The travel-time residual (observed – computed) is based on the 1940 Jeffreys-Bullen P and 1968 Bolt PKP travel-time tables. Phases not used in the computation are marked by an X. The azimuth from the epicenter to the station is measured clockwise from north. The epicentral distance is the central angle in degrees.

The pulse distortion of seismic phases that have ray paths that touch a single internal caustic (*e.g.*, PP, pPP, SS and PKPab) can be corrected using the method of Hilbert transformation described by Choy and Richards (1975). Arrival times that are read from the phases that are corrected for pulse distortion are identified by the symbol H preceding the phase identifier (*e.g.*, HPP, HpPP, HSS and HP′ab).

Hypocenter Symbols

& Indicates that parameters of the hypocenter were supplied or determined by a computational procedure not normally used by the National Earthquake Information Service (NEIS). The source or nature of the determination is indicated by a 2 to 5 letter code enclosed by angle brackets and appearing in the first line of comments. A "-P" appended to the code indicates that the computation is preliminary. These codes are included with the list of abbreviations in the PDE Monthly Listing.

% Indicates a single network solution. A non-furnished hypocenter has been computed using data reported by a single network of stations for which the date and/or origin time cannot be confirmed from seismograms available to a NEIS analyst. Also, if we define η to be the geometric mean of the semi-major and semi-minor axes of the horizontal 90% confidence ellipse, then $\eta \leq 16.0$ km.

* Indicates a less reliable solution. In general, $8.5 < \eta \leq 16.0$ km.

? Indicates a poor solution, published for completeness of the catalog. In general, $\eta > 16.0$ km. This includes poor solutions computed using data reported by a single network.

The lack of any symbol indicates that $\eta \leq 8.5$ km.

Note: On printers available to the NEIS for this publication, the symbol for degrees (°) appears as "`". Also note that certain phase codes are abbreviated because the data base and file format limit the length of the codes to five characters. Thus, PKP is occasionally abbreviated to P′ and the numbers 2 and 3 are sometimes used to represent the AB (AC for SKKS) and BC branches of core phases, respectively. In some codes, R is used to represent repetition; for example, pRPKP represents the phase pPKPPKP and RRPG represents PgPgPg.

References

Bolt, Bruce A. (1968), Estimation of PKP Travel Times, *Bull. Seis. Soc. Am.*, **58**, pp. 1305–1324.

Choy, George L. and P. G. Richards (1975), Pulse Distortion and Hilbert Transformation in Multiply Reflected and Refracted Body Waves, *Bull. Seis. Soc. Am.*, **65**, pp. 55–70.

Gutenberg, B. and C. F. Richter (1956), Magnitude and Energy of Earthquakes, *Ann. di Geofisica*, **9**, no. 1, pp. 1–15.

Jeffreys, Harold and K. E. Bullen (1940), *Seismological Tables*, British Assoc. for the Advancement of Science, Gray Milne Trust.

Jordan, Thomas H. and Keith A. Sverdrup (1981), Teleseismic Location Techniques and their Application to Earthquake Clusters in the South-Central Pacific, *Bull. Seis. Soc. Am.*, **71**, pp. 1105–1130.

```
RES    60.23 359 eP    52 25.00  -0.8
        1.0s     4.00nm          4.5mb
LKO    85.07  81 P     54 52.87  -0.5
        1.0s    12.50nm          5.1mb
HYB   147.22  15 ePKP  02 00.00   0.9
GBA   150.52  19 PKP   02 09.00   4.8X
     S.D. = 1.1  on  32 of  36 obs.
-----------------------------------------
   OCT  16, 1993  07h 54m 04.15± 0.70s
   57.998 N ± 6.4km  143.305 W ± 3.4km
   DEPTH =  10.0km  (geophysicist)
 GULF OF ALASKA                    ( 15)
      ML 3.0 (AEIC).

MID     2.14 313 P     54 41.40   1.1
HMT     2.40 349 eP    54 44.47   0.4
YAH     2.51  18 eP    54 46.43   0.6
                eS     55 14.73
SGAM    2.69 340 eP    54 48.97   0.6
                eS     55 18.88
CRQM    2.77   2 eP    54 49.45  -0.1
TGL     2.78   5 eP    54 49.55   0.0
                eS     55 19.00
CVA     2.85 335 iP    54 50.53   0.1
HIN     2.91 327 eP    54 51.85   0.4
MTU     3.01 313 eP    54 53.12   0.4
BALM    3.09   9 eP    54 54.02   0.1
                eS     55 26.59
LTI     3.12 313 eP    54 54.48   0.2
CTGM    3.14  18 eP    54 55.00   0.3
                eS     55 28.88
FID     3.20 331 eP    54 55.45   0.0
                eS     55 31.21
GLB     3.47 356 iP    54 58.93  -0.3
VZW     3.49 333 eP    54 59.18  -0.4
VLZ     3.50 335 eP    54 59.11  -0.5
KLU     3.75 340 eP    55 02.80  -0.5
SEW     3.81 306 eP    55 04.10   0.0
PWL     3.85 320 eP    55 03.62  -1.1
CFI     3.92 327 eP    55 05.30  -0.3
MPA     3.99 311 eP    55 06.55   0.0
TZL     4.20 346 eP    55 09.83   0.2
KNK     4.31 325 eP    55 11.32   0.1
SCM     4.35 334 eP    55 11.34  -0.5
SLKM    4.35 308 eP    55 12.04   0.2
TOA     4.36 342 P     55 12.10   0.1
SIT     4.40  99 eP    55 12.32  -0.2
PMS     4.55 318 P     55 14.30  -0.3
SML     4.58 329 eP    55 14.82  -0.3
PLRM    4.65 323 eP    55 15.98  -0.1
SDG     4.68 347 eP    55 16.53   0.0
GHO     4.73 326 eP    55 17.23   0.0
PWA     4.94 321 P     55 20.20   0.1
BC3     5.14   8 eP    55 22.73  -0.3
     S.D. = 0.4  on  34 of  34 obs.
-----------------------------------------
%  OCT  16, 1993  08h 01m 06.44± 1.45s
   18.263 N ± 8.4km  101.023 W ±12.6km
   DEPTH =  33.0km  (normal)
 GUERRERO, MEXICO                  ( 59)

MRX     1.44 354 iPd   01 30.61   0.2
                iS     01 47.11
III     1.48  85 iPc   01 30.82  -0.4
                iS     01 48.93
CRX     1.71  48 iP    01 34.57   0.0
                (S)    01 50.00
ACX     1.78 141 iP    01 34.95  -0.4
                iS     01 59.00
UNM     2.04  58 iP    01 39.00  -0.4
                (S)    02 02.00
IIP     2.27  61 iP    01 38.80  -3.9X
                (S)    02 02.00
IIA     2.41  68 iP    01 44.47   0.1
                (S)    02 12.84
PPM     2.41  70 iP    01 44.64  -0.2
                (S)    02 12.03
CGX     2.72 302 (P)   02 05.50  16.6X
                (S)    02 34.00
IISM    3.53  78 iP    02 00.73   0.4
AGX     3.79 342 (P)   01 48.50 -15.4X
                (S)    02 17.00
OXX     4.26 105 iP    02 11.80   0.9
     S.D. = 0.5  on   9 of  12 obs.
-----------------------------------------
*  OCT  16, 1993  08h 09m 36.98± 0.76s
   26.145 S ± 7.6km   27.282 E ± 9.6km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA          (584)
      ML 3.6 (PRE). mbLg 3.4 (BUL).

BFS     0.87 211 iPd   09 54.60   0.3
                S      10 06.20
SLR     0.99  66 iPc   09 56.70   0.4
                S      10 07.90
SEK     2.19 172 eP    10 13.40  -1.3
                S      10 36.80
BFT     2.53  80 eP    10 24.00   4.4X
                S      10 55.00
BLF     3.11 198 eP    10 28.80   1.1
                S      11 04.20
BUL     6.10  12 iPn   11 10.00  -0.1
                iSn    12 19.00
                iSg    12 52.00
GRM     7.17 185 e(P)  11 21.00  -4.1X
POF     7.25 242 eP    11 32.00   5.8X
                S      13 04.00
SUR     8.40 221 eP    11 37.80  -4.6X
                S      13 15.00
KRI     9.52  14 iPn   11 52.30  -5.6X
                iSn    13 36.20
                iSg    14 30.60
WIN     9.94 289 eP    12 03.50  -0.3
                S      13 43.50
CER     9.99 222 e(P)  11 59.90  -4.4X
                S      13 42.20
     S.D. = 1.0  on   6 of  12 obs.
-----------------------------------------
*  OCT  16, 1993  08h 39m 11.37± 1.20s
   21.300 S ± 8.8km   70.016 W ±13.3km
   DEPTH = 130.9 ± 13.3 km
   4.4mb (  2 obs.)
 NEAR COAST OF NORTHERN CHILE      (122)

YJA     4.28 102 ePc   40 15.00  -1.3
HJA     4.68 115 ePd   40 21.10   0.0
CNCB    4.86  24 iPc   40 25.20   1.1
LPB     5.08  21 Pc    40 28.30   1.4
LPAZ    5.30  20 iPc   40 31.10   1.0
CCH     5.35  44 P     40 29.80  -0.7
SLA     5.38 130 eP    40 31.00   0.2
RTRS    8.85 177 e(P)  41 19.00   1.5
NNA    11.33 324 eP    41 48.00  -2.6
                eS     43 54.70
PPD    17.40  96 eP    43 06.03  -1.6
RSTA   19.60 104 eP    43 30.50  -1.3
BDFB   21.60  79 ePd   43 52.94   0.9
        0.4s     9.66nm          4.5mb
BAO    21.63  79 eP    43 51.90  -0.4
SOB1   30.49  71 (P)   45 14.00  -0.2
ALQ    65.77 328 (P)   49 58.00  13.4X
                e      50 13.00
LKO    70.27  71 P     50 14.79   2.0
        0.4s     2.00nm          4.2mb
WRA   132.59 212 PKP   58 21.40   8.6X
        0.7s     0.40nm
     S.D. = 1.5  on  15 of  17 obs.
-----------------------------------------
?  OCT  16, 1993  08h 41m 40.74± 1.59s
   39.076 N ± 8.6km   27.734 E ±19.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.7 (ISK).

IZM     0.77 209 ePg   41 55.80   0.0
                eSg    42 09.10
EDC     1.27   4 ePn   42 04.00  -0.4
EZN     1.32 305 ePn   42 05.00  -0.1
KGT     1.41 347 iPn   42 07.00   0.5
     S.D. = 0.7  on   4 of   4 obs.
-----------------------------------------
?  OCT  16, 1993  09h 17m 41.02± 1.47s
   39.119 N ± 8.0km   27.759 E ±17.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.9 (ISK).

IZM     0.82 208 ePg   17 56.90   0.0
                eSg    18 10.60
EDC     1.23   4 ePn   18 04.00   0.1
EZN     1.31 303 iPn   18 05.40   0.1
KGT     1.38 345 ePn   18 05.50  -0.7
MFT     1.71 348 iPn   18 11.50   0.5
     S.D. = 0.6  on   5 of   5 obs.
-----------------------------------------
*  OCT  16, 1993  09h 26m 38.78± 1.64s
   13.925 N ±22.9km   93.113 W ± 8.9km
   DEPTH =  33.0km  (normal)
   4.1mb (  4 obs.)
 OFF COAST OF CHIAPAS, MEXICO      ( 68)
      MD 4.3 (GCG).

BVA     2.51  73 iPd   27 18.77   0.3
                eS     27 47.64
GCG     2.59  75 eP    27 19.95   0.5
IXG     2.59  84 eP    27 19.57   0.1
SCX     2.83   9 iP    27 22.50  -0.2
                iS     27 55.00
YUP     3.22  85 eP    27 28.02  -0.4
OXX     4.69 313 iP    27 55.00   5.8X
                (S)    28 46.00
IISM    6.49 321 (P)   28 50.00  35.6X
PPM     7.36 315 (P)   28 27.00  -0.1
III     7.54 307 (P)   28 29.50   0.1
LTX    18.18 329 eP    30 50.83   0.3
MIAR   20.53 359 (P)   31 17.72   0.7
        1.0s    14.74nm          4.3mb
                e      31 23.05
ALQ    24.15 332 (P)   31 53.20   0.1
        1.0s     2.50nm          3.7mb
TUC    24.41 322 eP    31 57.93   2.4
        1.0s     3.36nm          3.9mb
PV08   28.14 334 eP    32 30.06  -0.3
LRM    35.74 337 eP    33 35.80  -1.0
YKA    50.86 347 eP    35 35.80  -2.4
        0.6s     3.60nm          4.5mb
GBA   151.09  19 PKP   46 31.00   6.1X
     S.D. = 1.1  on  14 of  17 obs.
-----------------------------------------
   OCT  16, 1993  09h 33m 38.98± 0.41s
   14.349 N ± 6.9km   92.897 W ± 4.5km
   DEPTH =  33.0km  (normal)
   4.9mb ( 25 obs.)  4.4Msz (  2 obs.)
 NEAR COAST OF CHIAPAS, MEXICO     ( 69)
      MD 4.5 (GCG).

TPX     0.83  48 iPd   33 57.38   3.2
                iS     34 11.00
BVA     2.21  82 ePd   34 16.88   2.5
                eS     34 44.01
PCG     2.22  89 iPd   34 16.73   2.3
GCG     2.30  84 ePd   34 18.94   3.4X
IXG     2.37  94 eP    34 17.53   0.9
                eS     34 48.33
SCX     2.39   6 iPc   34 22.15   5.6X
                iS     34 51.29
YUP     3.00  92 ePc   34 27.45   1.9
                eS     35 05.73
OXX     4.58 307 iP    34 48.08   0.1
                iS     35 43.00
IISM    6.30 318 iP    35 11.93  -0.1
                (S)    36 24.00
LVVM    6.34 328 (P)   35 09.52  -3.1X
ACX     7.16 291 (P)   35 24.00  -0.1
PPM     7.22 311 iP    35 26.27   0.8
                (S)    36 53.00
IIA     7.30 312 iP    35 27.38   1.4
III     7.47 303 iP    35 27.00  -1.7
                (S)    36 55.00
IIP     7.61 312 eP    35 29.00  -1.7
                (S)    36 54.00
UNM     7.79 310 (P)   35 34.00   0.7
CRX     8.21 309 (P)   35 41.00   1.9
MRX     9.55 305 iP    35 58.27   0.9
CGX    11.42 299 (P)   36 24.00   0.9
AGX    11.66 311 (P)   36 29.00   2.9
LTX    17.93 328 eP    37 48.59   1.0
UYO    19.78 356 iPd   38 07.60  -1.8
MIAR   20.12 358 eP    38 11.66  -1.3
        1.3s   126.32nm          5.1mb
OXF    20.32   8 eP    38 14.89  -0.1
MEO    20.98 347 iPc   38 20.00  -1.9
WMOK   20.98 346 eP    38 20.94  -1.0
        0.8s    47.29nm          4.9mb
                eS     42 12.91
PWLA   21.00  11 eP    38 21.67  -0.3
FNO    21.21 350 iPd   38 24.30   0.1
OCO    21.48 350 iPc   38 29.00   2.1
TUL    21.63 354 iP    38 30.10   1.7
SGS    21.88  29 eP    38 27.69  -3.2X
MYNC   22.10  19 eP    38 31.92  -1.2
```

16d 09h

```
        0.8s    24.60nm          4.7mb
SDV     22.46 102 ePc   38 37.80   0.7
ACO     22.95 347 iPd   38 41.40  -0.1
TOV     23.04  99 eP    38 43.50   1.0
ELC     23.07   7 eP    38 41.88  -0.8
ALQ     23.87 332 eP    38 51.28   0.6
        0.9s    36.06nm          4.9mb
TUC     24.21 321 eP    38 55.50   1.7
        1.4s    97.57nm          5.2mb
CEH     24.77  28 eP    38 57.49  -1.6
        1.1s   113.57nm          5.4mb
NAV     25.29  23 eP    39 03.12  -0.9
CBN     27.45  27 eP    39 23.00  -0.9
GLD     27.52 339 eP    39 25.51   0.7
        1.2s    18.25nm          4.6mb
PV08    27.86 333 eP    39 28.96   0.9
PV10    27.87 332 eP    39 27.29  -0.8
PV09    28.01 332 eP    39 29.77   0.4
PLM     28.83 315 eP    39 36.95   0.3
SRU     29.15 331 ePc   39 39.61   0.1
PEC     29.35 316 eP    39 41.08  -0.1
        1.0s    10.73nm          4.5mb
MSU     29.49 328 eP    39 42.74   0.1
ARUT    29.62 326 ePc   39 44.81   1.1
EMUT    29.85 332 ePc   39 46.17   0.4
DAU     30.53 332 eP    39 52.53   0.6
DUG     31.09 330 eP    39 56.79   0.1
        1.3s     9.73nm          4.5mb
TBR     31.25  28 eP    39 55.89  -2.0
BINY    31.37  25 eP    39 57.15  -1.8
        0.6s     9.81nm          4.8mb
HVU     32.31 332 eP    40 08.04   0.7
BONR    32.55 321 eP    40 10.13   0.5
RSNY    33.92  24 eP    40 19.29  -1.8
        0.8s    14.42nm          5.0mb
GAC     34.54  22 eP    40 25.00  -1.4
LRM     35.44 336 iPc   40 35.10   0.7
                e       43 08.50
ULM     35.88 357 eP    40 39.00   1.2
VGB     38.97 328 eP    41 04.70   0.9
LPAZ    39.06 140 P     41 04.20  -1.3
LPB     39.26 141 P     41 14.00   7.0X
NEW     39.30 334 eP    41 05.77  -0.8
        0.6s     9.07nm          4.7mb
CNCB    39.55 141 P     41 09.10  -0.4
LON     40.34 329 eP    41 15.44   0.3
CCH     41.13 139 P     41 21.00  -1.2
GMW     41.37 329 eP    41 22.82  -0.8
YKA     50.49 347 eP    42 35.00  -0.6
        0.7s    27.30nm          5.4mb
BAO     53.46 122 eP    42 55.50  -3.2X
                e       43 02.60
SOB1    56.64 111 eP    43 20.30  -1.4
INK     59.86 344 eP    43 43.00  -0.4
        0.9s    11.00nm          5.0mb
KLU     60.28 334 eP    43 46.01  -0.5
RES     60.34 359 eP    43 46.00  -0.6
        0.9s     8.00nm          4.8mb
FBA     62.58 337 ePc   44 00.46  -1.4
        0.9s     6.44nm          4.8mb
CRP     62.93 332 eP    44 02.97  -1.5
CP2     62.97 332 eP    44 03.54  -1.2
TTA     65.20 333 eP    44 17.04  -2.1
        1.2s     9.13nm          4.7mb
EKA     78.19  36 Pc    45 35.40  -1.2
        0.7s     5.00nm          4.6mb
NB2     84.25  28 P     46 07.80  -0.7
        0.9s     7.80nm          4.9mb
LKO     85.10  81 P     46 12.88  -0.7
        0.9s    31.00nm          5.5mb
HFS     85.72  29 eP    46 15.00  -0.7
        0.4s     1.70nm          4.6mb
      Z 20s      0.27um          4.6Msz
                LR      17 09.00
TIC     86.33  84 PKP   46 19.64   0.0
        0.8s     7.00nm          4.9mb
LIC     86.43  85 P     46 20.36   0.2
        1.0s    22.00nm          5.3mb
      Z 20s      0.10um          4.2Msz
KIC     86.67  84 PKP   46 21.48   0.2
        1.0s    20.00nm          5.3mb
KHC     89.71  39 eP    46 35.50   0.2
GEC2    89.89  39 P     46 36.00  -0.2
        0.9s     2.39nm          4.4mb
                e       46 42.30
PRU     89.97  38 eP    46 37.00   0.6
WR2    134.61 256 ePKP  52 55.80  -0.8
```

```
        0.8s     2.00nm
WRA    134.63 256 PKP   52 57.00   0.3
        0.8s     0.80nm
POO    144.81  22 ePKP  53 15.50   0.4
HYB    147.33  15 ePKPc 53 21.00   1.7
        1.0s    60.00nm
GBA    150.62  19 PKP   53 30.00   5.7X
     S.D. = 1.2  on  87 of  94 obs.
-----------------------------------
%  OCT  16, 1993  09h 55m 01.96± 2.30s
   18.303 N ±19.8km   66.222 W ±10.5km
   DEPTH =  80.0 ± 18.1 km
 PUERTO RICO REGION                ( 90)

SJG      0.20 160 iP     55 14.00  -0.9
LPR      0.34  89 P      55 15.00   0.3
CPD      0.39 132 P      55 15.40   0.4
CLLP     0.40 237 P      55 15.30   0.2
PORP     0.47 238 P      55 15.60   0.0
APR      0.50 287 P      55 16.00   0.1
MCP      0.85 278 P      55 19.10  -0.4
                  S      55 31.40
MGP      0.88 250 P      55 20.00   0.2
MORO     7.66 196 eP     56 53.90   0.8
                  iS     58 11.30
OLLA     8.25 184 eP     57 00.40  -0.9
     S.D. = 0.7  on  10 of  10 obs.
-----------------------------------
*  OCT  16, 1993  10h 13m 01.39± 1.90s
   13.775 N ±21.5km   93.385 W ±10.8km
   DEPTH =  33.0km  (normal)
   4.3mb (  1 obs.)
 OFF COAST OF CHIAPAS, MEXICO      ( 68)
      MD 4.5 (GCG).

TPX      1.56  44 iP     13 26.50  -0.7
BVA      2.81  71 eP     13 45.33   0.1
IXG      2.87  82 ePd    13 45.92  -0.1
                  eS     14 21.34
SCX      3.03  14 iP     13 49.00   0.9
                  iS     14 20.00
YUP      3.50  83 ePd    13 55.03   0.0
OXX      4.60 316 eP     14 18.00   7.3X
                  (S)    15 10.00
PPM      7.28 317 eP     14 53.00   4.3X
LTX     18.18 330 (P)    17 11.73  -1.3
                  e      17 18.50
PV08    28.16 334 (P)    18 53.70   0.5
LRM     35.78 337 eP     20 02.10   2.4X
YKA     50.94 348 eP     22 02.20   0.7
        0.8s     2.90nm          4.3mb
     S.D. = 0.9  on   8 of  11 obs.
-----------------------------------
%  OCT  16, 1993  10h 35m 23.51± 1.26s
   39.101 N ± 7.4km   27.652 E ±16.5km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.7 (ISK).

IZM      0.77 204 ePg    35 38.50   0.0
                  eSg    35 51.50
EDC      1.25   7 ePn    35 47.00   0.2
EZN      1.26 306 ePn    35 46.90   0.1
KGT      1.38 349 iPn    35 49.00   0.3
MFT      1.71 351 ePn    35 53.00  -0.5
     S.D. = 0.5  on   5 of   5 obs.
-----------------------------------
%  OCT  16, 1993  10h 39m 55.27± 1.12s
   41.159 N ±12.1km   28.479 E ± 8.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.7 (ISK).

CTT      0.04 252 iPg    39 56.00  -1.4
DMK      0.86 321 ePg    40 12.40   0.6
                  eSg    40 23.90
HRT      0.96 110 ePg    40 14.00   0.4
MFT      0.98 248 ePn    40 14.50   0.6
KGT      1.14 232 ePn    40 18.00   1.4
     S.D. = 1.5  on   5 of   5 obs.
-----------------------------------
   OCT  16, 1993  10h 52m 25.90± 0.20s
    7.472 N ± 3.7km  123.447 E ± 5.1km
   DEPTH =  30.8km  ( 10 depth phases)
   5.5mb ( 53 obs.)  5.4Msz ( 34 obs.)
 MINDANAO, PHILIPPINE ISLANDS      (259)
      Mw 5.8 (HRV).
```

```
   CENTROID, MOMENT TENSOR     (HRV)
   Data Used: GDSN
   L.P.B.: 43S, 94C
   Centroid Location:
   Origin Time       10:52:30.3 0.2
   Lat  7.72N 0.02 Lon 123.26E 0.03
   Dep  15.0 FIX Half-duration  1.9
   Moment Tensor;   Scale 10**17 Nm
     Mrr= 3.28 0.09  Mtt= 1.99 0.11
     Mff=-5.27 0.13  Mrt=-2.71 0.25
     Mrf= 2.06 0.30  Mtf= 1.97 0.08
    Principal Axes:
     T  Val=  5.44  Plg=53  Azm=184
     N        1.09      33       331
     P       -6.53      16        72
   Best Double Couple:Mo=6.0*10**17
    NP1:Strike=199 Dip=41 Slip= 146
    NP2:        317     68        55

CTB      0.79 110 eP     52 44.00   3.2X
                  eS     52 48.00
DAV      2.15 100 iP+    53 02.00   1.7
MAP      2.88  11 iPc    53 11.00   0.3
                  eS     53 55.00
PLP      3.97  22 ePc    53 24.70  -1.5
                  iS     53 43.50
PPR      5.19 296 iPd    53 17.00 -26.6X
                  iS     54 43.00
TSM      6.38 241 eP     54 00.50   0.2
        0.7s   265.90nm          6.1mb
GQP      6.47 351 ePc    54 02.50   1.0
PGP      6.47 338 eP     54 01.00  -0.6
TGY      7.04 340 ePc    54 10.00   0.4
KKM      7.32 259 ePd    54 18.00   4.4X
        1.0s   193.90nm          6.1mb
                  e      55 36.50
QCP      7.49 342 eP     54 32.00  16.2X
QVP      7.50 342 ePd    54 18.00   2.0
BCP      9.31 343 eP     54 45.00   3.7X
BAG      9.32 343 eP+    54 41.60   0.2
        2.1s  1866.67nm          6.9mb X
                  e      56 32.00
HKC     17.24 330 eP     56 26.00  -0.1
QIZ     17.51 312 P      56 33.00   3.5X
     N  12s      8.64um
     E  12s      3.13um
QZH     17.98 346 P      56 34.00  -1.3
     Z  20s     19.90um
     N  18s     15.20um
GZH     18.31 329 iPd    56 41.00   1.6
     Z  16s     11.90um
     N  15s      8.95um
     E  13s     13.60um
KGM     20.77 256 ePd    57 08.40   1.4
LEM     21.24 228 e(P)c  57 12.50   0.5
     Z  18s      6.60um          5.1Msz
                  eS     01 12.00
GUMO    21.91  72 iP-    57 21.10   2.6
        1.0s   132.10nm          5.3mb
                  e      57 41.90  98kmX
                  e      00 31.10
                  eS     01 20.90
GUA     21.94  72 eP-    57 21.50   2.6
        1.1s   111.39nm          5.2mb
IPM     22.48 264 ePc    57 25.40   1.2
        0.9s   148.90nm          5.5mb
WWKK    22.95 118 eP     57 30.00   1.1
SSE     23.60 355 Pc     57 33.00  -2.0
        1.2s    75.00nm          5.1mb
     Z  16s      6.60um          5.2MszX
     N  14s      3.90um
     E  14s      6.80um
                  S      01 44.00
WHN     24.48 341 ePd    57 45.80   2.2
        1.8s   410.00nm          5.7mb
     E  15s     11.30um
                  sP     58 01.50
                  S      02 06.00
GYA     24.73 322 iPc    57 47.00   0.9
        1.4s   330.00nm          5.7mb
     Z  14s     10.20um          5.5MszX
     N  12s      5.83um
     E  12s      6.21um
                  PP     58 26.00
NJ2     24.83 351 Pc     57 45.00  -1.9
        0.8s    43.00nm          5.1mb
     Z  24s      4.39um          4.9MszX
```

```
     N  13s     8.21um
     E  12s     2.39um
KMI    26.44 314 Pc     58 03.00   0.6
       1.2s   170.00nm          5.5mb
     Z  18s    11.90um          5.5Msz
     N  15s     9.60um
     E  11s     2.70um
                pP     58 12.00  32km
                sP     58 16.00
                S      02 39.00
                SS     03 52.00
MBL    28.67 187 iPc    58 21.80  -0.5
PMG    28.97 125 eP     58 25.00  -0.1
KVG    29.08 109 eP     58 25.50  -0.5
TIA    29.18 349 eP     58 26.50  -0.3
       1.2s    80.00nm          5.3mb
     Z  23s     8.79um          5.3MszX
     E  13s     3.32um
                eS     03 09.00
WR2    29.29 159 eP     58 25.20  -2.7
       0.5s    26.40nm          5.2mb
XAN    29.65 335 P      58 29.00  -2.0
       2.0s   140.00nm          5.4mb
     Z  20s    10.70um          5.5Msz
     N  14s     2.74um
     E  14s     6.21um
                S      03 27.00
                sS     03 48.00
CD2    29.72 324 iPc    58 30.30  -1.4
       1.4s   540.00nm          6.1mb
     Z  18s    12.30um          5.6Msz
     E  15s    20.10um
                S      03 25.00
DL2    31.34 357 eP     58 44.00  -1.8
     Z  19s     2.75um          4.9Msz
     E  16s     7.60um
TIY    31.72 343 eP     58 47.90  -1.4
     Z  20s     9.35um          5.5Msz
     E  17s     7.06um
                S      03 57.00
ASPA   32.59 162 iPc    58 55.60  -1.4
       0.9s    48.80nm          5.4mb
     Z  18s     4.30um          5.2Msz
BJI    33.08 350 eP     59 01.00   0.0
       1.3s    18.00nm          4.8mb
     Z  22s     4.62um          5.1Msz
     E  15s     4.59um
                ePP    00 08.00
                eS     04 12.00
LZH    33.65 331 eP     59 06.00  -0.3
       2.0s   370.00nm          6.0mb
     Z  15s    11.80um          5.7MszX
     N  13s     3.77um
                pP     59 17.00  40km
                eS     04 32.00
                PcS    05 32.50
SNY    34.21   0 Pc     59 08.50  -2.3
     Z  18s     6.16um          5.4Msz
     N  18s     6.40um
HHC    34.88 344 Pd     59 15.00  -1.8
       1.0s    26.00nm          5.1mb
     Z  20s     7.85um          5.5Msz
     N  18s     3.67um
     E  15s     3.07um
BTO    35.10 342 P      59 18.00  -0.6
     N  12s     0.79um
     E  14s     4.93um
CTA    35.41 141 iPc    59 20.50  -0.8
       1.9s   210.53nm          5.7mb
     Z  24s    18.60um          5.8MszX
                ipP    59 30.00  32km
                eS     04 45.00
                e      05 00.00
                eSS    06 57.00
CN2    36.23   2 eP     59 29.00   1.0
       1.0s     7.00nm          4.5mb
     Z  22s     2.90um          5.0Msz
     N  14s     3.15um
     E  14s     1.47um
                epP    59 36.00  24km
                ePP    00 53.00
                eS     05 07.00
VLA    36.27  10 iPc    59 30.00   1.6
       2.2s   187.00nm          5.6mb
                ipP    59 43.00  49kmX
                i      00 54.00
                iS     05 11.00
```

```
                iSS    08 03.00
MRWA   37.18 191 eP     59 35.70  -0.4
MDJ    37.39   7 eP     59 37.00  -0.7
       1.1s    36.00nm          5.1mb
     N  16s     3.97um
     E  15s     4.43um
                PP     01 08.00
                S      05 25.00
LSA    37.54 310 P      59 36.10  -3.6X
       1.0s    36.00nm          5.2mb
     Z  20s     4.38um          5.3Msz
     N  13s     0.83um
     E  15s     1.69um
                PP     01 10.00
                S      05 32.00
                eSS    08 00.00
GTA    38.23 330 Pc     59 44.80  -0.3
       1.5s    58.00nm          5.2mb
     Z  18s    11.40um          5.7Msz
     E  15s     5.30um
                pP     59 53.00  28km
                PP     01 22.50
                PcP    02 01.00
                eS     05 38.00
                ScP    05 44.00
FORT   38.29 174 iPc    59 45.20  -0.2
       0.5s    91.00nm          5.9mb
YSS    42.72  19 eP+    00 21.10  -0.7
     Z  18s     1.70um          5.0Msz
     N  18s     1.80um
                e      00 28.00  23km
                eS     06 49.00
                eSSS   10 30.00
STK    42.80 157 iPc    00 22.50  -0.1
       0.8s    27.00nm          5.0mb
KUR    43.16  25 eP     00 16.00  -9.4X
     Z  20s     3.20um          5.2Msz
     N  20s     6.30um
     E  20s     3.20um
                eSS    09 58.00
ADE    44.60 162 iPc    00 38.10   0.8
CIT    45.12 351 eP     00 44.00   2.7
GBA    45.59 282 P      00 46.00   0.7
ARMA   46.37 146 iPc    00 51.00  -0.5
       0.9s    25.00nm          5.2mb
IRK    47.34 344 eP     00 57.00  -1.8
       3.0s   198.00nm          5.6mb
     Z  18s     3.08um          5.3Msz
     N  16s     2.39um
     E  14s     2.24um
                e      01 11.00  53kmX
                e      02 30.00
                e      02 53.20
                e      10 42.00
WMQ    47.81 325 iPd    01 03.00   0.4
       2.0s    67.00nm          5.3mb
     Z  20s     5.88um          5.6Msz
     N  14s     3.08um
                pP     01 15.00  43kmX
                sP     01 20.00
                PcP    02 30.00
                PP     02 58.00
                S      08 02.00
BWA    47.90 152 eP     01 04.90   1.5
                e      02 56.20 626kmX
RIV    48.76 149 eP+    01 13.40   3.5X
                eS     08 26.00
CAN    48.91 152 iPc    01 11.40   0.2
                e      02 06.80 258kmX
                e      03 02.40
CNB    49.08 152 eP     01 13.40   0.9
       0.8s    23.00nm          5.3mb
TOO    49.32 157 iPc    01 14.80   0.5
       0.8s    37.00nm          5.5mb
UER    50.18 337 iP     01 20.00  -0.6
       2.0s   210.00nm          5.8mb
     Z  16s     2.06um          5.2MszX
     N  13s     2.00um
     E  16s     4.15um
                e      02 40.00 395kmX
                e      03 18.00
                PPP    04 20.00
                eS     08 31.50
                PS     08 40.00
                e      11 00.00
                SS     12 00.00
BKM    50.81 120 iPc    01 26.50   0.6
```

```
DZM    51.36 126 iPd    01 29.50  -0.6
KSH    53.08 314 P      01 44.00   1.1
       1.0s    58.00nm          5.5mb
     Z  20s     6.22um          5.7Msz
     N  18s     6.72um
     E  18s     6.33um
                pP     01 54.00  33km
                sP     01 58.00
                PcP    02 48.00
                PP     03 48.00
                ScP    06 42.00
                PcS    06 46.00
                sS     09 33.00
                ScS    11 27.00
                eSS    12 54.00
PET    53.67  26 eP     01 48.00   1.2
     Z  20s     2.30um          5.2Msz
     E  20s     1.50um
                e      02 56.00 318kmX
                eS     09 22.00
                eSS    12 52.00
TLG    53.78 319 eP     01 48.00   0.1
       3.1s   125.00nm          5.4mb X
     Z  17s     1.50um          5.1MszX
     N  16s     2.10um
     E  14s     1.30um
                e      02 53.00 302kmX
                eS     09 22.00
YAK    54.63   4 eP     01 51.50  -2.2
       1.2s   100.00nm          5.7mb
     Z  20s     2.70um          5.3Msz
     N  21s     2.40um
                e      02 58.00 308kmX
                eS     09 28.00
                e      11 36.00
FRU    55.41 318 eP     02 02.00   2.2
       3.0s   760.00nm          6.2mb
     Z  23s     2.60um          5.2MszX
     N  23s     5.60um
     E  22s     4.30um
                e      03 04.20 284kmX
                e      04 06.00
                (S)    09 42.00
TIK    64.18   2 iPd    02 58.00  -1.5
       2.5s   296.00nm          6.0mb
     Z  18s     5.00um          5.7Msz
                e      05 25.00
                iS     11 35.00
                ePS    12 13.00
ASH    65.84 308 P      03 12.00   1.2
                e      12 04.00
NRI    65.98 347 ePd    03 08.00  -3.1X
     Z  19s    19.00um          6.3Msz
     E  20s    13.00um
                i      03 24.00  59kmX
                e      03 39.00
                eS     11 58.00
                ePPS   12 38.00
THZ    66.64 142 P      03 14.30  -1.6
LTZ    66.84 143 P      03 16.10  -1.1
MRW    67.47 140 P      03 19.00  -2.1
URZ    67.49 137 P      03 20.20  -1.0
PGZ    68.14 139 P      03 24.60  -0.7
SVE    69.08 328 iPc    03 30.00  -0.8
       2.4s   520.00nm          6.2mb
                e      06 02.00
                eS     12 29.00
                e      13 10.00
ARU    70.02 328 eP     03 35.00  -1.6
     Z  16s     2.00um          5.5MszX
     N  16s     1.00um
     E  20s     1.50um
                e      03 46.00  36km
                eS     12 36.00
                e      13 36.00
ILT    71.38  20 iPd    03 46.00   1.4
     Z  20s     1.50um          5.3Msz
     E  20s     1.00um
                eS     13 00.00
                eSP    13 52.00
BAK    72.67 310 iPd    03 58.00   5.2X
PAF    73.12 213 eP     04 10.00  14.8X
                eS     13 50.00
CSY    74.17 185 eP     04 02.30   1.3
       0.8s    28.90nm          5.3mb
DRV    74.92 173 iP     04 03.00  -2.3
                S      14 30.00
```

16d 11h

```
TAB    75.30 307 iP+   04 09.00   0.7
GRO    76.01 313 eP-   04 12.00  -0.1
     Z  16s     1.00um          5.2MszX
     N  16s     7.00um
     E  18s     3.00um
                i       07 10.00
                iS      13 59.00
                esS     14 45.00
MTA    76.60 311 iP    04 15.20  -0.2
     N  19s     0.50um
     E  19s     0.50um
                i       04 19.80  15kmX
                eS      14 06.00
                ePS     14 33.00
                ePPS    14 55.00
ERE    76.78 309 iP+   04 17.00   0.4
       2.7s     1.00nm          3.4mb X
                iS      14 07.00
PYA    77.94 313 iP    04 22.00  -0.8
       1.3s   220.00nm          6.0mb
                e       07 20.00
                eS      14 18.00
                i       15 20.00
SVW    79.12  29 eP    04 28.70  -0.2
ARO    79.37 280 eP+   04 32.00   0.8
IMA    80.32  24 eP    04 35.54   0.1
SOC    80.36 313 iPc-  04 35.50  -0.4
       2.5s   430.00nm          6.0mb
                e       07 48.00
                e       14 40.00
CRP    80.80  29 eP    04 38.48   0.4
MOS    81.52 325 iPc   04 44.00   2.3
       2.0s   520.00nm          6.2mb
     Z  18s     4.30um          5.9Msz
                e       04 55.00  35km
                e       07 50.00
SLKM   81.74  30 eP    04 42.37  -0.5
PWA    81.90  29 eP    04 43.50   0.0
       1.2s    44.30nm          5.4mb
ANN    82.05 314 eP    04 46.00   1.3
     Z  14s     1.00um          5.3MszX
     N  22s     1.00um
     E  22s     2.00um
                e       07 59.00
                eS      14 56.00
OBN    82.12 325 iPd   04 45.00   0.2
       1.8s    60.00nm          5.3mb
     Z  18s     2.50um          5.6Msz
     E  20s     1.80um
                iS      14 56.00
                (SSS)   23 42.00
FBA    82.76  25 e(P)  04 49.30   1.3
CRZF   82.91 221 eP    04 53.00   3.9X
                eS      15 38.00
TOA    83.63  28 eP    04 54.10   1.5
SIM    84.31 314 eP    04 57.00   0.7
     Z  24s     2.00um          5.4MszX
                e       15 17.00
KAS    84.88 311 eP    05 00.00   0.7
SDF    85.86 337 iP    05 04.90   1.3
KAF    86.79 332 iP    05 08.80   0.6
       0.9s    54.20nm          5.8mb
NAI    86.84 268 P     05 12.00   2.3
     Z  20s     0.89um          5.2Msz
MNK    87.48 324 eP    05 10.00  -1.7
     Z  20s     2.90um          5.7Msz
                eS      15 32.00
NUR    87.87 331 iP    05 13.70   0.3
       1.0s    38.90nm          5.7mb
                eS      15 48.00
INK    87.89  21 eP    05 13.50   0.1
       1.0s     3.00nm          4.5mb
HLW    88.15 300 eP+   05 16.50   1.1
                epP     06 11.50 225kmX
                (S)     15 45.00
CFR    88.47 315 eP    05 14.50  -2.2
MLR    89.96 316 eP    05 23.00  -0.9
                e       08 27.00
CMP    90.63 316 ePd   05 35.00   8.1X
UPP    91.43 331 iP    05 29.70  -0.4
UZH    91.75 319 eP    05 35.00   3.1X
       2.2s   260.00nm          6.3mb
     Z  20s     1.80um          5.5Msz
                e       05 43.20  26km
                e       16 00.00
                iSP     17 52.00
HFS    93.20 332 eP    05 36.70  -1.7
       0.4s     0.80nm          4.4mb X
     Z  19s     2.08um          5.6Msz
                LR      45 08.00
SKO    93.89 313 iP    05 41.80  -0.1
NB2    94.00 333 P     05 41.10  -1.0
       1.6s    68.70nm          5.8mb
OHR    94.56 312 eP    05 44.80  -0.3
UZD    94.70 318 e(P)  05 44.00  -1.5
RES    94.71  10 eP    05 50.00   4.9X
KSP    94.91 323 eP    05 45.50  -0.9
PRU    96.24 322 P     05 53.50   1.0
       2.7s    97.20nm          5.8mb
     Z  19s     2.10um          5.6Msz
                e       09 55.50
BRG    96.30 323 eP    05 52.60  -0.2
       1.6s    42.00nm          5.7mb
                i       05 58.00  17kmX
CLL    96.71 324 iPc   05 58.50   3.9X
       2.7s   160.00nm          6.1mb
     Z  20s     1.50um          5.5Msz
BUL    97.05 251 eP    05 56.00  -0.8
KHC    97.12 321 eP    06 01.00   4.4X
     Z  18s     1.60um          5.5Msz
     N  18s     0.70um
     E  18s     1.60um
                e       06 38.50 146kmX
                e       09 54.00
                e       10 21.00
GEC2   97.14 321 PKP   05 56.20  -0.5
       1.3s     2.17nm          4.5mb
                e       05 58.40   7kmX
                e       06 00.60
                e       06 07.20
                e       09 11.90
YKA    97.42  23 eP    05 58.20   0.6
       0.9s     1.80nm          4.6mb
GRF    98.36 323 e(P)  06 01.80  -0.3
     Z  20s     1.00um          5.3Msz
                e       06 07.40  17kmX
                e(PP)   10 04.50
UYO   125.21  39 iPKPc 11 25.50  -0.1
LKO   126.49 288 PKP   11 27.29  -1.4
       1.1s    10.00nm
KIC   126.52 284 PKP   11 27.59  -1.2
       1.1s    25.00nm
TIC   126.72 284 PKP   11 28.31  -0.8
       0.8s     3.50nm
LIC   126.83 283 PKP   11 31.35   2.0
       1.0s    11.50nm
     Z  20s     0.81um          5.4Msz
RFA   150.70 160 ePKPd 12 13.00   1.6
SOB1  164.41 263 ePKP  12 27.30  -1.2
CNCB  165.48 131 PKP   12 31.20   1.2
                i       13 31.80
LPB   165.57 130 PKP   12 31.00   1.2
     Z  24s     1.55um
                LR      10 54.00
LPAZ  165.69 129 PKP   12 30.80   0.6
                i       13 31.40
                LR      11 00.00
CCH   166.42 137 ePKP  12 32.00   1.6
     S.D. = 1.2  on 129 of 147 obs.
-----------------------------------
*  OCT  16, 1993  11h 09m 15.50± 1.98s
   14.035 N ±24.1km   93.155 W ±10.0km
   DEPTH =  33.0km  (normal)
   4.0mb (  2 obs.)
 NEAR COAST OF CHIAPAS, MEXICO    ( 69)

TPX     1.22  45 iP    09 36.00  -0.4
BVA     2.52  75 eP    09 54.91  -0.4
IXG     2.62  87 eP    09 57.11   0.5
                eS      10 27.92
SCX     2.73  11 iP    09 58.00   0.0
                iS      10 31.00
YUP     3.26  87 eP    10 02.08  -3.6X
OXX     4.58 312 eP    10 24.00  -0.5
                (S)     11 17.00
PPM     7.25 314 eP    11 02.00  -0.4
MIAR   20.42 359 (P)   13 53.30   0.7
       1.0s     5.06nm          3.8mb
ALQ    24.03 332 (P)   14 31.00   2.3
YKA    50.74 347 eP    18 12.20  -1.8
       0.7s     1.70nm          4.1mb
     S.D. = 1.3  on   9 of  10 obs.
-----------------------------------
&  OCT  16, 1993  11h 10m 10.50s
   60.005 N          152.740 W
   DEPTH = 107.6km
 SOUTHERN ALASKA                    (  2)
      <AEIC>.

ILIM    0.13 304 eP    10 24.92   0.8
                eS      10 37.03
INE     0.17 289 eP    10 25.39   1.0
                eS      10 37.20
RED     0.42 358 iP    10 26.09  -0.8
                eS      10 38.59
OPT     0.43 215 iP    10 26.12  -0.8
                eS      10 38.77
RSO     0.46 359 eP    10 26.62  -0.7
RS2     0.46 359 iP    10 26.63  -0.7
RDW     0.48 356 eP    10 26.68  -0.8
NCT     0.57 350 eP    10 27.04  -0.9
                eS      10 39.94
DFR     0.59   3 iP    10 27.32  -0.8
                eS      10 40.42
RDT     0.59  16 iP    10 27.21  -0.9
                eS      10 40.21
AUL     0.72 210 eP    10 28.17  -0.9
AUE     0.72 207 eP    10 28.25  -0.8
AUP     0.73 208 eP    10 27.99  -1.3
AGU     0.74 209 eP    10 28.43  -0.9
AUH     0.74 209 eP    10 28.39  -0.9
AUW     0.74 211 iP    10 28.38  -0.8
AUI     0.76 208 eP    10 28.31  -1.1
PDB     0.76 254 iP    10 28.56  -0.9
                eS      10 42.62
CNPM    0.90 122 iP    10 30.00  -0.8
                eS      10 44.98
BRLK    0.97 104 eP    10 30.94  -0.5
                eS      10 45.80
NKA     1.05  45 iP    10 33.32   1.0
BKG     1.09  12 iP    10 32.18  -0.7
                eS      10 48.97
CDD     1.17 204 iP    10 32.24  -1.5
CKL     1.21   9 iP    10 33.47  -0.8
                eS      10 51.88
SPU     1.23  16 eP    10 33.52  -0.9
                eS      10 51.18
CKT     1.23  12 eP    10 33.52  -0.9
CKN     1.25  12 eP    10 34.55  -0.1
BGL     1.27   8 eP    10 34.36  -0.6
CP2     1.29  11 eP    10 34.29  -0.9
CRP     1.30  13 eP    10 33.99  -1.3
SLKM    1.35  67 eP    10 34.49  -1.3
CGLM    1.36  15 iP    10 35.18  -0.7
NCG     1.43  11 eP    10 36.24  -0.6
SEW     1.65  85 eP    10 38.00  -1.4
MPA     1.75  72 eP    10 39.54  -1.1
PMS     2.00  50 P     10 42.70  -1.2
PWA     2.17  39 P     10 44.70  -1.3
PWL     2.35  67 eP    10 47.50  -0.9
PLRM    2.38  46 eP    10 47.63  -1.2
PMR     2.38  46 (P)   10 46.91  -1.9
LTI     2.45  87 eP    10 48.12  -1.7
KNK     2.54  54 eP    10 48.79  -2.2
GHO     2.57  45 eP    10 50.22  -1.3
CUT     2.69  25 eP    10 51.91  -1.0
SML     2.81  48 eP    10 52.40  -2.3
HIN     3.14  80 eP    10 57.62  -1.5
FID     3.20  74 eP    10 57.92  -1.9
FBA     5.42  23 eP    11 27.36  -2.9
ILB     5.50  27 eP    11 28.65  -2.8
IL1     5.50  27 eP    11 28.56  -2.8
      50 obs. associated
-----------------------------------
?  OCT  16, 1993  11h 48m 14.30± 1.71s
   13.600 N ±19.0km   92.926 W ±15.5km
   DEPTH =  33.0km  (normal)
   4.2mb (  2 obs.)
 OFF COAST OF CHIAPAS, MEXICO     ( 68)

TPX     1.45  26 iP    48 40.00   1.6
                iS      48 58.00
SCX     3.13   5 iP    49 01.00  -1.4
                iS      49 32.65
OXX     5.04 314 iP    49 33.00   3.2X
                (S)     50 26.00
IISM    6.85 322 (P)   49 58.00   2.9X
                (S)     50 50.00
LVVM    6.97 332 (P)   49 48.50  -8.3X
PPM     7.71 316 iP    50 07.00  -0.6
IIA     7.79 316 eP    50 09.49   1.2
```

```
III     7.88 308 (P)    50 05.00  -4.7X
UNM     8.28 314 (P)    50 31.00  15.7X
LTX    18.55 329 eP     52 29.45  -1.1
TUC    24.77 322 eP     53 36.61   2.0
        0.9s     4.28nm          4.0mb
PV08   28.51 334 eP     54 09.51   0.3
LRM    36.11 337 eP     55 15.40   0.0
YKA    51.21 347 eP     57 15.10  -1.3
        0.7s     3.00nm          4.4mb
INK    60.57 344 eP     58 23.50  -0.1
WRA   134.42 255 PKP    07 31.20  -0.4
        0.8s     0.40nm
GBA   151.34  20 PKP    08 12.00  11.3X
     S.D. = 1.3  on  11 of  17 obs.
-----------------------------------
%  OCT  16, 1993  12h 02m 15.02± 0.75s
   39.493 S ±10.1km  174.328 E ±10.6km
   DEPTH = 200.0km  (geophysicist)
 NORTH ISLAND, NEW ZEALAND          (159)

NRZ     0.34 297 P      02 43.60   2.0
BSZ     0.56 123 P      02 44.40   2.1
CNZ     0.99  73 P      02 46.00   0.9
NGZ     1.04  73 P      02 46.30   0.8
DIW     1.34 193 P      02 48.70   1.0
MNG     1.43 142 P      02 49.10   0.7
                 S      03 13.40
KIW     1.44 162 P      02 49.10   0.6
CAW     1.71 161 P      02 51.30   0.3
TCW     1.72 181 P      02 51.80   0.8
MRW     1.76 171 P      02 51.80   0.4
                 S      03 18.90
WEL     1.82 170 P      02 52.50   0.5
                 S      03 20.30
PGZ     1.87 128 P      02 52.70   0.2
MTW     1.89 152 P      02 52.80   0.1
QRZ     1.92 225 P      02 52.90  -0.1
BLW     2.07 155 P      02 54.50  -0.1
URZ     2.50  61 P      02 57.90  -1.3
                 S      03 29.10
THZ     2.51 205 P      02 59.60   0.1
                 S      03 32.50
NOZ     3.02  74 P      03 04.50  -0.8
PUZ     3.38  66 P      03 08.10  -1.6
                 S      03 47.00
LTZ     3.64 205 P      03 11.90  -0.9
                 S      03 54.40
HBZ     3.64  60 P      03 11.70  -1.2
MQZ     4.39 196 eP     03 20.90  -1.3
                 S      04 08.80
WVZ     4.49 216 eP     03 21.80  -1.6
ODZ     6.18 205 P      03 43.70  -1.6
     S.D. = 1.1  on  24 of  24 obs.
-----------------------------------
?  OCT  16, 1993  12h 10m 59.20± 5.31s
   10.929 N ±24.7km   62.205 W ±65.7km
   DEPTH =  80.0km  (geophysicist)
 NEAR COAST OF VENEZUELA            ( 97)
      MD 3.0 (TRN).

TCE     0.50 117 iP     11 13.12   0.0
                 eS     11 24.49
TRN     0.84 109 iP     11 16.56   0.0
                 eS     11 30.29
TBH     1.20 111 eP     11 21.03   0.0
                 eS     11 40.09
GRW     1.33  24 eP     11 22.82   0.0
                 eS     11 40.17
     S.D. = 0.0  on   4 of   4 obs.
-----------------------------------
?  OCT  16, 1993  12h 12m 38.39± 1.39s
   39.078 N ± 8.0km   27.651 E ±17.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)
      ML 2.7 (ISK).

IZM     0.74 204 ePg    12 53.00   0.0
                 eSg    13 05.70
EZN     1.27 306 ePn    13 01.90   0.0
EDC     1.28   7 ePn    13 02.00  -0.1
KGT     1.40 349 iPn    13 04.00   0.1
     S.D. = 0.1  on   4 of   4 obs.
-----------------------------------
?  OCT  16, 1993  12h 19m 35.54± 1.37s
   39.101 N ± 7.9km   27.649 E ±17.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)
      ML 2.7 (ISK).

IZM     0.76 203 ePg    19 50.50   0.0
                 eSg    20 04.00
EDC     1.26   7 ePn    19 59.00   0.1
EZN     1.25 306 ePn    19 58.90   0.1
KGT     1.38 349 iPn    20 00.50  -0.2
     S.D. = 0.3  on   4 of   4 obs.
-----------------------------------
%  OCT  16, 1993  12h 26m 06.70± 0.65s
   44.355 N ± 5.3km    7.299 E ± 6.2km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                     (545)
      ML 2.4 (GEN).

STV     0.11 171 P      26 09.81   0.1
                 S      26 11.87
ENR     0.16 146 P      26 10.40   0.0
                 S      26 13.06
PZZ     0.21 317 P      26 11.41   0.1
                 S      26 14.48
ROB     0.41  98 P      26 15.39   0.2
                 S      26 21.20
BHB     0.49 357 P      26 16.40  -0.2
                 S      26 22.62
IMI     0.62 136 P      26 18.78  -0.4
                 S      26 26.56
FIN     0.67 102 P      26 20.06   0.0
                 S      26 28.53
PCP     0.91  78 P      26 24.27   0.1
     S.D. = 0.2  on   8 of   8 obs.
-----------------------------------
*  OCT  16, 1993  12h 33m 37.98± 0.90s
   18.349 S ±15.4km  167.446 E ±14.0km
   DEPTH =  33.0km  (normal)
   4.0mb (  3 obs.)
 VANUATU ISLANDS                    (186)

PVC     1.02  54 iP     33 56.00   0.0
                 iS     34 11.10
DZM     3.82 194 iPc    34 36.10   0.1
                 iS     35 21.50
WR2    31.27 262 eP     39 57.80   0.6
        1.0s     1.90nm          3.9mb
WRA    31.29 262 P      39 58.00   0.6
        0.6s     0.50nm          3.5mb
ASPA   31.71 255 iPc    39 59.90  -1.2
        0.8s    14.60nm          4.9mb
                 ipP    40 07.70  27kmX
     S.D. = 1.1  on   5 of   5 obs.
-----------------------------------
%  OCT  16, 1993  12h 47m 37.41± 1.15s
   39.673 N ± 8.3km   29.567 E ±15.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)
      ML 2.7 (ISK).

IZI     0.67 354 iPg    47 50.50  -0.2
                 iSg    47 59.50
ALT     0.75 146 ePg    47 52.10   0.0
                 eSg    48 03.60
EYL     1.00  27 ePn    47 56.50   0.1
HRT     1.15   4 ePn    47 59.00   0.1
CTT     1.71 330 ePn    48 07.50   0.1
     S.D. = 0.2  on   5 of   5 obs.
-----------------------------------
*  OCT  16, 1993  13h 27m 45.09± 1.30s
   13.992 N ±17.6km   93.128 W ± 7.9km
   DEPTH =  33.0km  (normal)
   4.3mb ( 12 obs.)
 OFF COAST OF CHIAPAS, MEXICO       ( 68)
      MD 4.7 (GCG).

TPX     1.24  43 iP     28 06.80   0.7
                 iS     28 22.00
BVA     2.51  74 ePc    28 25.54   0.9
GCG     2.58  76 eP     28 27.01   1.3
IXG     2.60  86 eP     28 26.08   0.2
                 eS     29 00.16
SCX     2.77  10 iP     28 29.40   1.3
                 iS     28 58.50
YUP     3.23  86 eP     28 35.33   0.4
OXX     4.63 312 iP     28 56.50   1.7
                 iS     29 51.00
IISM    6.43 321 eP     29 22.00   2.1
                 iS     30 34.00
LVVM    6.54 331 eP     29 21.50   0.0
                 iS     30 35.00
ACX     7.09 295 (P)    29 34.00   4.7X
PPM     7.30 314 iP     29 34.00   1.4
III     7.49 306 (P)    29 33.00  -2.0
UNM     7.86 313 (P)    29 45.00   4.6X
MRX     9.58 307 (P)    29 54.00  -9.9X
LTX    18.12 329 eP     31 55.71  -0.3
UYO    20.12 357 iPc    32 21.10   2.0
MIAR   20.47 359 eP     32 19.84  -2.8
        0.8s    12.62nm          4.3mb
WMOK   21.28 347 eP     32 28.71  -2.3
        0.7s     4.93nm          4.0mb
                 eS     36 18.09
MEO    21.28 348 iPc    32 30.70  -0.3
TUL    21.96 354 iP     32 38.10   0.3
MYNC   22.51  20 eP     32 42.00  -1.3
        1.1s    11.05nm          4.2mb
ACO    23.24 348 iPd    32 50.30  -0.2
FVM    24.02   5 (P)    32 55.52  -2.4
        0.7s     4.60nm          4.1mb
ALQ    24.08 332 ePc    32 59.27   0.5
        0.9s     8.21nm          4.3mb
TUC    24.35 321 eP     33 04.07   2.8
        1.0s     9.74nm          4.3mb
GOL    27.78 339 eP     33 33.22  -0.1
        1.2s    15.73nm          4.6mb
PV08   28.08 334 (P)    33 36.34   0.2
PV10   28.08 333 eP     33 36.02  -0.1
ARUT   29.79 326 eP     33 52.10   0.7
DAU    30.74 332 eP     33 59.95   0.1
LRM    35.68 337 eP     34 43.00   0.5
                 e      34 49.70
                 e      37 05.80
ULM    36.23 357 eP     34 46.50  -0.3
YKA    50.79 347 eP     36 42.30  -1.7
        0.8s     9.60nm          4.8mb
INK    60.14 344 eP     37 50.50  -0.9
        0.8s     2.00nm          4.3mb
RES    60.69 359 eP     37 54.00  -1.1
        0.9s     3.00nm          4.4mb
LKO    85.37  81 P      40 21.27   0.2
        0.9s     6.00nm          4.8mb
APO    86.10  28 eP     40 22.10  -1.6
        0.4s     0.70nm          4.2mb
WRA   134.33 256 PKP    47 08.40   6.2X
        0.9s     0.30nm
GBA   151.03  19 PKPd   47 38.00   6.9X
     S.D. = 1.4  on  34 of  39 obs.
-----------------------------------
&  OCT  16, 1993  15h 17m 29.68s
   42.274 N          121.974 W
   DEPTH =  11.7km
 OREGON                             ( 32)
      <SEA-P>. ML 3.2 (GS). MD 2.6
      (SEA).

YBH     0.77 226 eP     17 43.39  -1.2
                 eS     17 53.29
BBOR    0.80 320 P      17 44.58  -0.7
                 S      17 55.96
LBFM    0.93 176 eP     17 46.96  -0.4
DBO     1.26 313 P      17 52.78  -0.2
                 S      18 10.41
HSO     1.50 327 P      17 56.52   0.1
                 S      18 17.59
NCOR    1.56  23 P      17 58.84   1.4
HBO     1.59 351 P      17 59.03   1.2
WDC     1.75 194 eP     17 59.84  -0.1
LMEM    1.76 170 eP     18 01.81   1.4
TCO     1.85   8 P      18 03.40   1.7
FBO     2.08 348 P      18 07.31   2.4
RNO     2.09 322 P      18 07.26   2.3
FHC     2.11 226 eP     18 04.56  -0.7
BPO     2.39   5 P      18 13.76   4.4
KMPM    2.46 222 (P)    18 10.77   0.4
MPOR    2.51 333 P      18 13.35   2.3
SSOR    2.61 352 P      18 15.74   3.3
ORV     2.74 172 eP     18 16.13   1.8
CROR    2.80  14 P      18 20.18   5.0
VGB     3.35  15 eP     18 24.51   1.5
LON     4.48   1 (P)    18 41.97   3.0
BONR    5.15 146 (P)    18 48.83   0.1
       22 obs. associated
-----------------------------------
   OCT  16, 1993  15h 58m 41.58± 0.93s
   22.352 S ± 6.3km  179.548 W ± 6.7km
   DEPTH = 549.5 ± 12.7 km
```

16d 15h

```
   4.9mb ( 13 obs.)
 SOUTH OF FIJI ISLANDS                    (171)

AFI     11.18  43 eP    01 10.00   -2.4
                  eS    03 09.00
BKM     12.38 290 iPc   01 23.50   -1.0
DZM     12.98 269 iPc   01 32.60    2.0
KUZ     14.92 195 eP    01 52.60    2.8
HBZ     15.31 186 eP    01 54.30    0.7
PUZ     15.78 186 eP    01 59.80    1.5
WLZ     16.02 194 eP    02 03.80    3.2X
URZ     16.11 190 P     02 00.70   -0.8
NOZ     16.35 187 eP    02 04.40    0.7
MOZ     16.81 195 eP    02 10.00    1.7
PGZ     18.55 190 eP    02 24.40   -0.6
MNG     18.69 192 eP    02 24.90   -1.5
KIW     19.04 193 eP    02 29.90    0.2
DIW     19.21 195 eP    02 31.20   -0.1
MTW     19.21 191 P     02 30.70   -0.6
CAW     19.25 192 eP    02 31.30   -0.3
MRW     19.44 193 eP    02 33.00   -0.4
TCW     19.51 194 P     02 34.90    0.8
QRZ     19.60 198 P     02 36.00    1.1
THZ     20.37 196 eP    02 41.90   -0.2
LTZ     21.49 197 eP    02 50.80   -1.5
WVZ     22.19 199 eP    02 58.10   -0.5
LMZ     23.24 201 eP    03 08.00    0.0
LRCZ    24.42 199 P     03 18.00   -0.9
MSCZ    24.42 199 eP    03 18.00   -0.8
MHZ     24.44 199 eP    03 18.10   -0.9
LSCZ    24.46 199 P     03 18.00   -1.1
TLC     24.62 200 P     03 20.30   -0.3
ARMA    26.99 247 iPd   03 42.90    1.3
        0.4s    24.00nm          5.2mb
CNB     30.01 238 iPd   04 09.10    1.5
CAN     30.30 238 iPd   04 11.30    1.2
BWA     30.51 240 iPd   04 10.70   -1.2
CTA     31.92 268 iPd   04 24.00    0.1
        1.0s    25.00nm          4.8mb
                  e     04 29.00
TOO     33.65 235 iPd   04 39.90    1.6
        0.5s   127.00nm          5.8mb
STK     35.71 246 iPd   04 56.50    1.1
        0.6s    27.60nm          5.1mb
ADE     38.46 242 iPd   05 18.60    0.6
ASPA    42.72 259 iPd   05 52.00   -0.2
        0.6s    55.30nm          5.3mb
                  iS    11 33.50
                  iScS  14 50.10
WR2     42.92 264 iPc   05 52.80   -1.0
        0.4s    32.70nm          5.2mb
                  iScP  10 31.20
                  eS    11 35.30
WRA     42.95 264 P     05 53.30   -0.7
        0.8s    13.60nm          4.5mb
FORT    47.25 248 iPd   06 26.20   -0.8
        0.5s    30.00nm          5.1mb
MEEK    55.96 252 iPd   07 28.60   -1.6
MBL     55.97 259 iPd   07 29.20   -1.1
        0.7s   131.00nm          5.4mb
BAL     57.00 247 iPd   07 36.00   -1.2
MRWA    57.82 249 iPd   07 41.90   -0.9
        0.5s    15.00nm          4.6mb
SPA     67.78 180 iPd   08 44.20   -2.1
        0.6s     4.07nm          4.1mb
PLM     81.45  49 eP    10 04.40    1.6
SSOR    84.72  37 P     10 18.89    0.2
VIPM    85.54  38 P     10 22.93    0.2
CROR    85.62  37 P     10 23.15    0.1
STW     86.16  34 P     10 26.19    0.8
FMW     86.44  36 P     10 27.37    0.3
JBO     86.56  38 P     10 27.73    0.3
EBG     87.03  36 P     10 30.13    0.5
JCW     87.09  34 P     10 30.17    0.3
PMR     87.15  14 eP    10 29.90    0.1
LNOR    87.68  38 P     10 32.51   -0.2
WTV     87.84  36 P     10 33.31   -0.1
SAW     88.14  36 P     10 34.64   -0.2
DAU     89.01  45 eP    10 40.00    0.7
LTX     89.26  58 eP    10 39.90   -0.6
ALQ     89.68  52 iPc   10 43.20    0.8
        1.0s     6.88nm          4.5mb
IMA     90.31  10 ePc   10 45.00    0.5
        1.0s     7.75nm          4.6mb
NB2    140.62 352 PKP   17 01.60   -8.1X
        0.7s     2.30nm
HFS    141.11 349 ePKP  17 02.60   -7.9X
        0.4s     5.50nm
EKA    146.95   4 PKPc  17 21.30    0.9
        0.9s    12.10nm
KSP    148.99 340 iPKPc 17 28.00    4.2X
                  i     17 34.60
CLL    149.49 344 iPKPc 17 28.70    4.2X
        0.8s    38.00nm
                  i     17 35.80
BRG    149.64 343 iPKPc 17 30.00    5.2X
        0.8s    30.00nm
                  i     17 35.50
PRU    150.27 342 iPKPc 17 30.70    5.0X
        0.8s    12.00nm
                  i     17 39.70
MOX    150.44 346 iPKPc 17 31.30    5.3X
        1.4s    24.00nm
KHC    151.32 342 PKPc  17 33.50    6.1X
        0.8s     3.80nm
                  i     17 44.50
GRF    151.42 345 iPKPc 17 33.70    6.2X
                  e     17 44.90
GEC2   151.54 341 PKP   17 27.00   -0.8
        0.5s     0.30nm
GEC2   151.54 341 PKP   17 33.60    5.8X
        0.4s     2.44nm
                  e     17 37.20
                  e     17 45.00
     S.D. = 1.1  on  63 of  74 obs.
-----------------------------------
*  OCT  16, 1993  17h 11m 11.44± 1.39s
   49.167 N ±12.3km    6.924 E ± 7.7km
   DEPTH =  10.0km  (geophysicist)
 GERMANY                          (543)
     ML 1.8 (UCC).

RUP      0.54   9 ePg   11 22.40    0.0
WLF      0.71 315 iPd   11 25.50    0.1
                  iS    11 35.03
ABH      0.82  29 ePg   11 27.40    0.0
DOU      1.78 302 P     11 42.30   -0.1
GEC2     4.47  92 Pn    12 20.90    0.0
                  Sn    13 10.80
                  Sg    13 37.90
     S.D. = 0.1  on   5 of   5 obs.
-----------------------------------
?  OCT  16, 1993  17h 40m 43.50± 2.60s
   10.910 N ±14.8km   62.248 W ±28.5km
   DEPTH = 100.0km  (geophysicist)
 NEAR COAST OF VENEZUELA          ( 97)
     MD 3.1 (TRN).

TCE      0.53 113 eP    40 59.60   -0.1
                  eS    41 15.83
TRN      0.87 107 iP    41 02.79    0.0
TBH      1.24 110 eP    41 07.06    0.2
                  eS    41 25.97
GRW      1.37  25 eP    41 08.65    0.1
                  eS    41 28.65
TPR      1.47  79 eP    41 09.77    0.0
                  eS    41 29.02
BOT      1.52  80 iP    41 10.29   -0.1
                  eS    41 30.55
     S.D. = 0.1  on   6 of   6 obs.
-----------------------------------
&  OCT  16, 1993  18h 39m 11.80s
   61.119 N          150.757 W
   DEPTH =  49.8km
 SOUTHERN ALASKA                  (  2)
     <AEIC>. ML 2.8 (AEIC).

NKA      0.44 212 eP    39 23.76    1.3
PMS      0.59  77 P     39 24.00   -0.3
CGLM     0.63 288 iPc   39 24.28   -0.6
SLKM     0.67 157 iPc   39 24.36   -0.9
                  eS    39 35.08
PWA      0.68  38 P     39 24.80   -0.6
CRP      0.69 283 eP    39 24.79   -0.9
                  eS    39 36.00
CKN      0.70 279 iPc   39 25.23   -0.5
CKT      0.71 277 ePc   39 25.09   -0.8
BKG      0.73 267 iPd   39 25.44   -0.7
                  eS    39 36.66
NCG      0.73 294 iPc   39 25.47   -0.8
                  eS    39 36.47
BGL      0.80 281 iPc   39 26.34   -0.8
PMR      0.92  58 iPd   39 27.25   -1.3
                  eS    39 40.38
MPA      0.93 132 iPc   39 28.16   -0.6
                  eS    39 41.68
SKT      0.94 337 eP    39 28.20   -0.7
                  eS    39 41.65
DFR      1.08 242 iPd   39 29.90   -1.1
                  eS    39 44.97
GHO      1.10  53 iPd   39 30.17   -1.0
                  eS    39 45.65
KNK      1.15  74 eP    39 30.95   -0.9
RS2      1.18 237 iPd   39 31.50   -1.0
RSO      1.18 237 eP    39 31.47   -1.0
RDW      1.19 239 iPd   39 31.60   -1.0
NCT      1.20 243 iPd   39 31.72   -0.9
SEW      1.21 147 eP    39 31.19   -1.4
PWL      1.21 101 eP    39 31.54   -1.1
RED      1.21 235 iPd   39 31.75   -1.0
CUT      1.31  10 eP    39 32.95   -1.1
SML      1.35  58 ePd   39 33.49   -1.2
                  eS    39 51.45
BRLK     1.36 183 eP    39 33.85   -0.9
CFI      1.45  86 eP    39 34.68   -1.3
ILIM     1.51 227 eP    39 35.98   -0.9
                  eS    39 56.42
HOM      1.53 197 eP    39 36.94   -0.2
INE      1.56 228 eP    39 36.73   -0.9
CNPM     1.62 189 eP    39 37.25   -1.1
                  eS    39 58.77
SCM      1.80  65 eP    39 39.55   -1.4
MTU      1.91 125 eP    39 40.81   -1.7
OPT      1.92 221 eP    39 42.31   -0.3
HUR      1.94  15 P     39 43.00    0.1
VZW      2.04  90 eP    39 41.89   -2.5
FID      2.12  98 eP    39 42.08   -3.4
VLZ      2.15  88 eP    39 43.68   -2.1
PDB      2.16 233 eP    39 44.69   -1.4
                  eS    40 10.74
AUE      2.20 218 eP    39 46.26   -0.2
AUL      2.20 219 P     39 47.20    0.7
AUP      2.21 218 eP    39 45.77   -1.0
HIN      2.21 107 eP    39 44.01   -2.8
AUH      2.21 218 eP    39 47.17    0.3
AUW      2.22 219 eP    39 46.88    0.1
TRF      2.35   5 eP    39 49.06    0.2
SVW      2.36 272 eP    39 46.68   -2.2
KLU      2.36  79 eP    39 46.62   -2.4
TOA      2.40  64 P     39 48.70   -0.8
KTH      2.44 358 eP    39 50.25    0.1
RND      2.46  20 P     39 51.90    1.5
CVA      2.52 101 P     39 53.00    1.9
DHY      2.53  38 eP    39 50.58   -0.8
CDD      2.63 215 eP    39 51.79   -0.9
SGAM     2.79 100 eP    39 51.95   -3.0
TTA      3.07 309 ePc   39 56.70   -2.4
RAGM     3.07 101 eP    39 55.29   -3.8
GLB      3.37  81 eP    40 03.29    0.0
FBA      4.03  18 eP    40 10.61   -1.9
IL1      4.07  24 eP    40 12.03   -1.1
ILB      4.07  24 eP    40 12.05   -1.0
BC3      4.65  61 eP    40 18.41   -2.8
IM3      5.06 346 eP    40 24.74   -2.4
IMA      5.14 347 eP    40 25.23   -3.0
BM3      6.86  20 eP    40 49.25   -3.1
       66 obs. associated
-----------------------------------
?  OCT  16, 1993  18h 54m 31.40± 5.84s
   28.429 S ±41.3km   68.788 W ±39.5km
   DEPTH =  33.0km  (normal)
 LA RIOJA PROVINCE, ARGENTINA     (138)

CYA      2.64  91 iPc   55 12.50   -0.1
                  S     55 44.40
RTPR     2.73 134 eP    55 14.00    0.2
                  S     55 48.00
RTLL     2.90 175 ePd   55 16.20   -0.2
                  S     55 51.00
RTCB     3.05 180 ePd   55 19.00    0.5
                  S     55 57.00
CFA      3.20 172 e(P)  55 20.00   -0.6
     S.D. = 0.6  on   5 of   5 obs.
-----------------------------------
?  OCT  16, 1993  19h 35m 27.01± 2.40s
   31.279 S ±21.4km   69.233 W ±27.2km
   DEPTH = 120.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA     (137)

RTCB     0.42 119 iPc   35 44.70   -0.2
                  S     35 55.70
```

```
RTLL     0.66  95 iPc    35 46.00   -0.3
                  S      35 57.50
RTCV     0.83 134 iPc    35 48.10    0.3
CFA      0.91 111 iPd    35 48.80    0.3
                  S      36 03.60
RTPR     2.54  68 eP     36 08.00    0.2
                  S      36 38.00
MRA      3.20 112 e(P)c  36 16.40   -0.3
                  S      36 53.00
     S.D. = 0.4  on   6 of   6 obs.
-------------------------------------
% OCT  16, 1993  20h 31m 52.80± 4.39s
   44.364 N ±18.3km    6.584 E ±24.8km
   DEPTH =   5.0km  (geophysicist)
 FRANCE                            (538)
     ML 2.3 (GEN).

PZZ      0.40  69 P      32 01.23    0.4
                  S      32 05.12
RRL      0.57  14 P      32 04.71    0.4
                  S      32 11.71
ENR      0.62 103 P      32 05.07   -0.1
                  S      32 12.39
BHB      0.68  45 P      32 05.99   -0.4
                  S      32 13.86
RSP      0.92  31 P      32 10.72   -0.2
                  S      32 21.91
LSD      1.17  20 P      32 15.13   -0.1
     S.D. = 0.4  on   6 of   6 obs.
-------------------------------------
   OCT  16, 1993  21h 18m 15.60± 0.31s
   38.745 N ± 3.2km   26.476 E ± 3.0km
   DEPTH =  10.9 ±  1.9 km
 AEGEAN SEA                        (365)
     MD 3.9 (ATH). ML 3.8 (ISK), 3.8
     (THE).

PRK      0.53 342 iPnc   18 26.80    0.6
                  eSn    18 34.00
IZM      0.71 119 iPg    18 29.50    0.0
                  eSg    18 41.00
EZN      1.09 354 iPg    18 36.10    0.2
CIN      1.71 132 ePn    18 45.00   -0.4
KGT      1.82  20 iPn    18 46.90   -0.2
EDC      1.93  33 ePn    18 48.50   -0.1
MFT      2.13  17 ePn    18 51.50   -0.2
ALN      2.17 351 ePb    18 56.52    4.3X
                  eSb    19 20.00
KHL      2.43  99 iPn    18 56.30    0.4
PAIG     2.47 299 ePb    18 56.80    0.4
OUR      2.50 310 ePb    18 56.76    0.0
RDO      2.50 344 iPn    18 56.30   -0.6
CTT      2.83  31 ePn    19 01.00   -0.6
ALT      2.85  83 ePn    19 02.20    0.2
KDZ      3.01 345 iP     19 03.00   -1.1
ISK      3.05  40 ePn    19 05.00    0.4
ITU      3.06  39 iPnc   19 13.00    8.3X
                  iSg    19 54.00
SOH      3.18 312 iPn    19 07.12    0.6
HRT      3.22  49 ePn    19 08.00    0.9
DMK      3.23  17 ePn    19 06.90   -0.2
RZN      3.23 336 iP     19 06.00   -1.4
SRS      3.24 318 ePn    19 07.00   -0.4
AGG      3.25 276 ePn    19 12.00    4.5X
LIT      3.37 295 ePn    19 09.28    0.0
                  eSn    19 39.28
ELL      3.37 125 ePn    19 10.00    0.6
EYL      3.37  56 ePn    19 10.00    0.6
VLI      3.46 235 ePn    19 03.50   -7.0X
BCK      3.49 110 ePn    19 11.00    0.0
NPS      3.54 192 ePn    19 10.50   -1.2
PLD      3.62 339 iP     19 13.00    0.3
KNT      3.66 312 ePn    19 14.60    1.2
JMB      3.72   1 eP     19 13.00   -1.2
VAM      3.80 209 ePn    19 15.00   -0.3
GRG      3.84 306 ePn    19 16.40    0.5
KKB      4.06 321 eP     19 18.00   -0.9
PGB      4.19 336 iP     19 20.00   -0.8
PVL      4.55 349 iP     19 42.40   16.5X
OHR      4.96 300 eP     19 33.00    1.1
SKO      5.02 312 eP     19 34.00    1.4
MLR      6.75 357 ePd    19 56.50   -0.7
VRI      7.12   1 ePc    20 03.00    0.8
BZS      7.76 334 ePc    20 00.00  -11.0X
     S.D. = 0.7  on  36 of  42 obs.
-------------------------------------
*  OCT  16, 1993  21h 19m 55.71± 1.08s
   26.285 S ± 6.0km   28.502 E ±14.8km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA          (584)
     mbLg 3.7 (BUL). ML 3.6 (PRE).

SLR      0.58 340 iPd    20 07.80    0.4
                  S      20 14.40
BFT      1.51  67 eP     20 35.00   11.4X
                  S      20 57.00
BFS      1.65 248 eP     20 25.60    0.0
                  S      20 45.60
SEK      2.18 201 eP     20 34.60    1.4
                  S      21 03.00
BLF      3.48 216 iPc    20 50.50   -1.3
                  S      21 37.50
HVD      5.05 211 eP     21 14.00   -0.1
BUL      6.11   1 iPn    21 29.20    0.1
                  iSn    22 36.20
                  iSg    23 04.00
GRM      7.20 193 eP     22 08.00   23.7X
                  S      23 36.50
SUR      9.05 226 eP     22 23.50   13.3X
                  S      24 03.50
KRI      9.47   6 iPn    22 15.30   -0.6
                  iSn    23 54.00
                  iSg    24 45.60
CER     10.66 226 eP     22 52.00   19.8X
                  S      24 31.50
WIN     11.03 287 e(P)   22 37.50    0.1
                  S      24 31.00
     S.D. = 0.9  on   8 of  12 obs.
-------------------------------------
   OCT  16, 1993  21h 32m 34.96± 0.55s
   38.690 N ± 5.4km   26.527 E ± 4.9km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                        (365)
     ML 3.7 (ISK). MD 3.4 (ATH).

PRK      0.59 340 iPbc   32 46.50   -0.4
                  eSb    32 54.00
IZM      0.65 117 iPg    32 49.00    1.1
                  eSg    33 02.00
EZN      1.14 352 iPn    32 56.10   -0.2
CIN      1.64 131 eP     33 05.00    1.1
KGT      1.86  19 iPn    33 06.90   -0.2
EDC      1.95  32 ePn    33 09.00    0.6
MFT      2.17  15 ePn    33 11.50   -0.2
ALN      2.24 351 iPn    33 16.28    3.7X
                  eSn    33 46.00
ATH      2.32 253 ePn    33 21.00    7.2X
KHL      2.38  98 ePn    33 14.00   -0.7
PAIG     2.53 300 ePn    33 23.16    6.4X
OUR      2.56 311 iPn    33 16.50   -0.7
                  eSn    33 57.72
RDO      2.57 343 ePn    33 16.80   -0.4
IZI      2.81  53 ePn    33 22.00    1.2
ALT      2.82  81 ePn    33 21.70    0.7
CTT      2.86  30 iPn    33 22.00    0.6
ISK      3.07  39 ePn    33 25.00    0.7
HRT      3.22  48 ePn    33 27.00    0.4
DMK      3.27  16 iPn    33 26.40   -0.8
AGG      3.29 277 ePn    33 37.50    9.9X
ELL      3.31 125 ePn    33 25.00   -3.0
SRS      3.31 318 ePn    33 26.92   -1.0
                  eSn    34 19.90
BCK      3.43 110 ePn    33 28.00   -1.6
VLI      3.46 236 ePn    33 31.50    1.5
NPS      3.50 192 ePb    33 07.50  -23.0X
KNT      3.73 313 ePn    33 34.48    0.7
VAM      3.77 210 ePb    33 23.50  -10.9X
GRG      3.90 307 ePn    33 36.12   -0.1
     S.D. = 1.1  on  22 of  28 obs.
-------------------------------------
%  OCT  16, 1993  21h 42m 05.30± 0.86s
   27.799 S ± 8.2km   26.594 E ± 9.8km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA          (584)
     ML 2.8 (PRE).

BFS      0.91  11 eP     42 22.80   -0.5
                  S      42 34.40
SEK      1.05 120 eP     42 24.90   -0.8
                  S      42 36.40
BLF      1.35 195 eP     42 31.60    0.7
                  S      42 48.20
SLR      2.55  37 eP     42 49.20    1.1
                  S      43 17.90
POF      6.05 253 eP     43 37.00   -0.6
     S.D. = 1.2  on   5 of   5 obs.
-------------------------------------
?  OCT  16, 1993  22h 59m 21.64± 1.39s
    6.246 S ±16.6km  146.357 E ±24.9km
   DEPTH =  33.0km  (normal)
   4.3mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
     ML 4.5 (PMG).

YYYY     0.39 271 iPd    59 29.90   -0.8
                  eS     00 15.50
MDG      1.14 330 eP     59 38.80   -2.6
PMG      3.24 166 eP     00 10.00   -1.3
WWKK     3.77 314 eP     00 22.10    3.2X
WR2     17.92 219 eP     03 32.90    2.7X
         0.6s     8.60nm          4.1mb
ASPA    21.06 213 eP     04 13.60    8.1X
         0.8s    16.00nm          4.5mb
      Z  20s     0.10um          3.2Msz
GUN     67.47 304 P      10 17.60    0.4
PKI     67.74 303 P      10 23.50    4.6X
KKN     67.92 303 P      10 21.20    1.3
DMN     68.01 303 P      10 22.00    1.5
GKN     68.53 303 P      10 24.00    0.4
GBA     71.19 287 P      10 41.00    1.2
     S.D. = 1.7  on   8 of  12 obs.
-------------------------------------
*  OCT  17, 1993  00h 14m 30.55± 4.23s
   43.111 N ±18.6km  126.802 W ±29.3km
   DEPTH =  10.0km  (geophysicist)
 OFF COAST OF OREGON                ( 30)

MPOR     2.74  58 P      15 14.26   -1.2
HSO      2.74  80 P      15 14.91   -0.6
BBOR     3.03  93 P      15 20.22    0.6
FBO      3.29  67 P      15 23.12   -0.1
TKO      3.30  46 P      15 22.93   -0.5
HBO      3.34  76 P      15 24.24    0.2
KMOR     3.47  42 P      15 24.73   -1.0
SSOR     3.59  59 P      15 27.30   -0.2
NLO      3.82  38 P      15 30.61   -0.1
GT2      3.85  56 P      15 31.57    0.4
BPO      4.00  66 P      15 34.71    1.2X
VLMM     4.19  53 P      15 36.14    0.1
                  S      16 21.36
TDH      4.21  57 P      15 36.48    0.1
BMW      4.22  36 eP     15 35.45   -0.9
VBEM     4.23  61 P      15 36.89    0.2
LVP      4.31  45 P      15 38.15    0.4
VLL      4.37  56 P      15 38.99    0.5
MTMW     4.39  47 Pc     15 38.51   -0.3
                  S      16 25.23
VFP      4.43  58 P      15 40.06    0.6
FL2      4.43  44 P      15 39.67    0.3
SHW      4.48  45 iPc    15 40.48    0.3
ERK      4.51  43 P      15 40.48    0.0
REMW     4.51  45 P      15 41.12    0.4
CZM      4.52  41 P      15 40.54    0.0
YEL      4.52  45 P      15 41.09    0.3
STD      4.52  45 P      15 40.93    0.2
ESD      4.53  45 P      15 41.15    0.3
CDFW     4.53  47 P      15 40.60   -0.2
SOSW     4.56  45 P      15 41.51    0.2
TDL      4.60  44 P      15 41.98    0.1
GULW     4.67  51 P      15 43.16    0.4
VIPM     4.69  71 P      15 42.54   -0.7
LMW      4.79  40 P      15 44.71    0.2
ASR      4.80  49 P      15 44.57   -0.2
GLK      5.06  45 P      15 48.49    0.2
LON      5.08  43 iPd    15 49.10    0.5
REMR     5.11  42 P      15 49.49    0.3
GL2      5.14  54 P      15 49.02   -0.4
RVC      5.14  40 P      15 49.73    0.3
WPW      5.18  44 P      15 50.13    0.1
RCS      5.20  42 P      15 50.86    0.3
FMW      5.27  42 P      15 51.75    0.3
GSM      5.41  39 P      15 53.60    0.3
JBO      5.52  62 P      15 54.05   -0.8
RMW      5.60  37 P      15 55.64   -0.3
HTW      5.88  35 P      15 59.14   -0.6
JCW      6.12  32 P      16 02.86   -0.4
     S.D. = 0.4  on  46 of  47 obs.
-------------------------------------
   OCT  17, 1993  01h 51m 02.93± 0.28s
   44.223 N ± 3.1km  118.522 W ± 2.2km
   DEPTH =   5.0km  (geophysicist)
```

17d 01h

```
 OREGON                                    ( 32)
      ML 3.1 (GS). MD 3.1 (SEA).
VIPM     1.53 281 P      51 31.13   0.0
JBO      1.55 323 P      51 31.47   0.2
LNOR     1.66   6 P      51 33.34   0.5
                  S      51 55.51
VTHM     1.74 304 P      51 34.50   0.5
GMO      1.76 278 P      51 35.30   0.9
PATW     1.88 333 P      51 37.48   1.6
CROR     1.92 294 P      51 36.97   0.3
                  S      52 03.02
VGB      2.06 310 eP     51 38.77   0.1
                  eS     52 06.88
PRW      2.15 338 P      51 42.05   2.1
TCO      2.22 268 P      51 43.13   2.0
RSW      2.29 341 P      51 42.97   0.9
BPO      2.31 282 P      51 42.85   0.4
VBEM     2.34 292 P      51 42.74  -0.1
VFP      2.36 299 P      51 43.38   0.2
                  S      52 17.15
ET3      2.37 353 P      51 42.79  -0.3
GL2      2.38 318 P      51 42.80  -0.5
MJ2      2.41 346 P      51 44.67   1.1
GBL      2.46 345 P      51 44.51   0.1
BRVW     2.49 336 P      51 44.55  -0.3
MDW      2.54 340 P      51 46.36   0.8
OT2      2.55 349 P      51 45.50  -0.1
TDH      2.56 296 P      51 45.90   0.0
                  S      52 23.02
VLL      2.57 300 P      51 46.42   0.5
MXC      2.66 333 P      51 47.26   0.0
CRF      2.67 347 P      51 47.41   0.1
YAKW     2.70 329 P      51 47.51  -0.3
BVW      2.76 340 P      51 49.53   0.9
SSOR     2.89 284 P      51 50.20  -0.3
ASR      2.90 313 P      51 50.59  -0.2
NAC      2.99 328 P      51 51.54  -0.4
EBG      3.05 333 P      51 53.07   0.4
GLK      3.19 318 P      51 55.40   0.5
SOSW     3.25 310 P      51 55.03  -0.7
REMW     3.26 309 P      51 56.68   0.8
WPW      3.26 320 P      51 55.71  -0.2
SHW      3.28 308 eP     51 54.98  -1.2
STD      3.30 309 P      51 55.31  -1.1
FL2      3.35 307 P      51 56.02  -1.1
TDL      3.36 311 P      51 56.27  -1.1
ERK      3.41 309 P      51 56.82  -1.1
LON      3.42 319 eP     51 57.54  -0.6
RVC      3.64 320 P      52 01.07  -0.1
DPW      3.66   3 eP     51 59.52  -1.9
CBSW     3.74 344 P      52 02.02  -0.5
LBFM     3.80 222 (Pn)   52 03.14  -0.4
KMOR     3.80 294 P      52 03.33  -0.2
NLO      3.95 300 P      52 06.34   0.7
RMW      3.97 326 eP     52 04.82  -1.0
BMW      4.01 306 (P)    52 05.60  -0.8
MCMT     4.10  80 iPd    52 08.20   0.3
NEW      4.16  13 ePn    52 07.42  -1.0
                  ePg    52 18.81
HBMT     4.48  67 iPd    52 13.40   0.1
LGPM     4.59 225 (P)    52 14.63  -0.1
LRM      4.59  68 iPc    52 14.40  -0.5
LTMT     4.61  84 iPc    52 16.30   1.2
BGMT     4.73  75 ePd    52 16.80   0.0
HRY      5.32  60 ePd    52 25.60   0.5
SXM      5.52  67 ePc    52 27.70  -0.3
MEMT     5.54  73 eP     52 28.10  -0.2
DUG      5.84 132 (Pn)   52 31.83  -0.6
BONR     6.26 178 (Pn)   52 38.32  -0.3
     S.D. = 0.8  on  61 of  61 obs.
-----------------------------------
   OCT  17, 1993  03h 06m 43.03± 0.32s
   44.018 N ± 6.5km  148.476 E ± 5.4km
   DEPTH =  46.3km  ( 10 depth phases)
   4.8mb ( 27 obs.)
 KURIL ISLANDS                      (221)

KUR      1.29 341 iPnd-  07 04.00  -0.9
                  eS     07 18.00
KUSJ     2.89 253 iP+    07 27.20  -0.4
                  S      07 59.00
HOOJ     4.13 248 P      07 47.00   1.8
                  eS     08 34.40
ASAJ     4.21 273 P      07 48.90   2.6
YSS      5.04 309 iPnd   07 56.20  -1.7
MRRJ     5.64 256 P      08 07.50   1.0
```

```
                  eS     09 10.50
AOMJ     6.93 243 eP     08 25.20   0.7
                  eS     09 38.60
OFUJ     7.10 228 eP     08 25.40  -1.5
                  eS     09 41.10
SKR      8.42  35 iPnd   08 42.40  -2.9
                  eS     10 20.10
YAMJ     8.64 230 eP     08 47.90  -0.4
                  eS     10 22.70
NIIJ     9.88 230 P      09 04.60  -0.7
KAKJ    10.06 222 P      09 05.80  -2.0
                  eS     10 50.90
CHJJ    10.77 226 P      09 15.40  -2.1
                  eS     11 09.70
MAT     10.82 230 eP     09 17.00  -1.2
         0.9s    10.92nm          5.0mb
                  eS     11 13.00
MTMJ    11.02 231 eP     09 19.00  -1.9
IIDJ    11.77 227 eP     09 30.90  -0.2
TSRJ    12.80 233 P      09 45.10   0.5
MDJ     13.54 279 eP     09 56.50   2.1
MGD     16.17   4 eP     10 25.00  -3.3X
YAK     21.12 335 eP     11 27.80   2.1
         1.2s    45.00nm          4.7mb
BJI     24.23 272 eP     11 58.00   1.6
         1.0s    11.00nm          4.3mb
      Z  16s     0.29um          3.9MszX
TIA     25.10 263 eP     12 06.80   2.0
TIY     27.82 269 eP     12 34.80   5.0X
LZH     34.72 272 eP     13 30.50  -0.2
         1.2s    23.00nm          5.0mb
                  pP     13 45.00  58kmX
GTA     36.19 280 eP     13 45.80   2.7
         1.0s     4.00nm          4.3mb
TTA     36.62  39 iPc    13 46.35   0.0
         0.9s    14.31nm          4.9mb
SVW     36.70  42 eP     13 47.98   0.9
         0.7s    22.13nm          5.2mb
IMA     37.92  34 eP     13 57.40   0.1
         0.7s    34.00nm          5.4mb
CRP     38.38  42 eP     14 01.84   0.5
KDC     38.41  48 eP     14 00.30  -1.0
PMR     39.82  41 eP     14 12.45  -0.6
         0.7s     9.56nm          4.7mb
FBA     40.31  36 iPc    14 17.40   0.4
         0.8s    26.14nm          5.1mb
TOA     41.18  40 eP     14 25.80   1.5
KLU     41.36  41 eP     14 26.25   0.5
BALM    43.14  42 eP     14 40.71   0.4
INK     45.69  31 eP     15 00.50   0.0
         0.6s     8.00nm          4.8mb
CHTO    48.28 255 eP     15 27.20   5.7X
RES     54.43  17 eP     16 05.50  -1.7
         1.0s    11.00nm          4.8mb
YKA     55.04  34 eP     16 11.30  -0.6
         0.7s     8.90nm          4.9mb
LGPM    62.34  59 eP     17 03.96   0.9
ORV     63.96  59 eP     17 12.91  -0.7
                  epP    17 26.54  48km
KAF     64.50 334 eP     17 14.00  -2.7
WR2     64.95 195 iPc    17 36.60  16.5X
         0.8s     3.20nm
                  i      17 46.70  32kmX
WRA     64.95 195 P      17 21.50   1.4
         0.6s     0.80nm          3.9mb
FCC     65.31  31 eP     17 21.00  -0.9
LRM     65.45  49 ePc    17 23.80   0.3
                  e      17 37.20  47km
NUR     66.23 333 iP     17 26.00  -1.8
         0.5s     5.60nm          4.9mb
GBA     67.06 267 P      17 34.00   0.3
TNP     67.51  58 iPc    17 37.19   0.6
         0.7s     6.98nm          4.8mb
                  epP    17 50.90  48km
FRB     68.65  17 eP     17 41.50  -1.5
         1.0s    17.00nm          5.0mb
DUG     68.81  54 eP     17 45.02   0.4
         0.7s     3.57nm          4.5mb
DAU     69.58  53 eP     17 50.03   0.5
HFS     69.81 338 eP     17 47.70  -2.4
         0.4s     3.30nm          4.7mb
      Z  17s     0.07um          4.0MszX
                  LR     48 11.00
MSU     70.28  55 ePc    17 54.59   0.9
                  epP    18 08.82  50km
ULM     70.71  38 eP     17 58.00   2.2
SRU     70.86  54 ePc    17 57.43   0.3
```

```
                  epP    18 11.09  48km
PV09    72.07  54 eP     18 04.79   0.2
PV10    72.21  54 ePc    18 06.17   0.8
                  epP    18 19.96  48km
PV08    72.30  53 ePc    18 06.35   0.4
                  epPd   18 20.06  48km
TUC     75.26  59 eP     18 24.73   1.8
         0.9s     2.90nm          4.2mb
KSP     76.80 331 eP     18 30.30  -0.8
CLL     77.51 333 iP     18 34.10  -0.9
         1.1s    22.00nm          5.1mb
BRG     77.57 332 e(P)   18 34.00  -1.4
PRU     78.13 332 ePKP   18 38.50   0.1
MOX     78.53 334 eP     18 40.20  -0.5
WTS     78.79 337 eP     18 42.00   0.0
KHC     79.19 332 PKPc   18 44.40   0.1
         0.9s     7.40nm          4.6mb
                  e      18 56.00  38km
GEC2    79.39 332 P      18 45.10  -0.4
         0.9s     2.19nm          4.1mb
                  e      18 57.50  42km
                  e      37 49.10
GRF     79.49 333 iPc    18 45.70  -0.2
         1.0s    22.00nm          5.1mb
ENN     80.14 337 eP     18 49.00  -0.3
         0.9s     9.00nm          4.7mb
DLF     80.72 345 eP     18 52.80   0.5
KBA     81.02 331 iPd    18 54.70   0.4
         0.9s     7.90nm          4.7mb
                  i      19 11.10  58kmX
WTTA    81.45 332 iPc    18 56.70   0.1
SQTA    81.64 332 iPc    18 57.40   0.0
         0.8s     4.30nm          4.5mb
LTX     81.70  57 eP     18 58.68   0.6
SKO     82.11 323 eP     19 00.20   0.4
OHR     83.09 323 eP     19 04.50  -0.5
ELC     83.67  43 eP     19 08.63   0.7
                  epP    19 22.38  47km
LPAZ   138.52  60 ePKP   25 59.00  -7.4X
LPB    138.73  60 ePKP   25 55.00 -11.5X
CNCB   139.01  60 PKP    26 02.20  -5.0X
BDFB   148.43  31 ePKP   26 26.29   3.6X
BAO    148.43  31 PKPd   26 26.20   3.5X
                  i      26 28.60
                  e      26 36.90
                  e      26 42.90
     S.D. = 1.3  on  74 of  83 obs.
-----------------------------------
   OCT  17, 1993  03h 18m 22.65± 0.29s
   10.989 S ± 6.6km  163.268 E ± 6.2km
   DEPTH =  30.2km  (  2 depth phases)
   5.2mb ( 30 obs.)  4.9Msz (  9 obs.)
 SOLOMON ISLANDS                    (193)
      Mw 5.5 (HRV).
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 38S, 65C
      Centroid Location:
      Origin Time        03:18:23.6 0.5
      Lat 10.80S 0.05 Lon 163.41E 0.04
      Dep  16.3 2.0 Half-duration  1.2
      Moment Tensor;    Scale 10**17 Nm
        Mrr= 1.15 0.04  Mtt=-0.93 0.06
        Mff=-0.22 0.05  Mrt= 1.45 0.24
        Mrf= 0.24 0.12  Mtf=-0.13 0.04
       Principal Axes:
        T  Val=  1.91  Plg=63  Azm=351
        N       -0.20       0      261
        P       -1.71      27      170
      Best Double Couple:Mo=1.8*10**17
       NP1:Strike=260 Dip=18 Slip=  90
       NP2:         81     72       90

HNR      3.62 295 eP     19 20.00   2.0
                  eS     20 14.00
DZM     11.43 165 iPd    21 02.90  -4.2X
CTA     18.71 239 iPc    22 41.20   0.1
         1.0s     7.50nm          3.8mb X
                  i      22 47.00
ARMA    22.16 208 eP     23 18.20   0.4
         0.7s    17.00nm          4.6mb
BWA     26.98 208 eP     24 03.50  -0.3
CAN     27.48 206 eP     24 09.20   0.9
STK     28.86 221 iPc    24 20.00  -0.8
         0.7s     5.00nm          4.3mb
                  e      24 39.80  87kmX
WB5     29.19 249 eP     24 22.50  -1.4
```

```
                eS    29 11.40
                eS    29 18.00
WR2     29.21 249 eP    24 22.90  -1.1
        0.6s    11.80nm         4.8mb
MEEK    44.79 243 eP    26 35.10  -0.7
BAG     50.24 302 eP    27 17.00  -1.6
IIDJ    52.07 334 eP    27 31.00  -1.0
WKYJ    52.08 331 P     27 42.90  10.7X
CHJJ    52.09 335 eP    27 45.00  12.8X
TKSJ    52.65 329 P     27 36.20  -0.2
MAT     52.84 335 eP    27 35.00  -2.8
        1.5s    22.22nm         4.9mb
      Z 20s     0.71um          4.7Msz
                eS    35 03.00
NIIJ    53.11 336 eP    27 42.70   3.0X
YONJ    53.90 330 P     27 45.00  -0.5
LEM     55.07 269 iPd   27 53.80  -1.0
HOOJ    56.18 342 eP    28 18.10  16.1X
KUSJ    56.43 344 P     28 02.70  -1.1
DRV     57.79 191 eP    28 20.00   6.9X
                S     36 20.00
ASAJ    57.96 343 P     28 14.60   0.0
SSE     58.14 317 P     28 16.00  -0.1
        1.0s    13.00nm         4.9mb
      Z 20s     0.70um          4.8Msz
                pP    28 30.00  51kmX
                S     36 16.00
YSS     60.59 344 eP    28 32.00  -0.7
      Z 17s     0.60um          4.8MszX
      N 18s     0.70um
VLA     61.00 334 eP    28 37.00   1.5
                e     32 23.00
                e     37 07.00
WHN     62.55 313 eP    28 44.50  -1.7
MDJ     63.19 334 eP    28 52.50   2.3
        1.5s    50.00nm         5.4mb
IPM     63.84 281 ePd   28 55.90   0.8
PET     63.87 357 eP    28 56.00   1.5
                e     37 44.00
TIA     63.97 320 eP    28 57.00   1.5
      Z 26s     0.81um          4.8MszX
                eS    37 30.00
CN2     64.47 331 eP    28 57.80  -0.8
        1.4s    40.00nm         5.3mb
      Z 20s     0.62um          4.8Msz
                eS    37 40.00
GYA     66.39 305 P     29 13.20   1.8
        1.2s    26.00nm         5.2mb
BJI     66.93 322 eP    29 14.00  -0.5
        1.6s    34.00nm         5.2mb
      Z 20s     0.48um          4.[illegible]Msz
                eS    38 08.00
TIY     67.89 318 eP    29 20.40  [illegible]
      Z 20s     1.25um          5.[illegible]Msz
      N 20s     1.38um
XAN     68.30 313 P     29 22.00  [illegible]
        1.4s    50.00nm         5.4mb
      Z 15s     0.82um          5.[illegible]MszX
                S     38 23.00
                SS    42 52.00
KMI     69.03 302 Pd    29 30.50  [illegible]
        1.5s    90.00nm         5.[illegible]mb
      Z 20s     0.90um          5.[illegible]Msz
                eS    38 33.00
CHTO    69.98 295 ePd   29 35.4[illegible]
HHC     70.23 321 P     29 35.6[illegible]
        1.4s    57.00nm         5.[illegible]
      Z 19s     0.74um          [illegible]Msz
                S     38 49.[illegible]
CD2     70.65 308 iPd   29 39.5[illegible]
        1.2s    66.00nm         [illegible]
BTO     71.06 320 eP    29 3[illegible]
                eS    38 5[illegible]
LZH     72.93 313 eP    29 5[illegible]
        1.4s   110.00nm         [illegible]
      Z 16s     0.73um          [illegible]
      E 15s     0.51um
                pP    30 [illegible]
                eS    39 [illegible]
CIT     75.87 331 eP    30 [illegible]
GTA     77.28 315 eP    30 16.5[illegible]
        1.5s    19.00nm         4.[illegible]
      Z 18s     0.86um          5.[illegible]Msz
      E 15s     0.33um
YAK     77.35 345 eP    30 15.5[illegible]
        1.5s    55.00nm         5.4[illegible]
SVW     78.83  19 eP    30 23.1[illegible]
```

```
        1.1s    65.89nm         5.6mb
SPA     79.08 180 iPd   30 24.00  -1.6
        0.9s    27.27nm         5.3mb
TTA     80.09  18 eP    30 30.87  -0.1
        1.3s    13.64nm         4.8mb
LSA     80.27 303 eP    30 30.00  -3.1X
PMR     81.36  21 eP    30 37.50   0.0
TOA     82.75  21 eP    30 46.90   2.1
IMA     83.12  16 eP    30 46.33  -0.5
        1.1s     8.08nm         4.8mb
MAW     83.86 202 eP    30 51.50   1.1
        1.0s    25.00nm         5.3mb
FBA     84.04  19 eP    30 49.68  -1.6
        0.9s    11.20nm         5.1mb
ARN     85.10  51 eP    30 57.41   0.2
LGPM    85.25  47 ePc   30 58.47   0.4
TIK     85.57 350 eP    30 59.00   0.2
        1.6s    26.00nm         5.2mb
      Z 18s     0.70um          5.1Msz
                e     31 08.00  28km
BCH     85.58  53 eP    30 59.81   0.0
ORV     85.79  49 eP    31 00.20  -0.4
LBFM    86.06  47 eP    31 01.95  -0.2
CMB     86.17  50 eP    31 01.98  -0.6
        1.0s     8.10nm         4.9mb
BMW     86.80  42 eP    31 05.86   0.4
ISA     86.97  53 eP    31 06.17  -0.4
        1.1s    10.07nm         5.0mb
SSK     87.21  55 eP    31 08.05   0.2
WMQ     87.34 315 eP    31 08.20   0.0
        2.5s    62.00nm         5.4mb
GMW     87.44  41 eP    31 08.03  -0.4
PEC     87.55  55 eP    31 09.23  -0.1
        1.4s    38.84nm         5.5mb
PLM     87.66  56 eP    31 09.45  -0.6
BONR    87.73  51 eP    31 10.87   0.4
MCW     87.78  40 eP    31 10.23   0.1
RMW     88.04  41 eP    31 11.20  -0.2
GLA     89.24  56 eP    31 17.86   0.4
INK     90.65  19 eP    31 28.50   5.4X
        1.0s     2.00nm         4.4mb
ARUT    91.41  52 eP    31 27.99   0.4
MSU     92.54  51 eP    31 33.99   1.2
HVU     92.77  48 eP    31 33.94   0.2
LRM     93.84  44 eP    31 38.50  -0.2
PV10    94.93  52 eP    31 45.57   1.7
NRI     95.06 340 eP    31 44.50   1.1
        1.4s    10.00nm         5.1mb
YKA     96.04  28 eP    31 46.00  -2.0
        1.0s     3.00nm         4.7mb
NVL     96.15 189 eP    31 50.00   1.4
CBN    119.47 328 (PKP) 37 12.30   1.6
      Z 16s   261.80um          7.9MszX
                (PP)  38 22.70
                e     38 57.80
                (SKP) 40 57.50
                e     50 58.90
                e     56 35.20
APO    125.60 342 ePKP  37 20.20  -2.2
        0.5s     0.90nm
GEC2   134.54 332 PKP   37 37.50  -2.4
        0.8s     0.69nm
SCB1   148.69 129 ePKP  38 07.40   1.7
      S.D. = 1.2  on  77 of  85 obs.
-----------------------------------
% OCT  17, 1993  04h 01m 25.47s
  59.459 N          153.176 W
  DEPTH = 106.3km
  SOUTHERN ALASKA                  (  2)
    <AEIC>.

A[illegible]E    0.14 225 eP    01 39.71   0.8
A[illegible]     0.15 240 eP    01 39.91   1.0
A[illegible]     0.16 232 eP    01 40.05   1.0
A[illegible]     0.16 233 eP    01 40.16   1.0
A[illegible]     0.17 235 eP    01 40.24   1.2
A[illegible]     0.18 240 ePc   01 39.95   1.0
A[illegible]     0.18 226 eP    01 39.82   0.8
                        eS    01 50.76
[illegible]      0.20 352 iPc   01 39.94   0.8
[illegible]      0.58 205 iPd   01 41.79  -1.0
                        eS    01 54.75
[illegible]      0.61   5 eP    01 42.22  -0.9
                        eS    01 55.31
[illegible]      0.61   2 eP    01 42.32  -0.8
[illegible]      0.61 303 iPd   01 42.14  -0.8
                        eS    01 54.99
```

```
ILIM    0.63  10 ePd   01 42.38  -0.8
XLV     0.74  90 eP    01 43.22  -0.9
                eS    01 57.75
HOM     0.81  75 eP    01 44.06  -0.6
                eS    01 58.79
RED     0.98  12 iPd   01 45.61  -1.0
                eS    02 01.45
CNPM    0.99  85 iPc   01 45.53  -1.1
                eS    02 01.56
RS2     1.03  12 iPd   01 46.32  -0.9
RSO     1.03  12 ePd   01 46.29  -0.9
RDW     1.04  10 iPd   01 46.40  -0.9
                eS    02 03.12
NCT     1.11   6 iPd   01 47.13  -0.9
                eS    02 04.07
DFR     1.16  12 iPd   01 47.69  -0.9
RDT     1.18  19 iPd   01 47.66  -1.1
                eS    02 05.13
BRLK    1.20  74 eP    01 47.66  -1.3
                eS    02 04.78
NKA     1.61  36 eP    01 54.69   0.9
BKG     1.68  15 iPd   01 53.94  -0.8
KDC     1.75 168 eP    01 52.75  -2.8
                eS    02 14.69
CKL     1.79  13 eP    01 55.41  -0.8
CKT     1.81  15 iPd   01 55.39  -1.1
SPU     1.82  17 iPd   01 55.41  -1.1
SLKM    1.82  53 eP    01 55.15  -1.4
CRP     1.88  15 ePd   01 55.97  -1.5
                eS    02 20.75
CGLM    1.94  17 iPd   01 57.17  -1.0
SEW     1.99  69 eP    01 57.03  -1.6
NCG     2.02  14 ePd   01 58.20  -0.9
SVW     2.05 325 iPd   01 57.93  -1.6
MPA     2.18  60 eP    01 59.45  -1.6
PMS     2.54  44 P     02 04.50  -1.4
                S     02 33.70
SKT     2.66  17 eP    02 06.15  -1.3
PWA     2.74  35 P     02 07.40  -1.1
LTI     2.76  75 eP    02 06.28  -2.5
PWL     2.80  58 ePc   02 07.32  -2.1
MTU     2.85  77 eP    02 08.28  -1.8
PLRM    2.93  41 eP    02 09.46  -1.6
PMR     2.93  41 eP    02 08.41  -2.7
KNK     3.05  48 eP    02 10.76  -2.1
GHO     3.13  40 eP    02 12.02  -1.9
CFI     3.20  55 eP    02 12.69  -2.1
KLU     4.13  57 iPc   02 24.97  -2.6
                eS    03 09.97
FBA     6.01  22 ePc   02 49.83  -3.5
IMA     6.64 358 eP    02 59.80  -2.3
        51 obs. associated
-----------------------------------
% OCT  17, 1993  04h 43m 41.35± 0.87s
  37.264 N ± 7.2km    2.495 W ± 8.3km
  DEPTH =  10.0km  (geophysicist)
 SPAIN                              (377)
     mbLg 2.5 (MDD).

ENIJ    0.37 142 iPd   43 48.90  -0.1
                e     43 53.90
EHUE    0.56 352 eP    43 51.84  -0.9
                e     44 00.20
ECOG    0.85 271 iPc   43 57.95   0.1
                e     44 09.20
EGUA    0.96 244 eP    43 59.59   0.0
EVIA    1.37 360 eP    44 07.53   0.9
                e     44 26.30
     S.D. = 0.9  on   5 of   5 obs.
-----------------------------------
   OCT  17, 1993  06h 38m 38.17± 0.16s
   53.998 N ± 4.7km  161.509 E ± 2.9km
   DEPTH =  34.8km  ( 24 depth phases)
   4.7mb ( 43 obs.)  4.5Msz (  8 obs.)
 OFF EAST COAST OF KAMCHATKA      (219)

PET     1.97 241 iPn   39 09.00  -0.8
                eS    39 34.00
SKR     4.70 227 ePn   39 46.50  -2.1
      Z 16s     1.40um
      N 14s     1.50um
      E 16s     1.50um
SMY     7.64  94 eP    40 24.18  -5.7X
MGD     8.45 321 ePn   40 45.00   3.9X
      Z 14s     3.80um
YSS    13.82 247 (P)   41 55.30   1.5
      Z 14s     1.80um
```

17d 06h

```
     N  16s     0.40um
     E  14s     0.70um
KUSJ   15.53 232 eP    42 10.00  -6.1X
ASAJ   15.78 239 eP    42 18.70  -0.6
HOOJ   16.75 233 eP    42 23.90  -7.6X
MRRJ   17.80 238 eP    42 41.10  -3.5X
YAK    18.49 308 eP    42 51.50  -1.4
       0.9s    77.00nm          4.9mb
                eS     46 20.00
OFUJ   20.12 230 eP    43 06.50  -5.1X
YAMJ   21.60 232 eP    43 26.10  -0.7
TIK    22.62 334 iPd   43 38.00   1.4
       1.4s    33.00nm          4.6mb
     Z  14s     0.50um          4.1MszX
                 i     43 50.00  48kmX
                 e     44 09.00
MDJ    22.65 259 eP    43 37.00  -0.2
       1.0s    21.00nm          4.6mb
NIIJ   22.83 232 eP    43 38.50  -0.5
KAKJ   23.16 228 P     43 42.60   0.5
TTA    23.52  51 eP    43 46.71   1.1
       0.7s    13.13nm          4.6mb
SVW    23.70  55 (P)   43 47.72   0.4
       1.3s    44.20nm          4.8mb
MAT    23.77 232 iPc   43 48.60   0.4
       1.1s   215.19nm          5.6mb
     Z  20s     0.35um          3.8Msz
                eS     48 10.00
CHJJ   23.81 230 P     43 49.50   1.0
MTMJ   23.93 233 P     43 50.70   1.0
IIDJ   24.78 231 P     43 58.60   0.7
IMA    24.80  43 eP    43 58.11   0.1
       0.7s     7.62nm          4.4mb
CRP    25.36  55 eP    44 03.87   0.4
CN2    25.54 261 P     44 04.00  -1.0
       0.8s    13.00nm          4.6mb
     Z  18s     0.66um          4.2Msz
TSRJ   25.64 234 P     44 06.10   0.1
KDC    25.69  63 eP    44 03.93  -2.3
       0.8s    14.43nm          4.6mb
BOD    26.36 298 eP    44 11.20  -1.3
       0.9s    14.00nm          4.6mb
WKYJ   26.89 233 P     44 18.60   1.0
YONJ   27.15 238 P     44 19.20  -0.7
FBA    27.19  46 eP    44 19.65  -0.3
       1.0s     9.24nm          4.4mb
TKSJ   27.83 235 P     44 28.60   2.6X
SHNJ   29.18 239 eP    44 39.50   1.3
KUMJ   30.58 238 P     44 53.00   2.3
KAGJ   31.64 236 P     45 02.00   1.9
INK    32.64  39 eP    45 09.00   0.7
       0.9s     3.00nm          4.2mb
                pP     45 19.00  35km
BJI    33.30 264 eP    45 16.50   2.1
       0.8s     4.00nm          4.4mb
     Z  18s     0.65um          4.4Msz
ZAK    35.01 288 eP    45 27.80  -1.2
       1.3s     6.00nm          4.4mb
     Z  13s     0.98um          4.7MszX
                 e     46 55.00 466kmX
                 e     48 01.50
TIA    35.32 258 eP    45 30.90  -0.9
NRI    35.46 324 eP    45 32.00  -0.6
       1.0s     8.00nm          4.6mb
     Z  18s     1.50um          4.8Msz
                 e     48 03.00
BTO    36.57 270 eP    45 42.00  -0.5
     N  11s     0.22um
     E  12s     0.32um
                eS     51 20.00
NJ2    37.35 252 Pc    45 48.50  -0.4
UER    39.46 295 eP    46 05.00  -1.3
WHN    41.02 255 eP    46 18.50  -0.9
YKA    41.92  44 eP    46 29.50   3.0X
       0.6s     2.40nm          4.1mb
RES    42.17  23 eP    46 40.00  11.7X
       0.8s     2.00nm
LZH    43.19 270 eP    46 37.00  -0.4
       1.1s    40.00nm          5.1mb
     Z  15s     0.48um          4.5MszX
     E  13s     0.37um
NVS    43.30 304 eP    46 35.40  -2.4
       1.2s    16.00nm          4.6mb
     Z  14s     0.50um          4.6MszX
                 e     48 25.20 642kmX
GTA    43.35 276 eP    46 37.50  -1.0
       1.0s     9.00nm          4.5mb
```

```
     Z  18s     0.86um          4.7Msz
     N  15s     0.35um
JCW    46.24  64 P     47 01.59   0.1
BMW    46.60  67 eP    47 04.10  -0.3
RMW    46.76  65 eP    47 05.36  -0.3
                e     47 16.87  41km
CD2    46.90 265 eP    47 05.50  -1.4
RVC    46.99  66 P     47 07.66   0.2
TDL    47.22  66 P     47 09.15  -0.2
FL2    47.25  67 P     47 09.56   0.0
WPW    47.37  66 P     47 10.46  -0.1
MTMW   47.43  67 P     47 11.12   0.1
PGO    47.65  68 P     47 13.00   0.4
NAC    47.73  65 P     47 13.01  -0.3
EBG    47.76  65 P     47 13.68   0.2
SAW    47.88  63 P     47 13.87  -0.6
SSOR   48.03  68 P     47 15.86   0.1
VLL    48.07  67 P     47 15.95  -0.1
TDH    48.12  67 P     47 16.15  -0.3
MDW    48.38  65 P     47 18.00  -0.2
VBEM   48.38  67 P     47 18.42   0.0
GYA    48.52 258 P     47 19.00  -0.7
       1.0s    22.00nm          5.1mb
NEW    48.73  62 eP    47 20.19  -0.8
       0.9s    10.57nm          4.9mb
                e     47 31.25  39km
VIPM   49.26  67 P     47 24.95  -0.4
ORV    52.07  73 eP    47 45.68  -0.9
QIZ    52.55 249 P     47 51.20   0.9
LRM    52.74  61 eP    47 51.20  -0.6
                e     48 01.90  36km
                e     51 05.20
COE    53.56  75 (P)   47 57.75   0.2
BONR   54.98  72 ePd   48 08.60   0.2
LSA    55.21 274 P     48 06.80  -3.6X
       0.9s    14.00nm          5.0mb
TNP    55.50  71 iPd   48 12.05   0.0
       0.6s     9.61nm          5.0mb
                 i     48 22.85  36km
DUG    56.43  66 eP    48 18.38  -0.3
       0.9s    15.86nm          5.0mb
                 i     48 29.53  38km
TPNV   56.84  71 eP    48 21.51  -0.1
       0.7s     5.52nm          4.7mb
                e     48 31.86  34km
DAU    57.12  65 eP    48 23.78   0.0
                e     48 35.02  38km
ULM    57.59  48 eP    48 29.50   3.0X
GSC    57.71  73 ePd   48 27.22  -0.5
                e     48 38.46  38km
EMUT   57.78  65 eP    48 28.29   0.0
                e     48 39.35  38km
ARUT   57.80  69 eP    48 28.27  -0.1
MSU    57.98  67 eP    48 29.92   0.3
SRU    58.44  66 ePd   48 32.70  -0.2
                e     48 43.77  38km
CHTO   58.91 259 eP    48 35.60  -0.5
       0.8s    45.94nm          5.7mb
KAF    58.98 337 iP    48 35.70  -0.3
       0.7s    12.30nm          5.1mb
PV09   59.63  65 eP    48 41.07  -0.2
                e     48 51.83  36km
PV10   59.77  65 ePc   48 42.29   0.1
                e     48 52.82  35km
PV08   59.84  65 eP    48 42.37  -0.4
                e     48 52.90  35km
BDT    60.11 258 eP    48 44.20  -0.1
NST    60.72 256 eP    48 49.20   0.8
GOL    60.74  62 eP    48 49.09   0.3
       0.9s     4.64nm          4.6mb
                e     48 59.76  36km
NUR    60.78 337 iP    48 48.00  -0.3
       0.6s     7.80nm          5.0mb
OBN    62.21 328 eP    48 49.00  -9.1X
     Z  20s     0.40um          4.6Msz
                e     49 39.00 217kmX
HFS    63.34 343 eP    49 04.10  -1.4
       0.5s     3.40nm          4.7mb
ALQ    63.71  66 ePc   49 08.36  -0.2
       0.9s     7.33nm          4.8mb
                e     49 15.08  22km
                e     49 19.02
WMOK   67.93  61 eP    49 34.46  -0.8
       0.7s     7.57nm          4.9mb
                e     49 45.41  36km
IPM    69.27 248 ePc   49 44.00   0.2
GAC    69.49  39 eP    49 45.00   0.3
```

```
LTX    69.51  68 eP    49 43.53  -1.7
                e     49 54.32  35km
FVM    69.51  53 eP    49 46.32   1.3
       0.7s     9.96nm          5.0mb
                e     49 53.98  25km
EKA    70.30 351 Pc    49 50.30   0.8
       0.7s     3.20nm          4.5mb
ELC    70.64  53 eP    49 52.35   0.5
                e     50 01.27  29km
KSP    71.53 338 iPc   49 57.60   0.6
CLL    71.80 340 iP    49 58.90   0.3
       1.3s    31.00nm          5.2mb
                 i     50 11.10  41km
HYB    71.99 275 eP    49 59.50  -0.8
BRG    72.02 339 iP    50 00.60   0.7
       1.0s    14.00nm          4.9mb
DLF    72.61 353 eP    50 15.00  11.6X
DCN    72.62 353 eP    50 15.00  11.6X
MOX    72.71 340 eP    50 04.70   0.7
       1.5s    17.00nm          4.8mb
     Z  19s     0.30um          4.6Msz
PRU    72.73 338 iP    50 05.00   0.9
                e     50 19.40  51kmX
VRI    73.33 329 eP    50 04.00  -3.7X
GRF    73.70 340 ePc   50 11.10   1.3
       1.4s    21.00nm          4.9mb
     Z  19s     0.30um          4.6Msz
                e     50 18.90  25km
                e     50 24.00
KHC    73.74 339 P     50 11.40   1.3
       1.1s    16.50nm          4.9mb
                e     50 21.00  31km
                e     50 29.50
ZST    73.82 336 iP    50 11.60   1.1
SRO    73.88 335 iP    50 12.60   1.8
MLR    73.91 329 ePd   50 12.00   0.8
GEC2   73.99 339 P     50 11.90   0.3
       0.7s     2.51nm          4.3mb
                e     50 16.60  15kmX
                e     50 25.30
GBA    75.65 273 Pc    50 22.00   0.6
WR2    77.26 206 iPc   50 29.30  -1.0
       0.8s     8.70nm          4.8mb
                 i     50 41.30  40km
WRA    77.26 206 P     50 29.80  -0.5
       0.6s     4.30nm          4.7mb
ASPA   80.94 205 iPc   50 50.20   0.0
       0.9s     8.60nm          4.7mb
LPB   126.53  65 ePKP  57 41.00   1.3
CNCB  126.82  65 ePKP  57 41.00   0.6
     S.D. = 0.9  on 111 of 126 obs.
-----------------------------------
% OCT  17, 1993  06h 44m 36.20± 1.44s
   40.172 N ±13.8km   28.740 E ± 6.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.7 (ISK).

IZI      0.58  73 iPg   44 47.90  -0.2
                iSg   44 57.40
ISK      0.93  15 ePg   44 53.40  -0.4
HRT      0.96  47 ePg   44 54.90   0.4
CTT      1.00 347 iPg   44 55.40   0.2
                iSg   45 08.40
KGT      1.13 285 iPn   44 57.40   0.0
EYL      1.15  70 iPn   44 57.90   0.1
     S.D. = 0.4  on   6 of   6 obs.
-----------------------------------
   OCT  17, 1993  06h 54m 01.96± 0.40s
   11.802 N ± 7.3km   87.001 W ± 6.5km
   DEPTH =  33.0km  (normal)
   4.8mb ( 17 obs.)
 NEAR COAST OF NICARAGUA          ( 74)
      MD 4.7 (UPA).

YUP      3.62 311 eP    54 58.44   1.1
IXG      4.11 305 ePc   55 05.49   1.3
                eS     56 00.25
BVA      4.54 309 eP    55 12.49   2.0
BRU      5.29 124 eP    55 21.78   0.6
DVD      5.59 126 eP    55 25.62   0.6
TPX      5.98 302 (P)   55 38.00   7.5X
SCX      7.34 313 (P)   56 40.00  50.4X
UPA      7.86 110 eP    55 58.66   1.7
OXX     10.78 300 (P)   56 41.00   3.6X
PPM     13.33 304 (P)   56 58.00 -13.9X
ACX     13.44 294 (P)   57 15.00   2.1
```

```
III     13.69 300 (P)    57 19.00   2.6X
CRX     14.36 303 (P)    57 35.00   9.7X
MRX     15.75 302 (P)    57 46.00   3.0X
SDV     16.36  99 eP     57 54.00   2.9X
TOV     17.02  95 eP     58 01.10   1.8
SGS     22.11  15 eP     58 57.54   1.4
OXF     22.71 355 eP     59 03.13   1.0
PWLA    23.09 358 eP     59 06.90   1.1
UYO     23.28 344 iPc    59 08.60   1.0
MYNC    23.31   6 eP     59 09.82   1.8
        1.1s    41.15nm          4.9mb
LTX     23.35 321 eP     59 08.53   0.0
MIAR    23.42 346 ePc    59 29.01  20.0X
CEH     25.03  15 eP     59 25.45   0.9
        0.7s    44.14nm          5.2mb
FNO     25.19 340 iPd    59 26.50   0.4
MEO     25.19 337 iPc    59 24.40  -1.7
WMOK    25.22 337 eP     59 26.11  -0.3
        1.2s   383.13nm          5.9mb X
TUL     25.29 343 iP     59 26.80  -0.2
OCO     25.45 340 iPc    59 28.10  -0.5
FVM     26.25 354 (P)    59 36.46   0.5
        1.4s    28.15nm          4.7mb
ACO     27.10 338 iPc    59 42.30  -1.4
CVL     27.17  15 eP     59 45.02   0.7
CBN     27.66  16 e(P)   59 50.00   1.2
ALQ     29.04 326 eP     00 01.36  -0.1
        1.8s    28.17nm          4.7mb
                ePcP     03 09.00
TUC     29.91 317 (P)    00 10.70   1.4
        1.0s    21.25nm          4.9mb
BINY    31.77  16 eP     00 24.81  -0.6
        1.1s    54.25nm          5.3mb
GLD     32.17 333 eP     00 28.56  -0.6
        1.0s    11.45nm          4.7mb
GOL     32.20 333 eP     00 28.54  -1.0
        1.0s    20.96nm          5.0mb
                ePcP     03 17.30
PV08    32.91 328 eP     00 35.77   0.0
                ePcP     03 19.58
PV10    32.97 327 eP     00 35.23  -1.0
                ePcP     03 19.01
PV09    33.11 327 (P)    00 37.53   0.1
                ePcP     03 20.12
LPAZ    33.58 146 P      00 40.20  -1.9
LPB     33.79 146 eP     00 43.00  -0.7
                LR       13 40.00
CNCB    34.09 146 P      00 46.00  -0.4
SRU     34.30 327 eP     00 47.33  -0.3
                ePcP     03 21.97
RSNY    34.35  16 eP     00 47.15  -0.6
        1.0s    26.77nm          5.1mb
PLM     34.72 313 eP     00 52.37   1.0
MSU     34.79 324 eP     00 52.41   0.4
                ePcP     03 24.81
EMUT    34.96 327 eP     00 53.11  -0.3
ARUT    35.05 322 eP     00 55.25   1.1
                ePcP     03 26.46
GAC     35.18  14 eP     00 54.00  -0.9
PEC     35.21 314 (P)    00 56.34   1.0
        1.0s    12.43nm          4.8mb
DAU     35.62 327 eP     00 59.11   0.0
                ePcP     03 27.50
TPNV    36.29 319 (P)    01 04.08  -0.5
        0.9s    10.40nm          4.7mb
DUG     36.31 326 eP     01 03.50  -1.2
        1.1s    21.63nm          5.0mb
HVU     37.40 328 eP     01 14.07   0.2
                ePcP     03 31.67
TNP     37.58 319 (P)    01 15.89   0.4
        0.8s     3.60nm          4.3mb
BONR    38.20 318 eP     01 21.15   0.3
                ePcP     03 34.69
LMN     38.83  25 eP     01 32.50   6.9X
ULM     39.02 351 eP     01 27.50   0.3
LRM     40.22 332 iPd    01 37.90   0.4
                e        03 41.80
ORV     41.17 318 eP     01 46.13   1.1
LBFM    42.40 320 eP     01 55.56   0.2
                ePcP     03 48.46
JAQ     42.85  10 eP     01 57.00  -1.5
NEW     44.18 331 eP     02 08.01  -1.5
        0.8s     8.33nm          4.6mb
VGB     44.21 326 eP     02 10.27   0.5
DPW     44.43 330 eP     02 11.34  -0.2
LON     45.54 327 eP     02 19.24  -1.2
                ePcP     03 57.20
RMW     45.99 327 eP     02 23.09  -0.8
BMW     46.15 326 (P)    02 25.42   0.2
                ePcP     04 00.97
GMW     46.56 327 eP     02 27.15  -1.3
PPD     48.54 134 eP     02 37.20  -7.0X
YKA     54.35 345 eP     03 24.40  -3.0
        0.9s    10.80nm          4.9mb
RES     63.02 358 eP     04 25.00  -2.6
BALM    63.35 333 (P)    04 29.07  -1.1
INK     63.95 343 eP     04 32.00  -1.8
        1.0s     5.00nm          4.6mb
FBA     67.19 336 eP     04 52.45  -2.3
        1.0s     4.87nm          4.6mb
WR2    139.48 253 iPKPd 13 29.00   0.3
        0.6s     2.90nm
CHTO   149.02 349 ePKPd 13 48.00   3.1X
GBA    150.41  32 PKP   13 48.00   1.0
     S.D. = 1.2  on  68 of  80 obs.
-----------------------------------
   OCT  17, 1993  07h 49m 55.52± 1.00s
   39.631 N ± 7.9km   19.917 E ± 8.2km
   DEPTH =  19.5 ±  5.4 km
 GREECE-ALBANIA BORDER REGION     (392)
      MD 3.6 (ATH). ML 3.6 (THE), 3.3
      (TIR).

KEK      0.12 312 eP     50 00.80   1.1
SRN      0.26  14 iPgc   50 00.50  -1.0
                iSg      50 07.00
IGT      0.34 107 iPg    50 01.84  -0.9
                eSg      50 11.90
TPE      0.67   6 iPgc   50 06.00  -2.3
LSK      0.74  45 iPgd   50 05.50  -4.1X
VLO      0.90 339 ePn    50 16.40   4.2X
                iSn      50 33.00
KBN      1.19  34 ePn    50 15.00  -2.2
                iSn      50 32.50
VLS      1.54 160 eP     50 21.50  -0.6
KZN      1.58  64 eP     50 21.00  -1.7
                eS       50 44.50
FNA      1.60  44 ePb    50 23.48   0.4
                eSb      50 48.48
OHR      1.62  24 iPn    50 24.20   0.9
                i        50 26.20
                i        50 44.20
                i        50 47.00
                i        50 49.90
AGG      1.97 107 ePn    50 28.92   0.6
                eSn      50 56.10
LACI     2.01 356 ePn    50 30.90   2.1
                iSn      50 04.20
LIT      2.03  76 iPn    50 30.14   0.9
                eSn      51 01.00
GRG      2.32  54 ePn    50 34.04   0.7
SDA      2.44 353 ePn    50 37.40   2.4
THE      2.54  66 ePn    50 36.50   0.0
SKO      2.61  26 iPn    50 38.00   0.6
                i        50 44.00
                i        50 49.50
                i        50 53.00
                iSn      51 03.60
                i        51 09.50
BCI      2.74   2 ePn    50 40.00   0.8
KNT      2.74  55 iPn    50 39.64   0.3
SOH      2.89  65 ePn    50 41.76   0.4
PAIG     2.91  83 ePn    50 41.92   0.2
SRS      3.18  61 ePn    50 45.52   0.0
OUR      3.20  76 ePn    50 46.40   0.6
GEC2    10.23 336 Pn     52 22.40  -2.0
                Sn       54 15.20
KHC     10.52 337 eP     52 27.00  -1.3
NB2     22.10 349 P      54 24.80 -26.2X
        0.9s     5.00nm
     S.D. = 1.4  on  24 of  27 obs.
-----------------------------------
%  OCT  17, 1993  07h 54m 47.56± 1.83s
   30.362 S ±17.1km   68.356 W ±14.0km
   DEPTH =  33.0km  (normal)
 SAN JUAN PROVINCE, ARGENTINA     (137)

RTLL     0.97 186 ePc    55 05.50   0.6
                S        55 21.00
RTRS     0.97 281 iPc    55 05.00   0.1
                (S)      55 17.50
RTCB     1.18 199 ePc    55 07.00  -1.0
                (S)      55 23.00
CFA      1.25 175 ePd    55 09.30   0.5
                S        55 27.20
MRA      3.05 133 e(P)c  55 34.30  -0.3
     S.D. = 0.9  on   5 of   5 obs.
-----------------------------------
*  OCT  17, 1993  07h 57m 29.55± 2.60s
   36.751 N ±28.3km   29.082 E ±12.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 3.0 (ISK).

ELL      0.66  90 ePg    57 42.50  -0.3
                eSg      57 54.00
CIN      1.16 317 eP     57 52.00   0.7
BCK      1.40  59 ePn    57 56.00   0.9
KHL      1.61  12 ePn    57 57.50  -0.6
IZM      2.19 319 ePn    58 05.90  -0.6
     S.D. = 1.1  on   5 of   5 obs.
-----------------------------------
&  OCT  17, 1993  08h 21m 58.45s
   40.671 N          125.316 W
   DEPTH =  22.1km
 OFF COAST OF NORTHERN CALIFORNIA( 34)
      <GM-P>. MD 3.5 (GM). ML 4.0
      (BRK).

EKR      0.90  88 iP     22 13.49  -1.7
KMPM     0.95 105 iPc    22 14.57  -1.5
ARC      0.96  77 ePc    22 14.31  -2.1
                eS       22 25.69
FHC      1.02  82 iP     22 15.40  -1.9
WDC      2.12  92 ePc    22 30.84  -2.3
YBH      2.23  61 eP     22 33.06  -1.8
MIN      2.85  95 eP     22 41.07  -2.6
LMEM     2.85  91 eP     22 41.23  -2.6
                eS       23 14.59
DBO      2.89  32 P      22 43.26  -1.0
BBOR     2.96  41 P      22 45.01  -0.3
NTYM     3.07 137 eP     22 43.60  -3.0
ORV      3.13 110 eP     22 44.37  -3.2
                eS       23 19.00
HSO      3.30  29 P      22 49.13  -0.9
RNO      3.44  19 P      22 54.17   2.1
HBO      3.87  34 P      22 58.48   0.3
MPOR     4.05  18 P      23 02.58   2.0
FBO      4.16  28 P      23 02.39   0.1
TCO      4.40  37 P      23 05.71   0.0
ARN      4.44 137 ePc    23 03.05  -3.1
COE      4.44 139 eP     23 02.83  -3.3
SSOR     4.68  26 P      23 09.19  -0.5
BPO      4.79  33 P      23 10.91  -0.4
GMO      4.95  39 P      23 13.16  -0.4
GT2      5.01  26 P      23 14.75   0.6
VIPM     5.17  41 P      23 16.54  -0.1
VBEM     5.17  31 P      23 16.66   0.1
ISA      7.35 131 eP     23 44.50  -2.7
GSC      8.59 126 eP     24 01.74  -2.8
       28 obs. associated
-----------------------------------
&  OCT  17, 1993  08h 36m 24.59s
   61.885 N          151.717 W
   DEPTH = 110.2km
 SOUTHERN ALASKA                  (  2)
      <AEIC>.

SKT      0.13  43 eP     36 39.22   0.8
                eS       36 50.70
NCG      0.53 204 iP     36 41.20  -0.8
CGLM     0.60 194 eP     36 41.61  -0.9
CRP      0.65 199 eP     36 41.32  -1.7
CKN      0.70 199 eP     36 42.70  -0.6
BGL      0.70 208 eP     36 42.64  -0.7
SPU      0.72 193 iP     36 42.60  -0.9
                eS       36 57.21
CKT      0.73 199 eP     36 42.70  -0.8
CKL      0.75 204 eP     36 43.09  -0.7
CUT      0.86  52 iP     36 43.80  -0.8
                eS       36 58.85
BKG      0.86 198 eP     36 43.89  -0.9
                eS       37 00.04
PWA      0.91 104 P      36 44.70  -0.4
                S        37 01.40
PMS      1.22 121 P      36 48.00  -0.5
PLRM     1.27 102 eP     36 47.73  -1.2
                eS       37 07.24
GHO      1.33  94 eP     36 48.94  -0.9
                eS       37 09.09
RDT      1.36 195 eP     36 49.74  -0.4
```

17d 08h

```
                 eS    37 09.46
DFR     1.38 200 eP    36 49.88  -0.6
NCT     1.45 204 eP    36 51.00  -0.3
HUR     1.46  41 eP    36 50.00  -1.4
                 eS    37 09.82
RDW     1.50 201 eP    36 51.59  -0.4
                 eS    37 13.40
RS2     1.51 200 eP    36 51.81  -0.4
                 eS    37 13.67
SLKM    1.56 152 eP    36 50.41  -2.1
SML     1.61  91 eP    36 51.90  -1.2
KNK     1.63 106 iP    36 52.32  -1.1
                 eS    37 15.17
TRF     1.70  22 eP    36 52.82  -1.7
                 eS    37 15.32
KTH     1.71  12 eP    36 52.39  -2.1
                 eS    37 15.37
MPA     1.81 140 eP    36 55.18  -0.4
                 eS    37 18.77
ILIM    1.91 199 eP    36 56.21  -0.8
PWL     1.93 121 eP    36 55.79  -1.4
CFI     2.02 109 eP    36 56.80  -1.5
RND     2.02  40 eP    36 56.86  -1.5
SCM     2.08  89 iP    36 57.90  -1.3
                 eS    37 25.40
HOM     2.23 179 P     37 03.50   2.4
TTA     2.26 300 eP    36 57.92  -3.6
CNPM    2.38 174 eP    37 03.82   0.8
TOA     2.63  83 P     37 05.40  -1.0
LTI     2.64 133 eP    37 04.66  -1.8
VLZ     2.69 104 eP    37 05.18  -1.9
FID     2.77 112 eP    37 06.09  -2.1
KLU     2.79  96 eP    37 06.79  -1.8
WRH     3.07  31 eP    37 09.70  -2.6
CDD     3.12 199 eP    37 12.78  -0.1
CCB     3.29  31 eP    37 12.58  -2.6
ILB     3.62  35 eP    37 16.97  -2.8
IL1     3.62  35 eP    37 16.93  -2.8
GLB     3.80  93 eP    37 21.13  -1.0
      46 obs. associated
-----------------------------------
?  OCT  17, 1993  08h 42m 18.63± 1.37s
   39.108 N ± 7.9km   27.648 E ±17.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.7 (ISK).

IZM     0.77 203 ePg   42 33.70   0.0
                 eSg   42 47.90
EDC     1.25   8 ePn   42 42.00   0.2
EZN     1.25 305 ePn   42 41.90   0.1
KGT     1.37 349 ePn   42 43.40  -0.3
     S.D. = 0.4  on   4 of   4 obs
-----------------------------------
?  OCT  17, 1993  08h 56m 25.42± 1.79s
   16.535 S ±44.8km  176.653 W ±42.5km
   DEPTH =  33.0km  (normal)
   4.9mb (  6 obs.)
 FIJI ISLANDS REGION               (181)

ARMA   32.08 239 eP    02 52.30   0.4
CTA    35.34 258 iPd   03 22.00   0.0
CNB    35.59 232 iPc   03 22.00   0.0
       0.4s    12.00nm          5.2mb
TOO    39.33 230 iPc   03 52.50   0.9
       0.9s    23.00nm          4.9mb
STK    40.77 240 iPd   04 04.80   0.4
       1.0s     6.10nm          4.2mb
WR2    46.52 258 iPc   04 51.30   0.6
       0.6s    11.60nm          5.0mb
WRA    46.54 258 P     04 51.8[illegible]
       0.6s     3.40nm          4.9mb
ASPA   46.79 253 iPd   04 52.9[illegible]
       1.1s    32.10nm          [illegible]
BALM   82.03  16 (P)   08 41.5[illegible]
GEC2  146.68 348 PKP   16 06.[illegible]
       0.9s     1.67nm
     S.D. = 1.6  on  10 of  [illegible]
-----------------------------------
%  OCT  17, 1993  09h 08m 12.[illegible]
   39.122 N ± 7.3km   27.626 E ±1[illegible]km
   DEPTH =  10.0km  (geophysic[illegible]
 TURKEY                            [illegible]
      ML 2.8 (ISK).

IZM     0.78 202 iPg   08 27.30
                 eSg   08 40.30
EZN     1.23 305 iPn   08 34.90  -0.1
EDC     1.24   8 ePn   08 35.00  -0.1
KGT     1.35 349 iPn   08 37.40   0.5
MFT     1.68 351 ePn   08 41.50  -0.3
     S.D. = 0.4  on   5 of   5 obs.
-----------------------------------
   OCT  17, 1993  09h 23m 00.98± 0.62s
   7.275 S ± 4.0km  119.750 E ± 5.8km
   DEPTH = 447.8 ±  7.7 km
   5.1mb ( 32 obs.)
 FLORES SEA                        (279)

MKS     2.06 352 iPd   24 02.60   0.4
MNI    10.04  31 ePc   25 20.40   0.1
       1.0s     5.50nm          3.9mb X
KNA    12.20 134 iPc   25 43.50  -0.4
MTN    12.50 117 iPc   25 46.80  -0.3
       0.3s   496.00nm          6.4mb X
KKM    13.69 345 eP    26 01.00   1.0
MBL    13.80 180 iPd   26 00.30  -0.7
       0.8s   103.00nm          5.4mb
KGM    18.81 299 iPc   26 53.50   1.9
       0.9s   461.80nm          6.0mb
WR2    18.96 133 iPd   26 54.10   1.1
       0.7s   302.70nm          5.9mb
                 i     27 28.20
                 eS    30 02.80
PLP    19.04  16 ePd   26 55.20   1.4
MEEK   19.29 183 iPd   26 56.40   0.2
       0.6s   110.00nm          5.6mb
IPM    22.09 302 ePc   27 21.90  -0.9
       1.1s   143.70nm          5.4mb
QIS    23.32 126 iPd   27 34.00   0.0
                 e     28 25.70
                 eS    31 16.80
BAL    23.38 187 iPd   27 33.20  -1.3
       0.3s    23.00nm          5.2mb
COOL   23.52 177 iPd   27 34.20  -1.6
       0.5s    27.00nm          5.0mb
SNG    23.88 307 iPc   27 39.10   0.0
       0.9s   154.62nm          5.5mb
KLB    24.26 184 eP    27 40.80  -1.7
FORT   24.64 163 iPd   27 45.60  -0.3
       0.8s   122.00nm          5.5mb
MUN    24.80 187 eP    27 46.00  -1.3
NWAO   25.63 185 eP    27 53.70  -1.1
       0.7s    22.00nm          4.7mb
QIZ    27.90 340 P     28 15.20   0.3
NNT    28.02 315 iPc   28 16.80   0.8
CTA    28.67 119 iPd   28 22.00   0.3
       1.0s    35.00nm          4.7mb
                 i     29 39.00
                 i     32 39.00
NST    29.96 320 eP    28 33.50   0.7
LOE    30.31 324 iPd   28 35.40  -0.5
STK    31.84 143 iPd   28 49.10   0.2
       0.5s    57.90nm          5.3mb
                 ePP   30 10.50
                 iPcP  31 26.40
                 eS    33 26.50
                 iScP  34 27.10
BDT    31.84 320 iPc   28 49.10   0.1
       0.9s   133.20nm          5.4mb
GUMO   32.43  50 eP    28 53.00  -1.0
       0.7s   237.50nm          5.7mb
PTG    32.43  50 eP    28 52.90  -1.1
GUA    32.43  50 eP    28 53.70  -0.4
       0.7s   191.78nm          5.6mb
ABE    32.61 150 iPd   28 56.00   0.5
[illegible]    33.06 322 iPc   28 59.60   0.3
       1.2s    53.13nm          4.8mb
[illegible]    35.86 340 iPc   29 23.40   0.5
       1.0s    51.00nm          4.9mb
[illegible]    36.21 333 Pc    29 28.00   2.1
       1.4s   110.00nm          5.1mb
ARMA   37.71 132 iPd   29 39.80   1.7
       0.5s    25.00nm          4.9mb
[illegible]    37.78 140 iPd   29 41.10   2.5
[illegible]    38.15 146 iPd   29 43.10   1.6
       0.3s    50.00nm          5.4mb
                 iPcP  31 46.20
                 iScP  34 51.00
CAN    38.72 140 iPd   29 47.30   1.1
                 iPcP  31 47.20
[illegible]    38.95 140 iPd   29 49.10   1.0
[illegible]    39.11 359 Pc    29 52.00   2.6
[illegible]    39.24 137 eP    29 52.50   2.1
       0.7s  1315.07nm          6.5mb X
CD2    40.94 339 iPc   30 04.50   0.1
       0.6s   230.00nm          5.8mb
XAN    42.35 347 Pc    30 15.30  -0.3
       1.0s    28.00nm          4.6mb
TKSJ   43.21  17 P     30 21.10  -1.2
WKYJ   43.91  19 P     30 27.80  -0.1
YONJ   44.17  16 P     30 29.50  -0.4
TSRJ   45.25  19 eP    30 37.50  -0.8
LZH    45.65 342 eP    30 42.50   0.9
       1.4s    65.00nm          4.9mb
IIDJ   45.84  21 P     30 42.90  -0.1
LSA    45.91 325 P     30 40.20  -3.9X
       0.8s    67.00nm          5.1mb
CHJJ   46.74  22 P     30 48.50  -1.3
MTMJ   46.80  20 P     30 49.60  -0.8
GBA    46.85 296 Pc    30 49.00  -1.9
MAT    46.90  20 iPd   30 49.60  -1.5
       0.8s    16.42nm          4.5mb
BJI    47.19 356 eP    30 53.50   0.3
       0.6s     6.00nm          4.2mb
DZM    47.30 113 iPd   30 54.90   0.5
KAKJ   47.32  23 eP    30 51.40  -2.8
HYB    47.53 302 eP    30 54.80  -1.3
       1.0s    70.00nm          5.0mb
NIIJ   47.81  21 P     30 57.10  -0.8
BKM    48.34 107 iPc   31 03.50   1.2
YAMJ   49.01  21 eP    31 06.60  -0.4
GTA    49.99 340 Pc    31 15.00   0.4
       1.0s    24.00nm          4.5mb
OFUJ   50.40  22 eP    31 17.00  -0.4
POO    52.03 300 iPc   31 30.80   1.0
       0.7s    19.18nm          4.5mb
MDJ    52.41   9 eP    31 31.40  -0.6
       1.0s    35.00nm          4.6mb
NDI    54.39 313 iP    31 43.00  -3.6X
MSZ    55.93 140 eP    31 57.70   0.6
LMZ    56.39 139 eP    31 59.80  -0.5
WVZ    57.10 137 eP    32 04.50  -0.7
QRZ    57.50 134 eP    32 07.60  -0.5
TUZ    57.58 141 eP    32 08.00  -0.5
THZ    58.09 135 eP    32 11.80  -0.4
CSY    59.27 184 iPd   32 21.60   2.0
       0.4s    12.80nm          4.7mb
                 i     33 05.00
MNG    59.55 133 eP    32 20.80  -1.2
URZ    60.08 130 eP    32 24.40  -1.1
PGZ    60.12 133 eP    32 25.60  -0.2
HBZ    60.82 129 eP    32 29.80  -0.6
NOZ    60.88 130 eP    32 30.40  -0.4
PUZ    60.90 130 eP    32 30.20  -0.8
KSH    61.64 323 eP    32 33.90  -2.0
MAIO   71.13 312 eP    33 34.00  -0.8
SPA    82.77 180 iPd   34 35.00  -2.6
       0.5s    11.57nm          4.8mb
BUL    88.59 250 iPd   35 07.30   0.6
YKA   112.32  24 ePKP  40 44.30  -1.5
       0.6s     1.80nm
LRM   121.01  40 ePKP  41 03.60   0.2
DUG   122.88  46 ePKP  41 07.59   0.6
MSU   123.92  48 iPKPc 41 10.79   1.6
SRU   124.91  47 ePKP  41 10.97  -0.1
PV09  126.15  47 ePKPc 41 14.99   1.4
PV10  126.26  47 ePKPc 41 14.53   0.7
PV08  126.47  47 ePKP  41 15.23   0.9
ELC   140.18  37 ePKP  41 31.85  -7.8X
OXF   141.85  41 ePKP  41 38.43  -4.2X
PWLA  142.40  39 iPKP  41 39.57  -4.0X
LSCT  143.85  17 ePKPd 41 44.80  -1.1
TBR   144.05  18 iPKPd 41 45.46  -0.7
GPD   144.09  18 iPKPd 41 45.68  -0.6
MYNC  144.69  35 ePKPd 41 47.50   0.0
RSTA  146.44 199 ePKP  41 53.60   2.9X
CEH   146.70  29 ePKP  41 52.99   2.3
SLA   147.78 171 iPKP  41 57.10   4.1X
PPD   149.59 197 ePKP  42 08.50  12.8X
YJA   150.29 170 e(PKP)42 00.00   2.7X
ARE   153.92 155 ePKP  42 13.00  10.6X
CCH   154.82 167 (PKP) 42 07.00   3.4X
CNCB  154.87 162 PKP   42 06.40   2.4
LPB   155.10 162 PKP   42 07.00   2.9X
LPAZ  155.32 162 PKP   42 06.20   1.5
                 i     42 33.80
     S.D. = 1.2  on  95 of 107 obs.
-----------------------------------
&  OCT  17, 1993  09h 49m 01.45s
   40.291 N          125.313 W
```

```
   DEPTH =  24.6km
 OFF COAST OF NORTHERN CALIFORNIA( 34)
      <GM-P>. MD 3.1 (GM).

KMPM     0.92  82 eP     49 17.02   -1.7
FHC      1.13  63 ePc    49 19.95   -1.9
LMEM     2.87  84 eP     49 45.33   -1.4
ORV      3.02 103 eP     49 47.12   -1.7
         4 obs. associated
-------------------------------------
?  OCT  17, 1993  10h 15m 44.72± 1.08s
   39.666 N ± 8.9km   29.502 E ±11.9km
   DEPTH =  10.0km   (geophysicist)
 TURKEY                            (366)
      ML 2.7 (ISK).

IZI      0.67 358 iPg    15 57.40   -0.7
                  iSg    16 08.40
ALT      0.77 142 ePg    15 59.70   -0.1
                  eSg    16 11.20
EYL      1.03  29 ePn    16 04.80    0.5
EDC      1.43 299 ePn    16 11.00    0.3
     S.D. = 0.9   on    4 of    4 obs.
-------------------------------------
?  OCT  17, 1993  10h 27m 58.62± 1.40s
   39.083 N ± 8.0km   27.649 E ±17.7km
   DEPTH =  10.0km   (geophysicist)
 TURKEY                            (366)
      ML 2.7 (ISK).

IZM      0.75 204 ePg    28 13.30    0.0
                  eSg    28 26.30
EZN      1.27 306 ePn    28 22.00   -0.1
EDC      1.27   7 ePn    28 22.00   -0.2
KGT      1.39 349 ePn    28 24.40    0.4
     S.D. = 0.4   on    4 of    4 obs.
-------------------------------------
&  OCT  17, 1993  11h 32m 45.98s
   34.137 N          116.783 W
   DEPTH =  10.1km
 SOUTHERN CALIFORNIA               ( 43)
      <PAS-P>. ML 2.9 (PAS).

PEC      0.40 232 iPc    32 53.44   -0.7
SSK      0.76 276 iPc    33 00.06   -0.9
PLM      0.78 185 eP     33 00.24   -1.1
                  eS     33 12.02
GSC      1.16 359 eP     33 07.28   -0.5
GLA      1.96 123 (Pn)   33 18.99   -0.6
ISA      2.06 318 ePn    33 20.48   -0.6
ABL      2.14 290 eP     33 21.31   -1.0
TPNV     2.84   9 ePn    33 32.27   -0.1
         8 obs. associated
-------------------------------------
&  OCT  17, 1993  11h 43m 44.60s
   35.149 N          116.568 W
   DEPTH =  11.3km
 CENTRAL CALIFORNIA                ( 39)
      <PAS-P>. ML 3.2 (PAS).

GSC      0.25 308 iPc    43 49.63   -0.4
SSK      1.32 225 eP     44 08.11   -0.8
PEC      1.35 201 eP     44 08.45   -0.8
ISA      1.64 289 eP     44 11.75   -1.7
PLM      1.81 188 eP     44 15.21   -0.8
TPNV     1.81   8 eP     44 15.00   -1.1
ABL      2.20 263 eP     44 20.01   -1.7
GLA      2.54 145 eP     44 23.70   -2.7
MTUM     2.73 324 ePn    44 29.03   -0.2
BCH      2.88 272 ePn    44 30.43   -0.9
TNP      2.97 350 (Pn)   44 31.80   -0.9
                  ePg    44 39.06
BONR     3.13 334 eP     44 34.11   -0.9
MMPM     3.16 322 ePn    44 35.74    0.3
                  ePg    44 41.99
ARUT     3.65  43 ePn    44 40.72   -1.5
                  ePg    44 50.93
CMB      4.21 314 (Pn)   44 51.95    1.8
MSU      4.87  45 ePn    44 58.53   -1.1
                  ePg    45 12.86
DUG      5.85  29 (Pn)   45 14.08    0.7
                  ePg    45 33.60
SRU      6.24  49 (Pn)   45 16.15   -2.8
                  ePg    45 38.29
PV10     6.85  60 (Pn)   45 25.95   -1.7
                  ePg    45 47.77
PV08     7.21  59 ePg    45 56.22   23.4
      20 obs. associated
-------------------------------------
?  OCT  17, 1993  12h 15m 02.35± 1.34s
   39.139 N ± 7.5km   27.628 E ±16.8km
   DEPTH =  10.0km   (geophysicist)
 TURKEY                            (366)
      ML 2.7 (ISK).

IZM      0.79 201 ePg    15 17.80    0.0
                  eSg    15 29.50
EDC      1.22   8 ePn    15 25.00    0.0
EZN      1.22 305 ePn    15 25.00    0.0
KGT      1.34 349 ePn    15 27.00    0.1
     S.D. = 0.1   on    4 of    4 obs.
-------------------------------------
&  OCT  17, 1993  13h 05m 41.07s
   67.521 N          145.920 W
   DEPTH =  26.6km
   4.0mb (  1 obs.)
 NORTHERN ALASKA                   (676)
      <AEIC>. ML 4.3 (AEIC), 3.9
      (PMR).

BM3      0.52 101 ePc    05 51.45   -0.2
                  eS     05 58.35
GLM      2.61 194 iPc    06 22.20   -0.3
                  eS     06 53.33
MDM      2.74 201 ePc    06 23.55   -0.7
                  eS     06 57.39
FBA      2.74 197 iPc    06 23.51   -0.7
IL1      2.79 189 ePc    06 24.44   -0.5
ILB      2.79 189 eP     06 24.48   -0.4
                  eS     06 57.71
CCB      2.99 196 ePc    06 26.96   -0.7
HDA      3.16 188 eP     06 29.99   -0.2
MLY      3.17 220 ePc    06 29.53   -0.8
WRH      3.19 197 eP     06 29.70   -0.9
NEA      3.22 205 eP     06 29.60   -1.5
                  eS     07 09.88
IMA      3.40 248 ePn    06 32.83   -0.9
                  iPg    06 42.13
                  eS     07 25.37
IM3      3.47 247 iPc    06 33.63   -0.9
                  eS     07 15.76
DJE      3.51 178 eP     06 35.45    0.3
BWN      3.67 205 eP     06 36.03   -1.3
                  eS     07 17.95
DOT      3.96 168 eP     06 42.39    0.8
MCK      4.00 200 eP     06 41.38   -0.8
RND      4.31 198 eP     06 45.83   -0.7
TMW      4.39 162 eP     06 48.28    0.7
TRF      4.47 206 eP     06 47.69   -1.3
KTH      4.49 210 eP     06 47.72   -1.5
DHY      4.51 188 eP     06 49.31   -0.2
PAX      4.57 177 eP     06 50.25   -0.1
INK      4.75  75 eP     06 53.50    0.9
       0.6s    20.00nm
BC3      4.80 157 eP     06 53.09   -0.4
HUR      4.82 201 eP     06 53.88    0.1
SDG      5.02 178 eP     06 56.15   -0.4
BRW      5.38 320 P      06 58.70   -2.9
TOA      5.44 181 P      07 03.00    0.4
CUT      5.46 202 eP     07 02.07   -0.6
TZL      5.50 178 eP     07 03.48    0.1
SCM      5.74 187 eP     07 07.22    0.4
SML      5.83 191 eP     07 07.22   -0.8
GHO      5.91 194 eP     07 08.49   -0.8
KLU      6.05 180 eP     07 11.70    0.5
PLRM     6.11 195 eP     07 12.41    0.5
PMR      6.11 195 eP     07 11.61   -0.3
PWA      6.13 198 P      07 12.80    0.6
GLB      6.17 171 eP     07 12.42   -0.4
KNK      6.23 191 eP     07 12.39   -1.3
TTA      6.26 227 eP     07 11.35   -2.7
CFI      6.41 188 eP     07 12.80   -3.4
PMS      6.50 196 P      07 17.80    0.4
BALM     6.69 165 eP     07 20.46    0.2
NCG      6.70 207 eP     07 19.08   -1.3
CGLM     6.77 206 eP     07 20.63   -0.6
PWL      6.77 190 eP     07 20.67   -0.6
CRP      6.83 206 eP     07 20.31   -1.9
BGL      6.88 207 eP     07 20.97   -1.8
CTGM     6.88 161 eP     07 22.69   -0.1
TGL      6.93 167 eP     07 23.60    0.1
BKG      7.04 206 eP     07 23.75   -1.2
WAX      7.23 168 eP     07 27.25   -0.4
SLKM     7.29 197 eP     07 28.40   -0.1
YAH      7.42 164 eP     07 28.59   -1.9
SVW      7.68 218 eP     07 31.50   -2.5
YKA     14.04  96 eP     08 59.10   -1.0
       0.4s     1.30nm          4.0mb
       57 obs. associated
-------------------------------------
   OCT  17, 1993  13h 12m 33.51± 0.26s
   52.376 N ± 6.7km  170.598 W ± 3.1km
   DEPTH =  33.0km  (normal)
   4.9mb ( 29 obs.)  4.7Msz (  4 obs.)
 FOX ISLANDS, ALEUTIAN ISLANDS     (  9)
      ML 5.0 (PMR).

ADK      3.78 265 eP     13 33.56    2.7
                  eS     14 19.38
SDN      6.67  60 eP     14 12.65    1.0
SMY      9.33 278 (P)    14 48.93    0.3
KDC     11.68  55 eP     15 18.99   -1.6
SVW     11.98  37 eP     15 25.74    1.0
ANM     12.52  10 eP     15 34.20    2.2
TTA     13.11  31 eP     15 43.30    3.5X
PMS     14.48  44 eP     15 59.40    1.6
PWA     14.55  42 eP     16 02.40    3.8X
       0.7s    25.70nm          4.8mb
ILT     16.06 349 eP     16 14.00   -4.1X
     Z  16s     0.70um
     N  16s     0.50um
IMA     16.14  25 eP     16 20.74    1.4
       0.9s     5.68nm          3.7mb X
TOA     16.31  44 eP     16 22.30    0.8
FBA     17.13  34 eP     16 30.61   -1.0
       0.8s     5.16nm          3.7mb X
PET     18.58 284 eP     16 51.00    1.4
     Z  20s     0.50um
INK     23.76  34 eP     17 44.00    0.8
       0.6s     2.00nm          3.8mb X
GMW     30.68  80 eP     18 48.10    1.1
RMW     31.31  79 eP     18 53.04    0.4
NEW     33.74  75 eP     19 12.93   -0.8
       0.8s    21.28nm          5.1mb
LRM     37.72  76 eP     19 48.80    1.0
                  e      22 05.00
NIIJ    38.01 267 P      19 50.00    0.0
BONR    38.72  91 eP     19 57.27    1.0
CHJJ    38.79 266 P      19 57.30    0.8
MAT     38.94 267 iPc    19 57.80   -0.1
       1.0s    16.00nm          4.7mb
MTMJ    39.16 267 P      20 00.50    0.7
HVU     39.77  82 eP     20 05.13    0.3
IIDJ    39.82 266 P      20 06.10    0.9
DUG     40.69  84 eP     20 13.35    0.9
       1.1s    13.61nm          4.6mb
GSC     41.35  93 eP     20 18.92    1.2
DAU     41.51  82 eP     20 20.20    0.9
FCC     41.51  50 eP     20 20.00    1.3
ARUT    41.80  87 eP     20 22.12    0.6
WKYJ    42.08 266 P      20 24.50    0.8
MSU     42.12  85 eP     20 24.76    0.5
CN2     42.28 285 P      20 24.60   -0.6
       0.6s    13.00nm          4.8mb
     Z  16s     0.30um          4.3MszX
                  esP    20 41.60
PLM     42.62  95 eP     20 27.92   -0.4
YONJ    42.74 269 P      20 29.60    0.5
SRU     42.75  83 eP     20 29.80    0.4
TKSJ    43.18 267 P      20 33.70    1.0
PV09    43.98  83 eP     20 39.92    0.4
PV10    44.12  83 eP     20 40.40   -0.1
PV08    44.23  83 eP     20 41.79    0.3
CIT     44.44 301 eP     20 43.50    0.7
ULM     44.81  61 eP     20 49.50    3.9X
SHNJ    44.89 270 P      20 47.20    0.7
GOL     45.51  79 eP     20 52.10    0.5
       1.0s    15.02nm          4.9mb
GLD     45.57  79 eP     20 52.93    0.9
       1.1s    17.54nm          4.9mb
NRI     45.86 331 eP     20 54.00    0.3
       1.0s     8.00nm          4.6mb
                  e      21 02.00
KUMJ    46.14 268 P      20 57.30    0.9
KAGJ    47.04 267 P      21 04.00    0.5
TUC     47.06  91 eP     21 03.81    0.1
       1.0s     8.93nm          4.7mb
BJI     50.05 287 eP     21 26.00   -0.7
       0.8s     8.00nm          4.8mb
HHC     52.21 290 Pd     21 43.60    0.3
       1.0s    21.00nm          5.1mb
```

17d 13h

```
WMOK   52.72  80 eP    21 46.30  -0.7
        0.9s    14.88nm          5.0mb
JAQ    52.76  48 eP    21 45.00  -2.1
SSE    53.05 275 Pc    21 49.00  -0.4
        1.2s    60.00nm          5.4mb
     Z  24s     0.50um          4.5MszX
BTO    53.26 291 eP    21 51.00  -0.1
LTX    53.50  88 iPc   21 50.72  -2.2
TIY    53.78 287 eP    21 54.80   0.0
     Z  22s     0.65um          4.6Msz
NJ2    53.80 277 Pd    21 54.60  -0.3
ELC    56.64  71 (P)   22 12.88  -2.6
WHN    57.59 279 eP    22 22.00  -0.3
                sP     22 42.00
GAC    58.31  55 eP    22 26.00  -1.2
XAN    58.37 286 P     22 25.50  -2.3
        1.0s    13.00nm          5.0mb
GTA    59.80 296 eP    22 35.50  -2.3
        1.2s    14.00nm          5.0mb
     Z  20s     0.58um          4.7Msz
SDF    59.85 353 iP    22 36.50  -1.0
LZH    59.88 291 eP    22 37.00  -1.4
        1.0s    37.00nm          5.5mb
     Z  18s     0.49um          4.7Msz
MYNC   61.13  69 eP    22 44.63  -2.1
        1.0s     8.90nm          4.8mb
WMQ    62.93 307 eP    22 58.80   0.1
LMN    63.36  49 eP    23 00.50  -0.9
CD2    63.65 287 iPc   23 03.30  -0.3
        1.0s    24.00nm          5.3mb
KAF    65.07 351 iP    23 10.20  -2.1
        0.6s    12.40nm          5.2mb
GYA    65.19 282 iPc   23 12.40  -1.3
        1.2s    46.00nm          5.5mb
NUR    66.80 352 eP    23 22.00  -1.3
HFS    67.79 358 eP    23 27.50  -2.1
        0.4s    20.30nm          5.6mb
     Z  17s     0.10um          4.1MszX
                LR     46 58.00
CHTO   75.61 282 eP    24 16.60  -0.2
GUN    76.05 298 P     24 19.20  -0.5
PKI    76.58 298 P     24 22.20  -0.4
CLL    76.64 358 iPd   24 22.50   0.4
GKN    76.65 299 P     24 22.20  -0.6
DMN    76.71 298 P     24 23.20  -0.1
BDT    76.78 281 eP    24 22.80  -0.6
KSP    76.99 356 ePd   24 23.50  -0.6
BRG    77.05 357 iP    24 24.70   0.3
                e      25 01.10
MOX    77.34 359 eP    24 26.50   0.5
PRU    77.92 357 P     24 29.60   0.4
GRF    78.30 359 iPc   24 32.50   1.2
        0.9s    14.00nm          5.0mb
     Z  20s     0.10um          4.1Msz
KHC    78.81 357 eP    24 34.20   0.1
        1.1s    10.50nm          4.8mb
                e      24 44.00
                e      25 11.50
GEC2   79.09 357 P     24 35.30  -0.5
        0.7s     4.08nm          4.5mb
                e      24 40.10
ZST    79.59 355 eP    24 38.00  -0.3
WTTA   80.72 358 iPc   24 44.60   0.0
        0.7s     8.80nm          4.9mb
                i      24 45.60
SQTA   80.77 359 iPc   24 45.70   0.9
        0.7s     9.00nm          4.9mb
KBA    80.87 357 iPc   24 45.90   0.5
        0.8s    21.50nm          5.2mb
                i      24 46.80
                i      24 56.30
SKO    85.45 351 eP    25 09.00   0.3
OHR    86.37 351 eP    25 11.50  -1.9
WRA    86.42 231 P     25 13.20  -0.5
        0.7s     1.30nm          4.3mb
ASPA   89.83 229 iPd   25 30.10   0.2
        0.9s    11.80nm          5.2mb
GBA    92.20 296 P     25 42.00   0.9
BUL   144.53 328 iPKPd 32 06.80  -1.4
WIN   149.66 346 iPKPd 32 24.00   7.5X
        0.6s    37.00nm
SLR   149.81 325 iPKPd 32 20.70   4.1X
        0.8s    33.00nm
SEK   152.41 323 ePKP  32 21.00   0.6
        0.6s    28.00nm
BLF   153.63 325 ePKP  32 30.00   7.9X
        0.7s    22.00nm
```

```
     S.D. = 1.1  on  95 of 102 obs.
-------------------------------------
%  OCT  17, 1993  13h 53m 38.87± 0.81s
   39.703 N ± 7.3km   29.569 E ± 9.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.8 (ISK).

IZI      0.64 353 iPg   53 51.30  -0.4
                  iSg   54 01.80
ALT      0.77 147 ePg   53 54.00   0.0
                  eSg   54 05.00
EYL      0.97  27 ePn   53 57.30  -0.1
ISK      1.42 344 ePn   54 05.40   0.8
EDC      1.46 297 ePn   54 05.00  -0.2
MFT      2.06 302 ePn   54 14.00   0.0
     S.D. = 0.5  on   6 of   6 obs.
-------------------------------------
*  OCT  17, 1993  14h 09m 03.08± 3.56s
   30.300 S ±20.1km   72.089 W ±25.8km
   DEPTH =  20.5 ±  5.9 km
 OFF COAST OF CENTRAL CHILE      (134)
      MD 4.5 (SAN).

RTRS     2.28  87 iPc   09 42.00   1.8
JACH     2.70 152 iP    09 46.72   0.5
                  iS    10 16.90
IHA      2.74 172 e(P)  09 51.00   4.2X
                  i     09 59.70
                  eS    10 23.50
ROCH     2.82 161 iP+   09 48.37   0.3
                  iS    10 20.89
RTCB     3.06 114 ePd   09 52.50   1.0
                  S     10 30.50
PEL      3.08 157 iPd   09 52.05   0.5
                  iS    10 27.21
ZON      3.18 114 eP    09 54.70   1.6
LCCH     3.20 172 iP+   09 53.61   0.4
                  iS    10 30.69
RTLL     3.28 109 iPd   09 54.50   0.0
                  S     10 31.50
SAN      3.37 159 eP    09 55.44  -0.3
FCH      3.38 154 (P)   09 57.63   1.4
                  iS    10 35.65
TACH     3.48 164 iP+   09 57.70   0.4
CFA      3.55 112 ePc   09 58.50   0.1
                  S     10 40.00
PCH      3.57 158 iP    09 59.14   0.5
LNV      3.69 171 iP    10 00.22   0.0
MDZ      3.78 134 eP    10 20.40  18.8X
CACH     4.01 162 iP    10 05.42   0.5
                  iS    10 51.63
RFA      5.41 146 iPc   10 24.00  -0.7
                  S     11 48.30
CYA      5.80  73 iPc   10 29.50  -0.6
MRA      5.85 113 iPc   10 28.30  -2.5
                  S     11 32.70
FSA      6.81  53 e(P)  11 02.00  17.7X
     S.D. = 1.1  on  18 of  21 obs.
-------------------------------------
%  OCT  17, 1993  14h 34m 34.05± 1.03s
   33.008 S ± 9.8km   66.659 W ± 9.1km
   DEPTH =  33.0km  (normal)
 SAN LUIS PROVINCE, ARGENTINA    (140)

MRA      1.00  54 ePc   34 51.70   0.0
                  S     35 05.00
CFA      1.93 316 ePd   35 04.90  -0.4
                  S     35 28.00
RTCV     1.96 305 eP    35 05.00  -0.6
                  S     35 29.50
RTLL     2.27 317 ePc   35 10.50   0.4
                  S     35 39.00
RFA      2.31 220 ePc   35 10.70   0.0
                  S     35 46.50
RTCB     2.36 309 ePd   35 12.00   0.5
                  S     35 40.50
     S.D. = 0.6  on   6 of   6 obs.
-------------------------------------
*  OCT  17, 1993  14h 39m 01.58± 1.02s
   34.553 N ± 7.6km   27.659 E ± 5.8km
   DEPTH =  13.0 ±  5.2 km
   4.4mb ( 14 obs.)
 EASTERN MEDITERRANEAN SEA       (371)
      MD 4.1 (HLW).

NPS      1.83 293 ePb   39 38.50   5.6X
```

```
ELL      2.86  39 iPn   39 48.00   0.3
VAM      2.97 288 ePb   39 53.30   4.1X
CIN      3.06   6 iPd   39 51.00   0.5
BCK      3.75  38 ePn   39 59.50  -0.9
IZM      3.85 355 ePn   40 02.00   0.2
KHL      4.05  21 ePn   40 04.50  -0.1
VLI      4.41 301 ePn   40 10.50   0.8
ATH      4.67 318 ePb   40 15.50   2.1
ALT      4.91  23 ePn   40 15.00  -1.8
EZN      5.37 349 ePn   40 23.00  -0.3
HLW      5.63 145 iPn   40 27.50   0.6
                  eSn   41 27.00
EDC      5.79   2 ePn   40 39.00   9.9X
IZI      5.95  13 ePn   40 42.00  10.5X
AGG      6.18 318 ePn   40 36.60   1.9
MFT      6.23 357 ePn   40 38.00   2.5
PAIG     6.23 331 ePn   40 37.14   1.7
EYL      6.32  18 eP    40 49.00  12.2X
ALN      6.46 349 ePn   40 48.60   9.9X
VLS      6.75 304 ePn   40 41.50  -1.3
RDO      6.79 346 ePg   40 43.00  -0.3
LIT      6.90 325 iPn   40 46.28   1.4
THE      7.12 330 ePn   40 50.01   2.1
SOH      7.13 333 ePn   40 50.24   2.2
SRS      7.30 335 ePn   40 51.80   1.4
                  eSn   41 39.20
KZN      7.41 323 ePn   40 51.50  -0.5
KNT      7.60 332 ePn   40 56.48   1.9
                  eSn   41 45.00
GRG      7.63 328 iPn   40 56.72   1.7
IGT      7.68 312 ePn   40 54.21  -1.6
LSK      7.92 317 ePn   40 58.30  -0.9
FNA      7.97 323 ePn   41 02.00   2.2
SRN      8.10 313 ePn   41 01.70   0.1
KEK      8.12 312 ePn   40 59.50  -2.4
KBN      8.15 320 ePn   41 03.50   1.1
OHR      8.50 322 iP    41 06.50  -0.8
VLO      8.77 315 ePn   41 09.50  -1.4
SKO      8.87 328 iP    41 12.80   0.4
TIR      9.16 320 ePn   41 18.00   1.7
LACI     9.44 321 ePn   41 18.10  -2.1
SDA      9.85 322 ePn   41 24.30  -1.6
CMP     10.89 350 ePd   41 42.00   1.9
MLR     11.00 354 eP    41 42.50   0.7
VRI     11.33 357 eP    41 51.00   5.0X
ERE     14.52  62 iP    42 28.00  -0.6
PSZ     14.56 339 ePd   42 28.70  -0.5
PYA     15.20  47 iP    42 43.00   5.5X
TRI     15.37 321 eP    42 44.00   4.4X
                  e     45 24.10
VOY     15.52 322 ePn   42 39.60  -2.1
                  ePnPn 42 50.70
                  ePbPb 43 34.70
SPC     15.62 342 e(P)  42 45.50   2.5
KBA     16.52 324 iPc   42 51.00  -3.5X
        1.2s    40.20nm          4.4mb
                  i     42 53.00
                  i     42 58.10
BHG     17.19 324 iPc   43 02.00  -0.9
WTTA    17.50 321 iPc   43 06.50  -0.4
                  i     43 09.30
GEC2    17.64 328 Pn    43 07.60  -0.9
SQTA    17.70 321 iPd   43 08.50  -0.8
        1.0s    14.00nm          4.0mb
MOTA    17.83 321 i(P)  43 11.00   0.0
                  i     43 20.50
KHC     17.91 329 Pc    43 10.40  -1.4
        1.4s    19.10nm          4.0mb
                  e     43 18.00
                  e     43 42.50
                  e     46 32.50
PRU     18.18 332 eP    43 13.50  -1.6
                  e     43 23.00
WET     18.22 328 eP    43 14.80  -0.8
KSP     18.26 337 ePc   43 15.00  -1.1
FUR     18.28 323 eP    43 15.10  -1.3
        1.2s    42.00nm          4.5mb
BRG     19.12 333 eP    43 25.30  -1.3
        1.3s    11.00nm          3.9mb
MNK     19.34 360 eP    43 32.00   2.7X
GRF     19.36 326 eP    43 27.40  -2.2
CLL     19.83 332 iPc   43 33.00  -1.7
        1.2s    16.00nm          4.2mb
MOX     19.88 329 eP    43 31.90  -3.4X
OBN     21.47  14 eP    43 48.00  -3.6X
        1.0s    32.00nm          4.7mb
                  e     44 19.00
```

```
                 eS    47 41.00
WLF    21.86 320 iPc   43 56.36   0.9
       1.0s    25.00nm          4.6mb
ENN    22.63 322 iPd   44 04.80   1.6
       1.0s    51.00nm          5.0mb
DOU    22.93 320 P     44 06.80   0.6
       0.7s    15.50nm          4.6mb
WTS    22.98 326 eP    44 07.00   0.4
       0.9s     9.40nm          4.3mb
SNF    23.33 320 P     44 09.90  -0.1
ASH    24.93  73 eP    44 26.50   0.8
MAIO   25.94  77 eP    44 36.00   0.6
NUR    26.04 357 iP    44 35.40  -0.5
       0.9s    25.30nm          4.9mb
HFS    27.17 345 eP    44 44.10  -2.2
       0.5s     1.90nm          4.0mb
     Z 15s      0.04um          3.1MszX
                 LR    55 18.00
KAF    27.59 359 eP    44 48.00  -2.1
LKO    39.30 239 P     46 32.59   0.5
       0.7s     4.50nm          4.3mb
KIC    40.99 234 P     46 47.00   1.1
NRI    47.77  25 eP    47 47.00   7.2X
     S.D. = 1.4  on  65 of  79 obs.
-----------------------------------
   OCT  17, 1993  14h 53m 31.10± 0.32s
   19.336 N ± 3.8km  121.117 E ± 6.0km
   DEPTH =  33.0km  (normal)
   4.6mb ( 20 obs.)  4.2Msz (  3 obs.)
 PHILIPPINE ISLANDS REGION        (248)

PIP     1.11 205 iPc   53 49.00  -1.4
                 iS    54 04.00
CVP     1.76 157 iPc   54 10.00  10.3X
                 iS    54 21.00
SZP     1.88 200 iPc   54 03.00   1.5
BCP     2.94 190 eP    54 19.00   2.2
                 eS    54 56.00
BAG     2.95 190 eP    54 16.00  -1.0
                 i     54 41.50
                 iS    54 54.00
QCP     4.67 180 eP    54 02.00 -39.2X
QVP     4.69 181 eP    54 44.00   2.6
TGY     5.21 182 ePd   54 50.20   1.4
GQP     5.55 167 eP    54 54.00   0.4
                 eS    55 56.00
PGP     5.80 182 eP    54 57.00  -0.2
QZH     6.05 338 eP    55 01.40   0.8
HKC     7.13 296 iP    55 13.00  -2.9
GZH     8.15 299 P     55 26.00  -4.1X
     Z 16s      1.19um
PLP     8.94 155 ePc   55 40.00  -1.0
QIZ    10.66 270 P     56 00.00  -4.6X
     E 13s      0.92um
                 S     57 56.00
WHN    12.73 333 eP    56 34.00   1.5
     N 14s      0.82um
                 sP    56 48.00
                 eS    58 55.00
GYA    15.08 301 iPc   57 03.40  -0.2
       1.2s    26.00nm          4.4mb
     Z 16s      0.82um          6.4Msz
                 PP    57 11.60
KUMJ   15.77  32 P     57 13.30   1.0
TIA    17.17 349 eP    57 33.30   3.2X
     Z 16s      1.06um
KMI    17.95 292 Pd    57 42.50   2.3
       2.0s    60.00nm          4.4mb
     Z 15s      1.30um          4.5Msz
     N 13s      0.60um
     E 13s      0.60um
XAN    18.23 326 P     57 44.20   0.9
       1.0s    16.00nm          4.1mb
     Z 15s      0.41um          3.9MszX
                 pP    57 51.00
TKSJ   18.58  36 P     57 47.10  -0.5
YONJ   19.20  32 P     58 01.80   6.8X
CD2    19.46 310 iPc   57 57.30  -0.8
       1.0s    55.00nm          4.8mb
     E 14s      0.56um
WKYJ   19.63  38 P     58 00.90   0.9
TIY    19.82 339 Pc    58 02.30   0.4
     Z 18s      1.21um
     N 20s      1.84um
                 S     01 44.00
TSRJ   20.80  36 P     58 12.80   0.7
CHTO   20.96 272 iPc   58 13.20  -0.7
       1.1s    22.08nm          4.5mb
BJI    21.07 349 eP    58 14.50  -0.3
       1.5s    42.00nm          4.6mb
     Z 20s      0.42um          3.8Msz
                 eS    02 10.00
BDT    21.10 268 eP    58 14.20  -1.0
IIDJ   21.88  39 P     58 23.80   0.8
SNY    22.52   5 eP    58 28.60  -0.6
                 pP    58 36.60  29kmX
LZH    22.57 321 eP    58 31.40   1.3
       1.2s    77.00nm          5.0mb
     Z 15s      0.58um          4.1MszX
     N 10s      0.23um
                 sP    58 48.50
MTMJ   22.58  37 P     58 29.10  -0.9
MAT    22.78  38 (P)   58 32.00   0.1
       1.7s    38.46nm          4.6mb
                 eS    02 28.00
CHJJ   22.91  40 P     58 32.80  -0.4
HHC    22.95 341 P     58 35.20   1.6
       1.2s    53.00nm          4.9mb
     Z 20s      1.12um          4.3Msz
     N 16s      0.48um
BTO    23.23 338 eP    58 37.00   0.6
     N 10s      0.16um
     E 12s      0.21um
IPM    24.48 236 ePc   58 47.50  -1.1
KGM    24.49 227 eP    58 40.00  -8.7X
MDJ    26.18  14 eP    59 05.00   0.7
GTA    27.17 322 eP    59 14.00   0.4
       2.0s    33.00nm          4.6mb
     Z 16s      0.57um          4.2MszX
LSA    29.07 297 eP    59 27.40  -3.9X
WMQ    37.10 319 eP    00 41.80   1.5
       1.0s    14.00nm          4.8mb
     Z 18s      0.52um          4.4Msz
WR2    41.14 161 iPd   01 08.90  -5.1X
       0.6s     8.40nm          4.6mb
GBA    42.19 269 P     01 23.00   0.3
TOO    61.08 158 eP    03 41.30  -2.9
       0.4s     9.00nm          5.3mb
KAF    75.33 331 eP    05 11.00  -1.6
INK    77.73  22 eP    05 25.00  -0.9
       1.0s     2.00nm          4.1mb
VRI    79.34 315 ePd   05 35.50   0.3
                 e     29 47.50
MLR    79.98 315 ePd   05 38.50  -0.3
                 e     29 48.00
HFS    81.75 331 eP    05 45.90  -1.7
       0.4s     1.20nm          4.3mb
     Z 17s      0.10um          4.2MszX
NB2    82.47 333 P     05 49.80  -1.6
       0.9s     4.70nm          4.5mb
RES    83.44   9 eP    05 55.50  -0.6
       1.0s     4.00nm          4.5mb
KSP    84.18 322 iP    06 00.00  -0.4
SKO    84.21 312 e(P)  06 02.50   1.8
BRG    85.53 323 iP    06 06.80  -0.3
       1.1s    12.00nm          5.0mb
CLL    85.87 323 eP    06 08.00  -0.8
GEC2   86.54 321 PKP   06 11.60  -0.7
       1.0s     2.89nm          4.5mb
YKA    87.45  23 eP    06 14.80  -1.5
       0.9s     9.80nm          5.1mb
GMW    92.25  38 (P)   06 39.20   0.1
     S.D. = 1.3  on  52 of  61 obs.
-----------------------------------
&  OCT  17, 1993  14h 55m 27.50s
   62.559 N          151.227 W
   DEPTH =  86.7km
 CENTRAL ALASKA                  (  1)
      <AEIC>.

CUT     0.47 109 iP    55 41.66  -0.2
SKT     0.60 194 eP    55 42.85  -0.1
                 eS    55 54.37
HUR     0.84  59 eP    55 45.15  -0.3
                 eS    55 58.34
TRF     0.99  25 eP    55 47.12  -0.2
                 eS    56 01.86
KTH     1.01   8 iP    55 47.26  -0.1
                 eS    56 01.44
PWA     1.11 145 P     55 48.20  -0.3
                 S     56 03.50
NCG     1.24 201 eP    55 49.71  -0.6
CGLM    1.31 197 eP    55 50.45  -0.7
GHO     1.34 125 eP    55 51.47   0.0
                 eS    56 10.92
CRP     1.37 199 ePd   55 50.82  -1.1
                 eS    56 10.66
RND     1.38  51 eP    55 51.48  -0.5
                 eS    56 08.99
PLRM    1.38 134 eP    55 51.62  -0.3
PMR     1.38 134 eP    55 51.22  -0.7
BGL     1.41 203 eP    55 52.89   0.4
CKN     1.41 199 eP    55 52.75   0.3
SPU     1.44 196 eP    55 52.18  -0.5
CKL     1.47 202 eP    55 53.02  -0.1
PMS     1.54 148 P     55 53.90  -0.1
                 S     56 14.00
SML     1.55 118 eP    55 53.86  -0.4
MCK     1.57  40 eP    55 54.13  -0.3
BKG     1.57 199 eP    55 53.90  -0.6
KNK     1.74 130 eP    55 56.07  -0.6
BWN     1.80  25 eP    55 57.19  -0.3
NKA     1.82 180 eP    55 59.80   2.1
DHY     1.84  72 eP    55 57.46  -0.7
                 eS    56 20.07
SCM     1.97 110 eP    55 58.90  -0.9
RDT     2.07 196 eP    56 01.25   0.1
SLKM    2.11 166 eP    56 01.35  -0.4
CFI     2.14 129 eP    56 01.26  -0.8
PWL     2.19 140 eP    56 01.32  -1.4
RS2     2.23 200 eP    56 00.63  -2.8
TTA     2.23 282 eP    56 01.72  -1.6
                 eS    56 27.87
MPA     2.26 156 eP    56 02.28  -1.4
WRH     2.38  35 eP    56 04.15  -1.1
TOA     2.40  99 P     56 05.10  -0.6
MLY     2.49   5 eP    56 06.15  -0.7
SVW     2.54 237 eP    56 06.63  -0.9
CCB     2.59  35 eP    56 06.96  -1.2
ILIM    2.62 199 eP    56 09.25   0.6
SDG     2.63  88 eP    56 09.34   0.5
HDA     2.67  44 eP    56 08.10  -1.1
                 eS    56 38.66
PAX     2.68  79 eP    56 09.66   0.2
VZW     2.68 122 eP    56 08.08  -1.4
KLU     2.72 111 eP    56 08.14  -1.9
VLZ     2.73 120 eP    56 08.33  -1.7
MDM     2.75  28 eP    56 09.37  -1.1
TZL     2.76  98 eP    56 09.40  -1.1
FBA     2.80  31 iPc   56 09.77  -1.3
FID     2.90 127 eP    56 10.60  -1.9
ILB     2.95  39 eP    56 11.75  -1.3
IL1     2.95  39 eP    56 11.72  -1.3
GLM     2.97  33 eP    56 12.41  -1.1
CNPM    3.04 180 eP    56 14.65   0.2
IM3     3.61 343 eP    56 21.25  -1.0
GLB     3.67 104 eP    56 21.67  -1.5
IMA     3.68 344 iPd   56 22.03  -1.3
BALM    4.48 106 (P)   56 31.71  -2.8
       57 obs. associated
-----------------------------------
%  OCT  17, 1993  15h 03m 13.98± 0.78s
   41.153 N ±10.6km   28.866 E ± 5.1km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.7 (ISK).

ISK     0.17 121 iPg   03 17.30  -0.5
                 iSg   03 21.80
CTT     0.33 269 iPg   03 20.40  -0.4
HRT     0.69 118 ePn   03 27.30  -0.4
DMK     1.07 309 ePn   03 34.30   0.2
EDC     1.11 224 ePn   03 35.00   0.2
EYL     1.14 120 ePn   03 36.30   0.9
MFT     1.25 254 ePn   03 37.40   0.0
     S.D. = 0.6  on   7 of   7 obs.
-----------------------------------
   OCT  17, 1993  15h 10m 05.90± 0.37s
   19.568 S ±11.2km  172.647 W ± 6.9km
   DEPTH =  40.0km  (  3 depth phases)
   5.3mb ( 26 obs.)  4.9Msz (  3 obs.)
 TONGA ISLANDS REGION            (174)

AFI     5.69   9 eP    11 21.00  -9.3X
SVA     8.55 278 ePc   12 10.60   0.5
VUN     8.56 279 eP    12 09.60  -0.8
BKM    18.21 273 iPc   14 16.00  -1.4
DZM    19.70 259 iPc   14 33.00  -2.1
URZ    20.64 203 eP    14 47.20   2.6
MOZ    21.79 207 eP    15 03.10   6.9X
PAE    21.94  89 eP    14 56.60  -1.2
```

17d 15h

```
        1.5s   272.60nm          5.5mb
TVO    22.23  89 eP    15 01.00   0.2
        1.5s   333.20nm          5.6mb
QRZ    24.69 208 P     15 33.00   8.5X
        0.7s    65.00nm          5.3mb
THZ    25.31 206 eP    15 38.90   8.5X
LTZ    26.41 206 eP    15 50.60   9.9X
WVZ    27.30 207 eP    15 54.80   6.1X
LMZ    28.45 208 eP    16 06.50   7.4X
ARMA   34.00 244 iPc   16 47.80  -0.5
        0.7s    10.00nm          4.9mb
CNB    36.93 237 iPd   17 13.80   0.7
        0.8s    46.00nm          5.4mb
CAN    37.22 237 iPd   17 15.80   0.3
                 ipP   17 27.60  43km
BWA    37.47 239 iPd   17 15.40  -2.2
CTA    38.60 262 iPc   17 25.00  -2.1
        1.0s    30.00nm          5.1mb
TOO    40.52 235 iPd   17 43.80   0.9
        0.4s    28.00nm          5.4mb
STK    42.72 244 eP    18 00.70  -0.3
        2.1s     7.20nm          4.0mb X
ASPA   49.63 255 iPd   18 54.10  -1.7
        1.0s    69.60nm          5.6mb
     Z  18s     2.30um          5.2Msz
                  eS   26 00.70
WR2    49.69 260 iPd   18 53.70  -2.6
        1.2s    31.00nm          5.2mb
WRA    49.71 260 P     18 50.00  -6.5X
MTN    54.21 268 iPc   19 25.50  -4.7X
        1.0s   175.00nm          6.0mb
CSY    66.96 205 eP    21 02.10   5.8X
        1.0s     8.20nm          4.8mb
SPA    70.55 180 iPd   21 17.90  -0.8
        1.1s    17.86nm          5.0mb
MAT    72.58 320 iPd   21 29.80  -1.3
        0.9s    15.13nm          5.0mb
CMB    75.44  40 eP    21 47.09  -0.6
        0.8s     3.11nm          4.3mb
GSC    76.02  44 eP    21 50.81  -0.3
BONR   76.67  41 ePd   21 54.53  -0.4
                 e     22 06.32  39km
LBFM   76.70  37 ePc   21 51.24  -3.7X
TNP    77.42  42 ePc   21 58.75  -0.2
        1.4s    27.28nm          5.1mb
LEM    78.10 267 iPd   22 04.00   0.8
TUC    78.49  50 eP    22 05.79   1.0
        0.8s     6.08nm          4.7mb
ARUT   79.67  44 eP    22 11.81   0.6
GMW    80.39  32 (P)   22 14.43  -0.2
RMW    80.82  32 ePd   22 16.21  -0.8
MSU    80.90  44 eP    22 17.93   0.1
CRP    82.22  10 eP    22 20.94  -3.2X
LTX    82.35  55 ePc   22 24.93  -0.5
MDJ    82.75 322 eP    22 27.50   0.5
PV10   82.90  45 eP    22 27.77  -0.5
TTA    83.26   8 eP    22 26.02  -3.3X
        0.9s     1.76nm          4.1mb X
PV08   83.27  45 eP    22 30.42   0.2
KLU    83.57  13 (P)   22 29.02  -1.9
MCMT   84.05  38 eP    22 33.90  -0.1
CN2    84.73 320 eP    22 37.60   0.6
        0.8s     9.50nm          5.0mb
     Z  20s     0.31um          4.7Msz
SNY    84.82 318 Pc    22 38.60   1.1
KGM    85.05 274 eP    22 41.00   1.7
FBA    86.34  10 ePd   22 43.08  -1.5
        0.8s    23.01nm          5.5mb
                  e    22 54.86  38km
TIA    86.44 310 eP    22 46.70   1.0
IMA    86.57   8 ePd   22 44.99  -0.9
        1.1s     6.96nm          4.8mb
IPM    88.06 276 ePd   22 55.80   1.8
        1.0s    42.90nm          5.7mb
MEO    88.62  52 iPd   22 56.60   0.3
BJI    88.84 313 eP    22 58.00   0.9
        1.4s    37.00nm          5.5mb
SNG    89.32 278 eP    23 03.00   3.1X
        1.1s   113.92nm          6.1mb
TIY    90.47 310 Pc    23 06.70   1.8
GYA    90.62 298 P     23 08.00   2.1
        1.2s    43.00nm          5.7mb
XAN    91.63 306 P     23 11.40   1.1
        1.0s     8.90nm          5.1mb
HHC    92.37 313 P     23 15.20   1.6
        1.0s    12.00nm          5.3mb
BTO    93.35 312 eP    23 19.00   0.9
```

```
KMI    93.46 295 Pc    23 22.00   2.9X
        1.6s    50.00nm          5.7mb
BDT    94.14 287 eP    23 23.50   1.5
CHTO   94.70 288 ePc   23 26.70   2.0
NSD   133.76 353 ePKP  29 17.30  -2.2
        0.4s     0.70nm
WTS   147.64   1 ePKP  29 49.00   4.4X
        1.0s    20.50nm
KSP   148.00 349 ePKPd 29 48.40   3.2X
CLL   148.01 353 iPKPd 29 48.70   3.5X
        1.3s    29.00nm
BRG   148.33 352 iPKP  29 48.80   3.0X
        1.7s    30.00nm
UZH   148.59 341 ePKP  29 51.00   4.8X
        1.0s    65.00nm
SPC   148.68 344 ePKP  29 49.10   2.4
KAS   148.74 320 ePKP  29 51.50   4.7X
MOX   148.81 355 ePKP  29 51.10   4.5X
ENN   148.85   2 ePKP  29 52.50   5.9X
        1.0s    11.00nm
PRU   149.11 351 PKP   29 51.50   4.5X
DOU   149.46   3 PKP   29 52.70   5.1X
GRF   149.79 355 iPKPd 29 53.70   5.6X
     Z  21s     0.20um          4.9Msz
                  e    29 58.50
PSZ   149.94 343 ePKPd 29 53.70   5.2X
WLF   149.96   2 iPKPc 29 54.35   6.1X
        1.5s    10.00nm
KHC   150.08 352 PKPd  29 54.00   5.4X
        1.4s    22.00nm
                  e    29 59.50
                  e    31 04.50
GEC2  150.35 352 PKP   29 54.50   5.4X
        1.0s     7.25nm
                  e    29 58.80
ZST   150.37 347 ePKP  29 55.40   6.4X
SRO   150.45 345 iPKP  29 54.00   4.9X
FUR   151.30 355 ePKP  29 57.00   6.6X
        0.7s    29.00nm
BZS   151.47 339 ePKP  29 49.00  -1.7
WATA  152.09 354 iPKPd 29 58.30   6.5X
                  i    30 10.80
                  i    30 19.80
MOTA  152.12 355 iPKPc 29 58.70   6.8X
        1.0s    15.20nm
                  i    30 20.20
KBA   152.13 351 iPKPd 29 57.90   6.0X
        0.6s     3.50nm
                  i    30 02.20
WTTA  152.15 354 iPKPd 29 58.80   6.9X
        0.6s     8.60nm
                  i    30 11.30
SQTA  152.24 354 iPKPd 29 58.90   6.9X
                  i    30 08.60
                  i    30 11.40
OGA   152.61 355 iPKPc 30 00.50   7.9X
SKO   154.67 335 ePKP  30 03.00   7.7X
OHR   155.65 335 ePKP  30 06.50   9.7X
     S.D. = 1.3  on  53 of  94 obs.
-----------------------------------
&  OCT  17, 1993  15h 37m 49.69s
   35.823 N          121.320 W
   DEPTH =   2.7km
 CENTRAL CALIFORNIA                ( 39)
      <GM-P>. MD 2.7 (GM). ML 2.8
      (PAS).

PHAM    0.75  89 (P)   38 07.17   2.5
SAO     0.95 354 eP    38 07.65  -0.8
                 eS    38 20.91
BCH     1.19 122 eP    38 11.38  -1.3
COE     1.46 349 eP    38 15.94  -1.1
ARN     1.53 354 eP    38 15.86  -2.2
MMPM    2.56  45 eP    38 33.20   0.0
MEMM    2.65  45 (P)   38 34.06  -0.1
MTUM    2.69  55 eP    38 34.60  -0.3
BONR    3.22  48 (P)   38 42.40  -0.1
        9 obs. associated
-----------------------------------
*  OCT  17, 1993  15h 38m 58.33± 1.50s
   35.808 N ±13.2km   26.628 E ±12.7km
   DEPTH =  10.0km  (geophysicist)
 CRETE                             (370)
      MD 3.8 (ATH).

NPS     0.99 237 ePb   39 17.00  -0.1
VAM     2.02 259 ePb   39 32.50  -0.3
```

```
CIN     2.14  33 eP    39 35.00   0.5
IZM     2.63  11 ePn   39 41.00  -0.7
VLI     3.12 288 ePn   39 49.50   1.1
KEK     6.67 308 ePn   40 38.00  -0.7
GEC2   16.13 328 P     42 46.90   0.3
        0.7s     0.48nm          2.8mb
                  e    42 51.00
     S.D. = 0.8  on   7 of   7 obs.
-----------------------------------
?  OCT  17, 1993  15h 42m 05.82± 1.02s
   40.630 N ±11.5km   29.909 E ± 7.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.7 (ISK).

EYL     0.20 109 iPg   42 10.30   0.0
                 eSg   42 12.80
IZI     0.44 229 iPg   42 14.80  -0.1
                 iSg   42 21.30
ISK     0.78 304 ePg   42 20.40  -0.6
                 eSg   42 30.90
CTT     1.23 295 iPn   42 29.40   0.6
     S.D. = 0.8  on   4 of   4 obs.
-----------------------------------
   OCT  17, 1993  15h 42m 39.49± 0.40s
   10.989 S ± 5.8km  164.576 E ± 9.5km
   DEPTH =  32.6km  (  6 depth phases)
   4.9mb ( 17 obs.)  4.6Msz (  5 obs.)
 SANTA CRUZ ISLANDS REGION         (183)
      Mw 5.4 (HRV).
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 27S, 39C
      Centroid Location:
      Origin Time        15:42:43.8 0.8
      Lat 10.43S 0.07 Lon 164.38E 0.08
      Dep  15.0 FIX Half-duration  1.1
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 0.64 0.04  Mtt=-0.49 0.05
        Mff=-0.15 0.05  Mrt= 1.01 0.16
        Mrf= 0.00 0.13  Mtf=-0.03 0.03
       Principal Axes:
        T  Val=  1.23  Plg=60  Azm=  1
        N       -0.15       1      269
        P       -1.09      30      178
      Best Double Couple:Mo=1.2*10**17
       NP1:Strike=264 Dip=15 Slip=  85
       NP2:          89     75      91

BKM     7.53 152 iP    44 30.50   0.7
DZM    11.16 171 iPc   45 19.10  -1.0
KVG    16.00 300 eP    46 26.50   2.6
CTA    19.82 241 iPd   47 09.00  -1.5
        1.0s    37.50nm          4.7mb
                  e    47 17.00
                 i(pP) 47 28.50 105kmX
                 i(sP) 47 40.50
                  eS   50 35.00
ARMA   22.77 210 eP    47 42.10   1.6
        1.0s    57.00nm          5.0mb
RIV    25.84 206 eP    48 23.00  13.3X
BWA    27.60 210 eP    48 25.10  -0.8
CAN    28.06 208 eP    48 29.60  -0.5
STK    29.71 222 iPc   48 44.70  -0.2
        1.3s     9.70nm          4.4mb
WR2    30.40 249 eP    48 47.60  -3.6X
        1.0s    13.90nm          4.7mb
                  e    48 58.30  39km
                  iS   53 44.50
WRA    30.42 249 P     49 08.90  17.5X
        1.6s     5.00nm
GUMO   31.28 321 eP    49 10.40  11.5X
        1.4s    80.80nm
                  e    49 14.10  13kmX
TOO    31.54 210 eP    49 02.00   1.0
        1.0s    34.00nm          5.2mb
ASPA   31.80 243 eP    49 02.00  -1.5
        1.3s     9.40nm          4.5mb
ADE    33.52 220 eP    49 18.40   0.0
BAG    51.33 301 eP    51 42.00  -1.4
MAT    53.40 334 eP    51 57.00  -1.4
        1.6s    23.33nm          4.9mb
                  eS   59 21.00
DRV    58.03 191 eP    52 32.00   0.7
                  S    01 09.00
SSE    59.02 317 eP    52 39.50   0.8
        1.0s    11.00nm          4.9mb
```

```
     Z  20s      0.50um          4.6Msz
                  S     00 42.00
NJ2    61.18 316 Pc     52 55.00   1.5
     Z  18s      0.35um          4.6Msz
                  pP    53 02.40  24km
                  eS    01 10.00
BJI    67.72 322 eP     53 35.50  -0.4
       1.0s       7.00nm          4.7mb
     Z  24s      0.45um          4.6MszX
                  eS    02 33.00
TIY    68.74 318 eP     53 41.00  -1.5
     Z  16s      0.83um          5.1MszX
     E  15s      0.75um
                  sP    53 54.00
XAN    69.24 313 P      53 43.80  -1.8
       1.0s       5.40nm          4.6mb
     Z  20s      0.30um          4.5Msz
                  pP    53 54.50  35km
KMI    70.11 302 Pc     53 51.50   0.2
       2.0s      60.00nm          5.3mb
                  pP    54 01.00  30km
HHC    71.05 320 eP     53 56.00  -0.6
CHTO   71.15 294 eP     53 59.60   2.2
CD2    71.66 308 eP     54 00.60   0.3
BTO    71.89 319 eP     54 02.00   0.4
                  esP   54 11.00
LZH    73.87 313 eP     54 14.00   0.6
       1.5s      29.00nm          5.1mb
     Z  16s      0.29um          4.7MszX
                  pP    54 24.00  32km
                  eS    03 45.00
GTA    78.19 314 eP     54 37.00  -0.7
       1.5s      16.00nm          4.8mb
     Z  18s      0.57um          4.9Msz
                  pP    54 48.00  36km
                  sP    54 53.00
SVW    78.42  19 eP     54 38.20  -0.1
SPA    79.08 180 iPc    54 42.60   0.5
       1.3s      41.67nm          5.3mb
TTA    79.71  17 eP     54 45.50   0.1
PMR    80.90  20 eP     54 50.90  -0.7
       1.3s      41.70nm          5.3mb
TOA    82.28  21 eP     55 00.00   1.1
IMA    82.76  16 eP     55 01.50   0.1
       1.3s      20.90nm          5.1mb
FBA    83.63  18 eP     55 04.90  -0.8
       1.1s      32.90nm          5.4mb
WMQ    88.24 315 P      55 28.40  -0.6
     Z  20s      0.27um          4.7Msz
SOB1  147.68 127 ePKP   02 21.50   1.0
                  e     02 34.50
     S.D. = 1.1  on  35 of  39 obs.
-----------------------------------
?  OCT  17, 1993  16h 17m 21.50± 6.64s
   29.400 S ±57.2km   68.672 W ±15.8km
   DEPTH =  33.0km  (normal)
 SAN JUAN PROVINCE, ARGENTINA     (137)

RTRS    1.03 222 eP     17 39.50  -0.1
                  S     17 50.50
RTLL    1.93 175 ePc    17 51.50  -1.2
                  S     18 11.50
RTCB    2.08 183 eP     17 56.00   1.1
                  S     18 18.00
CFA     2.23 170 eP     17 57.00   0.1
                  S     18 21.00
MRA     3.94 140 e(P)c 18 21.20   0.1
     S.D. = 1.2  on   5 of   5 obs.
-----------------------------------
?  OCT  17, 1993  17h 28m 35.93± 3.26s
   39.680 N ± 8.9km   26.246 E ±37.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
     ML 2.7 (ISK).

EZN     0.16  23 iPg    28 39.00  -0.6
                  iSg   28 42.00
KGT     1.12  46 iPn    28 57.30   0.4
MFT     1.36  35 iPn    29 01.80   0.8
EDC     1.41  61 ePn    29 01.00  -0.6
IZM     1.50 148 ePn    29 03.00   0.0
     S.D. = 0.9  on   5 of   5 obs.
-----------------------------------
*  OCT  17, 1993  17h 56m 32.63± 1.34s
    5.979 S ± 8.9km  146.125 E ±26.5km
   DEPTH =  33.0km  (normal)
   4.0mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G.  (207)

YYYY    0.30 211 eP     56 39.30  -1.3
                  eS    56 46.60
MDG     0.80 335 eP     56 47.40  -0.1
MNDI    2.46 266 eP     57 18.00   6.5X
WWKK    3.42 313 eP     57 35.00  10.0X
CTA    14.03 179 eP     59 43.00  -8.3X
WR2    17.99 218 eP     00 43.10   1.2
       0.8s      6.50nm          3.8mb
ASPA   21.16 213 iPc    01 23.60   6.2X
       1.1s      9.60nm          4.1mb
ARMA   24.86 169 eP     01 54.00   0.2
GUN    67.13 304 P      07 32.80   6.7X
PKI    67.40 303 P      07 28.00   0.2
KKN    67.59 303 P      07 29.60   0.8
DMN    67.67 303 P      07 29.40   0.0
GKN    68.19 303 P      07 31.40  -1.1
KIC   151.03 272 PKP    16 24.02   5.2X
LKO   151.76 279 PKP    16 24.96   5.0X
       0.7s      3.50nm
     S.D. = 1.0  on   8 of  15 obs.
-----------------------------------
%  OCT  17, 1993  18h 33m 14.79± 0.61s
   40.835 N ± 6.3km   27.969 E ± 6.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
     ML 2.8 (ISK).

CTT     0.47  48 iPg    33 24.40   0.1
EDC     0.49 189 iPg    33 25.00   0.2
                  eSg   33 32.00
MFT     0.52 265 iPg    33 24.80  -0.6
                  eSg   33 31.80
KGT     0.64 233 iPg    33 27.30  -0.2
                  iSg   33 35.80
ISK     0.86  74 ePg    33 30.80  -0.5
                  eSg   33 43.80
DMK     1.00 351 iPg    33 34.10   0.4
                  iSg   33 47.30
EZN     1.61 232 ePn    33 44.00   0.7
     S.D. = 0.6  on   7 of   7 obs.
-----------------------------------
?  OCT  17, 1993  19h 23m 56.44± 0.94s
   40.751 N ± 7.9km   27.402 E ± 7.3km
   DEPTH =   5.0km  (geophysicist)
 TURKEY                           (366)
     ML 2.6 (ISK).

MFT     0.10 291 iPg    23 58.60  -0.1
KGT     0.31 194 iPg    24 02.80   0.1
                  eSg   24 07.80
EDC     0.53 139 iPg    24 07.00  -0.2
                  eSg   24 14.00
CTT     0.87  63 iPg    24 13.80   0.1
                  eSg   24 26.30
     S.D. = 0.2  on   4 of   4 obs.
-----------------------------------
*  OCT  17, 1993  19h 38m 29.38± 1.33s
    5.052 S ±11.1km  152.437 E ±17.1km
   DEPTH =  73.3 ± 11.9 km
   4.8mb (  4 obs.)
 NEW BRITAIN REGION, P.N.G.       (192)

RAB     0.90 342 iPd    38 46.00  -1.0
       0.4s   5220.34nm
                  iS    39 02.00
KVG     2.94 326 eP     39 16.10   1.4
DZM    21.68 143 iPc    43 16.60   0.7
WR2    22.99 228 eP     43 28.10  -0.6
       0.6s      8.90nm          4.4mb
SVW    77.19  23 eP     50 17.30   0.6
TTA    78.13  21 eP     50 22.20   0.3
PMR    80.06  24 eP     50 31.30  -1.0
       0.7s     11.10nm          4.9mb
IMA    80.81  20 eP     50 36.50   0.1
       0.9s      8.40nm          4.7mb
TOA    81.54  25 eP     50 40.30   0.2
FBA    82.25  22 eP     50 42.90  -0.8
       0.8s     20.80nm          5.1mb
GEC2  124.08 328 PKP    57 21.30   0.1
       0.7s      0.90nm
                  e     57 23.60
                  e     57 34.10
     S.D. = 0.9  on  11 of  11 obs.
-----------------------------------
%  OCT  17, 1993  19h 54m 31.88± 0.61s
   31.295 S ±10.6km   68.529 W ± 9.7km
   DEPTH = 100.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA     (137)

RTLL    0.06 124 iPd    54 45.70  -0.6
                  S     54 56.00
                  ePPd  16 23.70
                  S     16 35.70
RTCB    0.30 230 iPd    54 46.50  -0.3
                  S     54 57.50
CFA     0.40 142 iPc    54 47.40   0.2
                  S     54 59.40
RTCV    0.56 181 iPd    54 48.90   0.5
RTRS    1.38 324 iPd    54 57.20   0.2
                  S     55 16.00
RTPR    2.00  61 eP     55 05.00   0.1
                  S     55 30.00
MRA     2.65 116 ePc    55 13.50  -0.1
     S.D. = 0.4  on   7 of   7 obs.
-----------------------------------
?  OCT  17, 1993  20h 08m 17.05± 2.56s
   36.819 N ±26.3km   29.079 E ±14.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
     ML 3.1 (ISK).

ELL     0.67  96 ePg    08 30.00  -0.5
                  eSg   08 43.00
CIN     1.11 315 ePg    08 38.00   0.1
                  iSg   08 51.00
BCK     1.37  62 ePn    08 43.00   0.8
                  eSn   09 03.00
KHL     1.54  13 ePn    08 44.00  -0.7
     S.D. = 1.2  on   4 of   4 obs.
-----------------------------------
*  OCT  17, 1993  20h 18m 03.17± 2.59s
   36.711 N ±27.8km   29.112 E ±11.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
     ML 3.3 (ISK).

ELL     0.64  86 iPg    18 16.00  -0.1
                  eSg   18 27.00
CIN     1.21 318 ePg    18 26.00   0.4
                  iSg   18 41.00
BCK     1.40  57 ePn    18 29.10   0.3
KHL     1.64  11 ePn    18 32.00  -0.2
IZM     2.23 319 ePn    18 40.50  -0.3
     S.D. = 0.5  on   5 of   5 obs.
-----------------------------------
%  OCT  17, 1993  21h 57m 30.31± 1.47s
   14.390 N ±15.5km   92.368 W ±11.0km
   DEPTH =  33.0km  (normal)
 NEAR COAST OF CHIAPAS, MEXICO    ( 69)
     MD 4.0 (GCG).

TPX     0.52  11 iP     57 41.50   0.3
                  iS    57 49.00
BVA     1.70  80 iPd    57 58.38   0.1
                  iS    58 15.92
                  iS    58 25.76
IXG     1.87  96 iPc    58 01.10   0.4
                  iS    58 24.53
SCX     2.35 354 iP     58 07.00  -0.3
                  iS    58 31.00
YUP     2.49  94 iPc    58 09.15  -0.5
                  iS    58 42.26
OXX     4.97 303 iP     58 48.50   3.6X
                  iS    59 38.00
IISM    6.63 314 (P)    59 26.00  18.0X
PPM     7.59 309 (P)    59 22.00   0.1
     S.D. = 0.5  on   6 of   8 obs.
-----------------------------------
   OCT  17, 1993  22h 57m 00.86± 0.49s
   45.238 N ± 6.6km    3.902 E ± 4.1km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                           (538)
     ML 3.0 (STR).

SSB     0.45  85 Pg     57 10.69   0.6
                  Sg    57 18.06
LBL     0.46 270 Pg     57 10.51   0.2
PLDF    0.76 345 Pg     57 15.96   0.2
                  Sg    57 25.88
PYM     0.81 310 Pg     57 17.14   0.5
                  Sg    57 27.13
AGO     0.98 327 Pg     57 20.11   0.7
```

17d 22h

```
                 Sg    57 32.41
RSL     1.97  76 Pn    57 34.32  -0.4
                 Pg    57 38.48
                 Sg    58 03.75
RRL     2.07  98 P     57 36.74   0.5
LSD     2.30  83 P     57 39.94   0.2
RSP     2.37  91 P     57 40.65   0.1
PZZ     2.39 107 P     57 42.51   1.7
BHB     2.42  98 P     57 42.09   1.0
ENR     2.70 111 P     57 44.43  -0.8
ETER    3.03 195 eP    57 57.00   7.3X
                 e     58 37.20
IMI     3.14 114 P     57 49.78  -1.6
FIN     3.24 107 P     57 52.39  -0.3
PCP     3.37 100 P     57 54.45  -0.2
FEL     3.87  46 ePn   58 43.10  41.3X
EGRA    4.31 227 eP    58 07.50  -0.4
                 e     58 51.60
DOU     4.88   5 iP    58 14.10  -1.9
                 iS    59 06.20
                 i     59 40.20
     S.D. = 1.0  on  17 of  19 obs.
-----------------------------------
?  OCT  17, 1993  23h 04m 47.46± 2.47s
   31.134 S ±42.0km   68.234 W ±13.7km
   DEPTH = 100.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA     (137)

RTLL    0.28 226 iPd   05 02.20   0.0
                 S     05 13.00
CFA     0.47 180 ePc   05 03.80   0.5
                 S     05 15.70
RTCB    0.60 234 iPd   05 04.50   0.2
                 S     05 16.00
RTCV    0.77 200 eP    05 05.50  -0.3
                 S     05 19.00
MRA     2.50 121 ePc   05 27.10  -0.1
     S.D. = 0.4  on   5 of   5 obs.
-----------------------------------
%  OCT  17, 1993  23h 15m 32.71± 0.68s
   44.267 N ± 4.4km    8.218 E ± 5.0km
   DEPTH =   5.0km  (geophysicist)
 NORTHERN ITALY                   (545)
     ML 2.4 (GEN).

FIN     0.06 187 Pc    15 34.69   0.4
                 S     15 35.86
ROB     0.25 276 Pd    15 38.41   0.6
                 S     15 42.00
PCP     0.36  40 Pc    15 39.98   0.0
                 S     15 45.02
IMI     0.43 214 Pc    15 40.81  -0.5
                 S     15 46.59
ENR     0.57 266 P     15 44.33   0.1
                 S     15 51.95
STV     0.64 268 P     15 45.56   0.0
                 S     15 53.80
PZZ     0.84 287 P     15 49.05  -0.4
                 S     16 00.47
BHB     0.89 310 P     15 50.24  -0.1
                 S     16 02.04
RSP     1.12 323 P     15 54.31   0.1
RRL     1.21 303 P     15 55.78  -0.2
     S.D. = 0.4  on  10 of  10 obs.
-----------------------------------
%  OCT  17, 1993  23h 17m 45.29± 0.81s
   44.270 N ± 5.8km    8.210 E ± 6.7km
   DEPTH =   5.0km  (geophysicist)
 NORTHERN ITALY                   (545)
     ML 1.8 (GEN).

FIN     0.06 181 P     17 47.17   0.2
                 S     17 48.32
ROB     0.25 276 P     17 50.97   0.7
                 S     17 54.63
PCP     0.36  41 P     17 52.62   0.0
                 S     17 58.02
IMI     0.43 213 P     17 53.54  -0.3
                 S     17 59.35
PZZ     0.83 287 P     18 01.41  -0.5
BHB     0.89 311 P     18 02.69  -0.1
     S.D. = 0.5  on   6 of   6 obs.
-----------------------------------
   OCT  17, 1993  23h 34m 57.16± 0.53s
   39.401 N ± 4.8km   27.908 E ± 5.5km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
     ML 2.9 (ISK).

EDC     0.95 358 iPg   35 15.50   0.3
                 eSg   35 29.00
KGT     1.15 336 iPn   35 19.20   0.6
EZN     1.29 290 iPn   35 20.60  -0.5
MFT     1.46 341 iPn   35 23.70   0.0
IZI     1.52  52 ePn   35 24.00  -0.5
KHL     1.66 130 ePn   35 26.00  -0.5
ALT     1.75 101 ePn   35 28.00   0.2
CTT     1.79  13 ePn   35 28.20  -0.1
CIN     1.80 175 ePn   35 29.00   0.5
                 iSg   35 51.00
EYL     2.08  55 ePn   35 33.00   0.3
DMK     2.42 357 ePn   35 37.00  -0.4
     S.D. = 0.5  on  11 of  11 obs.
-----------------------------------
?  OCT  18, 1993  00h 00m 56.37±10.06s
   39.427 N ±63.2km   27.828 E ±46.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
     ML 2.7 (ISK).

EDC     0.92   2 iPg   01 14.00   0.1
                 eSg   01 27.00
KGT     1.10 339 ePn   01 17.00   0.0
EZN     1.23 289 ePn   01 19.20   0.0
MFT     1.42 343 ePn   01 22.20  -0.1
     S.D. = 0.1  on   4 of   4 obs.
-----------------------------------
   OCT  18, 1993  00h 06m 15.21± 0.78s
   42.385 N ± 6.8km    1.072 E ± 6.0km
   DEPTH =  10.0km  (geophysicist)
 PYRENEES                         (378)
     mbLg 2.5 (MDD). ML 2.0 (STR).

PAND    0.38  68 Pg    06 22.41  -0.6
SALF    0.38  13 Pg    06 23.92   0.8
GRBF    0.57  37 Pg    06 27.04   0.2
ENSF    0.69 308 Pg    06 28.19  -0.7
EGRA    1.05 260 eP    06 26.10  -8.8X
                 e     06 35.80
ETER    1.32  93 eP    06 39.60  -0.1
                 e     06 56.80
PERF    1.34  85 Pg    06 39.80  -0.1
EROQ    1.64 198 eP    06 44.60   0.4
                 e     07 04.40
     S.D. = 0.7  on   7 of   8 obs.
-----------------------------------
&  OCT  18, 1993  00h 28m 21.46s
   32.172 N          116.673 W
   DEPTH =   6.0km  (geophysicist)
 CALIF.-BAJA CALIF. BORDER REGION( 45)
     <PAS-P>. ML 2.8 (PAS).

PLM     1.19 352 eP    28 42.54  -1.6
                 eS    28 58.29
PEC     1.76 347 eP    28 51.03  -1.7
                 eS    29 12.38
GLA     1.79  60 eP    28 51.09  -2.0
                 eS    29 11.77
SSK     2.21 337 eP    28 58.96  -0.4
GSC     3.12 358 (P)   29 08.88  -3.4
        5 obs. associated
-----------------------------------
   OCT  18, 1993  01h 27m 25.31± 0.52s
   47.475 N ± 4.4km    7.145 E ± 4.3km
   DEPTH =  10.0km  (geophysicist)
 SWITZERLAND                      (544)
     ML 2.1 (STR).

BBS     0.25  92 Pg    27 30.21  -0.4
LOMF    0.25 240 Pg    27 29.87  -0.8
MOF     0.38 359 Pg    27 32.93  -0.1
                 Sg    27 38.75
FEL     0.71  55 ePg   27 38.80  -0.6
ECH     0.74   1 Pg    27 40.07   0.2
                 Sg    27 49.85
ZLA     0.84  89 eP    27 42.30   0.7
CDF     0.94   5 Pg    27 43.21  -0.1
                 Sg    27 57.05
WLS     0.95   8 Pg    27 43.68   0.3
                 Sg    27 56.46
SLE     0.96  72 iPd   27 43.30  -0.3
VITF    1.08 314 Pg    27 46.07   0.5
                 Sg    28 00.46
DIX     1.41 172 eP    27 51.90   0.7
     S.D. = 0.6  on  11 of  11 obs.
-----------------------------------
*  OCT  18, 1993  01h 28m 22.54± 0.83s
   36.443 N ±16.3km   53.950 E ± 9.8km
   DEPTH =  33.0km  (normal)
   4.4mb (  2 obs.)
 NORTHERN IRAN                    (348)
     ML 4.4 (TEH).

TEH     2.19 252 ePc   28 58.00   0.5
MAIO    4.48  90 ePn   29 31.00   1.1
        0.9s    14.92nm
                 eSn   30 21.00
OBN    22.13 333 eP    33 17.00   0.4
        1.2s    22.00nm         4.5mb
VRI    22.47 303 eP    33 20.00  -0.1
MLR    22.90 302 eP    33 25.50   1.0
GBA    30.99 131 P     34 38.00  -1.1
CLL    32.57 310 e(P)  34 56.00   3.3X
SLL    35.22 326 eP    35 13.70  -1.8
        0.5s     1.80nm         4.3mb
     S.D. = 1.3  on   7 of   8 obs.
-----------------------------------
?  OCT  18, 1993  01h 30m 10.03± 2.89s
   36.745 N ±28.9km   29.100 E ±14.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
     ML 3.1 (ISK).

ELL     0.65  89 iPg   30 23.00  -0.1
                 eSg   30 34.00
CIN     1.18 317 eP    30 32.00   0.0
BCK     1.39  59 ePn   30 35.70   0.2
                 eSn   30 57.00
KHL     1.61  12 ePn   30 38.50  -0.1
     S.D. = 0.3  on   4 of   4 obs.
-----------------------------------
&  OCT  18, 1993  01h 30m 30.01s
   37.639 N          118.923 W
   DEPTH =   8.9km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
     <GM-P>. MD 3.2 (GM). ML 3.0
     (BRK). Felt throughout the Long
     Valley Caldera region.

MEMM    0.03 335 iPc   30 31.71  -0.1
MMPM    0.09 251 iPc   30 32.42  -0.3
MRCM    0.33  84 iPc   30 36.67  -0.3
MTUM    0.40 135 iPd   30 37.86  -0.4
BONR    0.58  57 iPc   30 41.42  -0.4
FRI     0.90 224 iP    30 46.78  -0.6
                 iS    30 58.31
CMB     1.22 289 iPc   30 52.29  -0.6
TNP     1.42  71 iPc   30 56.87   0.7
PKEM    1.84 211 (P)   31 03.77   1.7
ISA     2.00 169 eP    31 06.39   1.9
                 eS    31 32.15
ARN     2.10 263 eP    31 07.11   1.3
MHC     2.18 263 eP    31 08.42   1.3
SAO     2.19 247 eP    31 08.16   1.0
COE     2.22 261 eP    31 09.22   1.6
TPNV    2.24 107 eP    31 08.60   0.6
                 eS    31 43.75
PRS     2.35 237 iP    31 10.72   1.2
BCH     2.62 201 eP    31 14.03   0.7
                 eS    31 49.16
ORV     2.78 314 eP    31 16.15   0.6
                 eS    31 56.57
ABL     2.79 185 eP    31 17.07   1.1
GSC     2.89 143 eP    31 17.94   0.8
        20 obs. associated
-----------------------------------
&  OCT  18, 1993  01h 33m 36.64s
   37.635 N          118.916 W
   DEPTH =   8.8km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
     <GM-P>. MD 2.8 (GM). Felt in the
     Long Valley Caldera region.

MMPM    0.09 254 P     33 39.07  -0.3
MRCM    0.33  83 Pc    33 46.81   3.4
MTUM    0.40 135 P     33 41.49  -3.3
BONR    0.58  57 iPc   33 48.03  -0.4
TNP     1.42  71 eP    34 02.04  -0.8
ISA     2.00 170 iPc   34 12.92   1.9
ABL     2.79 185 eP    34 23.10   0.6
        7 obs. associated
```

```
-----------------------------------
&  OCT  18, 1993  01h 37m 33.36s
   37.641 N          118.916 W
   DEPTH =   8.3km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      <GM-P>. MD 2.9 (GM). Felt in the
      Long Valley Caldera region.

MTUM    0.40 136 eP    37 41.12  -0.4
CMB     1.23 289 P     37 55.70  -0.7
ISA     2.01 170 eP    38 09.36   1.4
                eS     38 35.54
BCH     2.63 201 eP    38 17.29   0.4
ORV     2.78 314 eP    38 22.36   3.3
        5 obs. associated
-----------------------------------
?  OCT  18, 1993  01h 59m 48.39± 0.97s
   38.873 N ± 8.4km    0.812 W ± 8.8km
   DEPTH =  10.0km  (geophysicist)
 SPAIN                              (377)
      mbLg 2.7 (MDD).

ACU     0.48 139 iPc   59 58.11   0.0
                e      00 04.90
ECHE    0.73 350 eP    00 02.71   0.0
                e      00 13.70
EVIA    1.34 260 eP    00 13.15   0.0
                e      00 32.00
EHUE    1.75 234 eP    00 19.13   0.0
                e      00 41.80
     S.D. = 0.0  on   4 of   4 obs.
-----------------------------------
?  OCT  18, 1993  02h 47m 27.26± 3.76s
   38.759 N ±21.3km   26.463 E ±36.0km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                         (365)
      ML 3.1 (ISK).

IZM     0.72 120 ePg   47 41.50   0.0
                eSg    47 53.20
EZN     1.07 354 iPn   47 47.20  -0.2
KGT     1.81  21 ePn   47 58.70   0.0
EDC     1.92  34 ePn   48 00.00  -0.3
MFT     2.12  17 ePn   48 03.70   0.4
     S.D. = 0.4  on   5 of   5 obs.
-----------------------------------
?  OCT  18, 1993  02h 53m 13.90± 2.26s
   31.489 S ±34.1km   68.947 W ±43.0km
   DEPTH = 100.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA       (137)

RTCB    0.13  89 iPd   53 28.50   0.0
                S      53 37.00
RTLL    0.44  69 iPd   53 29.50   0.0
                S      53 40.00
RTCV    0.51 137 iPd   53 30.00   0.0
                S      53 42.50
CFA     0.62 101 iPc   53 30.90   0.0
                S      53 44.00
     S.D. = 0.1  on   4 of   4 obs.
-----------------------------------
*  OCT  18, 1993  03h 06m 59.49± 1.05s
   23.626 N ±11.8km  100.340 E ±12.2km
   DEPTH =  10.0km  (geophysicist)
 YUNNAN, CHINA                      (318)
      ML 4.2 (BJI).

KMI     2.65  55 Pnc   07 44.50   1.3
                Pg     07 49.50
                Sg     08 24.00
CHTO    4.96 195 ePnd  08 16.10   0.3
                iPg    08 32.90
                iSg    09 40.50
GYA     6.39  63 Pn    08 34.40  -1.8
                Sn     09 46.40
CD2     7.87  22 eP    08 57.30   0.6
     Z  10s      1.43um
                eS     10 30.00
LSA    10.20 308 P     09 29.10  -0.4
       1.2s     20.00nm          5.4mb
XAN    12.81  34 P     10 00.00  -4.4X
       1.0s      8.90nm          4.9mb
     Z  10s      0.88um          3.2Msz
                pP     10 03.40
     S.D. = 1.6  on   5 of   6 obs.
-----------------------------------
&  OCT  18, 1993  03h 45m 53.36s
   37.633 N          118.917 W
   DEPTH =   8.5km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      <GM-P>. MD 2.8 (GM). Felt at
      Mammoth Lakes, California.

MCSM    0.02  24 P     45 55.10  -0.2
MEMM    0.04 332 iPc   45 55.22   0.1
CLKR    0.08 120 P     45 55.68  -0.3
MMPM    0.09 255 iPc   45 55.79  -0.3
MRCM    0.33  83 iPc   46 00.01  -0.2
MTUM    0.40 135 iPd   46 01.17  -0.3
BCKR    0.44  81 P     46 02.12  -0.2
BHPR    0.48 134 P     46 02.79  -0.3
CWCR    0.50 106 P     46 03.27  -0.3
BONR    0.58  56 iPc   46 04.67  -0.5
FRI     0.90 225 P     46 10.10  -0.6
CMB     1.23 289 ePc   46 15.78  -0.6
                eS     46 30.92
TNP     1.42  71 eP    46 20.28   0.7
MNHM    1.59 289 P     46 23.40   1.7
BRMM    1.72 243 P     46 25.02   1.4
PDRM    1.74 222 P     46 25.75   1.7
BMSM    1.79 238 P     46 26.63   1.9
VPEM    1.90 152 P     46 29.12   2.7
WASM    1.91 171 P     46 28.76   2.1
ISA     2.00 170 iPc   46 29.75   2.0
CSTL    2.05 271 P     46 30.29   1.8
LTR     2.05 249 P     46 29.70   1.3
WOFM    2.10 175 P     46 31.53   2.2
BLRM    2.12 244 P     46 31.85   2.4
LRC     2.19 232 P     46 32.18   1.6
WJPM    2.25 171 P     46 34.00   2.6
WSHM    2.30 150 P     46 36.54   4.3
        27 obs. associated
-----------------------------------
?  OCT  18, 1993  03h 53m 29.74± 5.38s
   44.734 N ±12.3km    6.647 E ±36.7km
   DEPTH =   5.0km  (geophysicist)
 FRANCE                             (538)
      ML 2.3 (GEN).

RRL     0.21  28 P     53 33.47  -0.7
                S      53 35.95
PZZ     0.40 125 P     53 37.91   0.2
                S      53 43.45
BHB     0.45  76 P     53 38.10  -0.7
                S      53 43.63
RSP     0.60  46 P     53 42.99   1.2
     S.D. = 1.5  on   4 of   4 obs.
-----------------------------------
?  OCT  18, 1993  04h 25m 28.32± 4.71s
   31.570 S ±55.3km   69.272 W ±59.4km
   DEPTH = 120.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA       (137)

RTCB    0.41  78 ePc   25 46.00  -0.1
                S      25 59.50
RTLL    0.73  71 ePd   25 48.00  -0.2
                S      26 02.00
CFA     0.88  93 ePd   25 50.00   0.4
                S      26 05.00
RTRS    1.41 353 eP    25 55.00   0.0
                S      26 15.50
MRA     3.14 106 ePc   26 17.00  -0.1
     S.D. = 0.4  on   5 of   5 obs.
-----------------------------------
?  OCT  18, 1993  04h 54m 09.26± 7.31s
   10.774 N ±55.7km   64.674 W ±42.8km
   DEPTH =  33.0km  (normal)
 NEAR COAST OF VENEZUELA            ( 97)

PCRV    0.60 176 iPc   54 21.30   0.0
                iS     54 30.00
GUAN    1.26 230 iPc   54 30.40  -0.3
                iS     54 44.50
LLAV    2.12 262 eP    54 42.80  -0.4
                iS     55 03.40
OLLA    2.23 250 eP    54 45.30   0.6
                iS     55 12.40
     S.D. = 0.8  on   4 of   4 obs.
-----------------------------------
&  OCT  18, 1993  05h 44m 48.87s
   61.459 N          150.928 W
   DEPTH =  58.9km
 SOUTHERN ALASKA                    (  2)
      <AEIC>. ML 2.5 (AEIC).

PWA     0.54  69 iP    45 01.05  -0.2
                eS     45 10.61
CGLM    0.54 254 iP    45 00.84  -0.6
NCG     0.59 265 iP    45 01.47  -0.5
                eS     45 11.54
SKT     0.60 332 eP    45 01.40  -0.6
                eS     45 10.85
SPU     0.61 243 eP    45 01.40  -0.7
                eS     45 11.35
CRP     0.62 252 eP    45 01.98  -0.4
                eS     45 12.47
CKN     0.65 249 eP    45 02.12  -0.5
CKT     0.67 248 iP    45 02.14  -0.7
                eS     45 12.96
PMS     0.69 107 iP    45 02.81  -0.3
CKL     0.73 249 eP    45 02.95  -0.7
                eS     45 14.20
BGL     0.73 255 eP    45 03.13  -0.5
                eS     45 14.58
NKA     0.73 192 eP    45 04.81   1.3
BKG     0.75 239 eP    45 03.20  -0.7
                eS     45 14.59
PLRM    0.87  80 eP    45 04.48  -0.8
                eS     45 17.29
CUT     1.00  18 iP    45 06.22  -0.8
GHO     1.01  71 eP    45 06.77  -0.4
SLKM    1.01 160 iP    45 06.31  -0.9
KNK     1.19  91 eP    45 08.98  -0.6
                eS     45 25.52
DFR     1.22 225 eP    45 09.48  -0.6
                eS     45 25.91
MPA     1.24 141 eP    45 10.46   0.2
SML     1.29  73 iP    45 10.01  -1.0
REF     1.30 222 eP    45 10.55  -0.8
                eS     45 27.85
NCT     1.33 228 eP    45 11.15  -0.4
RS2     1.34 223 eP    45 11.18  -0.7
RDW     1.34 224 eP    45 11.17  -0.7
PWL     1.39 114 eP    45 11.44  -1.0
SEW     1.54 151 eP    45 14.43   0.0
CFI     1.55  99 eP    45 13.46  -1.0
ILIM    1.71 217 iP    45 16.16  -0.6
                eS     45 38.48
INE     1.75 218 eP    45 17.06  -0.4
SCM     1.76  76 eP    45 16.46  -1.1
CNPM    1.95 185 eP    45 19.71  -0.4
TRF     2.02   8 eP    45 21.19  -0.1
LTI     2.07 132 eP    45 19.95  -1.9
KTH     2.10   0 eP    45 22.15  -0.2
OPT     2.14 213 eP    45 21.92  -0.9
TOA     2.35  72 eP    45 25.12  -0.7
KLU     2.40  87 eP    45 24.31  -2.3
        38 obs. associated
-----------------------------------
*  OCT  18, 1993  05h 50m 17.43± 0.48s
    0.633 N ± 8.1km   30.215 E ± 8.1km
   DEPTH =  33.0km  (normal)
   4.9mb ( 13 obs.)
 UGANDA                             (568)

NAI     6.86 106 iPnd  51 58.00  -0.5
                Sn     53 33.00
                Sg     53 45.00
KRI    17.36 182 ePn   54 12.30  -6.8X
                iLg    59 24.30
BUL    20.71 184 iPn   54 58.60   0.8
                iLg    01 07.10
SLR    26.28 184 eP    55 31.00 -21.0X
       1.5s     52.00nm
                e      01 14.00
KIC    35.34 280 P     57 12.76   0.7
       0.9s     15.00nm          4.9mb
LIC    35.60 280 P     57 13.66  -0.7
       1.2s     25.00nm          5.0mb
     Z  20s      0.13um          3.7Msz
TIC    35.65 280 P     57 14.08  -0.7
       0.8s     12.50nm          4.9mb
LKO    36.71 285 P     57 22.84  -0.8
       0.8s     14.50nm          4.9mb
PSZ    47.94 351 e(P)  58 55.70   0.9
SRO    48.12 349 eP    58 56.40   0.3
ZST    48.72 348 eP    59 08.80   8.1X
GEC2   50.09 346 P     59 11.60   0.2
       0.9s      2.71nm          4.3mb
                e      59 14.80
                e      59 20.00
KHC    50.39 346 P     59 13.50  -0.1
```

18d 05h

```
        1.0s    11.50nm          4.8mb
                  e     59 21.90
GRF    51.51 344 eP     59 22.00    0.0
ENN    54.04 341 eP     59 41.00    0.3
        1.1s    10.50nm          4.8mb
WTS    54.83 343 eP     59 47.50    0.9
        0.9s    18.90nm          5.1mb
WIT    55.59 343 eP     59 53.00    1.0
NUR    59.87 357 eP     00 21.00   -1.0
        0.5s     7.90nm          5.1mb
HFS    60.70 351 eP     00 26.40   -1.3
        0.4s     0.60nm          4.0mb
EKA    60.91 339 Pc     00 29.70    0.5
        1.2s    12.20nm          4.9mb
KAF    61.40 358 iP     00 32.70    0.3
        0.5s    13.60nm          5.3mb
NB2    61.98 350 P      00 35.70   -0.8
        0.8s     6.90nm          4.8mb
     S.D. = 0.8  on  19 of  22 obs.
-----------------------------------
*  OCT  18, 1993  06h 13m 32.68± 2.01s
   13.972 N ±24.7km   92.781 W ±11.8km
   DEPTH =  33.0km  (normal)
   4.0mb (  2 obs.)
 OFF COAST OF CHIAPAS, MEXICO     ( 68)
     MD 4.4 (GCG).

TPX     1.06  28 iP     13 50.00   -1.2
                 (S)    14 02.00
BVA     2.19  71 iPc    14 07.14   -0.6
GCG     2.26  74 iPc    14 08.56   -0.1
                 iS     14 40.67
IXG     2.27  85 iPc    14 08.20   -0.5
                 iS     14 41.57
SCX     2.75   3 iP     14 18.00    2.6
                 iS     14 47.00
YUP     2.90  85 iPd    14 18.98    1.2
OXX     4.90 310 iP     14 52.00    5.8X
                 iS     15 47.00
IISM    6.66 319 (P)    15 16.00    5.3X
PPM     7.56 313 (P)    14 57.00  -26.8X
LTX    18.31 328 eP     17 43.22   -2.8
MIAR   20.50 358 eP     18 10.26   -0.3
        1.0s     7.19nm          4.0mb
TUC    24.57 321 eP     18 53.03    2.0
        1.0s     5.45nm          4.1mb
                  e     18 59.04
PV08   28.25 333 (P)    19 25.12   -0.1
                  e     19 31.70
PV10   28.26 332 eP     19 25.56    0.3
LRM    35.83 336 eP     20 31.00   -0.4
                  e     20 38.20
     S.D. = 1.6  on  12 of  15 obs.
-----------------------------------
&  OCT  18, 1993  06h 27m 52.57s
   58.711 N          154.596 W
   DEPTH = 135.7km
 ALASKA PENINSULA                 ( 12)
     <AEIC>.

CDD     0.54  66 eP     28 11.80   -1.0
AUI     0.87  43 eP     28 14.25   -0.9
                 eS     28 30.54
AUW     0.88  41 iP     28 14.40   -0.8
AUH     0.89  42 eP     28 14.58   -0.8
AUP     0.89  42 eP     28 14.87   -0.6
AUL     0.90  41 eP     28 14.48   -0.9
PDB     1.10  11 eP     28 15.15   -2.1
OPT     1.18  36 eP     28 16.63   -1.4
                 eS     28 36.01
ILIM    1.61  31 eP     28 21.36   -1.3
CNPM    1.92  63 eP     28 26.66    0.4
                 eS     28 49.59
RS2     1.99  27 eP     28 25.65   -1.7
RDW     2.00  26 eP     28 25.49   -1.9
NCT     2.04  24 iP     28 25.92   -2.0
DFR     2.12  26 eP     28 27.00   -1.9
SVW     2.46 348 P      28 30.70   -2.4
BKG     2.64  25 eP     28 34.80   -0.6
BGL     2.79  22 eP     28 35.65   -1.7
SLKM    2.86  49 eP     28 37.06   -1.2
                 eS     29 09.77
CGLM    2.91  25 eP     28 36.83   -2.1
NCG     2.97  23 eP     28 37.93   -1.7
PMS     3.59  43 P      28 45.20   -2.5
LTI     3.70  66 eP     28 47.87   -1.3
MTU     3.78  67 eP     28 50.69    0.4
                 eS     29 30.67
PWL     3.83  53 eP     28 48.19   -2.8
KNK     4.10  46 eP     28 51.54   -3.0
CUT     4.28  28 eP     28 54.61   -2.3
SML     4.40  42 eP     28 55.03   -3.6
VZW     4.69  56 eP     29 00.33   -2.1
        28 obs. associated
-----------------------------------
?  OCT  18, 1993  06h 34m 41.43± 2.18s
   29.778 S ±15.0km  117.005 E ±22.6km
   DEPTH =  10.0km  (geophysicist)
 WESTERN AUSTRALIA                (590)

BAL     0.86 197 eP     34 58.10    0.0
        0.2s    32.00nm
                 eS     35 10.80
MRWA    1.04 302 iPd    35 01.10    0.0
KLB     1.92 160 eP     35 14.50    0.0
                 eS     35 40.50
MUN     2.30 197 eP     35 19.90    0.0
        0.2s   200.00nm
                 eS     35 52.20
NWAO    3.14 176 eP     36 19.50   47.6X
     S.D. = 0.1  on   4 of   5 obs.
-----------------------------------
&  OCT  18, 1993  06h 39m 04.77s
   59.998 N          151.495 W
   DEPTH =  66.5km
 KENAI PENINSULA, ALASKA          ( 14)
     <AEIC>. ML 3.0 (AEIC).

HOM     0.35 192 ePc    39 15.84   -0.2
BRLK    0.39 127 eP     39 15.90   -0.5
                 eS     39 24.50
CNPM    0.49 164 iPc    39 16.67   -0.7
                 eS     39 25.93
XLV     0.56 192 eP     39 17.77   -0.3
ILIM    0.74 277 iPd    39 19.12   -1.1
                 eS     39 30.62
NKA     0.76  10 iPd    39 21.64    1.3
RED     0.76 304 eP     39 19.55   -1.0
                 eS     39 31.86
RSO     0.78 307 iPd    39 20.17   -0.7
RS2     0.78 307 iPd    39 20.21   -0.7
INE     0.79 275 iPd    39 19.70   -1.2
                 eS     39 31.46
RDW     0.82 307 iPd    39 20.51   -0.7
SLKM    0.82  51 ePc    39 20.34   -0.7
DFR     0.84 316 iPd    39 20.60   -0.8
NCT     0.91 309 iPd    39 21.63   -0.7
OPT     0.94 249 eP     39 21.67   -1.0
SEW     1.03  83 ePc    39 22.47   -1.3
BKG     1.14 341 eP     39 24.70   -0.6
                 eS     39 40.73
AUE     1.15 237 ePc    39 24.49   -0.8
AUL     1.16 239 eP     39 24.84   -0.6
AUP     1.17 238 iPd    39 24.57   -1.1
                 eS     39 40.50
AGU     1.17 238 eP     39 25.15   -0.6
MPA     1.17  64 iPc    39 24.95   -0.6
AUH     1.18 238 ePc    39 25.04   -0.7
AUW     1.18 239 ePc    39 25.04   -0.7
AUI     1.18 237 eP     39 24.88   -0.9
                 eS     39 40.59
SPU     1.22 347 eP     39 25.76   -0.5
                 eS     39 42.80
CKT     1.26 344 iPd    39 26.36   -0.5
                 eS     39 43.39
CKL     1.27 341 iPd    39 26.59   -0.5
CKN     1.28 345 iPd    39 26.87   -0.2
CRP     1.31 346 iPd    39 26.94   -0.7
                 eS     39 45.51
CGLM    1.34 349 iPd    39 27.63   -0.3
BGL     1.34 341 iPd    39 27.78   -0.2
PDB     1.38 262 iPc    39 26.94   -1.4
                 eS     39 44.21
NCG     1.45 347 iPd    39 29.29   -0.1
CDD     1.53 227 eP     39 29.25   -1.3
                 eS     39 49.42
PMS     1.57  36 P      39 31.00   -0.1
PWL     1.79  60 iPc    39 32.91   -1.1
LTI     1.83  87 ePc    39 32.78   -1.8
PWA     1.84  25 P      39 34.70    0.0
MTU     1.93  89 eP     39 34.18   -1.8
PLRM    1.98  35 eP     39 35.60   -1.0
PMR     1.98  35 eP     39 35.06   -1.5
SKT     1.99 360 eP     39 36.78    0.0
KNK     2.06  45 eP     39 36.81   -1.0
GHO     2.18  34 eP     39 38.63   -0.9
                 eS     40 05.09
CFI     2.19  56 eP     39 38.07   -1.5
SVW     2.32 300 eP     39 38.15   -3.3
SML     2.38  39 eP     39 41.36   -1.0
CUT     2.49  13 eP     39 43.57   -0.1
HIN     2.53  79 eP     39 41.96   -2.3
FID     2.60  71 eP     39 42.42   -2.9
VZW     2.66  64 eP     39 44.29   -2.0
MID     2.67 100 P      39 45.50   -0.8
SCM     2.74  46 eP     39 46.41   -1.0
VLZ     2.79  64 eP     39 46.15   -1.8
CVA     2.92  77 eP     39 46.82   -2.9
KLU     3.12  59 iPc    39 50.94   -1.8
SGAM    3.18  78 eP     39 50.42   -3.0
TOA     3.34  48 P      39 54.70   -1.1
RAGM    3.43  81 eP     39 54.26   -2.7
TRF     3.51   9 eP     39 58.02   -0.3
KTH     3.58   4 eP     39 59.03   -0.1
TZL     3.60  53 eP     39 58.85   -0.4
HMT     3.63  82 eP     39 57.08   -2.7
TTA     3.65 326 (P)    39 58.02   -2.1
DHY     3.67  31 eP     39 59.03   -1.4
GLB     4.04  66 eP     40 02.74   -2.9
PAX     4.15  41 eP     40 05.65   -1.5
CRQM    4.22  76 eP     40 06.41   -1.8
WAX     4.33  80 eP     40 07.25   -2.5
TGL     4.37  76 eP     40 08.19   -2.1
BALM    4.64  73 eP     40 11.00   -3.1
WRH     4.76  18 eP     40 14.34   -1.3
YAH     4.88  81 eP     40 14.88   -2.7
CCB     4.97  19 eP     40 16.91   -1.7
CTGM    5.12  75 eP     40 19.15   -1.7
FBA     5.21  18 eP     40 20.20   -1.7
        77 obs. associated
-----------------------------------
&  OCT  18, 1993  06h 40m 20.88s
   37.539 N          118.886 W
   DEPTH =   5.2km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
     <GM-P>. MD 3.4 (GM). ML 3.8
     (BRK), 3.3 (GS). Felt at Mammoth
     Lakes, California.

MCSM    0.12 353 P      40 23.73    0.2
MMPM    0.13 302 iPc    40 23.77   -0.1
MEMM    0.13 342 iPd    40 24.01    0.4
MTUM    0.32 126 iPc    40 27.18   -0.1
MRCM    0.33  66 iPc    40 27.58    0.0
BCKR    0.44  69 P      40 29.73    0.0
BONR    0.62  48 iPc    40 33.00   -0.4
FRI     0.85 230 iP     40 37.02   -0.7
MSTM    1.26 287 P      40 43.88   -0.8
CMB     1.29 293 ePc    40 44.40   -0.8
                 eS     41 00.40
TNP     1.43  67 iPc    40 47.94    0.3
PWMM    1.53 224 P      40 49.90    1.0
PHBM    1.61 217 P      40 51.20    1.3
PDRM    1.69 225 P      40 52.27    1.1
BAVM    1.71 274 P      40 55.82    4.4
PARM    1.74 223 P      40 53.15    1.3
PKEM    1.77 214 eP     40 54.00    1.6
                 eS     41 16.60
WCHM    1.78 158 P      40 53.72    1.0
ADWM    1.79 301 P      40 53.31    0.7
PRCM    1.89 228 P      40 55.41    1.3
ISA     1.90 170 iPc    40 55.72    1.4
                 eS     41 20.48
PCRM    1.90 221 P      40 55.20    0.9
ASMM    1.91 313 P      40 55.64    1.2
ALAM    1.93 303 P      40 56.06    1.4
AASM    1.97 298 P      40 56.45    1.3
PCL     1.98 257 P      40 56.40    1.1
CTM     1.98 216 P      40 57.09    1.5
ARJM    1.99 306 P      40 57.10    1.5
PSMM    2.01 224 P      40 57.02    1.1
LTR     2.04 252 P      40 57.27    1.0
PTV     2.05 226 P      40 58.54    2.1
PSTM    2.07 220 P      40 57.93    1.2
CMMM    2.08 268 P      40 57.72    0.8
CSTL    2.08 274 P      40 58.29    1.5
BLRM    2.10 246 P      40 59.34    2.3
PAGM    2.11 212 P      40 58.13    0.8
ARN     2.11 266 iPc    40 58.33    0.9
                 eS     41 26.45
WKR     2.16 218 P      40 58.84    0.8
```

```
PTRM     2.16 210 P      40 59.09    1.0
AFDM     2.16 311 P      41 00.39    2.3
AHRM     2.16 308 P      41 00.30    2.2
PMCM     2.17 214 P      40 59.00    0.8
ARRM     2.18 305 P      41 01.22    3.0
TPNV     2.18 105 eP     40 58.36   -0.2
                  eS     41 32.34
SAO      2.19 250 ePc    40 59.45    1.1
                  eS     41 28.19
MHC      2.20 266 eP     40 59.69    1.0
CDVM     2.22 272 P      41 00.54    1.7
FRP      2.22 250 P      40 59.63    0.7
COE      2.24 264 eP     41 00.69    1.6
                  eS     41 31.49
YEG      2.27 203 P      41 00.69    1.0
APRM     2.27 307 P      41 01.10    1.5
AFRM     2.31 304 P      41 03.11    3.0
JRRM     2.32 259 P      41 01.19    0.9
CVR      2.32 269 P      41 01.74    1.4
PRS      2.33 240 iP     41 01.32    0.9
HMR      2.39 286 eP     41 02.27    1.0
PANM     2.39 223 P      41 02.28    0.9
PADM     2.48 221 P      41 03.30    0.8
PMGM     2.48 213 P      41 03.45    0.8
BCH      2.54 203 eP     41 04.06    0.5
BKS      2.68 278 iP     41 06.54    1.1
ABL      2.70 186 eP     41 06.83    0.9
                  eS     41 45.19
ZSP      2.70 280 iP     41 07.58    1.8
PCC      2.78 270 iP     41 07.70    0.9
GSC      2.79 142 eP     41 07.47    0.3
ORV      2.87 315 eP     41 11.31    3.1
NMTM     3.08 295 P      41 13.76    2.7
MGL      3.09 318 P      41 15.84    4.6
NTYM     3.10 287 eP     41 14.21    2.9
                  eS     41 56.27
GSGM     3.29 295 P      41 16.76    2.6
SSK      3.46 163 eP     41 18.73    2.1
LMEM     3.65 326 (P)    41 19.68    0.3
PEC      3.90 158 eP     41 24.09    1.3
WDC      4.16 318 (P)    41 26.21   -0.2
ARUT     4.33  85 ePn    41 28.69   -0.3
                  ePg    41 34.57
                  eS     42 41.14
LBFM     4.46 329 (P)    41 30.38   -0.5
MSU      5.39  78 (P)    41 43.44   -0.7
DUG      5.43  59 (Pn)   41 45.01    0.4
       0.8s     4.74nm          4.2mb X
                  ePg    42 03.46
       78 obs. associated
-----------------------------------------
*  OCT  18, 1993  07h 24m 06.49± [illegible]
   3.801 S ±10.6km  152.605 E ±[illegible]
   DEPTH =  33.0km  (normal)
   5.0mb (  6 obs.)
 NEW IRELAND REGION, P.N.G.        (190
```

```
RAB      0.59 229 iPd-   24 19.50    [illegible]
MDG      6.95 258 eP     25 54.10    [illegible]
PMG      7.76 224 eP     26 01.00    [illegible]
HNR      9.19 128 eP     26 27.00    [illegible]
GUMO    18.91 336 eP     28 21.10    [illegible]
QIS     20.92 216 eP     28 49.00    [illegible]
DZM     22.58 145 iPc    29 05.00    [illegible]
ARMA    26.49 182 eP     29 43.[illegible]
       0.8s     23.00nm          [illegible]
STK     29.79 199 eP     30 11.[illegible]
CAN     31.54 186 eP     30 28.[illegible]
                  i      30 31.[illegible]
MBL     36.22 239 eP     31 07.[illegible]
       0.5s      5.00nm          [illegible]
BJI     54.96 326 eP     33 36.[illegible]
       2.0s     32.00nm          [illegible]
LZH     60.38 316 eP     34 15.[illegible]
       1.2s     28.00nm          [illegible]
                  pP     34 26.[illegible]
CSY     68.92 197 iPd    35 [illegible]
       0.5s      6.10nm          [illegible]
SPA     86.22 180 iPd    36 41.[illegible]
       0.7s     13.28nm          [illegible]
COE     88.87  53 eP     37 02.[illegible]
ORV     89.23  50 eP     37 10.54    [illegible]
BCH     89.97  55 eP     37 05.[illegible]
ABL     90.65  55 eP     37 09.36    [illegible]
CNCB   134.98 118 PKP    43 25.[illegible]
LPB    134.99 118 PKP    43 26.[illegible]
LPAZ   135.05 117 PKP    43 26.[illegible]
```

```
RSTA   144.75 144 ePKP   43 40.50   -1.9
PPD    145.26 139 ePKP   43 41.70   -1.7
     S.D. = 1.2  on  17 of  24 obs.
-----------------------------------------
&  OCT  18, 1993  07h 36m 21.62s
   37.542 N          118.883 W
   DEPTH =   5.4km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      <GM-P>. MD 2.8 (GM).

MEMM     0.13 340 iPd    36 24.73    0.4
MMPM     0.13 301 iPc    36 24.52   -0.1
MTUM     0.32 126 eP     36 28.01    0.0
                  eS     36 32.50
MRCM     0.33  66 iPc    36 28.30    0.0
BONR     0.62  48 iPc    36 33.70   -0.3
                  eS     36 44.99
CMB      1.29 293 eP     36 45.31   -0.6
                  eS     37 01.71
TNP      1.42  67 iPc    36 48.69    0.3
ISA      1.90 170 eP     36 56.34    1.3
                  eS     37 21.27
ARN      2.12 266 eP     36 59.83    1.7
                  eS     37 27.11
TPNV     2.18 105 eP     36 59.06   -0.2
       10 obs. associated
-----------------------------------------
&  OCT  18, 1993  07h 37m 26.25s
   37.539 N          118.885 W
   DEPTH =   4.4km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      <GM-P>. MD 3.3 (GM). ML 3.2
      (BRK).

CLKR     0.07  43 P      37 27.98   -0.1
MEMM     0.13 341 iPd    37 29.31    0.3
MMPM     0.13 302 ePc    37 29.24    0.1
CASR     0.27  82 P      37 31.85    0.2
MTUM     0.32 126 iPd    37 32.48   -0.2
MRCM     0.33  66 ePc    37 32.79   -0.1
BHPR     0.40 127 P      37 34.22    0.0
CWCR     0.46  95 P      37 35.47   -0.1
BONR     0.62  48 ePc    37 38.11   -0.6
CMB      1.29 293 eP     37 49.84   -0.8
                  eS     38 06.61
MOYM     1.38 286 P      37 52.13   -0.1
TNP      1.43  67 iPc    37 53.17    0.0
MRFM     1.47 299 P      37 53.14   -0.5
MNHM     1.64 292 P      37 56.08    0.1
BAVM     1.71 274 P      38 01.39    4.5
PARM     1.74 223 P      37 59.56    2.2
BMSM     1.76 241 P      37 59.49    1.7
ISA      1.90 170 eP     38 00.99    1.2
                  eS     38 24.84
HVC      1.94 234 P      38 02.25    2.0
TOW      1.95 152 P      38 03.03    2.6
CCSM     1.98 270 P      38 01.85    0.9
EKH      2.03 245 P      38 03.44    1.9
LTP      2.04 252 P      38 03.00    1.3
HJSM     2.06 250 P      38 03.36    1.4
BHRM     2.07 248 P      38 04.05    2.0
CSTL     2.08 274 P      38 03.92    1.7
ARN      2.12 266 eP     38 03.12    0.3
                  eS     38 28.35
HSPM     2.14 259 P      38 05.17    1.9
[illegible]PM    2.15 171 P      38 05.71    2.3
TPNV     2.18 105 eP     38 03.54   -0.4
[illegible]      2.19 250 eP     38 06.01    2.2
                  eS     38 32.90
[illegible]      2.20 266 eP     38 05.49    1.3
                  eS     38 33.61
[illegible]      2.21 149 P      38 08.18    3.9
[illegible]      2.24 264 eP     38 05.69    1.1
[illegible]      2.28 273 P      38 09.06    3.8
[illegible]      2.54 203 eP     38 09.35    0.3
[illegible]      2.56 188 P      38 12.18    3.0
[illegible]      2.70 186 eP     38 10.57   -0.8
[illegible]      2.87 315 (P)    38 12.38   -1.3
       39 obs. associated
-----------------------------------------
*  OCT  18, 1993  07h 45m 47.26s
   [illegible]539 N          118.882 W
   DEPTH =   5.6km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      <GM-P>. MD 3.0 (GM).

CLKR     0.07  42 P      45 49.00   -0.3
```

```
MCSM     0.12 351 P      45 50.13    0.2
MEMM     0.13 340 iPd    45 50.43    0.4
MMPM     0.14 301 iPc    45 50.16   -0.2
MTUM     0.31 126 iPc    45 53.50   -0.2
MRCM     0.33  66 iPc    45 53.87    0.0
BHPR     0.39 127 P      45 55.11   -0.1
BCKR     0.43  69 P      45 56.04    0.0
BONR     0.62  48 iPc    45 59.42   -0.3
CMB      1.29 293 iPc    46 10.82   -0.8
                  eS     46 27.31
TNP      1.43  67 iPc    46 14.18    0.2
ISA      1.90 170 eP     46 21.94    1.3
                  eS     46 46.64
ARN      2.12 266 eP     46 25.67    1.9
                  eS     46 53.64
TPNV     2.18 105 eP     46 25.79    1.0
COE      2.24 264 eP     46 27.27    1.8
BCH      2.54 203 eP     46 30.60    0.7
ABL      2.70 186 eP     46 33.18    1.0
       17 obs. associated
-----------------------------------------
*  OCT  18, 1993  07h 50m 36.35± 1.84s
   13.952 N ±21.1km   92.668 W ±10.4km
   DEPTH =  33.0km  (normal)
 OFF COAST OF CHIAPAS, MEXICO      ( 68)
      MD 4.1 (GCG).

TPX      1.03  23 iP     50 53.00   -1.4
                  (S)    51 05.00
BVA      2.09  70 ePc    51 10.14    0.1
                  eS     51 38.88
IXG      2.16  84 eP     51 10.44   -0.4
                  eS     51 41.69
SCX      2.77   1 iP     51 21.00    1.7
                  iS     51 51.00
YUP      2.79  85 eP     51 20.59    0.7
OXX      5.00 309 iP     51 56.00    4.8X
                  iS     52 53.00
PPM      7.65 312 (P)    52 29.00    0.2
LTX     18.39 328 eP     54 50.20   -0.4
ALQ     24.33 332 (P)    55 52.00   -0.4
       1.0s      1.25nm          3.4mb
     S.D. = 1.1  on   8 of   9 obs.
-----------------------------------------
?  OCT  18, 1993  07h 51m 12.17± 1.04s
   36.193 N ±11.7km  114.557 E ±10.2km
   DEPTH =  33.0km  (normal)
 SOUTHEASTERN CHINA                (664)
      ML 3.9 (BJI).

TIA      2.08  89 Pn     51 44.80   -0.6
                  Pg     51 47.40
                  Sg     52 13.50
TIY      2.28 312 iPnd   51 50.00    1.7
                  Pg     51 55.30
                  Sg     52 23.30
BJI      4.05  18 ePg    52 20.50    7.2X
                  Sg     53 16.00
XAN      5.09 247 Pn     52 27.00   -1.3
                  Pg     52 45.00
                  Sn     53 26.00
                  Sg     53 52.00
WHN      5.64 182 ePn    52 36.50    0.7
                  Pg     52 55.50
                  Sg     54 05.50
BTO      5.66 322 ePg    52 54.80   18.5X
                  Sg     54 08.80
LZH      8.67 272 eP     53 52.00   33.6X
       1.4s     41.00nm
GYA     11.81 217 P      54 02.20    0.7
GTA     12.10 290 eP     54 04.00   -1.2
     Z  10s      0.58um
     S.D. = 1.6  on   6 of   9 obs.
-----------------------------------------
?  OCT  18, 1993  07h 52m 14.80± 1.49s
   39.140 N ± 8.1km   27.699 E ±17.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.7 (ISK).

IZM      0.82 205 ePg    52 30.70    0.1
                  eSg    52 44.20
BNT      1.23   8 ePn    52 37.20   -0.4
EZN      1.26 303 ePn    52 38.00   -0.3
KGT      1.34 347 iPn    52 40.20    0.7
     S.D. = 0.8  on   4 of   4 obs.
-----------------------------------------
```

18d 07h

```
%  OCT  18, 1993  07h 55m 06.76± 0.91s
   39.602 N ± 9.3km   29.471 E ± 9.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                                (366)
      ML 2.6 (ISK).

DST      0.65 271 ePg   55 19.00   -0.8
IZI      0.73   0 ePg   55 20.20   -1.0
                  eSg   55 31.20
ALT      0.74 138 ePg   55 21.40    0.1
                  eSg   55 33.40
BNT      1.41 303 ePn   55 33.00    0.5
EDC      1.44 302 ePn   55 33.00    0.1
CTT      1.74 333 ePn   55 38.20    1.1
     S.D. = 1.0  on   6 of   6 obs.
-----------------------------------
*  OCT  18, 1993  08h 12m 30.94± 0.78s
   42.000 N ± 7.0km   20.261 E ± 6.4km
   DEPTH =  10.0km  (geophysicist)
 NORTHWESTERN BALKAN REGION        (383)

BCI      0.39 339 ePg   12 39.10    0.1
LACI     0.55 229 ePg   12 42.50    0.5
SDA      0.57 275 iPgd  12 42.10   -0.4
                  iSg   12 50.00
TIR      0.72 205 ePg   12 51.00    6.0X
SKO      0.88  91 ePg   12 48.00    0.2
                  iSg   13 02.00
OHR      0.98 155 iPg   12 49.20   -0.3
                  iSg   13 03.80
     S.D. = 0.5  on   5 of   6 obs.
-----------------------------------
?  OCT  18, 1993  08h 13m 09.39± 3.47s
    6.042 S ±16.0km  146.042 E ±88.4km
   DEPTH =  33.0km  (normal)
 EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY     0.21 200 iPd   13 14.00   -2.3
MDG      0.83 342 iPc   13 23.40   -1.2
MNDI     2.37 267 eP    13 52.50    5.4X
WWKK     3.40 315 eP    14 07.50    6.0X
STK     26.04 189 eP    18 42.70    1.2
GUN     67.09 304 P     24 03.30    0.7
         0.7s    36.00nm          5.6mb
PKI     67.37 303 P     24 04.00   -0.3
         0.4s     9.00nm          5.2mb
KKN     67.55 303 P     24 05.80    0.5
         0.8s    44.00nm          5.6mb
DMN     67.63 303 P     24 06.50    0.6
         0.8s    42.00nm          5.6mb
GKN     68.16 303 P     24 09.60    0.5
         0.6s    23.00nm          5.4mb
KIC    150.95 272 PKP   33 02.36    6.9X
         0.7s    11.00nm
TIC    151.23 273 PKP   33 02.52    6.6X
         0.5s     3.00nm
LIC    151.24 272 PKP   33 02.58    6.7X
         0.5s     3.50nm
LKO    151.69 279 PKP   33 03.14    6.6X
         0.9s    14.00nm
     S.D. = 1.4  on   8 of  14 obs.
-----------------------------------
?  OCT  18, 1993  08h 14m 24.20± 0.98s
   39.102 N ± 8.9km   27.701 E ±14.1km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                                (366)
      ML 2.6 (ISK).

IZM      0.78 206 ePg   14 39.50    0.0
                  eSg   14 52.70
DST      0.88  55 ePn   14 41.00   -0.1
BNT      1.26   8 ePn   14 48.00    0.3
KGT      1.38 347 iPn   14 49.20   -0.3
     S.D. = 0.4  on   4 of   4 obs.
-----------------------------------
%  OCT  18, 1993  08h 18m 50.13± 0.69s
   31.469 S ± 8.4km   67.780 W ± 5.1km
   DEPTH =  23.1 ± 10.5 km
 SAN JUAN PROVINCE, ARGENTINA      (137)

CFA      0.42 251 iPc   18 59.00    0.1
                  S     19 05.00
RTLL     0.61 283 ePd   19 02.00    0.0
                  S     19 13.50
RTCV     0.76 239 iPd   19 04.50   -0.1
ZON      0.77 264 eP    19 04.50   -0.3
                  eS    19 15.50
RTCB     0.87 269 iPd   19 07.00    0.4
                  S     19 18.50
RTPR     1.59  43 iPc   19 17.00   -0.1
                  S     19 36.00
MRA      2.00 119 iPd   19 23.20    0.2
                  S     19 48.40
RFA      3.34 190 ePc   19 42.00   -0.2
                  S     20 34.50
     S.D. = 0.3  on   8 of   8 obs.
-----------------------------------
?  OCT  18, 1993  08h 33m 14.13± 4.26s
   39.593 N ±32.9km   29.535 E ±25.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                                (366)
      ML 2.6 (ISK).

DST      0.70 271 ePg   33 28.00    0.0
                  eSg   33 39.00
IZI      0.74 356 ePg   33 29.20    0.4
                  eSg   33 39.20
EYL      1.08  26 ePn   33 34.70    0.1
HRT      1.23   5 ePn   33 36.50   -0.6
     S.D. = 0.7  on   4 of   4 obs.
-----------------------------------
?  OCT  18, 1993  08h 35m 15.45± 0.97s
   39.167 N ± 7.0km   27.178 E ±13.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                                (366)
      ML 2.9 (ISK).

IZM      0.77 175 ePg   35 30.50    0.0
                  eSg   35 43.50
EZN      0.93 315 iPn   35 33.30    0.1
KGT      1.29   4 ePn   35 39.00   -0.3
BNT      1.32  25 ePn   35 40.00    0.2
     S.D. = 0.4  on   4 of   4 obs.
-----------------------------------
&  OCT  18, 1993  08h 58m 25.61s
   61.333 N          150.214 W
   DEPTH =  35.1km
 SOUTHERN ALASKA                       (  2)
      <AEIC>. ML 2.5 (AEIC).

PMS      0.33 105 P     58 33.70   -0.2
                  S     58 41.20
PWA      0.36  27 P     58 33.70   -0.5
                  S     58 41.60
PLRM     0.58  63 iP    58 36.29   -1.0
                  eS    58 45.44
PMR      0.58  63 ePc   58 35.98   -1.3
                  eS    58 44.71
GHO      0.76  54 iP    58 38.96   -1.0
                  eS    58 50.30
NKA      0.77 221 eP    58 40.98    0.9
SLKM     0.83 180 iP    58 39.61   -1.3
KNK      0.85  84 iP    58 40.36   -0.9
CGLM     0.87 269 iP    58 40.73   -0.8
SPU      0.90 261 eP    58 40.83   -1.1
                  eS    58 53.52
SKT      0.90 317 eP    58 41.17   -0.8
                  eS    58 53.64
NCG      0.94 275 iP    58 41.70   -0.8
CRP      0.94 267 ePc   58 41.18   -1.4
                  eS    58 53.65
MPA      0.94 153 iP    58 41.54   -0.9
CKN      0.96 264 iP    58 42.10   -0.6
CKT      0.97 263 iP    58 41.99   -1.0
                  eS    58 55.07
SML      1.02  61 eP    58 42.47   -1.2
BKG      1.03 256 iP    58 42.64   -1.1
PWL      1.03 117 iP    58 42.98   -0.8
CKL      1.04 263 iP    58 42.87   -1.1
BGL      1.05 267 iP    58 43.15   -1.0
CUT      1.08 359 iP    58 43.60   -0.8
CFI      1.19  96 iP    58 45.27   -0.8
SEW      1.29 163 eP    58 46.36   -1.2
DFR      1.42 239 iP    58 48.26   -1.2
SCM      1.47  69 iP    58 49.07   -1.2
REF      1.48 236 eP    58 49.21   -1.3
RSO      1.52 236 eP    58 50.20   -0.8
RS2      1.52 236 eP    58 50.53   -0.5
RDW      1.53 237 eP    58 50.42   -0.8
NCT      1.53 241 eP    58 50.09   -1.1
RED      1.55 235 eP    58 50.54   -0.9
LTI      1.74 137 eP    58 51.29   -2.7
VZW      1.79  97 eP    58 53.25   -1.5
ILIM     1.84 228 eP    58 54.48   -1.0
MTU      1.85 136 eP    58 54.70   -0.8
CNPM     1.88 196 eP    58 54.50   -1.5
VLZ      1.89  94 eP    58 55.01   -1.0
INE      1.90 229 eP    58 54.32   -2.0
FID      1.91 106 eP    58 54.45   -2.0
HIN      2.04 116 eP    58 56.38   -2.0
KLU      2.07  84 eP    58 56.90   -1.9
TOA      2.07  66 eP    58 58.08   -0.8
TRF      2.13 359 eP    58 59.59   -0.1
RND      2.18  16 eP    59 00.17   -0.1
KTH      2.25 352 eP    59 00.98   -0.4
CVA      2.32 108 eP    59 01.68   -0.5
TZL      2.39  71 eP    59 02.32   -0.9
SGAM     2.58 107 eP    59 04.63   -1.3
SVW      2.63 267 eP    59 03.85   -2.8
BALM     3.82  91 eP    59 20.71   -3.0
       51 obs. associated
-----------------------------------
?  OCT  18, 1993  09h 07m 14.86± 1.12s
   39.117 N ±10.0km   27.573 E ±33.5km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                                (366)
      ML 2.7 (ISK).

IZM      0.76 199 ePg   07 29.70    0.0
                  eSg   07 43.20
BNT      1.27  12 ePn   07 38.20   -0.2
KGT      1.35 351 iPn   07 39.70    0.0
CTT      2.13  18 ePg   07 51.10    0.1
     S.D. = 0.2  on   4 of   4 obs.
-----------------------------------
%  OCT  18, 1993  09h 20m 44.25± 0.81s
   39.146 N ± 6.2km   27.569 E ± 8.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                                (366)
      ML 2.8 (ISK).

IZM      0.78 198 ePg   20 59.70    0.1
                  eSg   21 11.70
DST      0.94  60 ePn   21 01.90   -0.3
EZN      1.18 306 ePn   21 05.90   -0.3
EDC      1.22  11 ePn   21 07.00    0.1
BNT      1.24  13 ePn   21 07.60    0.3
KGT      1.32 351 iPn   21 08.70    0.1
     S.D. = 0.3  on   6 of   6 obs.
-----------------------------------
&  OCT  18, 1993  09h 27m 47.97s
   54.371 N          147.096 W
   DEPTH =  10.0km  (geophysicist)
 SOUTH OF ALASKA                       ( 17)
      <AEIC>. ML 3.1 (AEIC).

MTU      5.64 357 eP    29 09.19   -4.7
CNPM     5.64 338 eP    29 10.04   -3.9
LTI      5.70 356 eP    29 10.41   -4.3
CDD      5.82 324 eP    29 13.01   -3.4
HIN      6.05   3 eP    29 16.42   -3.2
AUW      6.11 328 eP    29 18.40   -2.0
RAGM     6.17  11 eP    29 17.17   -4.2
HMT      6.17  13 eP    29 17.37   -4.0
SGAM     6.23   9 eP    29 18.75   -3.4
CVA      6.24   6 eP    29 18.15   -4.0
MPA      6.26 350 eP    29 18.50   -4.0
SLKM     6.38 346 eP    29 20.34   -4.0
                  eS    30 32.00
FID      6.41   3 eP    29 20.56   -4.1
WAX      6.51  19 eP    29 21.75   -4.5
PWL      6.54 355 eP    29 22.30   -4.3
YAH      6.67  24 eP    29 23.51   -5.0
CRQM     6.75  17 eP    29 25.06   -4.6
PNL      6.77  35 eP    29 23.12   -6.7
VLZ      6.79   3 eP    29 26.93   -3.1
HQN      6.79  38 eP    29 22.85   -7.2
TGL      6.80  18 eP    29 25.60   -4.7
PCA      6.83  30 eP    29 24.81   -5.9
CFI      6.84 357 P     29 23.50   -7.2
BCPM     6.91  33 eP    29 25.45   -6.3
BALM     7.15  19 eP    29 30.14   -5.0
KLU      7.17   5 eP    29 31.49   -3.9
                  eS    30 50.80
CTGM     7.30  23 eP    29 32.11   -5.1
GLB      7.30  13 eP    29 32.87   -4.4
CGLM     7.43 341 eP    29 35.69   -3.4
BGL      7.46 340 eP    29 35.55   -4.0
SCM      7.49 359 eP    29 36.93   -2.9
SML      7.49 355 eP    29 35.85   -4.0
       32 obs. associated
```

```
-------------------------------------
% OCT 18, 1993  09h 41m 42.17± 0.82s
  39.281 N ± 6.4km   27.773 E ± 7.7km
  DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
     ML 2.7 (ISK).

DST     0.74  64 ePg   41 56.90   0.2
                 eSg   42 08.90
IZM     0.97 204 ePg   42 00.50  -0.1
                 eSg   42 15.20
EDC     1.07   4 ePn   42 02.00  -0.2
BNT     1.08   6 ePn   42 02.20  -0.3
KGT     1.22 343 iPn   42 05.20   0.3
EZN     1.24 296 ePn   42 05.40   0.1
     S.D. = 0.3  on   6 of   6 obs.
-------------------------------------
   OCT 18, 1993  09h 49m 43.25± 0.65s
   18.656 N ± 8.2km   64.452 W ± 5.5km
   DEPTH =  30.3 ±  4.5 km
   4.3mb (  3 obs.)
 VIRGIN ISLANDS                   ( 91)
     MD 4.1 (MPR). Felt on Tortola,
     British Virgin Islands and St.
     Thomas, U.S. Virgin Islands.

LPR     1.39 256 P     50 06.70  -0.1
CPD     1.52 246 P     50 08.80   0.2
CSB     1.66 258 iPd   50 10.50  -0.2
                 eS    50 32.22
SJG     1.70 252 iP    50 11.70   0.4
CLLP    2.10 254 P     50 17.10   0.1
PORP    2.16 254 P     50 17.90   0.0
PNP     2.20 255 iPd   50 18.88   0.4
                 eS    50 46.09
LRS     2.30 261 iPc   50 19.62  -0.3
                 eS    50 45.89
MEP     2.45 258 P     50 22.60   0.5
MCP     2.53 265 P     50 22.70  -0.5
MGP     2.59 256 P     50 24.10   0.2
ANG     2.91 120 eP    50 28.21  -0.3
                 eS    51 02.55
BPA     2.94 123 eP    50 29.18   0.1
                 eS    51 01.69
SEG     3.60 128 eP    50 30.10  -8.2X
PAG     3.72 134 ePd   50 40.70   0.6
DEG     3.99 125 eP    50 43.20  -0.7
MGG     4.05 132 eP    50 46.20   1.5
FDF     5.02 140 eP    50 57.66  -0.9
SLB     5.81 145 eP    51 11.00   1.2
                 eS    52 10.00
TRN     8.49 159 eP    51 46.34  -0.8
MORO    8.59 206 eP    51 54.80   6.1X
                 iS    53 17.90
OLLA    8.88 195 eP    51 50.80  -1.9
                 iS    53 23.10
TOV    10.22 211 eP    52 18.50   7.4X
SDV    11.41 213 eP    52 30.50   3.0
CEH    21.50 326 ePn   54 33.59   2.0
       0.7s     7.57nm          4.2mb
                 e     54 43.76
                 eSg   58 25.78
MYNC   23.92 317 eP    54 55.60   0.1
       0.8s     7.80nm          4.3mb
                 e     55 16.72
ELC    28.55 316 eP    55 35.50  -3.0
FVM    29.73 316 (P)   55 50.05   0.9
       0.6s     3.66nm          4.3mb
LPAZ   34.91 186 (P)   56 35.00  -0.2
LPAZ   34.91 186 P     56 28.50  -6.7X
LPB    35.15 186 eP    56 29.00  -8.0X
CNCB   35.42 186 P     56 38.20  -1.2
LTX    37.21 294 eP    56 53.94   0.0
     S.D. = 1.2  on  28 of  33 obs.
-------------------------------------
% OCT 18, 1993  10h 13m 21.53± 0.95s
  39.084 N ± 7.9km   27.522 E ±14.9km
  DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
     ML 2.6 (ISK).

IZM     0.72 197 ePg   13 35.50  -0.1
                 eSg   13 47.00
DST     1.00  58 ePn   13 40.90   0.3
EDC     1.29  12 ePn   13 45.00  -0.4
BNT     1.31  13 ePn   13 45.00  -0.7
KGT     1.38 353 iPn   13 47.60   0.9
     S.D. = 0.9  on   5 of   5 obs.
-------------------------------------
? OCT 18, 1993  10h 25m 50.50± 0.95s
  39.076 N ± 8.2km   27.568 E ± 9.7km
  DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
     ML 2.6 (ISK).

IZM     0.72 200 ePg   26 04.70   0.0
                 eSg   26 16.50
DST     0.98  57 ePn   26 09.00  -0.1
EZN     1.22 308 ePn   26 13.00  -0.2
KGT     1.39 352 ePn   26 16.10   0.2
     S.D. = 0.3  on   4 of   4 obs.
-------------------------------------
& OCT 18, 1993  10h 28m 32.38s
  63.124 N          150.884 W
  DEPTH = 130.9km
 CENTRAL ALASKA                   (  1)
     <AEIC>.

TRF     0.42  39 iP    28 51.15  -0.5
                 eS    29 06.20
KTH     0.43 358 iP    28 51.14  -0.4
                 eS    29 05.19
HUR     0.59 104 eP    28 51.76  -0.6
                 eS    29 07.19
CUT     0.78 158 iP    28 53.23  -0.4
RND     0.96  72 eP    28 54.58  -0.8
MCK     1.07  54 eP    28 55.67  -0.7
SKT     1.19 195 eP    28 56.97  -0.5
                 eS    29 16.04
BWN     1.23  30 eP    28 57.67  -0.2
PWA     1.55 162 P     29 00.80  -0.6
DHY     1.60  90 eP    29 01.49  -0.7
                 eS    29 24.67
GHO     1.63 145 eP    29 01.81  -0.7
                 eS    29 25.24
PLRM    1.74 151 eP    29 02.46  -1.2
                 eS    29 26.20
PMR     1.74 151 eP    29 01.38  -2.3
SML     1.77 137 eP    29 02.96  -1.2
NCG     1.83 200 eP    29 03.77  -1.1
WRH     1.84  41 eP    29 03.81  -1.0
CGLM    1.90 197 eP    29 05.03  -0.6
CRP     1.96 198 eP    29 04.04  -2.4
PMS     1.99 161 P     29 05.60  -1.1
BGL     2.00 201 eP    29 06.36  -0.5
CKN     2.00 198 eP    29 06.56  -0.3
SPU     2.03 196 eP    29 05.95  -1.3
CKT     2.03 198 eP    29 06.23  -1.0
CCB     2.05  40 eP    29 06.15  -1.2
CKL     2.05 200 eP    29 06.84  -0.7
KNK     2.06 145 eP    29 06.24  -1.3
SCM     2.10 127 eP    29 06.72  -1.4
BKG     2.16 198 eP    29 07.73  -1.2
HDA     2.17  52 eP    29 08.33  -0.6
MDM     2.18  31 eP    29 07.86  -1.3
FBA     2.24  36 eP    29 09.58  -0.3
TOA     2.41 113 P     29 13.60   1.6
GLM     2.42  38 eP    29 11.04  -1.1
CFI     2.44 142 eP    29 11.18  -1.1
PAX     2.47  91 eP    29 12.39  -0.5
PWL     2.57 151 eP    29 12.47  -1.6
SLKM    2.64 173 eP    29 13.67  -1.4
DFR     2.68 199 P     29 12.10  -3.5
MPA     2.74 164 eP    29 14.81  -1.4
NCT     2.75 202 eP    29 16.15  -0.3
KLU     2.84 123 eP    29 15.31  -2.3
SVW     3.01 230 eP    29 17.81  -2.0
SEW     3.11 167 eP    29 19.45  -1.6
FID     3.16 137 eP    29 20.15  -1.6
LTI     3.42 154 eP    29 22.81  -2.3
MTU     3.51 152 eP    29 24.18  -2.2
CNPM    3.62 183 eP    29 26.29  -1.5
       47 obs. associated
-------------------------------------
% OCT 18, 1993  10h 29m 32.55± 0.82s
  39.114 N ± 6.7km   27.416 E ± 7.9km
  DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
     ML 2.6 (ISK).

IZM     0.73 190 ePg   29 46.70  -0.1
                 eSg   29 59.20
DST     1.06  62 ePn   29 51.90  -0.7
EZN     1.10 310 ePn   29 53.00  -0.2
BNT     1.30  17 ePn   29 56.10  -0.5
KGT     1.34 356 ePn   29 58.10   0.9
ALT     2.10  91 ePg   30 09.00   0.7
     S.D. = 0.8  on   6 of   6 obs.
-------------------------------------
? OCT 18, 1993  10h 33m 50.89± 1.01s
  39.112 N ± 7.9km   27.520 E ±14.4km
  DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
     ML 2.7 (ISK).

IZM     0.74 196 ePg   34 05.40   0.0
                 eSg   34 18.20
DST     0.99  60 ePn   34 09.90   0.2
BNT     1.28  14 ePn   34 14.10  -0.5
KGT     1.35 353 iPn   34 16.10   0.4
     S.D. = 0.7  on   4 of   4 obs.
-------------------------------------
* OCT 18, 1993  11h 32m 12.24± 1.48s
  10.320 N ±12.5km  125.388 E ±20.2km
  DEPTH =  33.0km  (normal)
 LEYTE, PHILIPPINE ISLANDS        (256)

PLP     0.93 334 ePc   32 29.50   0.5
                 iS    32 42.00
MAP     1.39 270 iPd   32 34.00  -1.4
                 iS    32 57.00
BIP     2.25 158 ePd   32 46.00  -1.9
                 eS    33 11.00
DAV     3.22 177 eP    33 03.00   1.4
CTB     3.31 201 eP    33 04.00   1.0
GQP     4.58 321 ePc   33 32.00  11.0X
QCP     6.01 316 eP    33 58.00  16.7X
BAG     7.65 323 eP    34 08.00   3.6X
HYB    45.92 284 eP    40 34.50   0.5
     S.D. = 1.7  on   6 of   9 obs.
-------------------------------------
% OCT 18, 1993  12h 00m 39.67± 0.57s
  44.387 N ± 5.3km    7.292 E ± 5.9km
  DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                   (545)
     ML 2.2 (GEN).

STV     0.14 171 P     00 43.28   0.2
                 S     00 45.47
PZZ     0.18 311 P     00 44.15   0.3
                 S     00 46.89
ENR     0.18 150 P     00 43.97   0.1
ROB     0.43 102 P     00 48.81   0.4
                 S     00 54.81
BHB     0.46 357 P     00 48.40  -0.5
                 S     00 54.31
IMI     0.64 138 P     00 51.88  -0.7
                 S     01 00.30
RRL     0.64 326 P     00 52.80   0.0
                 S     01 01.54
FIN     0.68 105 P     00 52.89  -0.3
                 S     01 02.27
PCP     0.91  80 P     00 57.65   0.5
                 S     01 08.93
     S.D. = 0.5  on   9 of   9 obs.
-------------------------------------
   OCT 18, 1993  12h 41m 36.84± 0.32s
   38.633 N ± 6.0km   70.020 E ± 4.3km
   DEPTH =  33.0km  (normal)
   4.9mb ( 21 obs.)
 AFGHANISTAN-TAJIKISTAN BORD REG.(717)
     ML 4.8 (BJI).

KSH     4.71  78 Pn    42 49.00   1.4
                 Sn    43 43.60
                 Sg    44 04.50
FRU     5.46  38 iPn   43 00.00   2.0
                 i     43 16.80
TLG     7.24  48 eP    43 22.00  -1.1
                 i     44 46.00
MAIO    8.69 258 eP    43 38.00  -5.3X
       0.8s    10.07nm          5.0mb
                 eS    45 10.00
ASH     9.20 269 eP    43 46.50  -3.8X
                 e     45 26.00
NDI    11.59 147 eP    44 21.50  -1.5
                 eS    46 33.50
WMQ    14.27  63 P     44 56.00  -2.6
     Z  14s     1.04um
                 pP    45 04.50
                 PP    45 06.00
```

18d 12h

```
BAK    15.63 283 eP    45 10.00  -6.2X
GRO    18.94 292 iPc   45 56.50  -1.0
       1.5s   160.00nm         5.0mb
                eS     49 34.00
SVE    19.22 344 ePd   46 01.80   1.1
       2.9s    60.00nm         4.3mb
ARU    19.33 341 eP    46 01.00  -1.0
                eS     49 28.00
LSA    19.59 111 P     46 00.00  -5.6X
ERE    19.76 283 eP    46 06.00  -1.0
POO    20.30 169 eP    46 12.00  -0.7
PYA    20.91 294 eP    46 18.00  -0.8
       2.0s   220.00nm         5.2mb
     Z 16s     1.00um         4.3MszX
                i      46 44.00
HYB    22.42 158 eP    46 35.00   0.9
       0.8s    69.20nm         5.2mb
                eS     50 43.00
GTA    23.12  79 eP    46 41.00   0.1
       1.0s    32.00nm         4.8mb
     Z 14s     0.58um         4.2MszX
                sP     46 52.00
                PP     47 07.50
SOC    23.29 292 eP    46 44.00   1.6
GBA    25.78 163 P     47 07.00   0.6
                S      52 08.00
LZH    26.92  85 eP    47 17.50   0.5
       1.4s    28.00nm         4.7mb
     Z 15s     0.48um         4.2MszX
     E 10s     0.28um
OBN    27.81 317 eP    47 22.00  -2.7
                e      47 42.00
                e      48 06.00
CD2    28.65  95 eP    47 33.50   1.0
BTO    30.70  73 eP    47 50.50  -0.3
     N 10s     0.20um
     E 12s     0.32um
KMI    30.70 106 Pd    47 51.00  -0.1
       1.0s    40.00nm         5.2mb
XAN    31.51  86 P     47 57.50  -0.4
       0.9s    11.00nm         4.7mb
NRI    32.33  12 iPd   48 04.20  -0.4
       0.9s    15.00nm         4.9mb
VRI    32.53 297 eP    48 07.00   0.3
CIT    32.92  52 eP    48 09.60  -0.4
GYA    32.98 101 P     48 10.00  -0.9
MLR    33.10 296 ePc   48 13.00   1.2
TIY    33.14  78 eP    48 12.50   0.3
     Z 17s     0.72um         4.5MszX
     N 18s     0.84um
                S      53 23.50
BJI    35.42  73 eP    48 32.00   0.4
     Z 16s     0.29um         4.1MszX
KAF    35.42 326 eP    48 32.00   0.6
NUR    35.65 323 eP    48 33.00  -0.4
WHN    37.09  89 Pd    48 47.00   1.2
       1.0s    30.00nm         5.1mb
KSP    39.23 306 eP    49 06.20   1.6X
PRU    40.41 305 eP    49 14.20   0.9
                eSg    15 17.60
                e      15 19.40
HFS    40.92 321 eP    49 16.60  -0.7
       0.5s    10.90nm         4.9mb
     Z 15s     0.12um         3.9MszX
                LR     05 35.00
GEC2   41.09 303 eP    49 18.30  [illegible]
       0.8s     1.44nm         [illegible]
KHC    41.13 304 eP    49 20.5[illegible]
                e      49 25.5[illegible]
                e      50 45.0[illegible]
                e      15 06.[illegible]
                eSg    15 34.5[illegible]
CLL    41.27 307 eP    49 21.[illegible]
       1.8s    17.00nm         [illegible]
SSE    42.20  84 Pc    49 29.[illegible]
       0.8s    10.00nm         [illegible]
     Z 12s     0.50um         [illegible]
NB2    42.22 322 P     49 27.4[illegible]
       0.6s     3.40nm         [illegible]
GRF    42.58 305 eP    49 35.2[illegible]
TIK    44.10  23 iPc   49 44.0[illegible]
       0.8s    50.00nm         [illegible]
EKA    50.23 315 Pc    50 32.7[illegible]
       1.0s    15.80nm         [illegible]
MAT    52.92  70 eP    50 51.0[illegible]
INK    71.93   9 eP    52 58.5[illegible]
       1.0s     3.00nm         [illegible]
```

```
FBA    72.64  16 ePc   53 01.71  -0.8
       0.8s     5.53nm         4.6mb
PMR    75.19  18 (P)   53 17.20  -0.1
       1.2s    10.61nm         4.7mb
SLKM   75.85  19 (P)   53 19.88  -1.3
ASPA   86.10 124 eP    54 15.60  -0.1
       0.6s     6.80nm         5.1mb
LPB   137.32 289 ePKP  00 56.00  -3.6X
CNCB  137.41 289 PKP   01 01.10   1.1
     S.D. = 1.1  on  47 of  54 obs.
-----------------------------------
%  OCT  18, 1993  12h 48m 24.54± 2.89s
   39.391 N ±17.0km   23.601 E ±21.4km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                        (365)
     ML 3.0 (THE).

PAIG    0.54   6 ePg   48 35.62   0.2
                iSg    48 45.24
AGG     1.05 250 ePg   48 44.48   0.0
                iSg    49 01.42
LIT     1.11 310 ePb   48 45.48   0.1
                eSb    49 02.24
SOH     1.44 353 ePb   48 50.68   0.0
                eSb    49 12.32
GRG     1.81 330 ePb   48 56.04   0.0
                eSb    49 20.33
KNT     1.85 343 ePb   48 56.32  -0.2
                iSb    49 23.53
     S.D. = 0.2  on   6 of   6 obs.
-----------------------------------
?  OCT  18, 1993  12h 50m 49.08± 0.96s
   10.966 N ± 8.9km   61.444 W ±13.9km
   DEPTH =  33.0km  (normal)
 TRINIDAD                          ( 98)
     MD 2.5 (TRN).

TRN     0.32 173 iPd   50 57.06   0.0
                iS     51 02.97
TCE     0.40 229 eP    50 58.28   0.0
                eS     51 05.13
TBH     0.61 142 iP    51 01.19   0.0
GRW     1.21 350 eP    51 09.76   0.0
                eS     51 27.65
     S.D. = 0.0  on   4 of   4 obs.
-----------------------------------
%  OCT  18, 1993  12h 56m 09.76± 0.71s
   44.774 N ± 4.8km    7.223 E ± 9.5km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                    (545)
     ML 2.4 (GEN).

BHB     0.07  23 P     56 12.59   0.4
                S      56 14.05
PZZ     0.28 198 P     56 16.20   0.4
                S      56 20.28
RRL     0.34 295 P     56 16.89  -0.1
                S      56 20.83
RSP     0.38   4 P     56 17.85   0.3
                S      56 22.06
ENR     0.57 165 P     56 20.83  -0.5
LSD     0.69 356 P     56 22.93  -0.6
                S      56 31.31
     S.D. = 0.6  on   6 of   6 obs.
-----------------------------------
•  OCT  18, 1993  13h 57m 14.62± 0.34s
   22.133 N ± 7.0km   62.861 E ± 4.5km
   DEPTH =  10.0km  (geophysicist)
   5.2mb ( 54 obs.)  4.7Msz ( 18 obs.)
 ARABIAN SEA                       (417)

P[illegible]   10.91 107 iPc   59 57.80   3.8X
                iS     01 56.50
[illegible]    11.93 311 iPc   00 03.00  -4.9X
[illegible]    12.33 292 eP    00 08.00  -5.1X
N[illegible]   14.51  60 eP    00 41.00  -1.0
                eS     03 27.00
P[illegible]   15.14 283 eP    00 43.60  -6.7X
                eS     03 22.00
HYB    15.49 105 eP    00 51.50  -3.4X
       1.2s    85.70nm         4.9mb
                eS     04 01.00
ASH    16.24 347 eP    01 02.50  -1.8
GBA    16.25 119 P     01 02.90  -1.7
       1.1s     5.00nm         3.6mb X
[illegible]    18.08 286 eP    01 22.67  -4.9X
[illegible]    18.33 128 eP    01 31.00  -0.1
```

```
                eS     05 06.00
UQSK   19.08 285 eP    01 34.53  -5.5X
ABHA   19.27 262 eP    01 42.33  -0.2
KSH    20.58  30 P     01 56.00  -0.4
       1.0s    31.00nm         4.6mb
     Z 16s     4.17um         4.9MszX
     N 14s     6.42um
     E 14s     8.55um
                pP     02 04.00  30kmX
                sP     02 08.00
                PP     02 19.00
BAK    21.26 332 iPd   02 12.00   8.8X
     E 12s     3.84um
                iS     06 06.00
TAB    21.32 322 eP    02 04.00   0.0
FRU    22.85  23 eP    02 24.00   4.8X
       3.0s     1.00nm         2.8mb X
                eS     06 34.00
ERE    23.81 323 eP    02 30.00   1.5
     Z 20s     0.99um         4.3Msz
TLG    24.29  26 eP    02 33.00  -0.2
       2.1s   128.00nm         5.2mb
                e      03 09.00
                eS     06 58.00
                eSS    07 45.00
MTA    24.72 326 iP    02 38.80   1.6
GRO    25.52 330 eP    02 50.00   5.2X
       2.0s   240.00nm         5.5mb
                i      03 41.00
LSA    26.49  68 P     02 50.70  -3.8X
     Z 16s     1.89um         4.7MszX
     N 17s     2.29um
     E 17s     3.55um
AAE    26.56 244 eP    02 56.50   1.4
BHL    26.65 302 P     03 00.00   4.5X
                S      07 53.00
PYA    27.29 328 eP+   03 08.00   6.8X
SOC    28.73 324 iPd-  03 21.50   7.3X
       1.2s   100.00nm         5.5mb
CSS    28.80 303 eP    03 19.00   4.0X
WMQ    29.83  38 eP    03 25.00   0.8
     Z 13s     1.05um         4.7MszX
     N 16s     2.40um
     E 12s     1.43um
                pP     03 30.00  17kmX
                sP     03 33.00
ANN    30.90 323 eP    03 31.00  -2.4
KAS    31.08 315 eP    03 42.00   6.7X
CIN    33.64 305 eP    04 00.00   2.4X
CHTO   33.92  89 iPc   04 00.90   0.8
       1.1s    26.21nm         5.1mb
ARU    34.37 356 eP    04 10.00   6.4X
                e      05 32.00
NAI    34.46 231 eP    04 14.00   8.9X
     Z 20s     1.13um         4.6Msz
SVE    34.67 358 ePd   04 13.80   7.6X
       1.1s    40.00nm         5.2mb
     Z 14s     2.00um         5.0MszX
     N 13s     1.00um
     E 13s     0.50um
                e      05 25.00
                eS     09 40.00
                eSS    11 56.00
NST    35.78  94 eP    04 17.00   0.9
GTA    35.82  53 eP    04 16.50   0.1
       2.0s    27.00nm         4.8mb
     Z 18s     1.71um         4.9Msz
     N 16s     1.25um
ALN    36.20 310 eP    04 24.20   4.8X
CFR    36.50 317 ePd   04 28.50   6.7X
KMI    36.57  77 Pc    04 23.00   0.0
       2.0s    80.00nm         5.2mb
     Z 23s     2.10um         4.9MszX
     N 15s     0.90um
     E 15s     0.80um
KIS    36.95 320 eP    04 33.00   7.4X
RZN    37.41 310 eP    04 29.00  -0.8
CD2    37.45  68 eP    04 29.00  -1.1
     Z 14s     1.33um         4.9MszX
     N 17s     1.84um
ISR    37.50 316 ePd   04 39.50   9.2X
PVL    37.52 313 eP    04 30.00  -0.4
PAIG   37.61 307 eP    04 31.32   0.0
CLI    37.67 319 eP    04 40.50   8.8X
VRI    37.70 318 eP    04 40.00   8.0X
SRS    38.03 309 iP    04 34.76   0.0
MLR    38.03 317 ePd   04 38.00   3.1X
```

```
                e     21 05.00
                e     22 56.00
                e     32 39.00
MMB    38.07 310 eP    04 31.00  -4.2X
SOH    38.11 309 eP    04 43.12   7.6X
LZH    38.13  59 eP    04 35.00  -0.9
       1.6s    38.00nm         4.9mb
     Z 18s     1.32um          4.8Msz
     N 15s     1.04um
                pP     04 44.50  32kmX
OBN    38.33 336 iPd   04 37.00  -0.1
       1.3s    73.00nm         5.3mb
     Z 16s     1.10um          4.8MszX
     N 16s     0.60um
                i      04 47.00
                i      05 06.00
                (PP)   06 20.00
                (S)    10 32.00
AGG    38.39 305 eP    04 44.48   6.6X
MOS    38.44 337 iPc   04 43.00   5.0X
       2.0s   370.00nm         5.8mb
                e      06 10.00
MTUR   38.48 316 eP    04 47.00   8.3X
CMP    38.52 316 ePc   04 47.00   8.1X
KNT    38.54 309 eP    04 40.72   1.6
LIT    38.54 307 eP    04 45.76   6.6X
KKB    38.62 310 eP    04 38.00  -1.8
GRG    38.84 308 eP    04 40.48  -1.2
FNA    39.54 308 eP    04 45.96  -1.6
SKO    39.82 310 iP    04 47.50  -2.3
     Z 17s     1.14um          4.8MszX
                i      04 57.30
                LR     25 24.00
KBN    39.93 307 eP    04 49.50  -1.3
LSK    39.96 307 eP    04 51.50   0.5
OHR    40.05 308 iP    04 49.50  -2.2
SRN    40.34 306 eP    04 59.50   5.5X
TPE    40.43 307 eP    04 50.00  -4.7X
TIR    40.79 308 eP    04 59.90   2.2
TIR    40.79 308 eP    05 01.30   3.6X
IPM    40.85 110 ePc   04 59.00   0.5
VLO    40.85 307 eP    05 02.00   3.8X
BZS    40.88 315 eP    04 48.50  -9.8X
BCI    40.91 310 eP    05 05.00   6.3X
LACI   40.98 309 eP    05 03.20   4.0X
SDA    41.24 309 eP    04 59.90  -1.4
MNK    41.43 329 eP    05 06.00   3.3X
UZH    41.62 319 eP    05 06.80   2.4X
XAN    42.02  63 P     05 07.50  -0.4
       1.2s    21.00nm         4.7mb
     Z 20s     0.91um          4.7Msz
PSZ    42.81 318 ePc   05 20.90   6.6X
HVAR   43.69 310 eP    05 28.60   7.2X
BTO    43.71  54 eP    05 22.00   0.3
     N 16s     0.90um
     E 16s     0.49um
                ePP    07 10.00
                eS     11 50.00
IRK    43.73  36 eP    05 22.50   0.9
       1.4s    14.00nm         4.6mb
     Z 16s     1.27um          4.9MszX
     N 19s     0.72um
     E 16s     1.01um
OJC    43.76 321 eP    05 21.00  -0.9
       1.3s   197.00nm         5.8mb
                i      05 24.00
                i      05 29.00
                i      05 32.50
SRO    43.77 317 iP    05 24.20   2.2
                i      05 29.70
                e      07 22.00
ZST    44.67 317 e(P)  05 30.60   1.4
                i      05 36.40
                e      07 25.30
ZAG    44.68 313 eP    05 31.00   1.6
PTJ    44.72 314 eP    05 28.50  -1.4
SOP    44.85 316 eP    05 32.50   1.8
HHC    44.91  54 Pc    05 33.00   1.6
       1.2s    23.00nm         5.0mb
     Z 18s     1.45um          4.9Msz
     N 20s     2.82um
VBY    45.09 313 iP    05 31.80  -0.9
                i      05 41.00
TIY    45.17  58 eP    05 34.00   0.5
     Z 18s     2.18um          5.1Msz
     N 16s     1.80um
VRAC   45.35 318 eP    05 33.80  -0.9
       1.8s   245.70nm         5.9mb
                e      05 42.40
LJU    45.72 313 eP    05 39.50   1.8
       1.5s   280.00nm         6.0mb
                i      05 46.00
                e      07 10.00
                e      07 33.50
                e      12 28.00
                e      15 48.00
KSP    46.07 320 eP    05 39.50  -0.8
       1.4s    74.00nm         5.5mb
                e      05 42.80
                i      05 48.50
VOY    46.15 313 eP    05 40.20  -1.0
                ipP    05 48.30  27kmX
                e      06 05.90
                e      06 34.30
TRI    46.16 313 eP    05 48.30   7.2X
                e      27 40.00
WHN    46.57  68 eP    05 45.00   0.5
     N 16s     2.21um
NUR    46.69 335 eP    05 48.00   3.0X
KBA    46.78 314 i(P)  05 43.80  -2.4
                i      05 47.40
                i      05 53.80
                i      06 11.70
                i      06 50.00
PRU    46.84 319 Pd    05 53.50   7.1X
       2.0s    86.60nm         5.5mb
     Z 18s     0.40um          4.4Msz
                e      05 58.20
                e      07 46.10
GEC2   47.02 317 P     05 45.90  -2.1
       0.9s     4.01nm         4.5mb
                e      05 55.50
                e      05 58.50
GEC2   47.02 317 e(P)  05 57.10   9.1X
       0.8s     7.50nm         4.8mb
GEC2   47.02 317 e(P)  05 54.80   6.8X
       1.0s    25.10nm         5.3mb
GEC2   47.02 317 e(P)  05 49.10   1.1
       0.8s     5.00nm         4.7mb
KAF    47.09 338 eP    05 49.00   0.7
       1.0s    20.50nm         5.2mb
KHC    47.18 317 P     05 47.00  -2.2
       1.1s    69.00nm         5.7mb
     Z 18s     0.60um          4.6Msz
                i      05 50.60
                e      05 55.50
                e      06 04.50
                e      06 30.50
BHG    47.24 315 eP    05 47.20  -2.5
BRG    47.48 320 eP    05 52.60   1.1
       1.3s    44.00nm         5.4mb
     Z 22s     0.72um          4.6Msz
     N 22s     1.10um
     E 22s     1.00um
                i      05 59.20
WTTA   47.95 314 iPd   05 53.10  -2.4
       1.2s   113.00nm         5.8mb
                i      05 56.30
                i      06 02.30
WATA   48.01 314 iPc   05 53.70  -2.2
                i      05 56.60
                i      06 02.50
                i      06 11.10
CLL    48.18 320 iP    05 56.30  -0.7
       1.4s   180.00nm         6.0mb
SQTA   48.23 314 iP    05 57.60   0.0
       1.3s    91.90nm         5.7mb
                i      06 04.20
OGA    48.27 314 eP    05 58.70   0.7
BJI    48.30  56 eP    05 59.00   1.0
       1.4s    22.00nm         5.0mb
     Z 18s     1.18um          4.9Msz
     E 18s     1.94um
MOTA   48.32 314 iPc   05 55.00  -3.3X
       1.2s    82.00nm         5.7mb
                i      05 58.80
                i      06 04.60
                i      06 09.60
FUR    48.40 315 eP    06 05.10   6.4X
BSD    48.44 325 iPd   06 06.00   7.1X
       0.8s    34.00nm         5.5mb
GRF    48.81 317 iPc   06 03.80   1.9
       1.4s    57.00nm         5.4mb
     Z 21s     0.30um          4.3Msz
                ed     06 10.00
MOX    48.82 319 eP    06 03.80   1.9
     Z 19s     0.40um          4.4Msz
                eS     13 16.00
TIA    48.83  61 eP    06 02.00  -0.2
     N 18s     1.85um
CIT    48.91  39 eP    06 03.00   0.3
PGF    48.97 308 P     06 08.78   5.5X
UPP    49.24 332 eP    06 05.00   0.1
NRI    49.67  11 iPc   06 08.00  -0.2
       1.8s    22.00nm         4.8mb
     Z 16s     4.70um          5.6MszX
     E 16s     1.20um
                e      07 37.00
                e      08 00.00
SAOF   50.19 309 P     06 18.37   5.7X
AUTN   50.29 309 P     06 19.45   5.9X
NJ2    50.34  66 Pc    06 14.00   0.2
       1.0s    13.00nm         4.8mb
     Z 16s     0.53um          4.6MszX
AURF   50.35 309 P     06 18.91   5.1X
TOUF   50.42 309 P     06 20.02   5.5X
KRI    50.59 223 iP    06 11.00  -5.0X
                i      06 15.30
                i      06 20.20
                i      06 49.50
CALN   50.65 309 P     06 21.67   5.5X
TNS    50.68 318 ePd   06 18.30   2.1
                ed     06 24.20
BBS    50.74 314 P     06 22.04   5.3X
WLS    51.01 315 P     06 23.36   4.6X
MOF    51.06 314 P     06 24.68   5.5X
CDF    51.06 315 P     06 23.90   4.7X
ECH    51.10 315 P     06 24.55   5.1X
HFS    51.12 331 eP    06 17.00  -2.3
       0.4s     1.60nm         4.3mb
     Z 17s     0.38um          4.5MszX
                LR     30 22.00
LOMF   51.18 314 P     06 25.50   5.4X
VITF   51.88 315 P     06 29.49   4.2X
MUD    51.95 325 iPd   06 32.00   6.3X
       0.7s    28.00nm         5.3mb
WLF    52.02 316 P     06 34.00   7.7X
WTS    52.08 319 eP    06 29.00   2.3
       0.9s     9.40nm         4.7mb
                e      06 34.50
ENN    52.37 318 eP    06 31.00   2.1
       1.0s     9.00nm         4.7mb
                e      06 36.50
                e      07 13.00
SSE    52.40  67 P     06 29.50   0.1
       1.0s    11.00nm         4.7mb
     Z 20s     0.80um          4.8Msz
     E 12s     0.30um
                sP     06 42.50
                eS     13 54.00
NB2    52.61 331 P     06 27.40  -3.3X
       0.8s     4.70nm         4.5mb
DOU    53.08 317 P     06 42.20   7.9X
SNF    53.35 317 P     06 44.20   8.0X
ESEL   53.39 304 iPd   06 38.66   2.0
BUL    53.71 221 iPc   06 37.60  -1.7
                i      06 41.50
                i      06 46.90
                i      06 58.20
CN2    55.43  51 eP    06 51.00  -0.6
       1.0s    55.00nm         5.5mb
     Z 20s     0.62um          4.7Msz
     N 18s     1.23um
     E 18s     0.37um
                epP    06 58.00  23kmX
EGRA   55.84 307 eP    06 56.97   2.5X
BFT    57.21 216 eP    07 13.00   8.3X
EVIA   57.61 303 iPd   07 09.32   1.9
EHUE   57.74 302 eP    07 09.65   1.4
SLR    58.21 217 eP    07 12.00   0.4
       1.2s    30.00nm         5.2mb
     Z 20s     4.00um          5.5Msz
ECOG   58.56 301 iPd   07 15.27   1.2
EGUA   58.59 301 eP    07 13.02  -1.2
EBAN   58.65 302 eP    07 16.23   1.7
EHOR   59.84 302 iPd   07 23.50   0.8
YAK    59.85  30 eP    07 22.40   0.0
       2.0s   163.00nm         5.8mb
     Z 22s     0.50um          4.6Msz
     N 15s     0.60um
     E 20s     0.70um
```

18d 14h

```
EPRU    59.91 301 iPc    07 24.31    1.0
EJIF    60.16 300 iPc    07 26.62    1.7
ALJ     60.24 301 eP     07 27.00    1.3
MOMI    60.37 300 eP     07 34.00    7.5X
KUMJ    60.38  64 P      07 23.10   -3.4X
PLAT    60.43 300 eP     07 34.00    7.2X
GIBL    60.50 301 eP     07 33.00    5.7X
SEK     60.60 216 eP     07 18.00  -10.1X
EVAL    61.04 302 eP     07 32.61    1.6
TIK     61.65  19 iPc    07 33.00   -1.6
        1.6s    26.00nm          5.2mb
BOSA    62.05 217 eP     07 35.11   -2.6
        0.8s    21.96nm          5.4mb
TKSJ    62.82  62 eP     07 42.50   -0.4
HVD     63.54 216 eP     07 45.50   -2.3
WKYJ    64.04  62 eP     07 46.60   -4.5X
GRM     65.10 213 e(P)   08 00.00    2.2
MAT     65.74  59 eP     08 03.00    1.0
                eS       16 50.00
LKO     66.57 271 P      08 03.94   -3.7X
        0.7s     8.00nm          5.0mb
KIC     66.90 268 P      08 08.68   -1.0
        0.8s    18.50nm          5.3mb
TIC     67.05 268 P      08 08.88   -1.8
        0.8s    10.00nm          5.1mb
LIC     67.21 267 P      08 09.88   -1.8
        0.8s     9.00nm          5.0mb
      Z 19s      1.45um          5.2Msz
YSS     67.36  47 (P)    08 25.50   13.4X
      Z 17s      0.60um          4.9MszX
CER     69.07 218 e(P)   08 25.00    2.1
        1.0s   100.00nm          6.0mb
IMA     87.82  14 eP     10 04.13   -1.1
        0.9s     7.48nm          5.0mb
INK     89.03   6 eP     10 16.00    5.3X
        1.0s     3.00nm          4.5mb
CNCB   133.51 267 PKP    16 37.00    2.6X
LPAZ   133.51 268 PKP    16 36.20    1.7
     S.D. = 1.4  on 104 of 188 obs.
-------------------------------------
% OCT  18, 1993  13h 58m 57.29± 0.79s
   42.889 N ± 8.4km    2.120 E ± 4.7km
   DEPTH =  10.0km  (geophysicist)
 PYRENEES                          (378)
      ML 2.2 (STR).

MTHF     0.31  81 Pg     59 03.75    0.0
VDCF     0.35 149 Pg     59 04.34   -0.2
TRGS     0.40 196 Pg     59 05.27   -0.3
GRBF     0.43 264 Pg     59 07.65    1.5
LESF     0.63 283 Pg     59 09.34   -0.6
SALF     0.70 260 Pg     59 10.58   -0.5
ETER     0.80 137 iPc    59 13.20    0.4
                  e      59 23.90
ENSF     1.31 267 Pg     59 21.37   -0.3
     S.D. = 0.8  on   8 of   8 obs.
-------------------------------------
   OCT  18, 1993  14h 19m 33.83± 0.41s
   40.278 N ± 4.5km   22.092 E ± 3.1km
   DEPTH =  10.0km  (geophysicist)
   3.5mb (  1 obs.)
 GREECE                            (364)
      MD 3.6 (ATH). ML 3.5 (THE), 3.5
      (TIR).

LIT      0.35 120 ePg    19 40.96   -0.1
GRG      0.72  19 ePg    19 46.88   -1.1
FNA      0.74 313 iPg    19 46.85   -1.6
                  iSg    19 57.26
THE      0.75  62 iPg    19 49.30    0.7
                  eSg    20 00.12
KBN      1.05 290 iPnc   19 50.80   -2.9
                  iSn    20 08.00
KNT      1.07  34 ePg    19 53.48   -0.6
SOH      1.10  60 iPg    19 55.10    0.5
                  iSg    20 11.08
LSK      1.15 264 iPnc   19 54.60   -0.8
PAIG     1.27 106 ePb    19 56.72   -0.6
                  eSb    20 14.72
AGG      1.27 172 ePb    19 58.12    0.7
                  iSb    20 16.00
OHR      1.29 311 iPn    19 56.30   -1.4
                  i      20 01.50
                  i      20 14.90
                  i      20 17.10
SRS      1.42  53 ePb    20 00.04    0.4
                  eSb    20 20.24
IGT      1.54 242 ePb    20 04.36    2.9X
TPE      1.59 271 ePn    20 00.00   -2.1
                  iSn    20 26.00
SRN      1.65 257 ePn    20 05.60    2.6X
                  iSn    20 27.90
KKB      1.76  25 iP     20 05.00    0.5
SKO      1.76 344 iPn    20 04.50   -0.1
                  eSn    20 23.80
MMB      1.80  43 iPd    20 05.00   -0.2
KEK      1.85 253 ePn    20 07.80    1.9
VLO      1.99 276 ePn    20 10.50    2.6X
                  iSn    20 38.50
TIR      2.00 303 ePn    20 09.50    1.5
                  iSn    20 39.00
LACI     2.26 308 ePn    20 13.00    1.3
                  iSn    20 46.00
VLS      2.40 210 ePn    20 18.00    4.2X
RZN      2.44  54 iP     20 15.00    0.5
BCI      2.58 325 ePn    20 16.10   -0.3
                  iSn    20 57.00
SDA      2.64 313 ePn    20 21.60    4.4X
                  iSn    20 57.00
ULC      2.73 309 iPnc   20 20.17    1.7
                  iSn    20 52.85
PGB      2.75  34 iP     20 19.00    0.1
RDO      2.76  71 ePn    20 18.20   -0.7
PVY      2.81 326 iPnd   20 20.21    0.5
                  iSn    20 52.62
KDZ      2.87  60 iP     20 20.00   -0.4
TTG      3.03 316 iPnd   20 23.55    0.9
                  iSn    20 59.29
IVA      3.07 328 iPnc   20 23.61    0.3
                  iSn    20 58.93
ALN      3.07  77 ePn    20 22.68   -0.6
BDV      3.17 310 iPnc   20 26.20    1.5
                  iSn    21 03.65
NKY      3.44 318 ePn    20 29.38    0.8
                  iSn    21 08.79
HCY      3.47 310 iPnd   20 30.53    1.6
                  iSn    21 10.77
VLI      3.62 169 ePn    20 31.00    0.0
PLE      3.66 327 iPnd   20 31.74    0.0
                  iSn    21 13.18
BRY      3.73 316 iPnd   20 32.88    0.0
                  iSn    21 16.38
HVAR     5.12 306 ePn    20 51.10   -1.3
PSZ      7.80 349 e(P)   21 31.00    0.9
NB2     21.84 346 P      24 26.50   -1.6
        0.7s     1.30nm          3.5mb
     S.D. = 1.1  on  38 of  43 obs.
-------------------------------------
?  OCT  18, 1993  14h 26m 19.87± 2.47s
   32.003 S ±26.2km   69.087 W ±21.5km
   DEPTH = 120.0km  (geophysicist)
 MENDOZA PROVINCE, ARGENTINA       (139)

RTCB     0.57  25 iPd    26 38.00   -0.6
                  S      26 52.00
ZON      0.57  37 iPd    26 39.00    0.4
                  eS     26 52.00
CFA      0.82  62 ePc    26 40.90    0.3
                  S      26 55.00
RTLL     0.85  38 iPd    26 41.00    0.1
                  S      26 55.50
RTPR     2.78  53 eP     27 04.00    0.1
                  S      27 36.00
MRA      2.89  99 iPc    27 05.50    0.1
                  S      27 39.30
TCA      3.89  81 iP     27 18.50   -0.4
     S.D. = 0.5  on   7 of   7 obs.
-------------------------------------
   OCT  18, 1993  14h 29m 22.13± 0.38s
   40.281 N ± 4.3km   22.076 E ± 2.9km
   DEPTH =   9.1 ±  2.5 km
   3.7mb (  1 obs.)
 GREECE                            (364)
      ML 3.7 (TIR), 3.2 (THE). MD 3.6
      (ATH).

KZN      0.23 276 ePg    29 25.80   -1.3
LIT      0.36 119 iPg    29 29.44   -0.2
                  iSg    29 33.37
GRG      0.72  20 iPg    29 35.37   -1.0
FNA      0.73 314 iPg    29 34.94   -1.7
                  eSg    29 45.56
THE      0.76  62 ePg    29 37.16    0.1
                  eSg    29 49.80
KBN      1.04 290 iPnc   29 39.00   -2.9
                  iSn    29 56.00
KNT      1.08  35 ePg    29 42.52    0.0
                  eSg    29 59.10
SOH      1.11  61 ePg    29 43.32    0.2
                  eSg    29 59.68
LSK      1.14 264 ePn    29 42.50   -1.1
AGG      1.27 171 ePb    29 46.80    1.0
OHR      1.28 311 iPn    29 44.70   -1.2
                  i      29 47.50
                  i      30 02.80
PAIG     1.28 105 ePb    29 45.80   -0.1
                  iSb    30 03.76
SRS      1.42  54 iPb    29 48.52    0.4
                  eSb    30 07.60
IGT      1.54 241 ePb    29 52.56    2.9X
TPE      1.58 271 iPnc   29 49.80   -0.5
                  iSn    30 15.00
SRN      1.64 257 ePn    29 53.90    2.7X
                  iSn    30 15.50
SKO      1.76 344 iPn    29 52.80   -0.1
                  iSn    30 12.50
KKB      1.76  25 iPd    29 53.00    0.1
MMB      1.81  43 iPd    29 54.00    0.3
KEK      1.84 253 ePb    29 55.00    0.9
                  eSb    30 23.00
VLO      1.98 276 ePn    29 58.30    2.2
                  iSn    30 15.00
TIR      1.99 303 ePn    29 58.50    2.2
                  iSn    30 28.50
LACI     2.25 308 ePn    30 01.10    1.1
                  iSn    30 22.60
VLS      2.40 209 ePb    30 05.00    2.8X
RZN      2.44  54 iPd    30 03.00    0.0
BCI      2.58 325 iPn    30 04.60   -0.1
                  iSn    30 36.60
SDA      2.63 313 ePn    30 07.50    2.1
                  iSn    30 45.50
ULC      2.72 309 iPnc   30 07.50    0.7
                  iSn    30 41.73
PGB      2.76  34 iP     30 08.00    0.6
RDO      2.77  71 ePn    30 06.80   -0.7
PVY      2.80 326 iPnc   30 07.99    0.0
                  iSn    30 42.46
TTG      3.02 316 iPnc   30 11.38    0.5
                  iSn    30 48.52
IVA      3.06 328 iPnc   30 11.53   -0.1
                  iSn    30 48.77
ALN      3.08  77 ePn    30 11.53   -0.3
BDV      3.16 310 iPnd   30 13.71    0.7
                  iSn    30 52.32
NKY      3.43 319 iPnc   30 17.09    0.2
                  iSn    30 58.29
HCY      3.45 310 iPnd   30 17.76    0.6
                  iSn    30 59.41
VLI      3.62 169 ePn    30 18.50   -1.0
PLE      3.65 328 iPnc   30 19.74   -0.3
                  iSn    31 03.08
BRY      3.72 316 iPnd   30 21.06   -0.1
                  iSn    31 05.77
NB2     21.84 346 P      34 15.50   -1.0
        0.8s     2.50nm          3.7mb
     S.D. = 1.1  on  38 of  41 obs.
-------------------------------------
?  OCT  18, 1993  15h 40m 49.24± 4.46s
   31.390 S ±34.3km   68.175 W ±24.0km
   DEPTH =  92.9 ± 44.7 km
 SAN JUAN PROVINCE, ARGENTINA      (137)

CFA      0.22 194 ePc    41 03.20    0.0
                  S      41 14.00
RTLL     0.26 283 ePd    41 03.00   -0.1
                  S      41 12.20
RTCB     0.54 260 ePc    41 05.00    0.1
                  S      41 16.50
RTCV     0.56 213 iPd    41 05.00   -0.1
                  S      41 17.00
MRA      2.33 117 ePc    41 26.50    0.0
     S.D. = 0.1  on   5 of   5 obs.
-------------------------------------
*  OCT  18, 1993  15h 46m 21.52± 1.47s
   37.104 N ±14.8km   28.580 E ± 9.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 3.3 (ISK).

CIN      0.63 322 iPgc   46 34.00   -0.2
```

```
                iSg   46 44.00
ELL     1.12 108 iPn   46 42.50  -0.1
                eSg   46 58.00
KHL     1.43  31 ePn   46 47.50  -0.1
BCK     1.64  77 ePn   46 50.80   0.2
IZM     1.66 321 ePn   46 51.10   0.3
ALT     2.29  31 ePn   47 00.00   0.0
     S.D. = 0.2  on   6 of   6 obs.
-----------------------------------
*  OCT  18, 1993  16h 10m 31.36± 0.57s
    5.990 S ± 7.5km  146.005 E ±15.1km
   DEPTH =  33.0km  (normal)
   4.8mb (  6 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.8 (PMG).

YYYY    0.25 188 eP    10 36.60  -2.1
MDG     0.77 343 iPc   10 44.60  -1.1
MNDI    2.34 266 eP    11 15.00   6.5X
WWKK    3.34 315 eP    11 28.00   5.4X
PMG     3.58 161 iPd   11 25.80  -0.1
ASPA   21.08 212 iPc   15 16.30   0.9
        0.8s    37.8nm          4.8mb
      Z 20s     0.30um          3.7Msz
ARMA   24.87 168 iPd   15 52.70   0.1
        0.3s     5.00nm          4.6mb
DZM    25.41 131 iPc   15 57.80   0.0
STK    26.09 189 eP    16 04.30   0.4
        0.7s     3.40nm          4.1mb
MNG    43.42 147 eP    18 33.20   0.4
CSY    65.02 195 iPd   21 13.60   3.4X
        0.5s     8.10nm          5.1mb
GBA    70.78 287 P     21 48.00   0.9
IMA    83.90  21 eP    23 00.40   1.3
        1.0s     5.50nm          4.7mb
FBA    85.56  23 eP    23 06.50  -0.7
        1.0s    14.50nm          5.1mb
CNCB  139.47 125 ePKP  29 59.00   0.0
LPB   139.52 124 ePKP  29 54.00  -4.9X
LPAZ  139.62 124 ePKP  30 03.00   3.7X
PPD   147.39 149 (PKP) 30 19.00   7.3X
KIC   150.91 272 PKP   30 24.84   7.5X
        0.7s    15.00nm
TIC   151.19 273 PKP   30 25.42   7.6X
        0.7s    14.50nm
LIC   151.20 272 PKP   30 25.50   7.7X
        0.6s   423.50nm
LKO   151.64 279 PKP   30 25.22   6.7X
        0.7s    13.50nm
     S.D. = 1.0  on  12 of  22 obs.
-----------------------------------
&  OCT  18, 1993  16h 14m 26.00s
   62.902 N          150.903 W
   DEPTH = 106.4km
 CENTRAL ALASKA                    (  1)
     <AEIC>.

CUT     0.58 149 iP    14 42.98  -0.2
HUR     0.58  82 iP    14 42.91  -0.4
                eS    14 55.59
TRF     0.62  27 iP    14 43.44  -0.4
                eS    14 57.23
KTH     0.65 359 eP    14 43.71  -0.3
                eS    14 57.12
SKT     0.97 198 iP    14 46.56  -0.3
                eS    15 01.90
RND     1.06  61 eP    14 47.51  -0.4
                eS    15 03.60
MCK     1.22  46 eP    14 49.85   0.2
PWA     1.34 159 P     14 50.50  -0.6
BWN     1.43  26 eP    14 52.56   0.5
GHO     1.46 140 eP    14 52.47  -0.1
PLRM    1.55 147 iP    14 53.02  -0.6
NCG     1.62 202 iP    14 53.90  -0.6
DHY     1.62  82 iP    14 54.31  -0.3
                eS    15 16.22
SML     1.63 131 iP    14 54.05  -0.5
CGLM    1.68 198 iP    14 54.94  -0.4
CRP     1.74 200 eP    14 56.06  -0.1
                eS    15 18.54
PMS     1.78 159 P     14 56.00  -0.5
BGL     1.79 204 eP    14 56.91   0.2
CKN     1.79 200 eP    14 56.87   0.2
SPU     1.81 198 eP    14 56.31  -0.6
CKT     1.81 200 eP    14 57.13   0.1
CKL     1.84 202 eP    14 57.27  -0.1
NEA     1.87  25 eP    14 57.01  -0.6
KNK     1.89 141 eP    14 56.99  -0.9
BKG     1.95 200 eP    14 58.55  -0.2
SCM     1.98 121 iP    14 58.20  -1.0
WRH     2.01  37 eP    14 58.92  -0.6
CCB     2.23  37 eP    15 01.67  -0.6
CFI     2.27 138 eP    15 01.84  -1.0
HDA     2.32  48 eP    15 03.13  -0.4
TOA     2.34 108 P     15 03.40  -0.4
TTA     2.34 273 P     15 03.40  -0.4
MDM     2.38  29 eP    15 03.74  -0.6
PWL     2.38 148 eP    15 03.04  -1.3
SLKM    2.42 172 eP    15 04.97   0.0
DFR     2.47 201 eP    15 05.82   0.2
PAX     2.49  86 eP    15 05.52  -0.3
SDG     2.50  96 eP    15 05.49  -0.4
MPA     2.53 162 eP    15 05.70  -0.6
NCT     2.54 203 eP    15 06.88   0.3
RDW     2.59 201 eP    15 07.70   0.4
DJE     2.60  62 eP    15 07.87   0.6
RS2     2.60 201 eP    15 08.72   1.2
GLM     2.61  35 eP    15 07.04  -0.3
TZL     2.69 106 eP    15 08.05  -0.4
KLU     2.73 119 eP    15 07.35  -1.7
VZW     2.76 130 eP    15 07.97  -1.5
VLZ     2.79 127 eP    15 07.83  -2.0
SVW     2.86 233 eP    15 09.34  -1.5
SEW     2.89 165 eP    15 10.43  -0.7
FID     3.01 134 eP    15 11.19  -1.6
DOT     3.18  73 eP    15 14.35  -0.8
LTI     3.22 152 eP    15 13.33  -2.3
HIN     3.28 138 eP    15 14.95  -1.4
MTU     3.31 150 eP    15 14.91  -2.0
CNPM    3.39 183 eP    15 17.43  -0.6
TMW     3.62  80 P     15 16.60  -4.4
SGAM    3.63 129 eP    15 19.10  -2.1
GLB     3.63 111 eP    15 19.63  -1.7
RAGM    3.90 128 eP    15 23.53  -1.4
HMT     4.08 126 eP    15 25.46  -2.0
CDD     4.20 200 eP    15 28.34  -0.7
TGL     4.39 116 eP    15 29.62  -2.1
BALM    4.45 111 eP    15 30.24  -2.3
WAX     4.56 119 eP    15 32.08  -1.9
CTGM    4.92 109 eP    15 37.39  -1.6
YAH     5.06 116 eP    15 38.49  -2.5
        67 obs. associated
-----------------------------------
?  OCT  18, 1993  16h 18m 05.46± 3.71s
   43.241 N ±25.7km   20.971 E ±21.2km
   DEPTH =  10.0km  (geophysicist)
 NORTHWESTERN BALKAN REGION        (383)

IVA     0.87 245 ePg   18 20.65  -1.6
                iSg   18 30.85
PVY     0.98 229 iPgc  18 23.05  -1.0
                iSg   18 35.18
PLE     1.16 275 iPgc  18 26.11  -1.0
                iSg   18 40.62
SKO     1.31 165 iPn   18 29.00  -0.8
TTG     1.50 238 iPgc  18 32.41   0.1
                iSg   18 51.88
NKY     1.51 254 iPgc  18 32.44  -0.2
                iSg   18 52.03
ULC     1.80 225 iPnd  18 38.47   1.7
                iSn   19 02.47
BRY     1.81 260 iPnc  18 37.30   0.2
                iSn   19 01.80
BDV     1.85 240 iPnc  18 38.80   1.4
                iSn   19 02.91
HCY     1.98 247 iPnc  18 40.71   1.3
                iSn   19 06.17
OHR     2.13 184 ePn   18 45.80   4.2X
     S.D. = 1.3  on  10 of  11 obs.
-----------------------------------
?  OCT  18, 1993  16h 24m 46.30± 1.81s
   65.111 N ±12.2km    5.159 E ±16.1km
   DEPTH =  10.0km  (geophysicist)
 NORWEGIAN SEA                     (642)

MOL     2.76 156 eP    25 31.73   0.4
                eS    26 03.53
FOO     3.53 181 eP    25 43.17   1.0
                eS    26 19.32
ASK     4.65 180 eP    25 57.50  -0.6
                eS    26 46.15
EGD     4.86 180 eP    26 00.31  -0.8
                eS    26 51.65
ODD1    5.26 172 eP    26 07.36   0.5
                eS    27 00.88
NRA0    5.27 144 Pn    26 06.56  -0.4
                Sn    26 59.94
KMY     5.92 180 eP    26 15.39  -0.7
                eS    27 14.60
HFS     6.36 138 eP    26 23.80   1.6
        0.1s     1.90nm
ARA0    8.99  51 Pn    26 59.52   0.5
                Sn    28 34.75
KAF     9.86  98 iP    27 10.30  -0.7
NUR    10.02 108 iP    27 12.40  -0.8
     S.D. = 0.9  on  11 of  11 obs.
-----------------------------------
   OCT  18, 1993  16h 35m 02.27± 0.30s
   30.035 N ± 5.0km   98.243 E ± 4.4km
   DEPTH =  29.3km  (  5 depth phases)
   4.8mb ( 25 obs.)  4.2Msz (  2 obs.)
 XIZANG                            (306)
      ML 5.0 (BJI).

CD2     4.84  78 iPnc  36 16.80   1.8
      Z 10s    10.50um
                ePg   36 28.20
                Sg    37 31.80
LSA     6.17 269 Pn    36 37.80   3.6X
      Z 10s     4.33um
                Pg    36 52.00
                Sn    37 42.00
KMI     6.31 140 Pnc   36 36.50   0.5
      Z 10s     7.00um
                Pg    36 57.50
                Sg    38 16.00
LZH     7.65  36 ePn   36 57.00   2.3
        1.2s    40.00nm          5.4mb
      N 10s    11.00um
      E 10s    13.10um
GYA     8.24 114 P     37 01.60  -1.2
        1.0s   190.00nm          6.2mb X
      Z 12s     3.25um          4.1Msz
                S     38 36.00
XAN     9.90  63 P     37 23.30  -2.5
        0.8s    28.00nm          5.6mb
      Z 25s     1.78um          3.7Msz
      N 10s     3.00um
      E 10s     1.52um
                sP    37 39.50
CHTO   11.19 177 eP    37 41.70  -1.6
        1.2s    29.51nm          5.4mb
                i     41 00.50
BDT    12.75 177 eP    38 09.00   4.7X
WHN    13.93  84 eP    38 19.00  -0.9
      N 10s     3.25um
      E 14s     0.71um
                pP    38 27.00
TIY    14.05  53 eP    38 26.60   5.1X
      Z 12s     2.17um
BTO    14.25  39 eP    38 24.00  -0.1
      N 10s     2.47um
      E 10s     3.56um
NST    14.40 173 eP    38 27.20   1.1
QIZ    15.20 133 eP    38 36.00  -0.5
      N 12s     3.28um
      E 11s     3.08um
HHC    15.29  42 Pc    38 42.90   5.2X
        1.0s   410.00nm          5.6mb
      Z 10s     2.53um          4.2MszX
                S     41 27.00
WMQ    16.12 331 P     38 46.00  -2.3
      Z 14s     0.52um
      E 10s     1.20um
                pP    38 54.00
                PP    39 01.00
                S     41 53.00
                sS    42 00.00
                PcP   43 43.00
TIA    16.96  64 eP    39 01.30   2.3
      E 10s     0.70um
                S     42 10.00
NNT    17.41 175 eP    39 04.80   0.1
BJI    17.73  51 eP    39 09.00   0.6
        1.1s    13.00nm          4.0mb
      Z 12s     1.81um          4.2MszX
      N 10s     0.97um
      E 10s     2.14um
NJ2    17.78  78 eP    39 10.50   1.4
      Z 14s     1.12um
NDI    18.38 271 eP    39 15.00  -1.6
```

18d 16h

```
                 eS    42 31.00
SSE    19.78  81 eP    39 31.00  -2.0
       1.0s    11.00nm          4.1mb
     Z  12s     1.80um          4.6MszX
     E  10s     1.00um
                 pP    39 38.00  27km
KSH    20.52 303 P     39 42.00   1.1
       0.9s    90.00nm          5.1mb
     Z  16s     2.38um          4.7MszX
     N  10s     1.69um
     E  10s     2.85um
                 pP    39 50.00  30km
                 sP    39 55.00
                 PP    40 04.00
                 sS    43 42.00
                 PcP   43 51.00
                 SS    43 58.00
                 ScP   47 21.00
TLG    21.25 314 iP    39 49.00   0.8
       2.5s   130.00nm          4.9mb
     Z  20s     0.60um          4.0Msz
     N  20s     1.70um
                 ePPP  40 29.00
                 eS    43 47.00
                 eSS   44 21.00
HYB    21.93 239 eP    39 53.00  -2.1
       1.0s    60.00nm          5.0mb
IRK    22.67  10 eP    40 03.00   0.8
       1.0s    27.00nm          4.7mb
     Z  14s     0.75um          4.3MszX
     N  16s     0.67um
                 e     40 10.00  25km
                 e     40 33.00
                 eS    44 12.00
FRU    22.81 311 eP    40 06.00   2.3
       1.8s    80.00nm          4.9mb
SNG    22.85 174 eP    40 07.00   2.8X
SNY    23.56  53 Pd    40 10.80  -0.1
     Z  14s     0.94um          4.4MszX
     E  13s     0.84um
                 iS    44 23.00
CIT    24.71  23 eP    40 22.50   0.4
POO    24.95 248 iPd   40 27.50   2.8X
                 iS    45 00.00
GBA    25.24 234 P     40 30.00   2.7
IPM    25.45 174 ePd   40 30.80   1.4
CN2    25.59  50 eP    40 30.80   0.4
       0.8s    43.00nm          5.1mb
     Z  15s     0.89um          4.4MszX
     N  12s     0.95um
     E  12s     0.72um
                 epP   40 40.00  33km
                 eS    45 02.00
MAIO   32.87 291 eP    41 36.00   0.1
ASH    33.80 294 eP    41 45.00   1.2
MAT    33.85  68 eP    41 43.00  -1.3
                 eS    47 16.00
SVE    37.46 327 ePd   42 15.00   0.4
       2.5s    50.00nm          4.9mb
     Z  15s     0.60um          4.5MszX
     N  15s     0.50um
     E  15s     0.50um
YAK    38.00  24 eP    42 17.70  -1.4
       0.9s    26.00nm          5.1mb
NRI    39.84 354 ePd   42 33.00  -1.3
       1.6s    17.00nm          4.5mb
                 e     42 49.00  64kmX
TIK    44.86  13 eP    43 15.00  -0.2
       1.2s    14.00nm          4.7mb
     Z  14s     0.60um          4.7MszX
                 e     43 20.00  17kmX
KAF    55.53 327 eP    44 36.00  -0.7
       0.6s     4.50nm          4.7mb
SDF    55.69 334 eP    44 38.00   0.2
NUR    56.36 325 eP    44 44.00   1.3
VRI    56.75 308 eP    44 46.00   0.3
MLR    57.36 307 eP    44 50.00  -0.1
UPP    59.92 325 iP    45 06.60  -1.0
HFS    61.81 326 eP    45 19.80  -0.7
       0.5s     4.90nm          4.9mb
     Z  17s     0.13um          4.2MszX
                 LR    09 26.00
KSP    62.48 315 eP    45 25.20   0.2
NB2    62.81 327 P     45 26.40  -0.8
       0.9s     9.10nm          4.9mb
PRU    63.78 314 eP    45 33.50  -0.2
BRG    63.90 315 iP    45 34.20  -0.2
```

```
CLL    64.35 316 e(P)  45 36.00  -1.4
KHC    64.63 314 eP    45 39.50   0.2
                 e     45 49.50  32km
                 e     46 10.00
GEC2   64.64 313 P     45 37.60  -1.8
       0.5s     2.24nm          4.5mb
                 e     45 41.00  11kmX
                 e     45 42.10
BHG    65.50 312 eP    45 44.90   0.0
GRF    65.92 315 ePc   45 48.50   0.9
       1.1s    11.00nm          4.9mb
     Z  20s     0.20um          4.3Msz
OGA    66.97 312 eP    45 54.20  -0.4
WLF    69.02 316 iP    46 07.70   0.7
       1.0s     8.10nm          4.8mb
IMA    69.82  24 (P)   46 08.69  -3.2X
       0.5s     1.76nm          4.4mb
FBA    72.53  24 eP    46 26.82  -1.2
       0.8s     5.39nm          4.6mb
INK    74.77  18 eP    46 41.00   0.1
       1.0s     3.00nm          4.3mb
RES    75.19   4 eP    46 44.00   0.8
KLU    75.19  27 eP    46 43.20  -0.3
BAO   145.89 287 PKPc  54 41.80   1.2
                 e     54 43.00
BDFB  145.91 287 ePKP  54 41.22   0.6
     S.D. = 1.2  on  58 of  65 obs.
-----------------------------------
%  OCT  18, 1993  19h 09m 34.09± 1.39s
   38.292 S ±18.8km  176.182 E ±18.1km
   DEPTH = 170.0km  (geophysicist)
 NORTH ISLAND, NEW ZEALAND        (159)

URZ      0.73  88 P     09 58.90  -0.2
                 S     10 17.70
CNZ      1.03 208 P     10 02.90   1.4
NOZ      1.49 103 P     10 06.60   1.2
PUZ      1.65  83 P     10 06.60  -0.5
                 eS    10 31.40
BSZ      1.79 213 P     10 09.50   1.0
HBZ      1.81  68 P     10 08.00  -0.7
PGZ      2.33 178 P     10 15.50   1.0
MNG      2.39 193 P     10 15.70   0.4
                 S     10 47.40
KIW      2.75 201 P     10 19.30  -0.4
MTW      2.91 190 P     10 21.20  -0.5
CAW      2.94 197 P     10 21.70  -0.3
BLW      3.12 190 P     10 23.80  -0.5
MRW      3.15 201 P     10 23.70  -0.9
TCW      3.27 206 P     10 25.10  -1.0
     S.D. = 0.9  on  14 of  14 obs.
-----------------------------------
&  OCT  18, 1993  19h 49m 55.51s
   36.156 N          120.134 W
   DEPTH =   8.1km
 CENTRAL CALIFORNIA                ( 39)
      <GM-P>. MD 2.7 (GM). ML 2.7
      (PAS).

PKEM     0.10 168 eP    49 58.39   0.4
BCH      0.97 178 eP    50 13.99  -0.2
ISA      1.43 110 eP    50 20.78  -1.1
                 eS    50 39.38
ABL      1.50 150 ePd   50 21.29  -1.6
                 eS    50 41.83
ARN      1.64 317 (P)   50 23.89  -0.8
COE      1.65 312 (P)   50 23.56  -1.4
MMPM     1.70  31 eP    50 25.90   0.0
                 eS    50 48.65
MTUM     1.74  46 ePd   50 26.59   0.3
                 eS    50 50.15
MEMM     1.79  32 eP    50 27.42   0.6
                 eS    50 51.01
CMB      1.89 354 eP    50 27.38  -1.0
                 eS    50 51.16
MRCM     2.00  40 eP    50 30.89   0.8
                 eS    50 57.66
BONR     2.32  39 eP    50 35.38   0.5
                 eS    51 08.33
GSC      2.84 106 eP    50 41.34  -0.7
                 eS    51 23.10
TNP      3.02  50 (Pn)  50 45.03   0.3
                 ePg   50 49.28
TPNV     3.23  75 ePnd  50 47.43  -0.2
       15 obs. associated
-----------------------------------
   OCT  18, 1993  20h 13m 48.54± 0.42s
```

```
   40.299 N ± 5.0km   25.657 E ± 3.9km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                        (365)
      ML 3.8 (THE), 3.4 (ISK).

ALN      0.67  26 iPg   14 00.97  -0.8
                 iSg   14 09.53
EZN      0.70 132 iPg   14 02.10  -0.2
                 iSg   14 12.10
MFT      1.33  68 ePg   14 13.00  -0.1
RZN      1.56 333 iPd   14 16.00  -0.5
PAIG     1.56 257 ePb   14 16.30  -0.1
EDC      1.69  88 iPn   14 19.00   0.8
SRS      1.77 298 iPb   14 19.14  -0.3
                 eSb   14 46.02
SOH      1.83 287 ePb   14 20.38   0.0
                 eSb   14 47.00
PLD      1.94 339 iP    14 24.00   2.1
MMB      1.95 312 iPd   14 21.00  -1.0
DMK      2.20  46 ePn   14 25.20  -0.4
KNT      2.27 293 iPn   14 26.74   0.1
IZM      2.27 146 ePn   14 27.10   0.4
DST      2.39 106 ePn   14 29.00   0.6
LIT      2.43 266 ePn   14 29.66   0.7
KKB      2.50 310 iP    14 29.00  -0.9
PGB      2.51 334 iP    14 35.00   4.9X
IZI      2.92  88 ePn   14 35.00  -0.9
PVL      2.93 355 iP    14 34.00  -1.9
CIN      3.29 144 eP    14 41.00  -0.2
SKO      3.60 299 ePn   14 54.20   8.7X
ALT      3.65 108 ePn   14 46.00  -0.4
OHR      3.78 284 ePn   15 02.70  14.5X
MLR      5.19   2 eP    15 09.00   0.8
VRI      5.62   8 eP    15 16.50   2.3
BZS      6.08 332 ePc   15 09.50 -11.1X
     S.D. = 1.0  on  22 of  26 obs.
-----------------------------------
?  OCT  18, 1993  20h 23m 57.64± 5.61s
   43.712 N ±17.0km    6.495 E ±41.0km
   DEPTH =  10.0km  (geophysicist)
 NEAR SOUTH COAST OF FRANCE        (379)
      ML 2.1 (STR).

CALN     0.29  82 Pg    24 03.89   0.1
MVIF     0.51  69 Pg    24 07.60  -0.4
TOUF     0.62  61 Pg    24 09.79  -0.5
                 Sg    24 19.62
AURF     0.63  73 Pg    24 09.75  -0.6
                 Sg    24 19.43
AUTN     0.73  67 Pg    24 12.74   0.6
                 Sg    24 23.42
SAOF     0.81  70 Pg    24 14.40   0.9
                 Sg    24 26.21
PGF      2.17 122 Pn    24 34.34  -0.1
                 Sn    25 01.01
     S.D. = 0.7  on   7 of   7 obs.
-----------------------------------
%  OCT  18, 1993  20h 35m 13.24± 1.71s
   31.799 S ±11.1km   69.207 W ±15.9km
   DEPTH = 116.3 ± 20.2 km
 SAN JUAN PROVINCE, ARGENTINA      (137)

RTCB     0.47  48 iPd   35 30.50  -0.4
                 S     35 43.50
RTLL     0.78  54 iPd   35 33.50   0.2
                 S     35 46.50
CFA      0.85  77 ePc   35 34.10   0.3
                 S     35 49.90
RTRS     1.64 352 iPd   35 42.50   0.1
RFA      3.03 168 iPc   36 00.60   0.0
                 S     36 36.70
TCA      3.97  85 eP    36 13.10  -0.2
     S.D. = 0.4  on   6 of   6 obs.
-----------------------------------
*  OCT  18, 1993  20h 51m 15.57± 1.50s
   28.896 N ±15.6km   34.570 E ± 9.2km
   DEPTH =   9.3km  (  5 depth phases)
   4.8mb ( 15 obs.)
 EGYPT                             (553)
      MD 4.4 (HLW).

MBH      0.91  17 iPd   51 31.80  -1.3
PRNI     1.49  14 iPd   51 43.30   0.8
MKT      2.11  14 iP    51 51.60   0.2
                 eS    52 26.30
DSI      2.76  15 eP    52 00.10  -0.6
HLW      2.98 290 ePn   52 04.00   0.2
```

```
CIN     10.23 330 eP     53 44.00   -1.6
ERE     13.91  33 eP     54 43.00    7.9X
LIT     14.95 322 eP     54 47.90   -0.8
SOH     15.03 325 eP     54 49.30   -0.4
SRS     15.13 327 eP     54 52.02    0.9
KNT     15.51 325 iP     54 56.14    0.2
GRG     15.61 324 eP     54 58.34    1.0
OHR     16.58 321 iP     55 07.00   -2.8
SKO     16.85 324 iP     55 12.80   -0.2
        1.6s    60.00nm          4.5mb
GRO     16.97  29 eP     55 10.00   -4.5X
      Z  14s     1.00um
      E  11s     1.00um
CFR     17.04 344 eP     55 18.00    2.6
MLR     17.91 340 eP     55 28.00    1.5
MTUR    17.96 338 eP     55 30.00    3.0X
VRI     18.04 342 eP     55 30.00    2.1
BZS     19.57 332 eP     55 37.00   -9.6X
UZH     21.85 338 eP     56 11.20    1.1
        1.0s    42.00nm          4.8mb
                  e      56 53.50
PSZ     22.13 333 eP     56 12.40   -0.6
MAIO    22.22  64 eP     56 15.00    1.0
PTJ     22.42 324 eP     56 17.50    1.6
SRO     22.70 331 eP     56 17.80   -0.7
ZST     23.52 330 iP     56 28.50    2.0
OJC     24.06 336 eP     56 31.10   -0.7
        1.0s    45.00nm          5.0mb
                  i      56 35.80   17km
KBA     24.55 323 iPc    56 37.40    0.6
        0.8s    20.20nm          4.8mb
                  i      56 43.90   23kmX
                  i      56 58.00
                  i      04 07.30
GEC2    25.56 327 P      56 46.30    0.1
        0.9s     9.71nm          4.5mb
WTTA    25.58 322 iPc    56 47.10    0.5
        1.0s    26.10nm          4.9mb
                  i      56 49.10    7km
                  i      56 57.60
                  i      57 09.10
WATA    25.65 322 iPc    56 47.40    0.2
                  i      56 49.40    7km
SQTA    25.78 322 iPc    56 48.90    0.5
        1.0s    24.60nm          4.9mb
                  i      56 50.90    7km
KHC     25.81 327 P      56 48.00   -0.6
        0.8s     4.10nm          4.2mb
                  e      57 02.00   58kmX
                  e      57 14.00
                  e      57 47.50
KSP     25.89 333 eP     56 50.30    1.1
MOTA    25.91 322 iPd    56 49.50   -0.2
        0.9s    15.20nm          4.7mb
                  i      56 51.90    9km
PRU     25.98 330 P      56 50.70    0.7
        1.1s    15.70nm          4.6mb
OBN     26.23   3 iPc    56 51.50   -0.8
        0.8s    35.00nm          5.1mb
                  e      57 00.00   30kmX
                  e      57 37.00
BRG     26.89 330 iP     56 58.00   -0.4
GRF     27.33 326 eP     57 02.20   -0.3
      Z  18s     0.20um          3.7Msz
CLL     27.61 330 iP     57 04.40   -0.6
        1.3s    20.00nm          4.7mb
                  e      57 38.00 162kmX
MOX     27.78 328 ePd    57 06.20   -0.3
        1.1s    33.00nm          5.0mb
UPP     33.03 344 iP     57 51.30   -1.7
HFS     34.28 342 eP     58 02.00   -1.8
        0.6s    10.30nm          5.0mb
NB2     35.73 341 P      58 13.90   -2.4
        0.9s     7.30nm          4.5mb
    S.D. = 1.2  on  40 of  44 obs.
-----------------------------------
*  OCT  18, 1993  20h 59m 04.06± 1.14s
   40.252 N ±10.5km   25.678 E ±13.5km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                        (365)
      ML 3.1 (ISK).

EZN      0.65 130 iPg    59 16.60   -0.5
                  iSg    59 26.60
KDZ      1.41 352 iP     59 28.00   -1.8
RZN      1.61 333 iP     59 32.00   -0.7
EDC      1.67  86 ePn    59 34.00    0.5
DIM      1.80 357 iP     59 36.00    0.7
PLD      1.99 339 iP     59 40.00    1.9
DMK      2.22  44 ePn    59 41.00   -0.5
IZM      2.22 146 ePn    59 41.50    0.0
DST      2.36 105 ePn    59 44.00    0.5
PGB      2.56 334 eP     59 39.00   -7.3X
    S.D. = 1.2  on   9 of  10 obs.
-----------------------------------
   OCT  18, 1993  21h 42m 13.05± 0.61s
    9.984 N ± 6.2km  125.428 E ±11.9km
   DEPTH =  33.0km  (normal)
   4.4mb (  4 obs.)  3.9Msz (  1 obs.)
 MINDANAO, PHILIPPINE ISLANDS     (259)

PLP      1.25 339 iPd    42 34.50    0.2
MAP      1.46 283 iPc    42 36.50   -0.9
                  iS     42 55.00
BIP      1.93 155 iPd    42 45.00    0.9
                  iS     43 04.50
DAV      2.88 177 eP     42 57.60   -0.1
CTB      3.02 204 eP     43 00.00    0.3
GQP      4.87 323 eP     43 36.00   10.1X
QCP      6.28 318 eP     44 22.00   36.1X
BAG      7.94 324 eP     44 10.00    0.7
CVP      8.43 336 eP     44 20.00    4.0X
SSE     21.37 350 P      47 00.00    0.1
        1.0s    17.00nm          4.4mb
      Z  20s     0.50um          3.9Msz
      E  10s     0.20um
                  eS     51 36.00
BJI     31.04 346 eP     48 29.50   -0.6
        1.0s     6.00nm          4.4mb
ASPA    34.46 166 eP     48 58.70   -1.3
        1.0s     6.20nm          4.5mb
GBA     47.06 279 P      50 45.00    1.2
GEC2    96.41 322 P      55 39.90   -0.4
        0.9s     1.15nm          4.4mb
    S.D. = 0.8  on  11 of  14 obs.
-----------------------------------
*  OCT  18, 1993  21h 43m 09.37± 0.47s
   33.129 S ± 7.5km  177.820 W ±10.5km
   DEPTH =  33.0km  (normal)
   5.4mb ( 12 obs.)  5.0Msz (  3 obs.)
 SOUTH OF KERMADEC ISLANDS        (179)
      Mw 5.2 (HRV).
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 15S, 27C
      Centroid Location:
      Origin Time        21:43:15.7 0.7
      Lat 32.39S 0.06 Lon 177.64W 0.06
      Dep  33.4 4.6 Half-duration  1.0
      Moment Tensor;    Scale 10**16 Nm
        Mrr=-6.32 0.37  Mtt=-2.49 0.61
        Mff= 8.82 0.50  Mrt=-0.80 0.77
        Mrf= 1.76 1.00  Mtf= 2.57 0.38
       Principal Axes:
        T  Val=  9.53  Plg= 6  Azm=282
        N       -2.70      17      190
        P       -6.83      72       30
      Best Double Couple:Mo=8.2*10**16
       NP1:Strike= 30 Dip=42 Slip= -64
       NP2:        177     53     -111

HBZ      5.47 214 eP     44 30.60    0.0
PUZ      5.88 212 P      44 36.10   -0.4
                  S      45 46.70
KUZ      6.42 234 eP     44 46.00    2.0
NOZ      6.43 210 P      44 43.60   -0.5
URZ      6.57 217 eP     44 45.40   -0.8
                  eS     46 00.50
OUZ      7.41 251 eP     45 00.40    2.4
MNG      9.20 214 P      45 18.20   -4.6X
                  eS     47 01.40
KIW      9.66 215 eP     45 25.80   -3.3X
MRW     10.04 214 eP     45 34.00   -0.4
                  eS     47 21.00
DIW     10.11 218 eP     45 33.70   -1.6
THZ     11.34 218 eP     45 49.40   -2.7
                  eS     47 51.90
LTZ     12.40 216 eP     46 02.00   -4.4X
                  eS     48 13.70
MQZ     12.93 212 eP     46 09.10   -4.2X
                  eS     48 25.40
BWZ     14.86 216 eP     46 34.80   -3.9X
ODZ     14.87 214 eP     46 33.60   -5.3X
                  S      49 11.30
VUN     15.42 347 eP     46 39.80   -6.4X
TUZ     16.03 213 eP     46 52.70   -1.1
                  eS     49 39.60
SIZ     17.41 214 eP     47 11.30    0.2
DZM     17.75 304 iPc    47 16.90    1.3
                  iS     50 41.40
AFI     19.91  17 eP     47 35.00   -6.2X
                  e(S)   51 00.00
ARMA    26.07 268 iPc    48 46.80    5.0X
        0.7s    15.00nm          4.7mb
CNB     27.16 256 eP     48 58.30    6.7X
CAN     27.45 256 eP     48 56.20    1.9
BWA     28.02 258 eP     48 58.80   -0.7
TOO     30.13 251 iPd    49 27.00    8.7X
STK     34.11 261 iPd    49 57.80    4.7X
        1.1s     6.00nm          4.4mb
SBA     45.34 185 eP     51 31.00    5.4X
CSY     52.82 209 eP     52 28.70    5.3X
        0.7s    25.20nm          5.3mb
SPA     57.05 180 iPd    52 54.00   -0.4
        1.0s    71.00nm          5.7mb
                  i      53 09.90
MAW     69.82 201 P      54 20.30    2.2
        0.9s    62.50nm          5.7mb
NVL     76.17 183 iPd    54 56.50    1.2
        2.0s    62.00nm          5.3mb
                  i      55 11.00
                  e      55 25.00
                  e      57 16.00
                  e      59 15.00
                  e      00 27.00
                  e      05 19.00
SNA     76.80 178 iPd    55 00.70    1.9
        1.0s    50.00nm          5.5mb
MAT     80.57 325 eP     55 18.00   -1.8
        1.2s    23.44nm          5.1mb
PEL     84.92 126 iPd    55 43.20    0.7
        1.1s    56.96nm          5.7mb
NJ2     88.13 311 Pd     55 57.00   -0.9
MDJ     90.95 325 eP     56 10.00   -0.9
        1.2s    71.00nm          5.9mb
SNY     91.99 320 eP     56 13.20   -2.5
BJI     94.97 315 eP     56 28.50   -0.9
        1.0s    11.00nm          5.2mb
KMI     95.18 297 Pc     56 31.00   -0.1
        2.0s    50.00nm          5.6mb
                  pP     56 38.00   22kmX
TIY     95.79 312 eP     56 33.20   -0.3
XAN     95.87 307 P      56 34.00    0.1
RES    119.79  18 ePKP   01 49.50   -7.1X
        1.0s     3.00nm
BUL    121.32 209 ePKP   02 02.00    0.7
KSH    121.70 299 ePKP   02 02.00    0.5
WIN    122.82 196 ePKP   02 05.50    1.4
        1.0s    40.00nm
                  e      03 52.00
KRI    123.83 212 iPKPd  02 14.20    8.0X
MAIO   133.37 291 ePKP   02 23.00   -0.9
                  e      05 54.00
TAB    144.02 291 ePKP   02 40.00   -3.3X
AKU    145.19  15 iPKP   02 43.00   -1.2
        0.9s    43.70nm
KAF    147.16 339 iPKP   02 47.70    0.2
        0.5s     9.90nm
OBN    147.45 323 ePKPc  02 49.00    0.8
        1.6s   240.00nm
      Z  20s     0.40um          5.2Msz
                  i      03 06.00
                  e      03 19.00
                  e      03 49.00
                  e      04 14.00
NUR    148.91 339 iPKP   02 52.80    2.4
        0.6s    22.10nm
NB2    151.46 351 PKP    02 58.90    4.6X
        1.8s    46.00nm
HFS    151.94 348 ePKP   02 59.20    4.2X
        0.5s     1.00nm
      Z  21s     0.20um          4.9Msz
                  LR     00 46.00
LIC    152.40 164 PKPd   03 04.67    7.7X
        0.7s    33.00nm
      Z  20s     0.21um          5.0Msz
KIC    152.60 165 PKPd   03 05.19    7.9X
        1.1s    73.50nm
TIC    152.81 164 PKP    03 05.61    8.0X
        1.0s    56.50nm
KAS    153.66 297 ePKP   03 06.00    7.9X
```

18d 22h

```
LKO   155.46 161 PKP   03 01.58   0.4
       0.9s    10.50nm
KDS   155.67 144 ePKP  03 02.00   0.6
ISR   157.71 310 ePKPc 03 21.00  17.7X
ZST   161.22 328 ePKP  03 00.80  -6.0X
                 e     03 03.90
                 i     03 50.20
KHC   161.89 335 ePKP  03 07.00  -0.6
       1.1s    10.90nm
     Z  16s     0.50um          4.8MszX
                 e     03 24.50
                 i     03 58.60
                 e     04 09.50
                 e     05 30.00
                 e     07 33.00
SKO   162.39 306 ePKP  03 07.50  -0.7
                 i     03 55.00
OHR   163.17 304 ePKP  03 07.80  -1.3
     S.D. = 1.3  on  40 of  65 obs.
-------------------------------------
   OCT  18, 1993  21h 49m 45.88± 0.75s
   32.013 N ± 6.9km  118.807 W ± 5.1km
   DEPTH =   5.0km  (geophysicist)
   4.4mb ( 16 obs.)
 OFF COAST OF CALIFORNIA          ( 38)

ENX     1.83  94 ePn   50 16.81  -1.4
                 S     50 41.34
ECX     1.83  94 ePn   50 18.18   0.0
                 S     50 44.00
CBX     1.84  80 ePn   50 17.64  -0.9
                 S     50 39.22
PLM     2.12  50 iPd   50 21.43  -1.1
PEC     2.33  36 iPd   50 24.59  -0.9
SSK     2.38  23 iPd   50 25.69  -0.7
RDX     2.43  91 ePn   50 26.43  -0.7
                 S     50 56.79
ABL     2.85 353 eP    50 31.82  -1.3
CPBX    3.00  81 ePn   50 34.40  -0.5
SPX     3.01 108 ePn   50 35.20  -0.3
                 S     51 12.25
EMX     3.03  90 ePn   50 34.31  -1.0
                 S     51 11.35
BCH     3.34 342 eP    50 38.89  -1.0
ISA     3.65   4 eP    50 43.96  -0.4
PKEM    4.18 345 (P)   50 50.67  -1.0
PRS     4.80 334 iP    50 58.74  -1.9
FRI     5.02 352 iP    51 02.64  -1.0
SAO     5.22 336 iP    51 04.76  -1.7
MTUM    5.33   2 (P)   51 08.83   0.6
TPNV    5.36  23 iPd   51 08.46  -0.2
MMPM    5.59 358 eP    51 12.47   0.5
MEMM    5.64 359 eP    51 13.23   0.8
MRCM    5.65   2 eP    51 13.37   0.6
COE     5.74 336 eP    51 11.40  -2.5X
ARN     5.78 338 eP    51 11.95  -2.4X
MHC     5.81 337 eP    51 13.57  -1.3
BONR    5.94   4 eP    51 17.64   0.7
CMB     6.15 348 eP    51 19.23  -0.4
TNP     6.19  12 ePd   51 20.28  -0.1
HMR     6.60 339 (P)   51 27.21   1.3
TUC     6.81  85 eP    51 26.66  -2.3X
NTYM    7.10 335 (P)   51 30.03  -2.9X
ARUT    7.25  36 eP    51 35.07  -0.2
ORV     7.84 345 eP    51 42.63  -0.7
MSU     8.45  38 eP    51 51.57  -0.6
LGPM    9.45 341 (P)   52 08.27   2.4X
DUG     9.49  29 eP    52 05.86  -0.6
LBFM    9.64 346 eP    52 09.15   0.7
SRU     9.78  41 eP    52 12.72   2.3X
EMUT   10.12  38 eP    52 17.64   2.4X
PV10   10.20  49 eP    52 16.73   0.4
PV09   10.21  48 eP    52 16.98   0.5
PV08   10.57  49 (P)   52 21.62   0.2
ALQ    10.72  71 eP    52 23.76   0.4
HVU    10.87  25 eP    52 25.74   0.3
LTX    13.30  98 eP    53 00.12   2.0
GOL    13.32  51 eP    52 58.75   0.3
        1.0s   11.86nm          4.9mb
GLD    13.44  51 (P)   53 01.60   1.6
VGB    13.57 354 eP    53 04.94   3.5X
SHW    14.41 350 (P)   53 12.19  -0.4
LRM    14.64  18 eP    53 18.00   2.2
BMW    14.84 348 (P)   53 23.74   5.6X
LON    14.90 352 (P)   53 21.23   2.3X
RMW    15.60 352 eP    53 30.38   2.3X
GMW    15.81 350 (P)   53 37.43   6.7X
```

```
DPW    15.85   1 (P)   53 32.93   1.7
NEW    16.28   4 eP    53 38.26   1.4
        0.8s   36.11nm          4.6mb
RSSD   16.74  40 eP    53 43.26   0.4
        1.4s   44.13nm          4.4mb
ACO    16.89  69 iPd   53 47.70   3.1X
WMOK   16.95  75 ePc   53 47.78   2.5X
        1.3s   29.47nm          4.3mb
MEO    17.11  75 iPc   53 54.00   6.6X
TUL    19.47  72 iP    54 19.90   3.4X
MIAR   21.23  76 eP    54 55.46  20.5X
FVM    23.95  68 (P)   55 05.08   3.3X
        1.0s   13.51nm          4.5mb
OXF    24.67  76 (P)   55 11.98   3.2X
ELC    24.84  70 (P)   55 13.05   2.6X
ULM    24.94  36 eP    55 15.50   4.3X
PWLA   25.76  75 (P)   55 22.36   3.2X
BALM   32.87 339 (P)   56 22.45  -0.2
PMR    35.51 335 eP    56 46.88   1.6
        1.0s   28.51nm          5.1mb
GAC    35.96  55 eP    56 53.00   3.7X
INK    37.32 351 eP    57 03.50   3.0X
        1.0s    4.00nm          4.1mb
FBA    37.43 340 (P)   57 03.83   2.4X
        0.8s    5.16nm          4.3mb
JAQ    37.56  42 eP    57 07.50   4.9X
SVW    37.68 332 eP    57 04.00   0.4
        0.6s   20.92nm          5.1mb
TTA    38.86 334 eP    57 14.85   1.3
        0.8s    8.73nm          4.5mb
IMA    40.01 339 ePc   57 24.28   1.2
        0.8s    6.32nm          4.3mb
RES    44.36   9 eP    57 54.50  -3.9X
        1.0s    4.00nm          4.2mb
NB2    78.76  22 P     01 56.20   5.4X
        0.8s    4.00nm          4.5mb
HFS    80.24  22 eP    02 01.40   2.7X
        0.6s    1.80nm          4.2mb
MAT    80.85 307 eP    02 02.00  -0.4
        0.8s    7.46nm          4.8mb
PPD    83.97 120 (P)   02 24.00   5.3X
GEC2   89.04  29 P     02 50.10   6.8X
        0.9s    1.17nm          4.1mb
                e     03 00.60
                e     03 06.80
                e     03 53.20
                e     03 59.10
                e     04 08.40
                e     04 11.80
VRI    96.43  23 ePc   03 33.50  16.2X
MLR    96.49  24 eP    03 30.00  12.2X
CFR    97.51  23 eP    03 30.00   7.8X
     S.D. = 1.0  on  51 of  85 obs.
-------------------------------------
   OCT  18, 1993  22h 16m 49.47± 1.14s
   32.432 S ± 6.8km   69.655 W ± 7.2km
   DEPTH = 135.8 ± 16.5 km
 MENDOZA PROVINCE, ARGENTINA      (139)
      MD 4.0 (SAN).

JACH    0.83 252 iP+   17 11.31  -0.5
                iS     17 27.72
FCH     1.04 211 iPd   17 14.39   0.4
                iS     17 32.09
RTCV    1.11  59 eP    17 14.00  -0.2
PEL     1.12 230 iPd   17 14.04  -0.4
                iS     17 31.39
RTCB    1.19  38 iPd   17 15.00  -0.1
                S      17 33.00
ZON     1.21  43 eP    17 15.00  -0.3
                eS     17 33.00
ROCH    1.26 244 iPd   17 15.32  -0.7
                iS     17 34.34
SAN     1.32 219 (P)   17 16.90   0.5
                iS     17 36.26
PCH     1.39 211 iP    17 17.63   0.4
                iS     17 38.73
CFA     1.46  56 iPc   17 18.00   0.1
                S      17 38.00
RTLL    1.49  43 iPd   17 18.50   0.2
                S      17 34.00
TACH    1.63 221 iP    17 19.71  -0.1
                iS     17 42.09
CACH    1.86 205 iP    17 24.01   1.4
                iS     17 49.82
LCCH    1.92 237 iP    17 22.42  -0.7
                iS     17 46.79
```

```
LNV     2.12 224 iP    17 24.65  -0.9
                iS     17 50.63
RTRS    2.26   4 iPd   17 29.00   1.6
RFA     2.54 157 iPc   17 31.50   0.5
                S      18 02.00
MRA     3.34  91 e(P)d 17 41.00  -0.3
                S      18 18.60
RTPR    3.43  53 eP    17 42.00  -0.5
                S      18 22.00
TCA     4.44  77 iP    17 55.60  -0.6
                (S)    18 44.00
     S.D. = 0.7  on  20 of  20 obs.
-------------------------------------
?  OCT  18, 1993  22h 21m 52.01± 1.26s
   3.188 S ± 8.9km  134.382 E ±28.8km
   DEPTH =  33.0km  (normal)
   4.7mb (  4 obs.)  4.2Msz (  1 obs.)
 IRIAN JAYA REGION, INDONESIA     (196)

SWI     3.88 306 ePd   22 52.00   1.2
                iS     24 03.00
MTN    10.12 198 iPd   24 18.20   0.0
        0.8s  262.00nm          6.5mb X
KNA    13.65 204 eP    25 05.50  -0.2
WRA    16.65 180 P     25 49.50   4.8X
        0.8s    1.70nm          3.2mb X
WRA    16.65 180 P     25 56.50  11.8X
        0.5s    0.40nm
ASPA   20.36 181 iPc   26 29.40   0.7
        0.7s   59.90nm          5.1mb X
                iS     30 15.00
XAN    44.12 329 P     29 58.00  -1.2
        1.0s    7.10nm          4.4mb
CD2    44.74 322 eP    30 05.00   0.7
TIY    45.51 335 eP    30 13.00   2.7
BJI    46.15 341 eP    30 15.00  -0.2
        1.2s   10.00nm          4.6mb
     Z  20s    0.30um          4.2Msz
LZH    48.38 327 eP    30 32.50  -0.5
        1.0s   28.00nm          5.2mb
HHC    48.53 337 eP    30 34.00  -0.1
     Z  23s    0.66um          4.6MszX
LSA    52.72 311 P     31 03.70  -2.9
GTA    52.98 327 eP    31 07.50  -0.5
        1.5s   13.00nm          4.7mb
WMQ    62.76 324 eP    32 17.00   0.5
     S.D. = 1.4  on  13 of  15 obs.
-------------------------------------
%  OCT  18, 1993  22h 32m 55.07± 1.05s
   38.907 S ±13.5km  175.079 E ±11.8km
   DEPTH = 220.0km  (geophysicist)
 NORTH ISLAND, NEW ZEALAND        (159)

CNZ     0.47 129 P     33 24.40  -0.2
NGZ     0.49 124 P     33 24.50  -0.2
BSZ     0.90 187 P     33 27.20   0.7
MNG     1.74 170 Pc    33 33.20   0.3
                S      34 01.50
PGZ     1.94 152 P     33 34.60  -0.2
KIW     1.96 184 P     33 35.20   0.2
DIW     2.09 205 P     33 36.90   0.5
CAW     2.20 180 P     33 37.60   0.2
MTW     2.27 172 P     33 37.80  -0.4
MRW     2.34 187 P     33 39.00   0.1
                S      34 12.30
TCW     2.38 195 P     33 39.80   0.5
BLW     2.48 173 P     33 39.90  -0.5
QRZ     2.74 225 eP    33 42.70  -0.6
LTZ     4.42 208 eP    34 02.90  -0.4
     S.D. = 0.4  on  14 of  14 obs.
-------------------------------------
&  OCT  18, 1993  22h 47m 17.70s
   40.435 N          125.353 W
   DEPTH =   5.0km
 OFF COAST OF NORTHERN CALIFORNIA( 34)
      <BRK>. ML 3.9 (BRK). MD 3.8
      (GM).

KCTM    0.78  87 P     47 33.50   0.2
KMPM    0.94  91 P     47 34.90  -1.3
EKR     0.96  74 iP    47 35.77  -0.6
                iS     47 48.61
FOX     1.04  85 iP    47 37.57  -0.2
                iS     47 52.53
ARC     1.07  65 iPc   47 36.87  -1.4
                iS     47 50.60
FHC     1.10  70 iP    47 37.88  -1.0
```

		iS	47	51.86	
KCRM	1.17	90	P	47 38.50	-1.6
KGMM	1.32	75	P	47 41.30	-1.4
KRMM	1.54	45	P	47 43.50	-2.5
KIPM	1.57	113	P	47 44.30	-2.1
KFPM	1.68	118	P	47 45.80	-2.1
KBNM	1.74	107	P	47 47.30	-1.6
KRKM	1.88	117	P	47 49.00	-1.9
LGPM	1.98	75	P	47 50.00	-2.3
WDC	2.15	85	iPc	47 52.65	-2.0
			iS	48 18.65	
GAS	2.17	110	P	47 52.90	-2.2
GSNM	2.24	131	P	47 52.30	-3.7
GHGM	2.34	123	P	47 55.60	-2.0
GMCM	2.37	133	P	47 53.80	-4.2
YBH	2.38	56	ePc	47 55.70	-2.4
			iS	48 25.10	
LGBM	2.56	68	P	47 59.40	-1.4
LDBM	2.72	89	P	48 00.80	-2.2
LBFM	2.78	70	P	48 02.20	-1.7
MIN	2.86	91	iPc	48 02.58	-2.5
			eS	48 36.43	
LPDM	2.88	74	P	48 09.40	4.2
NTBM	2.88	139	P	48 02.20	-2.9
LMEM	2.89	87	P	48 03.40	-2.0
NTYM	2.92	134	P	48 02.20	-3.4
LRDM	2.97	88	P	48 05.10	-1.3
MGL	2.98	101	P	48 04.20	-2.3
ORV	3.09	105	eP	48 05.38	-2.6
			eS	48 40.45	
DBO	3.11	30	P	48 06.47	-1.9
BBOR	3.16	38	P	48 07.73	-1.5
SNT	3.18	134	P	48 06.40	-2.9
ZSP	3.46	135	iP	48 09.90	-3.4
			iS	48 51.01	
HSO	3.52	28	P	48 12.24	-2.0
BKS	3.52	136	iP	48 11.01	-3.2
RNO	3.68	18	P	48 14.18	-2.3
AASM	3.85	120	P	48 17.10	-1.8
HBO	4.09	33	P	48 21.12	-1.2
MHC	4.23	136	eP	48 20.46	-4.0
			eS	49 08.46	
COE	4.28	137	P	48 21.60	-3.4
MPOR	4.28	18	P	48 22.95	-2.1
ARN	4.29	135	P	48 21.10	-4.0
GCC	4.29	141	iP	48 21.02	-4.2
FBO	4.38	27	P	48 24.80	-1.7
CMB	4.54	120	iPc	48 27.08	-1.6
TCO	4.61	36	P	48 28.71	-1.1
SAO	4.77	139	iP	48 26.51	-5.5
SSOR	4.91	25	P	48 32.16	-1.8
BPO	5.01	32	P	48 33.94	-1.5
PRS	5.15	141	iP	48 32.54	-4.9
GMO	5.16	38	P	48 36.20	-1.4
GT2	5.23	25	P	48 37.69	-0.8
VIPM	5.37	39	P	48 39.22	-1.4
TDH	5.51	27	P	48 40.96	-1.6
CROR	5.57	34	P	48 41.43	-1.9
FRI	5.59	126	iP	48 40.71	-2.9
VLMM	5.65	24	P	48 43.00	-1.5
PRI	5.65	138	iPd	48 41.41	-3.2
VFP	5.65	29	P	48 43.36	-1.2
VLL	5.70	27	P	48 43.88	-1.3
MEMM	5.71	117	P	48 45.00	-0.2
VTHM	5.91	35	P	48 46.75	-1.3
LVP	6.03	20	P	48 48.23	-1.5
MTMW	6.04	21	P	48 47.70	-2.2
VGB	6.09	32	P	48 49.08	-1.4
FL2	6.16	20	P	48 49.33	-2.3
SHW	6.19	21	P	48 49.90	-2.1
BMW	6.23	14	P	48 50.10	-2.5
ERK	6.26	20	P	48 50.74	-2.4
ASR	6.34	24	P	48 52.16	-2.0
TDL	6.34	20	P	48 52.27	-1.9
GL2	6.44	29	P	48 54.07	-1.5
JBO	6.45	37	P	48 54.58	-1.1
LMW	6.62	19	P	48 56.79	-1.3
PATW	6.81	35	P	48 59.31	-1.3
LON	6.82	21	P	48 58.93	-1.9
WPW	6.84	23	P	48 58.87	-2.4
RVC	6.95	20	P	49 01.06	-1.7
MXC	7.16	29	P	49 04.01	-1.5
WIW	7.44	34	P	49 07.77	-1.7
GBL	7.50	33	P	49 08.59	-1.8
TBM	7.56	25	P	49 10.41	-0.8
DUG	9.58	87	P	49 37.30	-2.2
MSU	10.37	96	P	49 48.10	-2.3

LRM	10.85	56	eP	49 55.20	-1.8
SRU	11.49	92	P	50 05.90	0.2

88 obs. associated

& OCT 18, 1993 23h 05m 55.59s
59.396 N 151.913 W
DEPTH = 54.7km
KENAI PENINSULA, ALASKA (14)
<AEIC>. ML 3.8 (AEIC). Felt
(III) at Port Graham.

XLV	0.11	59	iPc	06 03.32	0.7
			eS	06 09.61	
HOM	0.30	27	eP	06 04.94	-0.3
CNPM	0.37	69	iPc	06 05.46	-0.5
			eS	06 13.40	
BRLK	0.64	54	eP	06 08.46	-0.5
			eS	06 18.41	
OPT	0.72	292	iPc	06 09.28	-0.7
AUE	0.75	268	iPc	06 09.62	-0.6
			eS	06 20.55	
AUP	0.77	268	iPd	06 09.82	-0.9
			eS	06 18.92	
AGU	0.78	268	ePc	06 10.18	-0.6
			eS	06 21.66	
AUI	0.78	266	iPc	06 09.90	-0.7
			eS	06 20.04	
AUL	0.78	270	iPc	06 10.09	-0.6
AUH	0.78	268	iPc	06 10.15	-0.7
AUW	0.80	269	iPc	06 10.22	-0.7
ILIM	0.87	323	ePd	06 11.04	-0.8
INE	0.89	319	iPc	06 11.25	-1.0
CDD	1.01	243	iPd	06 12.75	-1.0
			eS	06 26.48	
RED	1.11	338	iPd	06 14.43	-0.8
			eS	06 29.77	
RSO	1.15	339	eP	06 15.13	-0.7
			S	06 32.12	
RS2	1.15	339	iPd	06 15.18	-0.7
REF	1.17	340	iPd	06 15.33	-0.7
RDW	1.18	338	iPd	06 15.49	-0.8
RDT	1.21	348	iPd	06 15.79	-0.7
			eS	06 31.90	
PDB	1.22	290	iPc	06 15.70	-1.0
			eS	06 31.52	
DFR	1.26	342	iPd	06 16.50	-0.8
NCT	1.28	337	iPd	06 16.78	-0.7
			eS	06 33.80	
NKA	1.39	14	eP	06 20.57	1.6
SLKM	1.40	37	eP	06 18.66	-0.6
SEW	1.44	59	eP	06 18.74	-0.8
KDC	1.68	191	ePd	06 21.40	-1.6
			eS	06 42.54	
BKG	1.69	354	iPd	06 22.87	-0.4
			eS	06 44.47	
MPA	1.69	48	eP	06 22.46	-0.7
SPU	1.79	358	iPd	06 24.34	-0.3
			eS	06 47.19	
CKT	1.82	356	iPd	06 24.66	-0.4
			eS	06 46.97	
CKL	1.82	354	iPd	06 24.81	-0.3
CKN	1.84	356	iPd	06 25.29	0.0
CRP	1.88	356	eP	06 25.38	-0.6
CP2	1.88	355	eP	06 25.00	-1.1
BGL	1.89	353	iPd	06 26.08	0.0
CGLM	1.92	359	iPd	06 26.36	-0.1
NCG	2.02	357	iPd	06 27.97	0.1
SUA	2.15	15	ePd	06 29.77	-0.1
LTI	2.16	71	eP	06 28.43	-1.3
PMS	2.19	31	P	06 30.10	-0.2
MTU	2.24	73	eP	06 30.43	-0.5
PWL	2.32	49	ePd	06 31.00	-1.0
PWA	2.48	23	P	06 34.00	-0.2
SVW	2.52	314	ePc	06 33.16	-1.8
PLRM	2.60	31	iPd	06 35.11	-0.8
PMR	2.60	31	eP	06 34.68	-1.2
SKT	2.60	4	iPd	06 35.97	0.0
KNK	2.65	39	iPd	06 35.77	-1.0
CFI	2.73	47	eP	06 36.40	-1.5
GHO	2.80	30	iPd	06 38.14	-0.9
HIN	2.91	67	eP	06 38.88	-1.5
SML	3.00	35	iPd	06 40.61	-1.1
FID	3.04	61	iPd	06 39.61	-2.8
CUT	3.12	14	eP	06 42.98	-0.5
VLZ	3.28	56	eP	06 43.84	-1.8
			eS	07 21.53	
CVA	3.31	67	eP	06 43.84	-2.2

SCM	3.33	41	ePd	06 45.49	-1.0
SGAM	3.55	69	eP	06 47.24	-2.3
KLU	3.64	52	iPd	06 49.10	-1.7
HUR	3.76	16	eP	06 52.37	-0.1
RAGM	3.78	72	eP	06 51.82	-0.9
TOA	3.91	44	P	06 53.70	-1.0
HMT	3.97	73	eP	06 54.41	-1.0
TTA	4.06	333	eP	06 54.61	-2.2
TRF	4.14	10	eP	06 56.35	-1.6
TZL	4.15	47	eP	06 56.93	-1.0
KTH	4.20	6	eP	06 57.91	-0.8
RND	4.28	19	eP	06 58.48	-1.4
DHY	4.29	29	eP	06 59.27	-0.8
SDG	4.42	42	eP	07 02.16	0.5
GLB	4.51	59	eP	07 00.63	-2.4
MCK	4.58	17	eP	07 03.18	-0.8
CRQM	4.60	69	eP	07 01.91	-2.5
WAX	4.68	73	eP	07 03.78	-1.7
TGL	4.75	69	eP	07 03.86	-2.6
PAX	4.75	38	eP	07 04.75	-1.7
BWN	4.93	13	eP	07 07.73	-1.2
BALM	5.05	67	eP	07 07.63	-3.1
YAH	5.21	75	eP	07 11.62	-1.5
NEA	5.37	13	eP	07 12.87	-2.2
WRH	5.40	18	eP	07 13.41	-2.1
CTGM	5.51	69	eP	07 15.56	-1.6
HDA	5.55	23	eP	07 15.84	-1.7
CCB	5.61	18	eP	07 15.94	-2.5
MDM	5.84	16	eP	07 19.15	-2.6
FBA	5.85	17	eP	07 18.81	-3.0
IL1	5.89	21	eP	07 19.74	-2.6
ILB	5.89	21	iPd	07 19.80	-2.5
GLM	6.00	19	eP	07 21.42	-2.5
BC3	6.12	49	eP	07 23.07	-2.5
IM3	6.67	354	eP	07 30.65	-2.5
IMA	6.75	354	eP	07 31.84	-2.6
BM3	8.69	19	eP	07 57.28	-3.9

95 obs. associated

? OCT 18, 1993 23h 54m 26.04± 1.59s
31.303 S ±35.9km 68.624 W ±36.6km
DEPTH = 100.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTLL	0.13	102	iPd	54 40.50	-0.1
			S	54 51.50	
RTCB	0.24	219	iPd	54 41.00	0.1
			S	54 52.20	
CFA	0.45	133	ePd	54 41.80	0.1
			S	54 54.20	
RTCV	0.56	172	eP	54 42.50	-0.1
			S	54 56.00	

S.D. = 0.1 on 4 of 4 obs.

% OCT 19, 1993 00h 26m 33.88± 1.66s
31.690 S ±12.4km 69.270 W ±19.6km
DEPTH = 120.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

RTCB	0.45	63	iPd	26 51.70	-0.2
			S	27 05.20	
RTCV	0.65	105	iPc	26 54.00	0.9
			S	27 09.00	
RTLL	0.77	63	iPd	26 54.00	-0.2
			S	27 09.00	
CFA	0.88	85	ePc	26 55.80	0.7
			S	27 12.20	
RTPR	2.74	60	eP	27 17.00	-0.4
			S	27 50.00	
MRA	3.11	104	e(P)c	27 22.50	0.2
			S	28 00.50	
RFA	3.15	168	iPc	27 22.40	-0.5
TCA	4.01	86	eP	27 34.00	-0.6

S.D. = 0.6 on 8 of 8 obs.

---

* OCT 19, 1993 00h 27m 46.91± 1.24s
36.349 N ±13.8km 23.054 E ±17.0km
DEPTH = 71.4 ± 18.2 km
SOUTHERN GREECE (368)

VLI	0.38	346	eP	27 59.00	0.0
VAM	1.32	135	eP	28 09.90	0.0
ATH	1.71	18	eP	28 15.00	-0.1
NPS	2.35	117	eP	28 24.00	0.0
KEK	4.23	324	eP	28 50.20	-0.1
OHR	5.07	340	ePn	29 02.30	0.1

S.D. = 0.1 on 6 of 6 obs.

```
-------------------------------------
   OCT  19, 1993  01h 22m 54.41± 0.64s
   38.322 N ± 6.3km   28.049 E ± 5.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      ML 3.2 (ISK).

IZM     0.62 277 iPg   23 06.80  -0.2
                 eSg   23 17.00
CIN     0.72 178 iPgc  23 09.00   0.4
                 iSg   23 19.00
KHL     1.16  89 iPn   23 15.50  -0.6
DST     1.36  19 iPn   23 19.40   0.0
ALT     1.77  65 ePn   23 25.50   0.1
EZN     2.01 319 ePn   23 28.00  -0.8
EDC     2.03 356 ePn   23 30.00   1.0
IZI     2.30  28 ePn   23 33.00   0.0
     S.D. = 0.7  on   8 of   8 obs.
-------------------------------------
?  OCT  19, 1993  01h 30m 08.86± 1.35s
    4.426 S ±13.1km  154.522 E ±20.5km
   DEPTH =  33.0km  (normal)
   4.7mb (  3 obs.)
 SOLOMON ISLANDS                     (193)

RAB     2.36 276 iPd   30 48.00   1.8
       0.5s  1042.25nm
                 iS    31 08.00
PMG     8.82 236 eP    32 17.50   0.3
GUA    20.24 332 eP    34 43.70  -0.5
       0.9s   100.84nm          5.2mb X
GUMO   20.30 332 eP    34 43.40  -1.5
       1.2s   111.00nm          5.1mb X
PJG    20.30 332 eP    34 44.30  -0.6
QIS    21.63 221 iPd   34 58.70   0.3
WR2    24.97 230 iPc   35 29.30  -1.8
       0.3s    74.90nm          5.8mb X
                 iS    39 33.70
ARMA   26.00 186 eP    35 52.10  11.4X
ASPA   27.60 224 iPd   35 54.10  -1.3
       0.3s     7.90nm          4.9mb
                 e     36 38.00
MBL    37.56 241 eP    37 30.90   8.8X
       0.5s     6.00nm          4.7mb
SVW    75.81  23 (P)   41 53.66   0.4
       0.8s     6.06nm          4.6mb
GEC2  124.62 330 PKP   49 09.50   2.7
       0.6s     0.77nm
     S.D. = 1.6  on  10 of  12 obs.
-------------------------------------
%  OCT  19, 1993  02h 26m 36.72± 1.74s
   26.429 S ±19.5km   27.353 E ±23.3km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA            (584)

SLR     1.08  51 iPd   26 57.10  -0.6
                 S     27 12.40
SEK     1.90 173 Pc    27 09.80  -0.5
                 S     27 34.10
BFT     2.53  74 eP    27 20.10   0.7
                 S     27 52.50
BLF     2.86 201 eP    27 24.00   0.0
                 S     27 56.00
FRS     3.76 208 e(P)  27 37.00   0.3
     S.D. = 0.8  on   5 of   5 obs.
-------------------------------------
&  OCT  19, 1993  02h 40m 29.07s
   34.198 N          116.432 W
   DEPTH =   5.8km
 SOUTHERN CALIFORNIA                 ( 43)
      <PAS-P>. ML 3.4 (PAS). Felt in
      the Yucca Valley area.

PEC     0.68 243 iPd   40 41.48  -1.2
                 eS    40 50.22
PLM     0.92 203 iPd   40 45.90  -1.2
                 eS    40 58.04
SSK     1.05 271 iPc   40 48.23  -1.1
                 eS    41 02.59
GSC     1.14 345 eP    40 50.06  -0.8
GLA     1.76 130 ePnc  40 57.76  -2.6
ISA     2.22 312 ePn   41 04.85  -2.3
                 ePg   41 09.56
ABL     2.39 287 ePn   41 07.44  -2.2
TPNV    2.75   3 ePn   41 12.72  -2.0
BCH     3.17 289 ePn   41 19.85  -0.7
TNP     3.93 351 (Pn)  41 32.06   0.6
MMPM    4.00 329 ePg   41 42.39   9.8
ARUT    4.33  33 ePn   41 35.15  -1.9
                 ePg   41 49.35
MSU     5.51  37 (Pn)  41 51.21  -2.7
                 ePg   42 10.72
DUG     6.65  25 ePg   42 31.64  21.8
       14 obs. associated
-------------------------------------
   OCT  19, 1993  04h 02m 21.90± 0.12s
   22.378 S ± 2.7km   65.971 W ± 3.1km
   DEPTH = 272.0km  (geophysicist)
   5.9mb (107 obs.)
 JUJUY PROVINCE, ARGENTINA           (128)
      Mw 6.0 (GS), 6.0 (HRV). mb 5.4
      (BRK). Depth from broadband
      displacement seismograms.
      FAULT PLANE SOLUTION: P-Waves
       NP1:Strike=175 Dip=85 Slip=  90
       NP2:        355     5       90
       Principal Axes:
        T                Plg=50  Azm= 85
        P                     40     265
      Comment: The focal mechanism is
        poorly controlled and
        corresponds to reverse
        faulting. The preferred fault
        plane is NP2.
      RADIATED ENERGY
       No. of sta:   6  Focal mech.  M
       Energy        4.0±0.8*10**12 Nm
      MOMENT TENSOR SOLUTION
      Dep 278            No. of sta: 12
      Moment Tensor;   Scale 10**18 Nm
        Mrr= 0.15        Mtt=-0.13
        Mff=-0.02        Mrt= 0.13
        Mrf=-0.99        Mtf= 0.29
       Principal axes:
        T  Val=  1.07  Plg=47  Azm= 97
        N       -0.04      16      350
        P       -1.03      39      246
      Best Double Couple:Mo=1.0*10**18
       NP1:Strike=274 Dip=16 Slip=  14
       NP2:        171     86      106
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 48S, **C
      Centroid Location:
      Origin Time        04:02:30.3 0.1
      Lat 22.12S 0.02 Lon  65.69W 0.02
      Dep 278.9 0.6 Half-duration  2.6
      Moment Tensor;   Scale 10**18 Nm
        Mrr=-0.02 0.01  Mtt=-0.09 0.02
        Mff= 0.10 0.02  Mrt= 0.11 0.02
        Mrf=-1.25 0.01  Mtf= 0.10 0.02
       Principal Axes:
        T  Val=  1.29  Plg=44  Azm= 90
        N       -0.07       5      355
        P       -1.23      46      259
      Best Double Couple:Mo=1.3*10**18
       NP1:Strike=252 Dip= 5 Slip= -12
       NP2:        355     89      -95

YJA     0.48  65 iPc   02 57.00  -1.9
HJA     0.98 148 iPd   02 59.90   0.5
SLA     2.38 169 iPc   03 09.00  -1.2
FSA     3.69 181 iPc   03 22.50  -1.1
CCH     4.97 358 Pc    03 37.80  -1.1
CNCB    5.85 341 iPc   03 49.70  -0.2
CYA     6.04 179 iPc   03 50.50  -1.2
                 (S)   04 59.50
LPB     6.15 341 iPc   03 53.20  -0.2
                 S     04 52.00
LPAZ    6.39 341 Pnc   03 55.90  -0.7
       1.0s  4312.00nm          6.4mb
                 i     03 58.10
                 i     04 22.60
                 S     05 08.50
                 Lg    05 42.80
LPAZ    6.39 341 P     04 12.80  16.2X
ARE     7.86 318 iPc   04 11.00  -3.5X
                 iS    05 34.00
RTPR    7.91 183 eP    04 11.00  -3.8X
RTRS    8.37 201 e(P)  04 20.00  -0.5
TCA     9.01 172 iPc   04 25.50  -3.3X
RTLL    9.19 194 ePc   04 26.50  -4.5X
CFA     9.41 192 eP    04 29.30  -4.5X
RTCB    9.42 195 iPc   04 30.50  -3.4X
ZON     9.44 194 eP    04 29.80  -4.4X
                 eS    06 06.80
RTCV    9.72 193 e(P)  04 34.00  -3.7X
MDZ    10.77 193 P     04 48.90  -1.9
                 i     06 07.20
                 (S)   07 09.00
                 LR    08 12.50
MDZ    10.77 193 P     04 57.10   6.3X
                 SP    05 31.90
                 i     06 41.50
                 S     06 58.30
                 LR    08 10.30
JACH   11.05 201 eP    04 52.86  -1.5
ROCH   11.46 202 eP    04 57.14  -2.4
PEL    11.51 200 iP    04 58.40  -1.6
FCH    11.56 198 eP    05 00.35  -0.5
IHA    11.73 204 eP    04 58.50  -4.2X
                 i(S)  05 07.10
SAN    11.78 200 eP    05 01.92  -1.5
PCH    11.89 199 eP    05 03.36  -1.5
TACH   12.06 200 eP    05 04.51  -2.2
CACH   12.38 198 eP    05 09.91  -1.0
LNV    12.49 201 eP    05 08.67  -3.3X
RFA    12.54 189 ePc   05 08.50  -4.2X
                 (S)   07 15.50
PPD    13.58  91 eP    05 24.40  -1.2
LPA    14.33 152 iPd+  05 33.20  -1.3
       0.9s   806.72nm          6.1mb
                 iS    08 06.00
                 iScS  17 20.00
                 esScS 19 16.00
NNA    14.64 313 iPd   05 37.50  -0.9
       0.7s    92.47nm          5.3mb
                 eS    08 15.50
RSTA   15.70 102 eP    05 49.30  -1.7
CACB   17.85  91 iPc   06 13.20  -0.8
                 e     06 28.90
                 e     11 10.00
BDFB   18.24  72 eP    06 17.48  -0.5
       1.0s  5553.58nm          7.0mb X
BAO    18.27  72 eP    06 16.90  -1.3
                 e     07 32.00
                 e     08 26.10
                 e     10 03.00
                 e     11 29.20
CDCB   19.92  88 iPc   06 34.50  -0.2
                 e     06 41.30  26kmX
                 i     07 17.80
                 e     07 40.40
SOB1   27.39  65 eP    07 41.50  -3.3X
                 e     07 43.50   7kmX
                 e     08 19.50
                 e     08 38.00
SDV    31.40 351 iPd   08 17.70  -2.4
TOV    32.18 353 ePc   08 24.60  -2.2
                 iPP   08 25.10
OLLA   32.21 358 iP    08 25.30  -1.7
LLAV   32.66 358 iP    08 29.30  -1.6
CAR    32.69 358 iPd   08 28.00  -3.2X
TBH    33.01   9 eP    08 33.22  -0.6
                 i     08 34.04   3kmX
MORO   33.12 356 iP    08 33.80  -1.1
TRN    33.12   8 eP    08 33.41  -1.3
                 e     13 55.28
TCE    33.13   8 eP    08 34.17  -0.6
                 i     08 34.76   2kmX
BOT    33.73   9 eP    08 39.60  -0.3
TPR    33.74   9 eP    08 39.13  -0.9
GRW    34.58   7 eP    08 45.91  -1.3
DVD    34.62 330 eP    08 48.90   1.5
DVD    34.62 330 iP    08 55.71   8.3X
BRU    35.00 331 eP    08 52.58   1.4
SVB    35.73   8 eP    08 54.94  -1.8
SVV    35.78   8 eP    08 56.23  -0.9
                 e     14 13.00
SLB    36.30   8 eP    09 00.03  -1.6
                 e     14 17.74
MGP    40.15 358 P     09 31.10  -2.2
CPD    40.17   0 P     09 30.00  -3.5X
PORP   40.19 359 P     09 31.20  -2.4
CLLP   40.21 359 P     09 31.30  -2.5
SJG    40.24 360 ePc   09 31.60  -2.5
LPR    40.44   0 P     09 32.80  -2.9
MCP    40.56 358 P     09 35.20  -1.5
APR    40.59 359 (P)   09 34.00  -2.9
TPX    45.13 323 (P)   10 15.00   1.6
OXX    49.44 320 (P)   10 48.00   1.0
```

```
IISM   51.31 321 (P)    11 02.00    1.2
III    52.09 318 (P)    11 07.00    0.1
UNM    52.65 319 (P)    11 12.00    1.0
MRX    54.16 318 (P)    11 22.00    0.3
CEH    59.27 348 ePc    11 55.41   -1.8
       1.0s   168.55nm          5.6mb
                epPd    12 57.32 278kmX
MYNC   59.68 343 (P)    11 57.81   -2.3
       0.9s   154.71nm          5.6mb
                ePcP    12 41.40
                ipPd    12 59.61 277kmX
                (sP)    13 28.58
SNA    60.31 160 eP     12 03.00   -1.0
       0.8s   247.76nm          5.8mb
MBO    60.35  57 iPc    12 04.10   -0.8
PWLA   60.78 339 ePd    12 05.06   -2.4
OXF    60.80 338 ePc    12 05.27   -2.4
                epP     13 07.94 280kmX
CBN    61.20 350 eP     12 10.00   -0.2
                e       13 12.00 276kmX
MIAR   62.39 334 ePd    12 27.28    9.1X
                ipPd    13 29.64 276kmX
                (sP)    13 59.16
LST    62.74 339 eP     12 18.94   -1.4
                epP     13 21.83 278kmX
LTX    62.93 323 iPd    12 19.75   -2.2
                epPd    13 21.83 274kmX
                (sP)    13 50.52
KDS    63.10  62 iPc    12 20.80   -2.4
ELC    63.26 339 ePc    12 21.25   -2.5
                epP     13 22.07 268kmX
GMTN   63.40 353 iP     12 24.90    0.3
LSCT   64.08 354 eP     12 27.55   -1.5
       1.3s   338.73nm          5.9mb
                e       12 34.69   23kmX
                e       13 29.05
FVM    64.29 339 ePd    12 28.37   -2.1
       0.8s   170.63nm          5.8mb
                ipP     13 31.59 278kmX
TUL    64.48 333 iP     12 30.70   -0.9
FNO    64.61 332 iPd    12 31.30   -1.2
CCM    64.63 338 ePd    12 41.11    8.5X
                (pP)    13 42.63 270kmX
                (sP)    14 11.33
HRV    64.76 355 eP     12 31.87   -1.4
       1.6s   273.29nm          5.7mb
                ipP     13 34.97 277kmX
WMOK   64.79 330 ePd    12 31.56   -2.1
       0.9s    46.63nm          5.2mb
                ipPd    13 33.64 272kmX
                esP     14 02.33
OCO    64.86 332 iPc    12 33.50   -0.6
BINY   64.91 352 eP     12 33.50   -0.9
       1.5s   468.18nm          6.0mb
                epP     13 35.83 273kmX
                e       14 46.54
NVL    65.04 159 iPc+   12 35.00    0.1
       1.0s   522.00nm          6.2mb
                ePcP    13 19.00
                epP     13 37.00 271kmX
                esP     14 05.00
                epPcP   14 22.00
                esPcP   14 55.00
                ePP     15 10.00
                iS      20 56.00
                e       21 10.00
                e       21 54.00
                eScS    22 04.00
                esS     22 42.00
                e       23 59.00
                eSS     25 12.00
                e       27 00.00
                eSSS    28 25.00
YSNY   65.56 350 ePc    12 37.00    [illegible]
       1.2s   277.09nm          [illegible]
                epP     13 39.00 [illegible]
                esPd    14 00.00
LIC    66.04  72 P      12 39.00    [illegible]
       0.7s   280.00nm          [illegible]
     Z 21s      1.50um          [illegible]
TIC    66.24  72 P      12 40.00    [illegible]
       0.8s   420.00nm          [illegible]
KIC    66.35  72 eP     12 41.53    [illegible]
       0.7s   909.00nm          [illegible]
STCO   66.38 350 P      12 42.56    [illegible]
TYNO   66.39 349 P      12 42.39    [illegible]
LBNH   66.51 355 eP     12 43.25    [illegible]
       1.0s   112.04nm          5.5mb
                epP     13 47.01 278kmX
ACO    66.58 331 iPd    12 43.50   -1.6
ACTO   66.92 349 P      12 45.61   -1.4
WLVO   66.95 350 P      12 45.94   -1.2
RSNY   67.06 353 eP     12 47.02   -0.8
       0.8s   126.10nm          5.7mb
LKO    67.12  69 Pd     12 46.21   -2.6
       0.8s   511.50nm          6.3mb
SPA    67.76 180 iPc    12 50.30   -2.0
       0.9s   249.09nm          5.9mb
LMN    67.91   1 eP     12 52.00   -1.1
                pP      13 55.00 274kmX
CHIE   68.05  45 iPc    12 53.00   -1.3
GAC    68.30 353 eP     12 54.00   -1.4
                pP      13 57.00 274kmX
TBT    68.72  45 ePc    12 56.88   -1.5
       0.9s   107.33nm          5.6mb
                epPc    13 57.85 264kmX
ALQ    68.75 325 ePc    12 58.80    0.1
       1.4s   168.84nm          5.6mb
                ipP     14 02.60 277kmX
ANMO   68.75 325 eP     12 57.43   -1.2
CBM    69.01 358 eP     12 58.91   -0.8
       1.2s   135.94nm          5.6mb
                epP     14 02.34 275kmX
TUC    69.23 320 ePd    13 02.19    0.7
       2.6s   422.48nm          5.7mb
                (pP)    14 03.16 263kmX
                (sP)    14 32.13
CFTV   71.09  47 iPc    13 12.00   -0.8
GLD    71.85 329 ePc    13 17.90    0.7
       1.1s    49.09nm          5.1mb
                ipP     14 21.87 276kmX
                e       14 36.92
GOL    71.88 329 ePd    13 16.48   -1.0
       0.8s    85.48nm          5.5mb
                ipPd    14 19.38 271kmX
                isPc    14 50.28
GLA    72.18 318 eP     13 19.18    0.1
                ipP     14 24.40 282kmX
PV08   72.64 326 eP     13 22.05    0.0
                epP     14 26.96 280kmX
PV10   72.70 326 eP     13 22.10   -0.1
                e       13 37.25
                epP     14 27.17 281kmX
PV09   72.84 326 ePc    13 23.75    0.6
                epP     14 28.75 280kmX
PFO    73.56 318 eP     13 27.08   -0.1
                (pP)    14 29.15 266kmX
                (sP)    14 57.85
PLM    73.65 317 eP     13 28.16    0.4
                ipP     14 33.56 282kmX
SRU    74.02 325 eP     13 29.84    0.0
                e       14 21.05
                epP     14 34.31 277kmX
TUH    74.17 120 iPc    13 29.00   -1.7
       1.0s   390.00nm          6.1mb
PEC    74.19 318 ePd    13 31.03    0.3
       0.6s    19.38nm          5.0mb
                epP     14 36.06 280kmX
                i       14 49.45
MSU    74.47 324 ePc    13 33.36    0.9
                ipP     14 38.52 280kmX
APUT   74.65 323 ePc    13 34.66    1.3
                e       13 41.07
                ipP     14 39.11 277kmX
                e       14 46.73
[illegible]    74.69 326 eP     13 34.44    0.8
                epP     14 38.94 277kmX
[illegible]    74.73 318 eP     13 34.72    0.7
                e       13 42.96
                epP     14 39.85 280kmX
[illegible]    74.80 333 ePc    13 34.13    0.0
       0.9s    56.82nm          5.3mb
                epP     14 37.76 273kmX
[illegible]    74.91 319 ePd    13 35.63    0.8
                ipPd    14 38.53 269kmX
                esPc    15 08.61
[illegible]    75.45 190 iPd    13 39.50    2.3X
                S       23 02.00
WIN    75.66 109 iPc    13 38.00   -1.5
       0.4s   351.00nm          6.4mb
                i       16 28.50
[illegible]    75.68 321 eP     13 39.72    0.5
       0.9s    99.55nm          5.5mb
                epP     14 46.60 287kmX
SUR    75.78 119 iPc    13 42.00    1.9
       1.5s   380.00nm          5.9mb
DUG    76.02 325 iPd    13 41.44    0.4
       1.2s   106.47nm          5.4mb
                ipPd    14 44.90 271kmX
                esP     15 13.59
ABL    76.10 317 eP     13 41.65   -0.1
                ipP     14 47.63 283kmX
ISA    76.17 318 eP     13 43.08    1.3
       0.9s    65.78nm          5.4mb
                ipP     14 48.70 281kmX
JHA    76.30  47 iP     13 43.50    1.0
JAQ    76.33 354 eP     13 40.50   -1.7
                pP      14 45.00 276kmX
RUV    76.59 259 iPd    13 49.30    4.9X
       1.2s   118.40nm          5.5mb
CIA    76.65  48 iP     13 45.50    1.1
VAH    76.79 259 iPd    13 48.30    2.7X
       1.3s   213.70nm          5.7mb
BCH    76.86 317 eP     13 46.13    0.4
                epP     14 50.52 275kmX
TPT    76.87 259 iPd    13 48.90    2.9X
       0.8s   139.20nm          5.7mb
ULM    77.00 341 eP     13 47.50    1.5
TNP    77.01 321 ePc    13 47.56    0.9
       0.8s    25.02nm          5.0mb
OUK    77.06  48 iP     13 48.00    1.3
PMO    77.11 259 iPd    13 47.90    0.6
       1.4s   169.90nm          5.6mb
HVU    77.14 326 eP     13 47.72    0.6
                ipP     14 52.38 276kmX
BEW    77.20 120 iPc    13 46.90   -0.9
       0.5s   108.00nm          5.8mb
MTUM   77.33 320 eP     13 48.85    0.5
                epP     14 54.20 279kmX
TVO    77.40 256 iPd    13 51.80    2.8X
       0.9s   154.00nm          5.7mb
BONR   77.57 320 eP     13 50.21    0.4
                e       14 36.36
                epP     14 58.44 292kmX
PAE    77.74 256 iPd    13 53.30    2.6X
       0.8s    80.90nm          5.5mb
PPT    77.77 256 P      13 52.50    1.6
MMPM   77.77 319 eP     13 51.62    0.6
PKA    78.21 117 iPc    13 53.40    0.0
       1.2s   300.00nm          5.9mb
AVE    78.61  47 iPc    13 55.50    0.3
                i       14 59.50 271kmX
SAO    78.71 318 eP     13 56.33    0.7
       1.1s    30.00nm          5.0mb
                epPc    15 01.98 279kmX
                isPc    15 30.99
                iS      23 33.99
                isS     25 23.99
                iSS     28 58.99
                esSS    30 41.99
                eLQ     35 32.99
CMB    78.87 319 ePc    13 56.90    0.4
       1.0s    20.00nm          4.8mb X
                epPc    15 02.15 277kmX
                isPc    15 30.31
                iS      23 38.31
                epS     24 48.31
                isS     25 27.31
                iSS     28 58.31
                isSS    30 41.31
                eLQ     32 53.31
ARN    79.14 318 eP     13 59.10    1.1
                ipP     15 04.81 279kmX
COE    79.17 318 eP     13 59.42    1.3
                epP     15 04.73 277kmX
MHC    79.20 318 ePc    13 59.54    1.1
       1.6s   150.00nm          5.5mb
                epPc    15 05.34 279kmX
                isPc    15 30.19
                iS      23 41.19
                ipS     24 57.19
                isS     25 35.19
                iSS     29 07.19
STAN   79.57 318 eP     13 58.71   -1.5
                ipPd    15 03.71 275kmX
                isPc    15 37.71
                iS      23 44.71
                isS     25 55.71
TNF    79.59  48 iP     14 02.00    1.6
BKS    79.90 318 ePc    14 02.74    0.8
       1.5s   110.00nm          5.4mb
```

19d 04h

```
                 epPc  15 08.89 280kmX
                 isPc  15 37.09
                 iS    23 47.09
                 isS   25 48.09
                 eSS   29 17.09
                 esSS  30 50.09
LRM     79.91 329 ePd  14 02.30   0.1
                 e     15 08.70 282kmX
GRM     80.07 122 eP   14 03.40   0.3
        0.8s   769.00nm        6.5mb
FRS     80.29 118 iPc  14 01.10  -3.1X
        1.5s   875.00nm        6.3mb
IFR     80.29  48 iPd  14 05.50   1.2
NTYM    80.48 318 eP   14 05.40   0.5
ORV     80.51 320 iPd  14 05.67   0.6
        1.3s   110.00nm        5.5mb
                 epPc  15 10.86 276kmX
                 isPc  15 41.67
                 ePPc  17 11.67
                 ipPPc 18 20.67
                 iS    23 54.67
                 ipS   25 17.67
                 isS   25 49.67
                 eSS   29 21.67
                 esSS  31 04.67
                 eLQ   34 46.67
BMK     80.62  46 iP   14 11.50   5.8X
BOSA    80.76 117 ePc  14 05.54  -1.1
        1.0s   354.54nm        6.1mb
                 epP   15 10.15 273kmX
MIN     81.07 320 eP   14 05.59  -2.6
                 ipPd  15 13.70 289kmX
                 iS    23 59.70
                 isS   25 59.70
                 eSS   29 08.70
                 esSS  31 06.70
                 iSKKPd36 19.70
                 eLQ   38 54.70
LMEM    81.17 320 (P)  14 09.19   0.4
NKM     81.21  46 iPd  14 10.00   1.2
                 i     15 14.00 270kmX
BLF     81.22 118 iPc  14 09.70   0.4
        1.0s   640.00nm        6.4mb
PLAT    81.36  45 iP   14 11.00   1.4
MOMI    81.51  45 eP   14 12.00   1.6
EVAL    81.58  44 iPc  14 11.05   0.3
GIBL    81.65  45 eP   14 13.00   1.9
WDC     81.77 320 eP   14 10.32  -1.3
        0.5s    22.90nm        5.2mb
ALJ     81.79  45 eP   14 13.00   1.1
LBFM    81.87 321 eP   14 12.55   0.1
                 epP   15 18.96 280kmX
LGPM    82.15 320 eP   14 13.52  -0.2
                 epP   15 19.55 278kmX
EPRU    82.20  45 iPc  14 14.73   0.8
YBH     82.59 321 iPc  14 15.41  -0.5
        0.9s    10.00nm        4.6mb X
                 epP   15 21.61 279kmX
                 esPc  15 48.52
                 eS    24 07.52
                 isS   26 07.52
KMPM    82.62 319 eP   14 17.16   1.1
                 epP   15 22.16 273kmX
SEK     82.68 117 iPc  14 09.00  -7.9X
        0.8s   360.00nm        6.2mb
EHOR    82.69  44 iPc  14 16.33   0.0
MAW     82.69 162 iP   14 17.00   1.0
        1.0s   145.83nm        5.7mb
FHC     82.77 320 eP   14 18.16   1.4
        0.8s    65.12nm        5.5mb
                 ipP   15 26.04 286kmX
LNOR    82.85 326 P    14 17.11   0.0
ARC     82.87 320 ePc  14 18.28   1.1
        1.5s   180.00nm        5.6mb
                 ipPc  15 29.89 304kmX
                 esPc  15 50.89
                 iS    24 19.89
                 isS   26 09.89
                 iSS   29 56.89
                 esSS  31 15.89
ELUQ    83.17  45 iPc  14 19.57   0.7
VIPM    83.18 324 P    14 20.34   1.4
EGUA    83.22  46 iPd  14 18.81  -0.3
JBO     83.38 325 P    14 21.41   1.6
ECOG    83.47  45 iPd  14 20.37  -0.1
EPLA    83.47  42 iPc  14 20.83   0.5
CROR    83.69 324 P    14 22.94   1.6
STS     83.70  39 iPd  14 22.18   0.8
EBAN    83.83  45 iPc  14 22.65   0.5
NEW     83.89 328 eP   14 21.99  -0.3
        0.8s    26.19nm        5.1mb
                 epP   15 27.14 273kmX
VGB     83.92 325 eP   14 23.09   0.6
WAH2    84.10 326 P    14 24.35   1.1
FCC     84.12 346 eP   14 24.00   0.9
DPW     84.16 328 eP   14 24.12   0.5
                 epP   15 30.33 278kmX
SLR     84.17 115 iPc  14 22.50  -1.9
        1.0s   230.00nm        6.0mb
      Z  18s     3.09um        5.7Msz
ENIJ    84.20  46 iPd  14 23.86  -0.2
ERUA    84.22  40 iPc  14 24.66   0.7
EHUE    84.41  45 iPc  14 24.46  -0.7
SSOR    84.41 323 P    14 25.25   0.2
SAW     84.64 327 P    14 26.65   0.6
EBG     84.72 326 P    14 27.70   1.3
ASR     84.76 325 P    14 27.86   1.1
WTV     84.92 327 P    14 28.11   0.7
EVIA    84.93  45 iPc  14 27.79   0.1
GUD     85.01  42 iPd  14 28.21   0.1
SHW     85.14 325 ePc  14 30.27   1.6
                 e     14 38.38
                 epP   15 36.00 275kmX
EALH    85.21  46 iPd  14 28.89  -0.1
LON     85.26 325 eP   14 28.58  -0.6
                 epP   15 35.76 282kmX
FMW     85.31 325 P    14 29.84   0.3
KMOR    85.47 324 P    14 31.86   1.7
RAR     85.48 249 eP   14 30.97   0.3
BFT     85.66 116 iPc  14 39.50   7.6X
        1.3s   130.00nm        5.6mb
RMW     85.72 326 eP   14 30.99  -0.4
BMW     85.85 324 eP   14 32.28   0.3
                 pP    15 39.39 281kmX
FRB     85.86 359 eP   14 31.50   0.0
        0.9s    13.00nm        4.8mb X
ACU     86.23  46 iPd  14 34.44   0.4
JCW     86.25 326 P    14 33.80  -0.1
ETOR    86.42  43 iPc  14 35.89   0.9
ECHE    86.45  45 iPd  14 36.01   1.0
BUL     86.56 110 iPd  14 36.50   0.3
                 i     15 42.00 273kmX
                 iPP   17 59.00
                 iS    24 42.00
MCW     87.02 326 eP   14 38.06   0.5
                 epP   15 44.91 279kmX
STW     87.13 325 P    14 39.33   1.3
ECRI    87.13  41 iPc  14 39.00   0.7
EROQ    88.00  44 iPc  14 43.13   0.7
ELIZ    88.04  41 iPd  14 42.60   0.0
EGRA    88.27  43 iPc  14 46.02   2.4X
BOH     88.33  42 P    14 44.72   0.7
ELYF    88.37  42 P    14 44.31   0.1
ISSF    88.42  42 P    14 44.81   0.3
LHE     88.46  42 P    14 45.09   0.4
MADF    88.47  42 P    14 44.25  -0.3
ATE     88.51  42 P    14 44.92   0.1
VAL     88.54  31 iP   14 45.10   0.5
        1.1s     1.90nm        3.9mb X
OGE     88.69  42 P    14 45.94   0.3
KRI     88.70 108 iPd  14 45.50  -1.0
                 i     15 49.10 263kmX
                 i     18 11.90
                 iS    24 51.20
ENSF    89.00  42 P    14 48.39   1.2
ESEL    89.08  46 iPc  14 47.61   0.1
SALF    89.51  43 P    14 51.06   1.5
PAND    89.61  43 P    14 51.23   1.1
LESF    89.71  43 P    14 51.27   0.9
GRBF    89.77  43 P    14 50.90   0.2
TRGS    89.87  43 P    14 52.29   1.0
LSPF    90.06  43 P    14 52.55   0.6
VDCF    90.17  43 P    14 53.47   1.0
ETER    90.33  44 iPd  14 54.12   0.9
PERF    90.44  44 P    14 54.21   0.5
MTHF    90.45  43 P    14 54.27   0.5
DCN     90.83  31 iPc  14 54.70  -0.5
        1.6s   536.00nm        6.2mb
DLF     91.16  31 iPc  14 56.40  -0.3
        1.4s   428.00nm        6.2mb
CRZF    91.46 142 eP   15 00.00   1.5
                 eS    26 35.00
CSY     91.57 179 iPc  15 05.20   6.6X
        0.9s    98.00nm        5.8mb
HCG     92.00  33 eP   15 00.10  -0.5
HGH     92.04  34 eP   15 00.60  -0.2
LBL     92.05  41 P    15 01.49   0.3
HTR     92.05  33 eP   15 00.40  -0.5
PYM     92.16  41 P    15 01.63   0.0
AGO     92.39  41 P    15 02.49  -0.1
HAE     92.40  34 eP   15 02.20  -0.3
COLF    92.47  41 P    15 03.13   0.1
PLDF    92.65  41 P    15 03.73  -0.1
SSB     92.87  42 P    15 05.12   0.2
YKA     92.94 340 eP   15 04.90   0.2
        0.7s    35.40nm        5.5mb
CALN    93.62  44 P    15 09.22   0.7
REVF    93.92  44 P    15 10.06   0.3
ESK     93.93  31 eP   15 09.00  -0.4
        1.5s   200.00nm        6.0mb
EKA     93.96  31 Pc   15 09.10  -0.4
        1.5s   131.60nm        5.8mb
AURF    93.97  44 P    15 10.52   0.5
TOUF    93.97  44 P    15 10.52   0.3
SBF     94.02  44 P    15 10.52   0.3
AUTN    94.08  44 P    15 10.97   0.3
BNI     94.09  43 P    15 11.39   0.8
        1.4s   112.50nm        5.8mb
RRL     94.10  43 P    15 11.04   0.3
PZZ     94.11  43 P    15 11.14   0.4
STV     94.13  44 P    15 10.91   0.2
SAOF    94.16  44 P    15 11.19   0.4
ENR     94.18  44 P    15 10.59  -0.4
DOI     94.20  43 P    15 11.63   0.6
        1.3s   136.80nm        5.9mb
IMI     94.34  44 P    15 11.64  -0.1
BHB     94.36  43 P    15 11.82   0.1
PGF     94.45  46 P    15 12.27   0.0
ROB     94.50  44 P    15 12.51   0.1
RSP     94.50  43 P    15 13.33   0.8
LSD     94.58  43 P    15 13.65   0.6
FIN     94.68  44 P    15 13.15  -0.1
EMS     94.72  42 ePc   15 14.20   0.6
CKI     94.82  44 P    15 14.18   0.4
        1.5s   260.30nm        6.2mb
CVT     95.01  51 P    15 16.95   2.2
        1.3s   723.60nm        6.7mb
DIX     95.02  42 ePc   15 15.90   0.8
PCP     95.04  44 P    15 14.66  -0.2
VITF    95.14  40 P    15 15.08  -0.1
ORO     95.17  43 P    15 15.27  -0.3
        1.0s    30.20nm        5.4mb
DOU     95.23  38 iPd  15 15.80   0.3
        1.3s   485.70nm        6.5mb
LOMF    95.25  41 P    15 15.83   0.0
SNF     95.26  37 iPc  15 15.52  -0.1
MMK     95.35  42 ePc  15 17.30   0.8
UCC     95.44  37 iP+  15 16.00  -0.4
FAI     95.48  52 P    15 19.68   2.7X
        1.7s   200.00nm        6.0mb
MOF     95.66  40 P    15 17.43  -0.2
BBS     95.71  41 P    15 18.01   0.2
VAI     95.77  43 P    15 17.20  -0.8
        1.3s   790.80nm        6.8mb
ECH     95.84  40 P    15 18.41   0.0
WLF     95.92  38 iPc  15 19.06   0.5
        1.4s   129.50nm        6.0mb
TMA     95.94  42 ePc  15 18.80  -0.3
CDF     96.00  40 P    15 19.02  -0.2
GIB     96.03  51 P    15 20.04   0.5
        0.8s    31.30nm        5.6mb
WLS     96.05  40 P    15 19.36   0.0
LIBD    96.08  40 P    15 19.65   0.3
FEL     96.20  41 P    15 20.03  -0.1
ZLA     96.25  41 ePc  15 20.60   0.3
PZI     96.30  53 P    15 22.25   1.5
        1.8s   224.80nm        6.1mb
ENN     96.30  37 iPc  15 20.00  -0.3
        1.3s   173.90nm        6.1mb
MDI     96.33  43 P    15 20.20  -0.3
        1.2s   115.90nm        6.0mb
LLS     96.35  42 ePc  15 21.30   0.3
STR     96.36  40 P    15 21.00   0.4
SLE     96.44  41 ePc  15 21.20   0.1
FIR     96.47  45 eP   15 21.00  -0.2
VDL     96.48  42 ePc  15 21.90   0.4
DBN     96.51  36 eP   15 22.00   0.8
      Z  20s     0.20um        4.6Msz
                 e     19 12.00
                 e     20 12.00
                 e     25 32.00
```

```
LANF   96.57  40 P     15 21.81   0.2
RDP    96.62  48 P     15 23.19   1.1
       1.1s   179.90nm          6.2mb
HOFF   96.64  40 P     15 22.35   0.5
MNS    96.85  47 P     15 23.70   0.6
       1.4s   418.50nm          6.5mb
OSS    96.99  42 ePc   15 24.00   0.2
AQU    97.33  47 P     15 26.21   1.0
       1.2s   213.00nm          6.3mb
SDI    97.35  48 P     15 25.77   0.4
       1.3s   113.90nm          6.0mb
WTS    97.36  37 iPc   15 25.40   0.4
       1.1s   129.30nm          6.1mb
GMB    97.43  52 P     15 25.87   0.0
TNS    97.49  39 ePc   15 26.20   0.4
                e      19 23.50
SOI    97.53  52 P     15 26.87   0.7
       2.0s    90.60nm          5.7mb
OGA    97.61  42 iPc   15 27.00   0.4
       1.2s   260.00nm          6.4mb
WIT    97.65  36 eP    15 27.50   1.2
                e      16 33.00 271kmX
DUI    97.78  48 P     15 28.47   1.2
       1.3s    65.40nm          5.8mb
MOTA   97.86  42 iPd   15 27.30  -0.3
       1.2s   263.00nm          6.4mb
                i      15 28.50   4kmX
                i      15 38.50
                i      19 22.40
                i      19 28.60
                i      19 38.20
                i      25 47.40
SQTA   97.87  42 iPd   15 27.50  -0.2
       1.2s   353.00nm          6.6mb
                i      15 28.70
                i      15 36.60
                i      16 29.40
                ipP    16 34.60 278kmX
                iPP    19 21.30
                i      25 42.00
SGO    97.95  49 P     15 25.87  -2.1
       1.5s   108.80nm          6.0mb
MGR    97.96  50 P     15 28.51   0.5
       1.4s   248.90nm          6.3mb
GRI    98.08  51 P     15 28.79   0.1
       1.4s    65.10nm          5.8mb
WATA   98.15  42 iPd   15 28.60  -0.3
                i      15 29.80   4kmX
                i      15 36.20
                i      16 34.90
                i      19 27.10
WTTA   98.16  42 iPd   15 28.80  -0.2
       1.2s   300.00nm          6.5mb
                i      15 30.00
                i      15 36.00
                ipP    16 36.40 280kmX
                i      19 27.10
                i      19 34.50
FUR    98.30  41 ePDIFc15 30.10   0.6
                epP    16 31.90 254kmX
                ePP    19 28.70
                eSKS   25 47.20
                eSS    33 18.00
ORI    98.57  50 P     15 30.64  -0.2
FVI    98.60  43 P     15 31.59   0.8
       1.4s   133.60nm          6.1mb
RES    98.61 353 eP    15 29.00  -1.3
       1.0s     3.00nm          4.6mb X
GRF    98.89  40 iPDIF 15 32.80   0.7
       1.3s   146.00nm          6.2mb
                esP    17 06.00
                ePP    19 33.00
                iSKS   25 50.00
                eS     26 35.00
                esSKS  27 51.00
                epS    27 54.00
                ePS    28 36.00
                eSKKS  39 01.00
VOY    99.09  44 ePDIF 15 34.30   1.0
                e      18 17.80
                ePP    19 33.50
BHG    99.11  42 eP    15 33.30   0.1
       1.7s   252.00nm          6.4mb
                e      19 34.60
KBA    99.15  43 iPd   15 32.70  -0.9
       1.3s   101.00nm          6.1mb
                i      15 34.00
                i      15 40.80
                ipP    16 40.80 283kmX
                iPP    19 34.70
                i      25 48.30
MOX    99.51  39 eP    15 35.60   0.7
       1.6s    98.00nm          6.0mb
                esP    17 14.00
                eSKS   25 52.00
LJU    99.51  44 ePDIF 15 35.00   0.0
                epP    16 28.50 217kmX
                e      19 10.20
                ePP    19 30.00
WET    99.67  41 iPc   15 36.10   0.4
       1.3s   150.00nm          6.3mb
                i      19 40.70
VBY    99.78  45 iPDIFc15 36.80   0.6
GEC2  100.05  41 Pdiff 15 36.50  -1.1
       1.3s    42.33nm          5.7mb
                PP     19 43.50
                e      32 23.00
KHC   100.09  41 iPdiff15 37.60  -0.1
       1.3s    54.00nm          5.8mb
                e      16 04.00
                e      19 34.00
                ePP    19 40.50
                e      20 18.00
                e      25 54.00
ZAG   100.37  45 ePdiff15 35.00  -3.9X
PTJ   100.38  45 ePdiff15 40.10   1.0
MUD   100.55  33 iPdiff15 37.50  -1.9
       1.2s    66.00nm          6.0mb
CLL   100.58  39 iPdiff15 40.00   0.3
       1.7s   125.00nm          6.1mb
                e(S)   25 55.00
HCY   100.87  49 iPdiff15 41.86   0.6
BRG   100.96  39 iPdiff15 41.40   0.0
       1.4s    68.00nm          6.0mb
                e      26 06.00
PRU   100.99  40 Pdiffc15 41.80   0.2
       1.4s   365.00nm          6.7mb
                PP     19 49.40
                SKS    25 56.60
BDV   101.04  49 iPdiff15 42.85   0.8
BRY   101.05  48 iPdiff15 43.04   0.8
ULC   101.22  49 iPdiff15 43.83   1.0
NKY   101.34  48 iPdiff15 44.62   1.2
TTG   101.39  49 iPdiff15 44.62   1.1
SOP   101.40  43 ePdiff15 44.00   0.5
PLE   101.78  48 iPdiff15 46.33   0.9
ZST   101.93  43 ePdiff15 45.70  -0.1
                i      19 52.80
                e      21 23.50
PVY   101.94  49 iPdiff15 47.53   1.4
IVA   101.98  49 iPdiff15 47.47   1.2
OHR   102.04  50 iPdiff15 47.30   0.8
                iSKS   25 55.00
KSP   102.34  40 ePdiff15 45.00  -2.6
       1.2s    43.00nm          5.9mb
                id     15 48.60
                e      19 55.70
                e      20 00.90
INK   102.71 339 ePdiff15 49.50   0.8
       0.8s     2.00nm          4.8mb X
SKO   102.77  50 iPdiff15 48.00  -1.7
                iPP    20 02.00
                iSKS   26 04.80
MBC   103.62 349 ePdiff15 56.60   4.0X
                PP     20 18.90
                S      27 12.50
                SS     29 17.90
                PS     29 41.00
                PPS    30 24.50
                PKKP   31 52.80
                SS     34 30.10
                SKKP   34 51.60
                PKKS   35 17.10
                PcPP'  36 11.10
                SSS    38 30.30
                P'P'   40 08.90
BZS   104.02  46 ePdiff15 47.50  -7.6X
KLU   104.75 331 ePdiff15 57.81  -0.3
UZH   105.35  43 ePdiff16 02.50   1.6
MTUR  106.24  47 ePKP  20 00.00 -15.4X
COL   106.63 334 ePdiff16 06.61   0.3
       0.6s     3.39nm          5.7mb
FBA   106.63 334 ePdiff16 06.18  -0.1
       0.9s     4.48nm          5.7mb
OBN   115.19  38 ePKP  20 29.20  -2.8
      Z  18s   470.20um          8.1MszX
      N  19s   134.00um
                e      20 39.20
                ePP    21 16.90
                epPKP  21 31.10
                e      21 37.80
                esPKP  21 55.30
                iSKS   26 48.00
                epSKS  28 08.10
                esSKS  28 49.20
                ePS    30 51.70
                e      32 13.20
                (SS)   35 49.50
ERE   119.42  55 iPKP  20 41.00   0.3
                i      22 06.00
                i      27 15.00
MTA   119.78  54 ePKP  20 41.00  -0.1
                e      21 54.00
                e      22 09.00
                e      27 16.00
STK   119.94 207 iPKPd 20 42.40   0.6
       8.0s     9.90nm
GRO   120.54  52 ePKP  20 44.00   1.5
                i      22 12.00
TAB   120.64  58 ePKP  20 44.00   0.9
SHI   124.80  69 ePKP  20 52.00   0.5
NWAO  124.92 183 iPKPd 20 51.80   0.4
       1.0s    56.00nm
FORT  125.46 195 iPKPc 20 53.20   0.7
       0.8s    29.00nm
SMY   125.54 320 (Pdiff17 34.26   3.8X
KLB   126.22 184 iPKPd 20 54.30   0.3
       1.0s    74.00nm
BAL   127.26 183 iPKPd 20 56.20   0.3
       1.0s    83.00nm
ARU   127.35  35 ePKP  20 56.00   0.7
                e      22 56.00
CTAO  127.35 219 ePKP  20 56.86   0.5
SVE   128.29  34 ePKPc 20 58.00   0.9
       2.2s    60.00nm
MRWA  128.67 182 ePKP  20 59.10   0.4
       1.0s    37.00nm
TIK   129.99 354 iPKPc 20 58.00  -1.8
       1.0s    19.00nm
      Z  20s     0.40um          5.1Msz
ASH   130.12  59 ePKP  20 59.00  -2.1
                e      22 11.00
                e      23 15.00
NRI   130.44  12 ePKPc 21 02.00   1.3
       1.7s    43.00nm
                e      23 23.00
MAIO  131.07  61 iPKPc 21 04.00   0.9
       1.0s    22.50nm
                e      22 13.00
                e      23 21.00
WR2   133.48 207 ePKP  20 52.70 -15.3X
       1.2s     3.40nm
WR2   133.48 207 ePKP  21 08.80   0.8
                iSKP   24 12.10
                eSKKP  32 09.60
WB5   133.54 207 ePKP  20 52.90 -15.3X
WB5   133.54 207 iPKPd 21 08.30   0.1
                i      21 09.80
                e      23 06.10
                iSKP   24 11.90
PMG   134.70 229 ePKP  21 12.50   2.0
YAK   138.95 349 ePKP  21 14.80  -2.2
       1.1s    50.00nm
MTN   141.19 207 ePKP  21 15.50  -6.9X
       0.3s    41.00nm
FRU   141.49  49 iPKPd 21 18.00  -4.3X
       2.0s   180.00nm
                e      21 21.00
                e      24 24.00
POO   142.24  88 ePKP  21 21.00  -3.3X
KSH   143.50  53 PKP   21 22.00  -4.0X
      Z  24s     1.21um          5.6MszX
      N  18s     0.96um
      E  18s     1.27um
                PKPab  21 24.00
                PP     24 37.00
                PKS    24 58.00
GBA   144.20  98 PKPc  21 25.00  -2.6
YSS   146.27 324 iPKPd 21 31.50   1.4
       1.0s   110.00nm
                e      23 37.00
```

19d 04h

NDI	146.29	72	iPKP	21	32.00	1.2
			iPP	22	40.00	
KUSJ	147.22	316	PKP	21	32.20	0.4
ASAJ	147.98	319	PKP	21	34.70	1.7
HOOJ	148.49	316	ePKP	21	38.10	4.3X
IRK	149.23	12	ePKP	21	35.00	0.3
	2.0s	232.00nm				
			e	21	44.00	
GUA	149.38	259	ePKP	21	40.20	4.2X
	1.0s	224.00nm				
GUMO	149.44	259	ePKP	21	41.00	4.9X
	1.1s	276.60nm				
GUMO	149.44	259	(PKP)	21	35.36	-0.7
			ePKPbc	21	40.52	
PJG	149.44	259	ePKP	21	40.90	4.8X
WMQ	149.50	39	PKP	21	36.10	0.6
			SKKS	31	41.00	
MRRJ	149.86	318	PKP	21	41.90	6.0X
LEM	150.30	167	iPKPd	21	45.50	7.9X
CIT	150.43	1	ePKP	21	40.00	3.4X
OFUJ	151.15	312	PKP	21	44.80	6.8X
YAMJ	152.70	311	ePKP	21	48.60	8.3X
GKN	152.86	72	PKP	21	41.80	0.8
DMN	153.31	73	PKP	21	43.00	1.2
KKN	153.44	72	PKP	21	43.20	1.3
PKI	153.58	73	PKP	21	42.40	0.2
GUN	153.96	72	PKP	21	43.60	0.8
MDJ	154.39	334	ePKP	21	43.20	0.9
MAJO	154.74	309	ePKP	21	43.44	0.3
			ePKPbc	21	52.31	
			ePKPab	22	08.39	
MAT	154.74	309	(PKP)	21	44.00	0.9
LSA	158.21	66	PKP	21	46.60	-1.7
			SKKS	32	24.00	
GTA	159.14	32	PKPc	21	50.00	1.4
	Z 26s	0.87um				5.5MszX
	E 14s	0.35um				
			pPKP	22	59.20	
			SKKS	32	30.00	
SNG	160.11	137	ePKP	21	42.00	-8.2X
HHC	161.47	6	PKP	21	52.50	1.6
	Z 26s	0.71um				
			PKPab	22	38.00	
			pPKP	23	04.50	
			PP	26	21.50	
			SS	46	15.00	
BTO	161.52	10	PKP	21	52.00	1.0
BJI	162.30	355	ePKP	21	53.00	1.4
	Z 24s	0.57um				
			ePP	26	22.00	
			eSS	46	16.00	
LZH	163.72	31	PKP	21	55.00	1.6
			e	22	46.00	
			pPKP	23	06.00	
			sPKP	23	35.00	
			PP	26	30.00	
			SKKS	32	50.00	
			SS	46	32.00	
TIY	164.65	5	PKPc	21	55.90	1.8
CHTO	165.44	101	ePKPc	21	56.40	1.3
	1.2s	18.40nm				
			e	22	55.60	
TIA	165.95	350	ePKP	21	56.50	1.4
	E 10s	0.90um				
CD2	167.49	45	ePKP	21	58.00	1.5
			pPKP	23	04.80	
XAN	167.54	20	PKPc	21	58.00	[illegible]
			pPKP	23	04.50	
SSE	169.22	325	ePKP	21	39.50	[illegible]
	6.0s	0.50nm				
	Z 20s	0.60um				
			PP	26	56.00	
			eSKKS	33	22.00	
			SS	47	35.00	
GYA	172.16	57	PKP	22	00.60	[illegible]
			pPKP	23	11.40	
	S.D. = 1.1	on 416 of 4[illegible]				

& OCT 19, 1993 04h 47m 03 [illegible]
37.526 N 118.889 W
DEPTH = 5.4km
CALIFORNIA-NEVADA BORDER REGION 4
<GM-P>. MD 3.7 (GM). ML 3.[illegible]
(BRK). Felt (IV) at June Lake
and (III) at North Fork.
California. Also felt at Mammoth
Lakes, California.

MMPM	0.14	307	iPc	47	06.90	0.0
MEMM	0.15	344	eP	47	07.13	0.3
MTUM	0.31	124	iPc	47	09.98	-0.2
MRCM	0.34	64	iPc	47	10.59	-0.1
BHPR	0.39	125	P	47	11.67	-0.1
BONR	0.63	47	iPc	47	16.04	-0.5
FRI	0.84	231	iP	47	19.88	-0.7
CMB	1.29	294	eP	47	27.50	-0.7
			eS	47	44.45	
MOYM	1.38	286	P	47	29.23	-0.5
TNP	1.44	67	iPc	47	30.85	0.1
PWMM	1.52	225	P	47	32.79	1.1
PHBM	1.59	217	P	47	34.02	1.3
KVN	1.64	22	eP	47	34.88	1.2
MNHM	1.64	293	P	47	33.88	0.4
PDRM	1.68	225	P	47	35.20	1.2
BRMM	1.69	247	P	47	35.50	1.3
PARM	1.73	223	P	47	36.02	1.3
PKEM	1.76	214	eP	47	36.55	1.4
			eS	47	58.07	
ADWM	1.80	301	P	47	36.38	0.7
PRCM	1.88	228	P	47	38.04	1.1
ISA	1.89	170	ePc	47	38.27	1.2
			eS	48	03.26	
PCRM	1.89	221	P	47	38.11	1.0
ASMM	1.92	313	P	47	38.97	1.4
HVC	1.93	234	P	47	38.60	1.0
ALAM	1.93	303	P	47	39.00	1.3
CTM	1.97	217	P	47	39.97	1.7
AASM	1.97	298	P	47	39.66	1.5
PCL	1.97	257	P	47	39.36	1.2
WOFM	1.99	176	P	47	40.16	1.5
PSMM	2.00	224	P	47	39.77	1.1
PTV	2.04	227	P	47	40.88	1.6
HJSM	2.05	251	P	47	40.68	1.3
PSTM	2.06	220	P	47	40.79	1.3
SFL	2.08	256	P	47	41.29	1.6
PAGM	2.10	212	P	47	41.02	1.0
ARN	2.11	266	eP	47	41.51	1.2
			eS	48	09.05	
BCGM	2.12	248	P	47	42.45	2.0
HSPM	2.13	260	P	47	42.18	1.6
LRC	2.15	234	P	47	43.02	2.3
PTRM	2.15	210	P	47	41.97	1.1
WKR	2.15	218	P	47	42.06	1.3
PMCM	2.16	214	P	47	41.97	1.0
AFDM	2.17	312	P	47	43.25	2.1
AHRM	2.17	308	P	47	39.09	-2.0
OCR	2.18	255	P	47	44.65	3.5
SAO	2.18	250	eP	47	42.30	1.1
			eS	48	10.65	
ARRM	2.18	305	P	47	43.22	1.9
TPNM	2.18	104	ePc	47	41.07	-0.4
PSAM	2.20	228	P	47	42.66	1.2
MHC	2.20	266	eP	47	42.99	1.4
			eS	48	11.35	
COE	2.23	264	eP	47	43.88	1.9
			eS	48	13.65	
YEG	2.26	203	P	47	43.93	1.5
HGWM	2.26	258	P	47	44.22	1.8
BSRM	2.27	249	P	47	43.70	1.1
APRM	2.28	307	P	47	44.52	1.9
CVAL	2.28	273	P	47	44.64	1.9
AFRM	2.31	304	P	47	45.12	2.0
PFS	2.32	240	iP	47	44.30	1.1
ALAM	2.35	307	P	47	46.31	2.6
[illegible]	2.37	271	P	47	45.66	1.7
[illegible]	2.38	197	P	47	46.54	2.4
[illegible]	2.38	224	P	47	45.47	1.3
[illegible]	2.39	286	eP	47	45.32	1.1
[illegible]	2.46	221	P	47	46.64	1.3
[illegible]	2.47	213	P	47	46.22	0.8
[illegible]	2.53	203	eP	47	46.89	0.6
[illegible]	2.62	268	eP	47	48.86	1.4
[illegible]	2.62	316	P	47	44.64	-2.9
[illegible]	2.67	279	P	47	50.11	1.9
[illegible]	2.68	279	eP	47	49.68	1.3
			eS	48	22.91	
[illegible]	2.68	186	eP	47	49.63	1.0
[illegible]	2.69	298	P	47	51.97	3.5
[illegible]	2.78	142	ePc	47	49.80	-0.2
[illegible]	2.88	316	eP	47	54.15	2.9
			eS	48	32.34	
NTYM	3.10	287	eP	47	55.20	0.9
NCLM	3.13	281	P	47	55.72	1.0
MAC	3.20	290	P	47	59.00	3.4
GWYM	3.22	299	P	47	59.97	3.9

GRTM	3.29	297	P	47	59.14	2.0
GSGM	3.29	295	P	47	59.14	1.9
SSK	3.45	163	eP	47	59.14	-0.3
SKG	3.46	291	P	48	00.76	1.4
LMEM	3.66	326	(Pn)	48	05.42	3.0
PEC	3.89	158	eP	48	05.23	-0.4
WDC	4.17	318	(P)	48	09.31	-0.1
ARUT	4.33	85	ePn	48	10.42	-1.6
			ePg	48	24.49	
LBFM	4.47	330	ePn	48	13.70	-0.2
PLM	4.48	158	ePn	48	15.37	1.3
			eS	49	29.31	
LGPM	4.56	319	ePn	48	15.87	0.7
MSU	5.39	77	eP	48	27.71	0.6
			ePg	48	44.33	
EMUT	6.72	68	ePg	49	11.00	25.2
PV10	7.83	81	ePn	49	01.75	0.4
			ePg	49	31.97	
PV08	8.15	79	ePn	49	06.89	1.0
	93 obs. associated					

? OCT 19, 1993 05h 59m 21.62± 1.53s
49.503 N ±14.7km 6.741 E ± 6.6km
DEPTH = 10.0km (geophysicist)
GERMANY (543)
ML 3.0 (GRF), 2.7 (BNS), 2.5
(UCC).

RUP	0.29	46	ePg	59	27.60	-0.1
WLF	0.42	293	iPd	59	30.59	0.5
			iS	59	40.30	
ABH	0.65	54	ePg	59	32.20	-2.4
STB	1.10	3	iPd	59	42.13	0.0
	1.1s	91.00nm				
			id	59	43.74	
			ic	59	45.41	
			iS	00	00.60	
MEM	1.20	337	iPd	59	44.09	0.1
			id	59	46.41	
			iS	00	08.12	
TNS	1.32	56	ePnc	59	43.30	-2.7X
			ePgc	59	47.20	
			iSn	00	03.60	
ENN	1.37	338	iPnd	59	46.80	0.1
	0.9s	97.00nm				
			iPgc	59	49.00	
			eSn	00	12.00	
			eRg	00	46.00	
BNS	1.49	11	iPc	59	50.50	2.1
	0.4s	60.00nm				
			iS	00	13.10	
DOU	1.51	294	iP	59	47.40	-1.3
			i	59	49.80	
SNF	1.88	303	iPc	59	53.83	-0.2
WTS	2.50	1	e(P)	00	12.00	9.1X
	0.7s	8.20nm				
			e(S)	00	52.00	
GRF	2.92	85	ePg	00	11.70	2.7X
			eSg	00	48.10	
MOX	3.34	68	(Pn)	00	23.30	8.3X
			(Sg)	00	58.00	
CLL	4.39	63	e(Pg)	00	41.00	11.1X
			eSg	01	41.00	
KHC	4.49	92	ePn	00	32.50	1.3
			e	01	10.50	
			eSn	01	36.00	
GEC2	4.61	96	Pn	00	25.60	-7.5X
			Pg	00	46.30	
			Sn	01	16.60	
			Sg	01	40.60	
BRG	4.83	71	e(P)	00	29.70	-6.3X
			e	01	12.40	
			e	01	51.40	
PRU	5.08	82	ePn	00	53.00	13.4X
			ePg	01	17.50	
			eSn	01	57.10	
KSP	6.28	74	eP	01	21.00	24.5X
			eS	02	29.00	
	S.D. = 1.4	on 10 of 19 obs.				

? OCT 19, 1993 06h 00m 49.66± 1.01s
39.293 N ± 9.4km 27.933 E ±10.3km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

DST	0.62	60	ePg	01	02.50	0.3

```
                    eSg   01 11.00
IZM      1.04 211 ePg   01 09.00  -0.2
                    eSg   01 24.00
EDC      1.05 357 ePg   01 09.00  -0.5
EZN      1.35 294 ePn   01 15.00   0.5
     S.D. = 0.8  on   4 of   4 obs.
-----------------------------------
   OCT  19, 1993  07h 41m 11.39± 0.70s
   38.874 N ± 5.5km   29.846 E ±10.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      ML 3.2 (ISK).

KHL      0.61 205 iPg   41 23.50  -0.2
                    eSg   41 32.50
DST      1.20 308 iPn   41 33.90   0.2
GPA      1.46  14 ePn   41 37.40  -0.4
IZI      1.49 349 ePn   41 38.00  -0.3
BCK      1.53 157 ePn   41 39.00   0.2
EYL      1.71   8 ePn   41 41.90   0.5
CIN      1.88 228 eP    41 49.00   5.2X
     S.D. = 0.4  on   6 of   7 obs.
-----------------------------------
?  OCT  19, 1993  07h 44m 49.45± 3.49s
   10.912 N ±14.2km   62.326 W ±37.2km
   DEPTH =  80.0km  (geophysicist)
 NEAR COAST OF VENEZUELA             ( 97)
      MD 3.3 (TRN).

TCE      0.60 111 iPd   45 03.99  -0.3
                    eS    45 14.79
TRN      0.94 106 iPd   45 07.92  -0.1
                    eS    45 22.11
TPP      1.04 124 eP    45 09.67   0.4
                    eS    45 25.42
TBH      1.31 109 iP    45 12.56  -0.1
                    eS    45 31.84
GRW      1.40  28 iP    45 14.00   0.1
                    eS    45 35.23
BOT      1.60  81 eP    45 16.55   0.1
                    eS    45 37.96
     S.D. = 0.3  on   6 of   6 obs.
-----------------------------------
   OCT  19, 1993  07h 48m 59.62± 0.40s
   40.314 N ± 5.1km   25.694 E ± 3.7km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                          (365)
      ML 3.8 (THE), 3.5 (ISK).

ALN      0.64  25 iPg   49 12.20  -0.3
                    eSg   49 20.36
EZN      0.69 135 iPg   49 12.80  -0.4
                    iSg   49 22.80
RZN      1.56 332 eP    49 27.00  -0.6
PAIG     1.59 257 ePb   49 26.76  -1.1
EDC      1.66  88 iPn   49 29.00   0.1
DIM      1.74 356 iP    49 30.00   0.0
SRS      1.79 297 iPb   49 30.53  -0.2
                    iSb   49 55.01
SOH      1.85 287 ePb   49 31.76   0.0
                    eSb   49 57.30
PLD      1.94 338 iPc   49 36.00   3.1X
MMB      1.96 311 iP    49 33.00  -0.3
DMK      2.17  45 ePn   49 36.00  -0.3
JMB      2.25  17 iP    49 42.00   4.5X
IZM      2.27 147 ePn   49 38.30   0.6
KNT      2.29 293 iPn   49 38.12   0.1
DST      2.36 106 ePn   49 39.40   0.3
KKB      2.51 309 iP    49 40.00  -1.1
PGB      2.51 333 iP    49 41.00  -0.2
VAY      2.58 294 iPn   49 50.20   8.2X
IZI      2.89  88 ePn   49 46.00  -0.6
EYL      3.42  84 ePn   49 54.00  -0.1
SKO      3.61 299 ePn   49 59.50   2.7
                    e     50 03.00
                    i     50 09.60
ALT      3.63 109 ePn   49 57.60   0.4
MLR      5.18   2 eP    50 20.00   0.9
BZS      6.08 332 ePc   50 22.00  -9.7X
     S.D. = 0.8  on  20 of  24 obs.
-----------------------------------
%  OCT  19, 1993  07h 59m 34.20± 2.11s
   31.776 S ±16.1km   68.137 W ±12.4km
   DEPTH = 103.6 ± 22.1 km
 SAN JUAN PROVINCE, ARGENTINA        (137)

CFA      0.19 333 iPc   59 49.30   0.0
RTCV     0.35 256 iPd   59 49.90   0.2
RTLL     0.53 327 iPd   59 50.70  -0.1
                    S     00 02.50
RTCB     0.63 297 iPd   59 51.50  -0.2
                    S     00 04.00
RTRS     1.96 324 e(P)  00 07.00   0.1
RTPR     2.03  44 eP    00 08.00   0.3
                    S     00 33.70
MRA      2.16 108 iPc   00 09.70   0.3
                    S     00 37.20
TCA      3.06  83 iPc   00 21.20  -0.5
     S.D. = 0.4  on   8 of   8 obs.
-----------------------------------
*  OCT  19, 1993  08h 35m 33.95± 1.54s
   44.534 N ±11.0km    9.638 E ±11.8km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                      (545)

PCP      0.78 271 P     35 48.12  -1.1
                    S     35 57.80
FIN      1.08 253 P     35 54.66   0.4
                    S     36 07.24
ROB      1.29 260 P     35 57.77  -0.1
IMI      1.40 244 P     35 59.61   0.0
ENR      1.62 260 P     36 02.72   0.0
TMA      1.66 341 ePc   36 02.80  -0.6
STV      1.68 261 P     36 03.77   0.1
BHB      1.72 281 P     36 04.50   0.4
RSP      1.80 291 P     36 03.40  -2.0
PZZ      1.82 270 P     36 06.29   0.7
MMK      1.92 323 ePd   36 07.10  -0.2
VDL      1.96 357 ePc   36 07.90   0.2
LSD      1.99 299 P     36 07.35  -0.9
RRL      2.07 282 P     36 10.12   0.7
DIX      2.21 315 ePc   36 14.00   2.6X
LLS      2.38 349 eP    36 14.70   0.9
EMS      2.45 310 ePc   36 16.80   2.0
KHC      5.33  29 ePn   36 55.00  -0.6
                    e     37 07.50
                    eSg   37 48.50
     S.D. = 1.0  on  17 of  18 obs.
-----------------------------------
?  OCT  19, 1993  08h 40m 49.40± 0.94s
   39.097 N ± 7.9km   27.566 E ± 9.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      ML 2.7 (ISK).

IZM      0.74 199 ePg   41 03.90   0.0
                    eSg   41 15.40
DST      0.97  58 ePn   41 07.80   0.0
EZN      1.21 308 ePn   41 11.80   0.0
EDC      1.27  10 ePn   41 13.00   0.0
     S.D. = 0.1  on   4 of   4 obs.
-----------------------------------
%  OCT  19, 1993  09h 00m 24.40± 0.62s
   31.459 S ±11.4km   68.514 W ± 8.5km
   DEPTH = 100.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA        (137)

RTLL     0.13  16 iPd   00 39.00   0.1
                    S     00 50.00
RTCB     0.25 264 iPd   00 39.00  -0.3
                    S     00 50.00
CFA      0.28 122 iPc   00 39.80   0.7
                    S     00 52.00
RTCV     0.40 183 iPd   00 40.00   0.2
RTRS     1.52 327 eP    00 51.00  -0.3
                    S     01 11.50
RTPR     2.07  57 eP    00 59.00   0.6
                    S     01 25.50
MRA      2.57 112 ePc   01 04.80  -0.2
TCA      3.36  89 iP    01 15.20  -0.7
     S.D. = 0.6  on   8 of   8 obs.
-----------------------------------
?  OCT  19, 1993  09h 27m 36.93± 0.96s
   39.255 N ± 8.5km   27.704 E ± 9.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      ML 2.8 (ISK).

DST      0.80  64 ePg   27 52.80   0.4
                    eSg   28 04.00
IZM      0.92 202 ePn   27 54.40  -0.2
EDC      1.10   6 ePn   27 57.00  -0.5
EZN      1.21 299 iPn   27 59.80   0.4
     S.D. = 0.8  on   4 of   4 obs.
-----------------------------------
   OCT  19, 1993  09h 28m 21.88± 0.15s
   18.011 S ± 4.6km  178.401 W ± 4.7km
   DEPTH = 580.9km  (  7 depth phases)
   4.8mb ( 44 obs.)
 FIJI ISLANDS REGION                 (181)

VUN      2.98 270 iPc   29 40.20   0.4
SVA      2.99 268 iPd   29 40.60   0.7
                    eS    30 57.90
AFI      7.56  58 eP    30 13.00  -4.1X
BKM     12.72 269 iP    31 09.00   1.1
DZM     14.80 252 iPc   31 29.40   0.9
OUZ     18.56 201 eP    32 07.90   3.6X
THZ     24.82 196 eP    33 01.20   0.1
LTZ     25.93 196 P     33 09.60  -1.3
WVZ     26.63 198 eP    33 16.00  -0.9
LMZ     27.66 199 eP    33 25.40  -0.4
BWZ     28.21 198 eP    33 29.20  -1.4
ODZ     28.47 196 eP    33 32.40  -0.5
LRCZ    28.85 198 eP    33 35.70  -0.7
MSCZ    28.86 198 eP    33 35.80  -0.5
MHZ     28.87 198 eP    33 35.70  -0.8
SBCZ    28.89 198 eP    33 35.90  -0.7
LSCZ    28.89 198 eP    33 35.80  -0.8
CMCZ    28.95 198 eP    33 36.20  -1.0
TLC     29.05 198 eP    33 37.80  -0.3
TUZ     29.59 197 eP    33 43.10   0.7
ARMA    29.90 240 iPd   33 46.30   0.8
        0.6s    98.00nm          5.6mb
CNB     33.37 232 iPd   34 16.10   1.5
CTA     33.44 261 iP    34 15.00  -0.2
        0.9s    31.51nm          4.9mb
      Z  21s     8.24um          5.4Msz
                    i     50 59.00
                    ipP   51 09.00
                    eS    53 52.00
                    e     54 04.00
                    i     54 24.00
CAN     33.65 233 iPd   34 18.10   1.2
BWA     33.77 234 iPd   34 17.00  -0.9
PMG     34.48 280 iPd   34 24.40   0.5
TOO     37.11 231 iPd   34 47.00   1.6
        0.7s   230.00nm          5.9mb X
MDG     37.22 286 eP    34 48.20   1.8
STK     38.59 241 iPd   34 59.00   1.5
        0.7s    50.20nm          5.2mb
QIS     39.64 259 eP    35 05.50  -0.6
ADE     41.59 237 eP    35 22.50   1.0
WRA     44.62 260 P     35 44.79  -0.5
ASPA    44.77 254 P     35 46.79   0.3
GUA     47.88 308 eP    36 08.30  -1.9
        0.8s    89.55nm          5.3mb
PJG     47.95 308 eP    36 10.10  -0.6
MTN     48.81 269 iPc   36 16.00  -1.2
        0.9s   370.00nm          5.9mb X
FORT    49.97 245 iPd   36 24.80  -0.7
        0.4s    39.00nm          5.3mb
KNA     50.47 264 iPd   36 28.80  -0.5
        0.5s    69.00nm          5.4mb
COOL    55.92 245 iPd   37 06.60  -1.3
        0.3s    26.00nm          5.0mb
KLB     58.79 244 iPd   37 26.80  -0.6
        0.7s    57.00nm          4.9mb
NWAO    59.17 242 iPc   37 29.70  -0.2
        0.8s    29.00nm          4.6mb
RKG     59.30 240 iPc   37 31.20   0.5
        0.4s    10.00nm          4.4mb
BAL     59.75 245 iPd   37 32.20  -1.5
        0.8s   152.00nm          5.3mb
MUN     60.08 243 eP    37 35.80  -0.1
        0.8s   139.00nm          5.3mb
MRWA    60.47 246 iPc   37 38.20  -0.3
        0.8s    45.00nm          4.8mb
CSY     66.05 205 eP    38 18.30   5.0X
        1.2s    34.00nm          4.7mb
ADK     69.61   1 eP    38 32.51  -2.3
        0.6s    19.26nm          4.8mb
LEM     72.72 268 ePd   38 54.50   0.6
SDN     74.63  10 eP    39 00.96  -2.5
        0.7s    33.74nm          5.0mb
SAO     76.49  44 ePc   39 14.49   0.3
        0.9s    30.00nm          4.8mb
BCH     76.52  46 ePc   39 14.93   0.4
BKS     76.62  43 ePc   39 15.04   0.2
        1.1s    40.00nm          4.8mb
COE     76.63  43 eP    39 15.51   0.6
```

19d 09h

```
MHC     76.70  43 iPc   39 15.14  -0.3
        1.1s    30.00nm          4.7mb
ARN     76.77  43 ePc   39 16.00   0.3
ABL     76.93  46 ePc   39 16.99   0.1
PLM     77.80  49 ePc   39 22.01   0.5
PEC     77.86  48 ePc   39 21.65   0.0
        0.6s    13.31nm          4.5mb
ISA     77.88  46 ePc   39 21.82   0.1
        1.0s    52.92nm          4.9mb
CMB     77.91  43 iPc   39 21.60  -0.2
        1.0s    20.00nm          4.5mb
WDC     78.02  40 eP    39 22.51   0.2
        1.4s    45.65nm          4.7mb
LGPM    78.04  40 eP    39 22.93   0.4
ORV     78.06  41 iPc   39 22.16  -0.4
        1.0s    20.00nm          4.5mb
MIN     78.46  41 ePc   39 23.64  -1.1
        1.5s    40.00nm          4.6mb
KDC     78.49  14 eP    39 23.22  -1.1
        1.1s    30.29nm          4.6mb
MMPM    78.56  44 eP    39 25.67   0.0
YBH     78.60  39 iPc   39 24.81  -0.6
        0.9s    20.00nm          4.5mb
MEMM    78.65  44 ePd   39 27.14   1.5
MTUM    78.73  45 ePc   39 26.77   0.4
GSC     78.84  47 eP    39 27.20   0.3
LBFM    78.87  40 eP    39 27.36   0.4
GLA     79.11  50 ePc   39 29.30   1.1
BONR    79.24  44 eP    39 29.44   0.3
TNP     80.03  45 eP    39 33.47   0.4
        0.9s    15.57nm          4.4mb
TPNV    80.08  46 eP    39 33.90   0.5
        0.7s    13.79nm          4.5mb
KMOR    80.51  36 P     39 35.61   0.3
SSOR    80.62  37 P     39 35.72  -0.1
BMW     81.17  35 P     39 39.11   0.5
VBEM    81.24  37 P     39 39.14   0.1
VIPM    81.47  38 P     39 40.34   0.0
CROR    81.53  37 P     39 40.36  -0.1
SHW     81.55  36 eP    39 41.15   0.6
CRP     81.76  12 ePc   39 39.09  -2.3
TUC     81.76  52 ePc   39 44.15   2.3
        1.0s    37.96nm          4.9mb
ASR     81.88  36 P     39 42.44   0.2
GMW     82.07  34 eP    39 43.16   0.1
LON     82.12  35 P     39 43.09  -0.3
FMW     82.30  35 P     39 44.71   0.3
ARUT    82.44  46 ePc   39 45.97   0.7
JBO     82.47  37 P     39 45.31   0.2
RMW     82.54  35 ePc   39 45.47   0.0
TTA     82.57  10 iPc   39 44.86  -0.4
        0.8s     8.73nm          4.3mb
                 epP    41 49.04 579km
PMR     82.70  14 ePc   39 44.48  -1.3
        0.6s    15.66nm          4.7mb
EBG     82.90  36 P     39 47.64   0.4
JCW     82.92  34 P     39 47.48   0.2
WAH2    83.37  36 P     39 49.83   0.3
LNOR    83.60  38 P     39 50.63  -0.1
MSU     83.66  46 eP    39 51.25  -0.2
                 epP    41 56.51 584km
SNG     83.69 280 eP    39 54.10   2.3
WTV     83.70  35 P     39 51.07  -0.1
MAW     83.77 200 iP    39 53.00   1.8
        0.6s    17.65nm          4.8mb
BALM    83.91  17 eP    39 50.78  -1.3
SAW     84.00  36 P     39 52.61  -0.1
DPW     84.77  36 eP    39 56.45   0.0
HVU     84.85  43 eP    39 57.50   0.4
SRU     85.08  46 eP    39 58.93   0.6
                 epP    42 04.29 581km
PV09    85.77  47 eP    40 02.08   0.3
PV10    85.78  48 eP    40 01.32  -0.4
                 epP    42 07.54 585km
IMA     85.87  10 eP    39 59.23  -2.2
        0.7s     2.19nm          4.0mb
FBA     85.91  13 iPc   39 59.63  -1.8
        0.6s    10.02nm          4.7mb
                 epPd   42 05.17 581km
LTX     86.04  58 eP    40 03.17   0.1
PV08    86.14  47 eP    40 03.63   0.0
ALQ     86.15  52 eP    40 03.73   0.2
        1.2s    26.63nm          4.8mb
                 epP    42 09.58 582km
LRM     87.05  40 ePc   40 07.80   0.2
                 e      42 12.60 575km
GOL     88.92  48 eP    40 17.26   0.8
        1.3s    19.68nm          4.9mb
CHTO    89.04 290 ePd   40 18.40   1.3
        1.0s    12.50nm          4.8mb
GLD     89.05  48 eP    40 17.55   0.6
        1.5s    31.61nm          5.0mb
LZH     90.96 308 eP    40 26.00   0.2
        1.0s    24.00nm          5.2mb
RSSD    91.63  44 eP    40 28.85   0.1
        0.4s     5.65nm          4.9mb
SNA     91.87 179 eP    40 30.00   0.8
        0.8s    52.24nm          5.6mb
INK     91.98  15 eP    40 29.00  -0.6
        1.0s     5.00nm          4.5mb
YKA     94.42  25 eP    40 39.90  -0.9
        0.8s     3.50nm          4.6mb
CLL    145.56 347 iPKPc 46 56.80   1.2
        1.0s    14.00nm
BRG    145.77 346 iPKP  46 56.80   0.8
ZST    147.34 341 ePKP  47 06.00   7.4X
                 i      47 12.40
GEC2   147.71 345 PKP   47 03.00   3.7X
        0.4s     1.73nm
                 e      47 06.60
                 e      49 18.30
OHR    151.69 328 e(PKP)47 11.50   6.0X
     S.D. = 0.9  on 121 of 127 obs.
-------------------------------------
*  OCT  19, 1993  09h 47m 12.36± 0.37s
    5.163 S ± 5.8km  151.901 E ± 8.8km
   DEPTH =  44.3km  ( 12 depth phases)
   5.3mb ( 15 obs.)  5.0Msz ( 10 obs.)
 NEW BRITAIN REGION, P.N.G.       (192)
      Mw 5.5 (HRV). Ms 5.0 (BRK).
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 44S, 85C
      Centroid Location:
      Origin Time        09:47:19.7 0.3
      Lat  5.20S 0.03 Lon 152.02E 0.03
      Dep  27.0 1.9 Half-duration  1.3
      Moment Tensor;    Scale 10**17 Nm
        Mrr= 1.39 0.04  Mtt=-1.10 0.05
        Mff=-0.29 0.06  Mrt= 1.54 0.17
        Mrf= 0.38 0.12  Mtf=-0.64 0.04
       Principal Axes:
        T  Val=  2.13  Plg=65  Azm=356
        N        0.01      8      249
        P       -2.13     24      156
      Best Double Couple:Mo=2.1*10**17
       NP1:Strike=230 Dip=22 Slip=  69
       NP2:         72     69       98
RAB      1.00  15 iPd   47 32.20   2.1
YYYY     6.00 259 eP    48 55.00  13.9X
MDG      6.10 269 eP    48 57.20  14.9X
PMG      6.32 228 eP    48 47.00   1.6
                 eS     50 00.00
WWKK     8.39 280 eP    49 21.60   7.2X
QIS     19.42 217 iPd   51 38.40   0.4
                 i      51 50.70  54km
GUA     19.83 340 eP    51 44.80   2.3
        0.8s   197.01nm          5.5mb
                 e      51 59.50  72kmX
GUMO    19.89 340 eP    51 44.80   1.7
        1.1s   205.80nm          5.4mb
PJG     19.89 340 eP    51 45.90   2.8
BKM     20.25 129 iPc   51 48.00   1.2
DZM     21.93 141 iPc   52 04.90   1.0
WR2     22.52 228 iPc   52 10.10   0.3
        0.6s    68.40nm          5.3mb
                 epP    52 22.90  53km
                 iS     56 12.30
                 eScP   00 02.10
ARMA    25.12 181 iPc   52 37.20   2.2
        1.2s   199.00nm          5.5mb
                 epP    52 47.20  37km
STK     28.28 199 eP    53 03.90   0.1
        3.5s     3.70nm          3.4mb X
                 ipP    53 15.50  44km
RIV     28.53 181 eP    53 18.30  12.4X
DAV     28.95 295 eP    53 08.40  -1.6
BWA     29.30 186 eP    53 24.00  11.1X
                 i      53 34.70  39km
CNB     30.10 184 iPc   53 32.20  12.1X
        1.0s    72.00nm
CAN     30.13 185 eP    53 31.90  11.5X
                 i      53 41.30  32km
CTB     30.25 294 ePd   53 25.00   3.4X
TOO     32.78 189 eP    53 55.70  12.1X
        0.9s    45.00nm
GQP     34.83 303 eP    53 56.00  -5.5X
BAG     37.67 305 ePc+  54 24.00  -1.6
COOL    38.60 225 eP    54 33.20   0.1
KLB     41.40 226 eP    54 55.20  -1.0
MRWA    41.53 231 eP    54 57.40   0.1
BAL     41.67 228 eP    54 57.50  -0.9
TKSJ    42.44 338 P     55 05.30   0.7
NWAO    42.50 225 eP    55 17.70  12.5X
KUMJ    42.51 333 eP    55 19.70  14.5X
MUN     42.73 227 eP    55 07.60   0.5
MAT     43.42 344 (P)   55 12.00  -0.6
                 eS     01 29.00
RKG     43.56 223 eP    55 14.00   0.2
                 e      55 27.00  48km
YONJ    43.73 338 P     55 13.80  -1.3
SHNJ    43.74 335 eP    55 28.50  13.4X
LEM     44.06 266 ePc   55 32.00  13.7X
SSE     46.48 323 P     55 52.00  14.9X
        1.5s    43.00nm
      Z  20s     1.40um          4.9Msz
      N  16s     0.50um
      E  16s     0.50um
                 eS     02 24.00
                 sS     02 47.00
SNY     53.42 334 Pc    56 28.00  -2.0
      Z  36s     1.02um          4.6MszX
                 S      03 59.00
GYA     53.91 308 P     56 34.60   0.6
      Z  26s     0.80um          4.7MszX
                 pP     56 47.60  47km
NST     55.27 293 eP    56 45.00   1.0
BJI     55.70 327 eP    57 00.00  13.3X
        1.5s    14.00nm
      Z  26s     1.06um          4.8MszX
XAN     56.27 317 P     56 49.50  -1.5
        1.0s     5.00nm          4.5mb
KMI     56.45 305 Pc    56 53.00   0.3
        1.5s    60.00nm          5.4mb
      Z  25s     1.40um          5.0MszX
                 sP     57 07.00
CD2     58.30 311 eP    57 05.00  -0.4
      Z  20s     1.40um          5.1Msz
                 eS     05 02.10
LZH     60.87 316 eP    57 24.00   0.9
        1.5s    40.00nm          5.3mb
      Z  22s     0.82um          4.8Msz
      E  10s     0.28um
                 sP     57 37.00
DRV     61.95 185 eP    57 43.50  13.8X
                 S      05 55.00
                 SS     10 36.00
GTA     65.32 318 eP    57 52.00  -0.4
        1.2s     9.00nm          4.7mb
      Z  30s     1.34um          5.0MszX
      N  15s     0.35um
                 sP     58 06.50
                 PcP    58 22.00
                 eS     06 30.00
CIT     65.61 335 eP    58 08.20  14.3X
CSY     67.42 197 eP    58 08.80   3.6X
        0.8s    14.60nm          5.1mb
                 epP    58 22.30  47km
LSA     67.71 305 P     58 04.30  -3.9X
        0.9s    13.00nm          5.0mb
YAK     69.13 349 eP    58 28.40  12.6X
        1.3s    56.00nm
SBA     73.07 177 eP    58 40.40   1.1
HYB     75.77 289 eP    58 55.00  -1.0
        1.0s    40.00nm          5.3mb
                 e      59 09.00  49km
ILT     75.78  11 eP    59 14.00  19.0X
GBA     76.20 285 P     58 57.70  -0.7
        1.0s     2.50nm          4.1mb X
GBA     76.20 285 P     59 11.30  12.9X
        1.0s    11.00nm
SVW     77.50  23 eP    59 01.10  -3.7X
        0.7s     7.00nm          4.8mb
TIK     78.12 353 eP    59 21.00  13.0X
TTA     78.43  22 eP    59 00.90  -9.1X
PMR     80.38  25 eP    59 28.90   8.5X
TOA     81.86  25 eP    59 29.50   1.3
KSH     82.47 311 eP    59 33.70   1.7
        1.0s    27.00nm          5.2mb
      Z  24s     0.81um          5.0MszX
```

```
     N  14s      0.53um
     E  14s      0.60um
                  sP     59 48.00
FBA    82.55  22 eP      59 30.80  -0.9
FRU    84.22 314 eP      59 41.00   0.3
SPA    84.87 180 iPc     59 40.80  -2.8
       0.8s    37.92nm          5.6mb
                  i      59 54.50  46km
MAW    84.89 203 P       59 44.10   0.6
       1.0s    50.00nm          5.6mb
NRI    85.87 341 eP      00 03.00  14.7X
     Z  20s      1.00um          5.2Msz
                  e      00 14.00  35km
INK    89.11  21 eP      00 19.00  15.0X
       1.0s     3.00nm
BKS    89.87  52 eP      59 53.09 -15.1X
     Z  21s      0.70um          5.1Msz
                  eLQ    24 48.09
                  eLR    28 23.09
WDC    89.95  49 eP      00 12.21   3.7X
     Z  21s      0.60um          5.0Msz
                  eSP    12 18.21
                  eSS    17 26.21
                  eLQ    24 52.21
                  eLR    28 42.21
YBH    89.96  48 eP      00 16.52   7.9X
     Z  21s      0.50um          4.9Msz
                  eSKS   11 06.52
                  eSP    12 15.52
                  eSS    17 10.52
                  eLQ    24 34.52
                  eLR    28 39.52
ORV    90.63  51 eP      00 09.67  -2.0
     Z  21s      0.60um          5.0Msz
                  eS     11 35.67
                  eSS    17 28.67
                  eLQ    24 48.67
                  eLR    28 28.67
CMB    91.34  52 eP      00 12.31  -2.7
     Z  21s      0.70um          5.1Msz
                  eSKS   10 38.31
                  eS     11 07.31
                  eSS    17 27.31
                  eLQ    25 31.31
                  eLR    28 52.31
NVL    99.72 192 iPd     01 05.00  12.4X
       1.0s    23.00nm
BUL   118.88 244 iPKPd   05 58.20  -0.6
                  i      06 13.00
GAC   122.44  38 ePKP    06 04.00  -0.5
BRG   122.53 330 ePKP    06 19.40  14.8X
CLL   122.73 331 e(PKP)  06 18.00  13.1X
SKO   122.79 318 ePKP    06 04.50  -0.9
                  i      06 18.50
OHR   123.59 317 iPKP    06 06.20  -0.9
KHC   123.78 328 ePKP    06 08.00   0.8
       1.0s     5.40nm
     Z  20s      0.50um          5.2Msz
                  e      06 21.00
                  e      06 37.60
GEC2  123.89 328 PKP     06 06.40  -1.1
       0.6s     1.44nm
                  e      06 08.60
                  e      06 12.40
                  e      06 21.50
GRF   124.64 330 ePKP    06 23.50  14.8X
CNCB  134.94 120 PKP     06 18.10 -12.0X
LPB   134.96 119 ePKP    06 20.00  -9.9X
LPAZ  135.03 119 PKP     06 33.40   3.1X
CCH   136.27 122 PKP     06 35.40   3.1X
RSTA  144.04 146 ePKP    06 45.30  -0.3
PPD   144.69 141 ePKP    06 45.80  -1.0
                  e      07 00.40
TRN   146.58  79 iPKP    06 51.52   1.4
                  i      07 05.18
BAO   151.45 137 iPKPd   07 03.90   6.1X
                  i      07 17.10
                  i      07 28.00
KIC   156.73 274 PKP     07 14.72   9.7X
       1.4s    44.00nm
LIC   157.02 274 PKP     07 15.44  10.1X
       1.0s    13.00nm
LKO   157.26 282 PKP     07 05.21  -0.5
       1.1s    14.00nm
     S.D. = 1.3  on  51 of  94 obs.
-----------------------------------
?  OCT  19, 1993  09h 55m 49.06± 0.97s
   39.085 N ± 8.2km   27.620 E ± 9.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.6 (ISK).

IZM     0.74 202 ePg    56 03.70   0.1
                 eSg    56 16.40
DST     0.94  56 ePn    56 06.80  -0.2
EZN     1.25 307 ePn    56 12.00  -0.2
EDC     1.27   8 ePn    56 13.00   0.3
     S.D. = 0.4  on   4 of   4 obs.
-----------------------------------
%  OCT  19, 1993  09h 59m 52.33± 0.95s
   26.451 S ±13.0km   27.479 E ±12.9km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA        (584)
      ML 2.7 (PRE).

BFS     0.76 234 eP     00 08.30   0.6
                 S      00 19.10
SLR     1.01  46 eP     00 12.10   0.0
                 S      00 24.60
SEK     1.87 176 eP     00 26.10   0.7
                 S      00 49.40
BFT     2.43  72 eP     00 33.50   0.0
                 S      01 04.50
BLF     2.88 203 eP     00 39.20  -0.7
                 S      01 12.80
FRS     3.80 210 eP     00 52.30  -0.5
                 S      01 35.10
     S.D. = 0.7  on   6 of   6 obs.
-----------------------------------
?  OCT  19, 1993  10h 24m 35.70± 0.93s
   39.687 N ± 7.9km   29.453 E ± 8.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.7 (ISK).

DST     0.64 263 ePg    24 48.50  -0.1
                 eSg    24 59.20
IZI     0.65   1 iPg    24 49.10   0.4
                 eSg    24 59.10
ALT     0.81 141 ePg    24 51.60   0.1
                 eSg    25 03.60
EYL     1.03  31 ePn    24 54.90  -0.3
     S.D. = 0.5  on   4 of   4 obs.
-----------------------------------
?  OCT  19, 1993  10h 33m 18.95± 1.01s
   39.079 N ± 8.6km   27.652 E ±10.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.6 (ISK).

IZM     0.75 204 ePg    33 33.40  -0.2
                 eSg    33 44.90
DST     0.92  55 ePn    33 37.00   0.4
EZN     1.27 306 ePn    33 42.90   0.4
EDC     1.28   7 ePn    33 42.00  -0.6
     S.D. = 0.9  on   4 of   4 obs.
-----------------------------------
?  OCT  19, 1993  10h 36m 31.44± 0.95s
   39.105 N ± 8.0km   27.554 E ± 9.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.7 (ISK).

IZM     0.74 198 ePg    36 45.90  -0.1
                 eSg    36 59.40
DST     0.97  59 ePn    36 50.20   0.3
EZN     1.19 308 ePn    36 53.90   0.2
EDC     1.26  11 ePn    36 54.50  -0.4
     S.D. = 0.5  on   4 of   4 obs.
-----------------------------------
*  OCT  19, 1993  11h 29m 57.81± 3.25s
   57.545 N ±25.2km  143.102 W ±11.0km
   DEPTH =  10.0km  (geophysicist)
 GULF OF ALASKA                  ( 15)
      ML 2.9 (AEIC).

MID     2.54 319 P      30 40.70   1.0
HMT     2.86 348 eP     30 44.83   0.5
YAH     2.91  13 eP     30 45.32   0.1
                 eS     31 17.85
RAGM    2.96 345 eP     30 45.96   0.2
SGAM    3.16 341 eP     30 49.14   0.6
CRQM    3.22 360 eP     30 49.30  -0.3
TGL     3.22   2 eP     30 51.42   1.9X
CVA     3.31 337 eP     30 49.93  -0.7
                 eS     31 29.66
HIN     3.36 330 eP     30 51.93   0.5
MTU     3.41 318 eP     30 52.17   0.1
LTI     3.52 317 eP     30 53.23  -0.4
BALM    3.52   6 iP     30 53.74  -0.1
                 eS     31 32.87
CTGM    3.55  14 eP     30 54.27   0.1
FID     3.65 333 eP     30 55.86   0.3
                 eS     31 37.83
GLB     3.93 355 eP     30 59.30  -0.2
VZW     3.94 335 eP     30 58.98  -0.7
VLZ     3.96 337 eP     30 59.61  -0.2
SEW     4.18 311 eP     31 03.30   0.4
KLU     4.21 341 eP     31 03.21  -0.3
                 eS     31 50.97
PWL     4.28 323 eP     31 03.86  -0.5
CFI     4.36 329 eP     31 05.15  -0.4
                 eS     31 54.86
MPA     4.38 315 eP     31 05.49  -0.3
CNPM    4.70 298 eP     31 10.40  -0.1
SLKM    4.73 312 eP     31 10.63  -0.2
KNK     4.74 327 eP     31 12.86   1.8X
SML     5.03 330 eP     31 15.55   0.5
     S.D. = 0.5  on  24 of  26 obs.
-----------------------------------
*  OCT  19, 1993  11h 34m 30.82± 1.20s
   36.933 N ±14.0km   29.332 E ± 7.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 3.1 (ISK).

ELL     0.50 112 iPg    34 41.00   0.0
                 eSg    34 51.00
BCK     1.13  62 ePn    34 52.00  -0.1
CIN     1.20 304 ePg    34 53.00  -0.1
                 iSg    35 11.00
KHL     1.40   6 iPn    34 56.50   0.1
IZM     2.20 312 ePn    35 08.00   0.1
     S.D. = 0.1  on   5 of   5 obs.
-----------------------------------
&  OCT  19, 1993  11h 37m 46.23s
   61.570 N          146.272 W
   DEPTH =  30.6km
 SOUTHERN ALASKA                 (  2)
      <AEIC>. ML 2.5 (AEIC).

KLU     0.19 115 iPd    37 52.31  -0.2
                 eS     37 57.34
VLZ     0.44 184 iPd    37 54.65  -1.1
                 eS     38 01.77
VZW     0.53 195 iPd    37 55.86  -1.4
                 eS     38 04.14
TOA     0.54   5 P      37 56.70  -0.7
SCM     0.57 298 iPc    37 56.76  -1.1
                 eS     38 05.62
TZL     0.62  40 iPd    37 57.72  -1.0
                 eS     38 06.25
CFI     0.82 242 iPc    38 00.53  -1.0
                 eS     38 11.20
FID     0.83 187 eP     38 01.03  -0.7
SML     1.01 285 iPc    38 02.96  -1.4
SDG     1.02  19 eP     38 03.19  -1.3
                 eS     38 16.37
CVA     1.06 166 ePc    38 04.24  -0.7
                 eS     38 19.15
KNK     1.06 262 iPc    38 04.41  -0.6
                 eS     38 18.15
HIN     1.18 186 eP     38 06.43  -0.3
GLB     1.19  95 iPc    38 04.96  -1.9
                 eS     38 20.18
SGAM    1.19 154 eP     38 05.91  -0.9
PWL     1.23 235 eP     38 06.77  -0.6
GHO     1.28 280 eP     38 07.09  -1.1
                 eS     38 26.11
PLRM    1.37 272 ePc    38 08.85  -0.5
                 eS     38 27.47
RAGM    1.42 146 eP     38 09.47  -0.7
                 eS     38 28.82
PAX     1.46  15 eP     38 09.54  -1.2
                 eS     38 27.95
HMT     1.58 141 eP     38 11.98  -0.5
DHY     1.60 342 eP     38 11.64  -1.2
                 eS     38 31.82
PMS     1.62 260 P      38 13.00   0.0
                 S      38 33.80
LTI     1.72 208 eP     38 13.77  -0.7
```

19d 11h

```
CRQM    1.72 117 eP    38 13.56  -1.2
                eS     38 36.28
PWA     1.73 274 P     38 14.30  -0.2
MPA     1.85 236 eP    38 16.27  -0.1
TGL     1.86 115 eP    38 15.07  -1.5
                eS     38 38.96
BALM    1.97 104 eP    38 16.53  -1.7
WAX     2.01 123 eP    38 17.49  -1.3
CUT     2.06 296 eP    38 19.58   0.1
                eS     38 44.97
HUR     2.11 313 P     38 20.20   0.0
SUA     2.15 269 eP    38 21.04   0.3
SLKM    2.20 243 eP    38 21.30  -0.1
RND     2.20 328 eP    38 21.48   0.1
CTGM    2.46 102 eP    38 24.04  -1.2
MCK     2.49 332 P     38 26.20   0.6
YAH     2.52 117 eP    38 24.26  -1.9
SKT     2.53 282 eP    38 25.32  -0.8
                eS     38 56.76
BC3     2.58  52 eP    38 25.53  -1.3
CGLM    2.77 267 eP    38 29.25  -0.2
NCG     2.83 269 eP    38 29.95  -0.4
HDA     2.86 354 eP    38 31.08   0.3
BKG     2.93 263 eP    38 32.61   0.8
CKL     2.94 265 P     38 34.50   2.5
RDT     3.14 254 eP    38 34.50  -0.3
CNPM    3.20 232 eP    38 34.37  -1.2
ILl     3.23 355 eP    38 33.88  -2.0
ILB     3.23 355 eP    38 34.17  -1.8
DFR     3.27 255 P     38 39.70   3.1
IM3     5.53 326 eP    39 08.27  -0.3
       51 obs. associated
-----------------------------------
?  OCT  19, 1993  12h 17m 51.53± 1.11s
   40.491 N ±10.9km   21.898 E ± 7.5km
   DEPTH =  10.0km  (geophysicist)
 GREECE                            (364)

FNA     0.49 307 eP    18 00.56  -1.0
                eS     18 12.53
LIT     0.60 131 eP    18 03.52  -0.1
                iS     18 14.56
GRG     0.60  39 eP    18 03.40  -0.3
                iS     18 17.44
VAY     0.97  31 ePn   18 21.00  11.0X
KNT     1.01  48 iP    18 11.00   0.3
OHR     1.04 307 eP    18 12.30   1.1
                i      18 32.50
     S.D. = 1.1  on   5 of   6 obs.
-----------------------------------
?  OCT  19, 1993  12h 43m 46.73± 2.18s
   38.058 N ±15.5km   27.256 E ±22.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)

IZM     0.34   1 iPg   43 52.90  -0.9
                eSg    43 59.00
CIN     0.80 125 eP    44 02.00  -0.3
DST     1.88  34 ePn   44 20.00   0.8
EZN     1.91 338 ePn   44 19.90   0.3
     S.D. = 1.2  on   4 of   4 obs.
-----------------------------------
*  OCT  19, 1993  13h 04m 35.45± 0.52s
   14.026 N ± 9.3km   91.720 W ± 6.8km
   DEPTH =  33.0km  (normal)
   4.5mb ( 15 obs.)
 GUATEMALA                         ( 70)

TPX     1.02 329 iP    04 58.50   5.1X
                (S)    05 09.00
SCX     2.84 342 iP    05 24.50   5.1X
                iS     05 59.00
OXX     5.70 303 iP    06 00.00  -0.2
                (S)    07 03.00
LVVM    7.26 322 (P)   06 05.00 -17.0X
IISM    7.33 313 iP    06 23.50   0.5
                (S)    06 43.00
PPM     8.30 308 iP    06 37.50   0.4
III     8.61 301 iP    06 39.00  -2.0
MRX    10.68 303 iP    07 08.00  -1.3
UYO    20.21 353 iPc   09 10.60   0.3
MEO    21.58 344 iPc   09 23.50  -0.9
WMOK   21.59 344 ePc   09 24.07  -0.4
       0.8s    13.59nm          4.4mb
                eS     13 11.54
MYNC   22.05  17 (P)   09 28.44  -0.6
                e      09 32.19
ELC    23.27   5 ePc   09 41.66   0.7
ACO    23.54 345 iPc   09 43.10  -0.5
ALQ    24.71 330 ePc   09 56.31   1.1
       0.5s     5.53nm          4.4mb
TUC    25.19 319 (P)   10 02.01   2.3
       0.9s     3.54nm          4.0mb
PV08   28.68 332 eP    10 32.40   0.5
PV10   28.70 331 eP    10 31.82  -0.2
PV09   28.84 331 eP    10 34.47   1.2
SRU    29.99 330 eP    10 44.00   0.5
MSU    30.37 327 eP    10 47.74   0.8
                ePcP   13 46.78
ARUT   30.54 325 eP    10 49.22   0.9
RSSD   31.79 343 eP    10 58.50  -0.8
       0.5s     2.63nm          4.4mb
HVU    33.14 331 eP    11 11.02   0.0
BONR   33.53 320 eP    11 15.70   1.1
RSNY   33.76  22 eP    11 16.35   0.1
       0.7s     7.39nm          4.7mb
LRM    36.20 335 eP    11 38.00   0.7
                e      14 05.10
LBFM   37.79 322 eP    11 50.87   0.2
                e      12 17.07
LPB    38.29 142 P     12 04.00   8.6X
CNCB   38.58 142 P     11 58.00   0.1
                e      14 11.00
NEW    40.09 334 eP    12 09.30  -0.3
       0.8s     7.08nm          4.5mb
LON    41.21 328 eP    12 19.14   0.4
YKA    51.06 347 eP    13 35.40  -1.0
       0.8s     6.10nm          4.6mb
SOB1   55.46 112 eP    14 10.30   0.6
INK    60.49 343 eP    14 44.00  -0.2
       0.9s     5.00nm          4.6mb
FBA    63.33 337 eP    15 02.02  -1.3
       1.0s     5.21nm          4.6mb
TTA    66.00 333 eP    15 19.22  -1.5
       1.0s     6.32nm          4.7mb
EKA    77.79  36 Pd    16 30.30  -0.6
       0.7s     9.70nm          4.9mb
NB2    83.99  28 P     17 03.90   0.3
       0.9s     3.50nm          4.5mb
LKO    84.02  82 P     17 04.49  -0.1
       0.7s     3.00nm          4.6mb
HFS    85.45  29 eP    17 09.90  -1.0
       0.4s     1.20nm          4.5mb
GEC2   89.41  40 PKP   17 30.60   0.2
       0.8s     0.66nm          4.0mb
CHTO  145.72 342 ePKPc 24 13.20   0.1
       1.1s    12.37nm
BDT   147.18 341 ePKP  24 18.00   2.6X
       0.7s    25.80nm
NST   148.25 338 ePKP  24 17.00  -0.2
GBA   150.52  22 PKP   24 26.00   5.3X
     S.D. = 0.9  on  40 of  46 obs.
-----------------------------------
&  OCT  19, 1993  13h 12m 54.10s
   60.258 N          151.295 W
   DEPTH =  53.2km
 KENAI PENINSULA, ALASKA           ( 14)
     <AEIC>. ML 2.6 (AEIC).

NKA     0.49   3 eP    13 06.77   1.3
BRLK    0.54 157 eP    13 05.54  -0.6
                eS     13 14.61
SLKM    0.59  64 eP    13 06.03  -0.7
HOM     0.63 196 ePd   13 06.94  -0.2
                eS     13 17.49
RDT     0.64 300 eP    13 06.68  -0.7
CNPM    0.74 178 iPd   13 07.84  -0.7
                eS     13 18.67
REF     0.74 289 ePc   13 07.99  -0.8
                eS     13 19.33
RED     0.75 283 iPc   13 08.08  -0.8
                iS     13 19.42
RSO     0.75 286 eP    13 08.30  -0.7
RS2     0.76 286 ePc   13 08.25  -0.8
                eS     13 20.22
DFR     0.77 297 ePc   13 08.22  -0.8
                eS     13 19.98
RDW     0.79 287 ePc   13 08.53  -0.9
                eS     13 20.18
ILIM    0.85 259 eP    13 09.26  -0.9
                eS     13 21.50
NCT     0.87 291 eP    13 09.53  -0.9
INE     0.91 258 eP    13 10.03  -0.9
                eS     13 22.78
SEW     0.94  99 eP    13 10.03  -1.1
                eS     13 22.75
BKG     0.94 330 ePc   13 10.78  -0.6
                eS     13 23.80
MPA     0.99  76 eP    13 11.60  -0.3
SPU     1.00 338 eP    13 11.48  -0.6
                eS     13 25.35
CKT     1.05 335 eP    13 12.39  -0.4
                eS     13 26.60
CKN     1.06 336 eP    13 12.80  -0.2
CKL     1.07 332 ePc   13 12.59  -0.6
                eS     13 25.83
CRP     1.10 338 eP    13 12.46  -1.1
CGLM    1.11 342 ePd   13 13.33  -0.4
CP2     1.11 336 eP    13 12.02  -1.8
                eS     13 25.03
BGL     1.14 332 eP    13 13.76  -0.4
                eS     13 29.52
OPT     1.15 239 eP    13 13.31  -0.8
                eS     13 28.44
NCG     1.22 340 ePd   13 15.03  -0.3
SUA     1.24  12 eP    13 14.83  -0.7
PMS     1.31  40 P     13 15.80  -0.6
                S      13 32.50
AUL     1.39 232 P     13 17.50   0.0
AUP     1.40 231 eP    13 17.16  -0.6
AUH     1.41 231 eP    13 17.08  -0.7
AUW     1.42 232 eP    13 17.16  -0.7
PDB     1.53 253 eP    13 18.52  -0.9
                eS     13 38.06
PWA     1.56  26 P     13 19.20  -0.6
PWL     1.58  66 eP    13 18.73  -1.5
                eS     13 37.58
PLRM    1.71  37 ePd   13 20.57  -1.3
PMR     1.71  37 eP    13 19.94  -1.9
SKT     1.73 356 ePd   13 22.04  -0.3
                eS     13 43.81
LTI     1.73  96 ePc   13 20.16  -2.2
                eS     13 42.16
CDD     1.79 223 eP    13 22.18  -0.9
KNK     1.81  49 iPd   13 22.08  -1.3
                eS     13 43.18
MTU     1.84  97 eP    13 21.93  -1.9
GHO     1.91  36 eP    13 23.46  -1.4
CFI     1.97  60 iPd   13 23.47  -2.1
SML     2.12  42 eP    13 26.51  -1.3
CUT     2.21  12 eP    13 28.29  -0.7
SVW     2.29 294 (P)   13 27.47  -2.8
SCM     2.49  49 eP    13 31.98  -1.1
KLU     2.91  62 ePd   13 36.60  -2.4
TOA     3.10  51 P     13 40.20  -1.5
TZL     3.36  55 eP    13 43.55  -1.8
FBA     4.93  18 eP    14 04.72  -2.8
       54 obs. associated
-----------------------------------
?  OCT  19, 1993  13h 33m 37.12± 0.50s
   19.726 N ±12.2km  143.203 E ± 8.1km
   DEPTH =  33.0km  (normal)
   5.0mb ( 12 obs.)
 MARIANA ISLANDS REGION            (215)

SAPN    5.11 151 P     34 52.80  -0.6
                S      35 36.50
SSE    22.84 304 P     38 39.00   0.5
       1.0s    21.00nm          4.6mb
NJ2    25.04 304 Pd    39 01.00   1.1
TIA    28.16 311 eP    39 27.00  -1.5
HHC    34.21 315 eP    40 20.00  -1.9
       1.0s    17.00nm          4.9mb
LZH    38.12 304 eP    40 56.50   1.4
       1.6s    41.00nm          5.0mb
CHTO   41.70 276 eP    41 34.10   9.4X
GTA    42.05 307 P     41 27.30  -0.3
       1.5s    26.00nm          4.7mb
WMQ    51.86 311 P     42 44.80   0.3
       2.0s    45.00nm          5.1mb
GBA    62.98 276 P     44 11.00   7.7X
GMW    78.34  44 eP    45 34.31  -1.4
RES    78.98  13 eP    45 32.50  -6.2X
       1.0s     5.00nm          4.5mb
VGB    80.26  45 (P)   45 45.47  -0.8
LBFM   80.79  49 eP    45 49.16  -0.2
ORV    81.63  51 eP    45 53.17  -0.3
NEW    81.73  42 eP    45 52.41  -1.5
       1.0s    15.71nm          5.0mb
ARN    82.31  53 eP    45 57.07  -0.1
CMB    82.95  52 eP    46 00.20  -0.2
```

```
        1.1s    23.28nm          5.2mb
MMPM   84.10  52 eP    46 06.85   0.1
BONR   84.52  52 eP    46 08.90   0.2
LRM    85.61  43 eP    46 13.40  -0.6
TPNV   86.41  52 eP    46 18.49   0.5
        0.9s     9.95nm          5.0mb
GSC    86.60  54 eP    46 19.29   0.4
PEC    86.84  55 eP    46 20.29   0.3
HVU    87.02  47 eP    46 20.77  -0.1
ARUT   88.15  50 eP    46 26.94   0.6
MSU    88.77  49 eP    46 30.07   0.6
GLA    88.97  55 eP    46 31.30   1.1
EMUT   89.19  48 eP    46 31.58   0.2
SRU    89.69  48 eP    46 33.39  -0.3
PV09   90.93  48 eP    46 39.99   0.4
PV10   91.05  48 ePd   46 40.16   0.1
RSSD   91.70  42 eP    46 41.99  -0.9
        1.5s    18.22nm          5.3mb
TUC    92.38  55 eP    46 48.55   2.4
        1.2s     9.34nm          5.1mb
GOL    92.98  46 eP    46 49.67   0.7
        1.2s    20.61nm          5.4mb
LPB   150.11  89 PKP   53 34.60  12.5X
CNCB  150.27  90 PKP   53 34.10  11.5X
     S.D. = 0.9  on  32 of  37 obs.
-----------------------------------------
?  OCT  19, 1993  14h 16m 42.38± 2.54s
   15.172 N ±13.8km  120.395 E ±38.5km
   DEPTH =  33.0km  (normal)
 LUZON, PHILIPPINE ISLANDS          (249)

QVP     0.80 133 eP    16 56.50  -0.7
                 eS    17 09.00
TGY     1.18 154 iPd   17 03.00   0.3
                 iS    17 22.00
BCP     1.26   9 eP    17 03.80  -0.1
                 eS    17 23.00
GQP     2.35 122 ePc   17 20.00   0.5
                 eS    17 51.50
     S.D. = 0.9  on   4 of   4 obs.
-----------------------------------------
*  OCT  19, 1993  14h 24m 20.55± 1.62s
   31.343 S ± 9.5km   69.191 W ±13.2km
   DEPTH = 118.6 ± 15.4 km
 SAN JUAN PROVINCE, ARGENTINA       (137)

RTCB    0.36 113 iPd   24 37.50  -0.5
                 S     24 50.00
ZON     0.48 115 iPc   24 38.50   0.0
                 eS    24 51.00
CFA     0.85 108 iPd   24 41.90   0.5
                 S     24 56.00
RTRS    1.19 349 iPc   24 45.00   0.3
RTPR    2.53  66 iPc   25 00.70  -0.5
                 S     25 28.00
MRA     3.15 111 iPc   25 10.00   0.6
                 S     25 48.10
RFA     3.47 170 iPc   25 13.70  -0.2
                 S     25 55.00
TCA     3.94  91 iPc   25 20.00  -0.2
                 (S)   26 04.00
     S.D. = 0.5  on   8 of   8 obs.
-----------------------------------------
*  OCT  19, 1993  15h 31m 37.97± 0.44s
   38.791 N ± 7.9km   73.242 E ± 7.6km
   DEPTH =  33.0km  (normal)
   4.8mb ( 11 obs.)
 TAJIKISTAN-XINJIANG BORDER REG. (719)
      ML 4.6 (BJI).

KSH     2.23  72 iPgd  32 22.00   8.5X
                 Sn    32 50.00
NDI    10.61 161 iPc   34 11.00   0.3
        0.6s    26.67nm          5.6mb
MAIO   11.19 261 iPc   34 17.60  -1.2
        0.9s    31.97nm          5.5mb
                 eS    36 20.00
WMQ    11.97  61 P     34 31.00   1.7
POO    20.19 178 eP    36 14.50   1.8
GTA    20.61  80 Pd    36 18.00   1.0
        1.0s    18.00nm          4.4mb
     Z  10s     0.32um          4.0MszX
                 S     40 03.00
TAB    21.08 277 eP    36 25.00   3.2X
HYB    21.80 166 eP    36 33.00   3.9X
                 eS    40 12.00
GBA    25.36 170 P     37 03.00  -0.6
                 S     41 43.00
BTO    28.23  75 eP    37 30.80   0.9
XAN    28.98  88 P     37 36.00  -0.7
TIY    30.64  80 eP    37 52.10   0.7
MLR    35.29 297 eP    38 34.00   2.2
HFS    42.41 320 eP    39 30.90   0.3
        0.4s     4.90nm          4.6mb
GEC2   43.11 304 P     39 38.50   1.9
        0.5s     0.54nm          3.5mb X
NB2    43.66 321 P     39 41.20   0.3
        0.6s     2.60nm          4.2mb
DAG    53.07 343 eP    40 53.90   0.2
IMA    69.40  19 ePd   42 43.00  -1.3
        0.6s     8.90nm          5.0mb
TTA    71.25  21 eP    42 55.10  -0.5
INK    71.35  10 eP    42 55.50  -0.4
        0.5s     7.00nm          5.0mb
FBA    71.77  17 iPd   42 57.72  -0.8
        0.7s    10.99nm          5.0mb
CRP    73.68  21 (P)   43 10.08   0.1
PMR    74.23  20 eP    43 11.60  -1.3
        0.6s     8.10nm          4.9mb
TOA    74.54  18 eP    43 14.90   0.1
KLU    75.12  18 eP    43 17.71  -0.5
BALM   76.37  17 eP    43 24.77  -0.6
YKA    78.86   4 eP    43 38.20  -0.6
        0.5s     4.20nm          4.7mb
WR2    81.75 124 iPc   43 52.10  -2.7
        0.7s     2.60nm          4.4mb
     S.D. = 1.2  on  25 of  28 obs.
-----------------------------------------
*  OCT  19, 1993  16h 06m 29.73± 0.70s
   15.610 N ±17.4km   92.716 W ±12.6km
   DEPTH =  33.0km  (normal)
 MEXICO-GUATEMALA BORDER REGION  ( 62)
      MD 4.3 (GCG).

TPX     0.83 148 iP    06 45.00   0.1
                 iS    06 56.00
SCX     1.12   4 iP    07 01.00  11.9X
                 iS    07 21.50
BVA     2.22 115 ePd   07 05.17   0.0
IXG     2.61 123 ePd   07 11.01   0.3
                 eS    07 42.63
YUP     3.15 116 eP    07 17.90  -0.4
                 eS    07 57.96
OXX     4.12 291 iP    07 32.00  -0.1
                 iS    08 19.00
PPM     6.61 302 (P)   08 26.00  18.4X
PV08   26.83 332 eP    12 09.59   0.1
     S.D. = 0.3  on   6 of   8 obs.
-----------------------------------------
%  OCT  19, 1993  16h 34m 03.42± 1.87s
   28.815 S ±16.5km   68.594 W ±12.4km
   DEPTH = 120.0km  (geophysicist)
 LA RIOJA PROVINCE, ARGENTINA       (138)

RTRS    1.55 209 eP    34 32.00   0.3
                 S     34 54.00
RTPR    2.34 130 eP    34 42.00   0.3
                 S     35 09.00
CYA     2.49  82 iPc   34 43.50  -0.2
                 S     35 12.50
RTLL    2.51 178 iPc   34 43.50  -0.4
                 S     35 14.00
RTCB    2.67 184 iPc   34 46.00  -0.1
                 S     35 18.00
CFA     2.80 174 ePd   34 47.90   0.1
                 S     35 21.00
TCA     4.29 127 eP    35 08.00   0.2
MRA     4.36 146 e(P)d 35 08.60  -0.1
     S.D. = 0.3  on   8 of   8 obs.
-----------------------------------------
   OCT  19, 1993  16h 45m 29.53± 1.16s
   21.453 N ± 4.6km  143.591 E ± 5.2km
   DEPTH =  42.1 ± 10.8 km
   5.0mb ( 25 obs.)
 MARIANA ISLANDS REGION             (215)

GUMO    7.92 171 eP    47 25.10   0.1
        1.3s   160.90nm          5.8mb
                 e(S)  48 54.10
PJG     7.92 171 eP    47 26.00   1.0
GUA     7.97 171 eP    47 25.60  -0.2
KAGJ   14.94 313 eP    49 06.50   6.9X
MAT    15.75 344 (P)   49 09.00  -1.0
KUMJ   15.83 317 eP    49 13.80   2.7X
SHNJ   16.75 322 eP    49 26.20   3.5X
YAMJ   16.94 350 eP    49 27.10   2.0
OFUJ   17.65 355 eP    49 32.10  -1.7
SSE    22.23 300 P     50 23.50  -0.6
        1.0s    25.00nm          4.6mb
     Z  16s     0.40um          3.9MszX
     N  10s     0.20um
     E  10s     0.20um
BAG    22.33 261 eP+   50 27.20   1.9
                 eS    54 34.00
QCP    22.44 256 eP    50 46.50  20.3X
DAV    22.52 233 eP    50 28.00   1.0
QZH    23.23 283 eP    50 35.00   1.1
                 S     54 32.00
CTB    23.49 236 ePd   50 41.00   4.5X
NJ2    24.43 301 Pc    50 46.00   0.5
DL2    25.64 318 eP    50 56.00  -0.9
MDJ    25.83 337 eP    51 02.00   3.3X
SNY    26.39 325 Pc    51 04.00   0.2
        0.8s    17.00nm          4.7mb
     Z  20s     0.48um          4.0Msz
     E  11s     0.38um
                 S     55 39.50
CN2    26.90 330 eP    51 13.00   4.5X
     Z  18s     0.60um          4.2Msz
     N  10s     0.16um
     E  10s     0.24um
TIA    27.34 308 eP    51 11.30  -1.3
BJI    29.79 315 eP    51 36.00   1.4
     Z  16s     0.29um          4.0MszX
TIY    31.38 308 eP    51 49.00   0.2
     Z  18s     0.73um          4.4Msz
     N  11s     0.34um
XAN    32.99 300 P     52 01.50  -1.3
        1.2s     6.60nm          4.4mb
BTO    34.24 312 eP    52 13.00  -0.6
     N  12s     0.24um
     E  11s     0.29um
                 eS    57 34.00
CD2    36.80 293 eP    52 35.00  -0.4
     Z  16s     0.71um          4.5MszX
LZH    37.50 302 eP    52 40.00  -1.3
        1.8s    59.00nm          5.2mb
     Z  13s     0.44um          4.4MszX
GTA    41.32 306 eP    53 12.00  -1.0
        1.6s    43.00nm          4.9mb
     Z  14s     0.35um          4.4MszX
                 pP    53 24.00  44kmX
CTA    41.37 176 iPc   53 13.50   0.2
        1.5s    48.61nm          5.0mb
NST    41.50 270 eP    53 15.50   1.0
CHTO   41.90 275 eP    53 18.40   0.6
        1.2s    18.06nm          4.7mb
WR2    42.12 193 iPc   53 17.90  -1.6
        1.1s    11.10nm          4.5mb
WRA    42.13 193 P     53 18.79  -0.7
        0.8s     2.80nm          4.0mb
ASPA   45.83 192 P     53 49.09  -0.3
LSA    47.68 291 P     54 05.60   1.0
DZM    48.67 151 iPc   54 08.70  -3.0
WMQ    51.03 310 P     54 29.50  -0.1
        1.0s    28.00nm          5.2mb
     Z  20s     0.27um          4.3Msz
ARMA   52.15 171 eP    54 38.00  -0.2
        1.2s    23.00nm          5.1mb
BWA    55.76 175 eP    55 04.10  -0.4
CAN    56.69 175 eP    55 10.70  -0.5
TTA    57.73  28 eP    55 19.06   0.7
GBA    63.18 275 P     55 55.00  -1.0
BALM   63.76  31 eP    55 57.59  -1.8
POO    65.11 281 eP    56 11.00   2.4
INK    67.64  24 eP    56 23.00  -0.9
        1.0s     3.00nm          4.3mb
MAIO   73.04 303 eP    56 59.00   1.6
GMW    76.85  44 eP    57 19.25   0.4
RES    77.22  13 eP    57 18.00  -2.4
        1.0s     6.00nm          4.6mb
SHW    77.62  45 eP    57 24.35   1.1
LGPM   78.87  50 eP    57 30.58   0.3
NEW    80.21  42 eP    57 37.50   0.3
        0.8s    16.92nm          5.1mb
ORV    80.27  51 eP    57 37.30  -0.4
COE    80.92  54 eP    57 41.49   0.3
ARN    80.99  54 eP    57 41.71   0.1
CMB    81.61  53 eP    57 44.41  -0.4
        1.3s    43.25nm          5.3mb
BCH    82.85  55 eP    57 51.68   0.3
```

19d 16h

```
BONR   83.17  52 eP    57 53.50   0.3
ISA    83.90  54 eP    57 56.31  -0.3
       1.3s    19.59nm          5.0mb
TNP    83.92  52 eP    57 56.93   0.0
       1.4s    35.08nm          5.3mb
LRM    84.10  43 eP    57 57.40  -0.3
TPNV   85.07  52 eP    58 03.17   0.6
       0.9s    14.93nm          5.2mb
GSC    85.29  54 eP    58 03.86   0.2
PEC    85.57  55 eP    58 04.98   0.0
       1.3s    40.64nm          5.5mb
HVU    85.58  47 eP    58 05.54   0.5
DUG    86.22  48 eP    58 08.71   0.5
       1.1s    40.58nm          5.6mb
ARUT   86.78  51 eP    58 11.45   0.4
FCC    87.09  26 eP    58 12.00   0.1
MSU    87.38  50 eP    58 14.84   0.8
GLA    87.69  55 eP    58 15.61   0.2
EMUT   87.76  48 eP    58 16.28   0.4
SRU    88.28  48 eP    58 18.45   0.2
NB2    89.31 339 P     58 19.90  -2.7
       0.9s     4.30nm          4.8mb
PV09   89.52  49 eP    58 24.68   0.3
PV10   89.64  49 eP    58 25.18   0.3
PV08   89.83  48 eP    58 25.95   0.1
TUC    91.09  55 eP    58 32.45   1.0
ULM    91.44  34 eP    58 35.00   2.5
GOL    91.53  46 eP    58 33.85   0.3
       1.2s    30.00nm          5.6mb
GLD    91.60  46 eP    58 35.15   1.4
GEC2   96.99 329 P     58 56.00  -2.2
       0.9s     1.00nm          4.4mb
WMOK   98.60  48 eP    59 05.28  -0.3
       1.0s     4.52nm          5.0mb
LPAZ  149.58  86 PKP   05 13.10   0.3
LPB   149.67  86 ePKP  05 12.00  -0.7
CNCB  149.85  87 PKP   05 14.00   0.9
     S.D. = 1.1  on  77 of  84 obs.
-----------------------------------
*  OCT  19, 1993  17h 23m 43.55± 1.01s
   50.228 N ±15.2km   18.928 E ± 6.1km
   DEPTH =  10.0km  (geophysicist)
 POLAND                            (548)
      ML 3.2 (WAR).

RAC     0.49 253 iP    23 53.70   0.1
                 iS    24 02.00
OJC     0.56  91 iPgd  23 54.40  -0.5
                 iSg   24 02.60
SPC     1.35 140 iPn   24 09.10   0.6
                 i(Sn) 24 27.20
                 Lg    24 32.00
VRAC    1.77 240 ePn   24 15.00   0.6
                 eSg   24 38.50
KSP     1.79 291 iPg   24 15.80   1.1
       0.8s    60.00nm
                 iS    24 39.10
ZST     2.36 211 e(P)  24 10.70 -12.2X
                 e     24 36.70
SRO     2.45 190 eP    24 39.00  14.8X
PRU     2.83 267 Pg    24 35.30   5.6X
       0.4s     7.20nm
                 Sg    25 09.10
KHC     3.64 255 ePn   24 39.50  -1.7
                 Sg    25 37.50
GEC2    3.67 250 Pn    24 41.30  -0.4
                 Pg    24 50.20
                 Sn    25 17.70
                 Sg    25 38.80
     S.D. = 1.2  on   7 of  10 obs.
-----------------------------------
&  OCT  19, 1993  18h 02m 44.00s
   61.426 N          150.766 W
   DEPTH =  58.8km
 SOUTHERN ALASKA                   (  2)
      <AEIC>. ML 2.6 (AEIC).

SUA     0.04  16 iPd   02 53.03   1.7
                 eS    03 00.72
PWA     0.48  62 iPc   02 55.41  -0.3
CGLM    0.61 259 iPd   02 56.77  -0.5
PMS     0.61 107 iPc   02 57.01  -0.2
                 eS    03 07.84
SKT     0.66 327 iPc   02 57.06  -0.8
                 eS    03 07.71
SPU     0.67 249 iPd   02 57.27  -0.7
                 eS    03 08.16
NCG     0.67 269 ePc   02 57.52  -0.5
                 eS    03 08.32
CRP     0.69 257 eP    02 57.79  -0.5
                 eS    03 09.01
CKN     0.71 254 eP    02 58.11  -0.4
NKA     0.72 199 iPd   02 59.85   1.3
CP2     0.73 258 eP    02 58.31  -0.6
CKT     0.73 253 iPd   02 58.03  -0.7
                 eS    03 09.37
CKL     0.79 254 iPd   02 58.88  -0.7
BGL     0.80 259 eP    02 59.13  -0.5
PLRM    0.80  77 iPc   02 58.76  -0.8
                 eS    03 11.03
BKG     0.81 244 iPd   02 59.05  -0.7
                 eS    03 11.26
GHO     0.95  68 ePc   03 00.82  -0.7
                 eS    03 14.61
SLKM    0.96 164 iPd   03 00.91  -0.7
                 eS    03 14.53
CUT     1.01  13 eP    03 01.47  -0.8
                 eS    03 15.19
KNK     1.11  90 ePc   03 02.92  -0.7
                 eS    03 18.21
MPA     1.16 143 eP    03 03.86  -0.5
                 eS    03 19.92
RDT     1.17 224 iPd   03 03.82  -0.7
                 eS    03 19.90
SML     1.22  71 ePc   03 04.16  -1.1
DFR     1.26 229 ePd   03 05.04  -0.7
                 eS    03 22.23
PWL     1.31 115 eP    03 05.17  -1.2
REF     1.33 226 eP    03 06.26  -0.6
                 eS    03 24.00
NCT     1.37 232 eP    03 06.70  -0.5
                 eS    03 24.90
RS2     1.37 226 eP    03 06.83  -0.6
                 eS    03 25.59
RDW     1.37 227 eP    03 06.99  -0.5
                 eS    03 25.12
RED     1.41 225 ePd   03 07.21  -0.6
                 eS    03 25.75
CFI     1.47  98 eP    03 07.17  -1.3
SCM     1.69  75 eP    03 10.40  -1.3
ILIM    1.73 220 eP    03 11.87  -0.3
INE     1.77 220 eP    03 12.49  -0.5
CNPM    1.92 187 eP    03 14.53  -0.3
VZW     2.07  98 eP    03 14.91  -2.1
MTU     2.10 132 eP    03 15.34  -2.1
OPT     2.16 215 eP    03 17.96  -0.2
VLZ     2.16  96 eP    03 15.99  -2.2
FID     2.19 106 eP    03 15.72  -2.9
TOA     2.29  71 eP    03 19.20  -0.9
KLU     2.33  86 eP    03 18.39  -2.3
SVW     2.37 264 eP    03 19.37  -1.8
SGAM    2.87 106 eP    03 25.01  -3.2
CDD     2.89 211 eP    03 27.91  -0.6
IL1     3.79  26 eP    03 39.92  -1.3
BC3     4.51  65 eP    03 49.83  -1.5
IM3     4.76 345 eP    03 52.76  -2.1
       48 obs. associated
-----------------------------------
%  OCT  19, 1993  18h 05m 01.47± 0.75s
   28.052 S ± 6.7km   26.793 E ± 9.4km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA          (584)
      ML 2.9 (PRE).

SEK     0.78 110 eP    05 17.40   0.1
                 S     05 28.00
BFS     1.15 360 eP    05 23.80   0.3
                 S     05 38.60
BLF     1.18 207 eP    05 24.10   0.0
                 S     05 40.20
FRS     2.13 217 eP    05 38.00  -0.1
                 S     06 03.00
SLR     2.66  30 eP    05 45.60  -0.3
                 S     06 15.00
     S.D. = 0.3  on   5 of   5 obs.
-----------------------------------
%  OCT  19, 1993  18h 13m 55.41± 0.43s
   38.318 N ± 4.0km    1.380 W ± 4.4km
   DEPTH =  10.0km  (geophysicist)
 SPAIN                             (377)
      mbLg 3.5 (MDD).

EALH    0.46 184 iPd   14 03.85  -0.9
                 e     14 11.60
ACU     0.79  75 iPd   14 10.89   0.2
EVIA    0.94 290 iPc   14 14.31   0.9
                 e     14 28.10
ECHE    1.31  14 iPd   14 19.83   0.2
                 e     14 37.40
ENIJ    1.50 206 eP    14 23.50   1.2
                 e     14 41.90
EBAN    1.90 266 iPc   14 28.14   0.0
                 e     14 53.10
EGUA    2.28 230 eP    14 34.20   0.5
                 e     15 03.10
ELUQ    2.40 253 eP    14 36.16   0.7
                 e     15 05.00
ETOR    2.55 348 eP    14 37.89   0.3
EROQ    2.86  28 iPc   14 41.72  -0.1
                 e     15 15.70
EBR     2.89  30 (P)   14 42.00  -0.2
EHOR    3.09 262 eP    14 44.02  -1.1
                 e     15 21.30
GUD     3.16 318 eP    14 46.63   0.4
                 e     15 23.70
EPRU    3.34 247 eP    14 49.06   0.3
EGRA    3.96  12 eP    14 57.61   0.2
EPLA    4.05 297 eP    14 57.44  -1.3
                 e     15 43.80
EVAL    4.31 262 eP    15 01.84  -0.6
ECRI    4.37 349 eP    15 03.08  -0.3
     S.D. = 0.7  on  18 of  18 obs.
-----------------------------------
%  OCT  19, 1993  19h 08m 21.04± 3.03s
   33.103 S ±11.9km   70.880 W ±11.7km
   DEPTH =  69.6 ± 30.3 km
 CHILE-ARGENTINA BORDER REGION     (127)
      MD 3.4 (SAN).

PEL     0.17 104 iPd   08 31.92   0.1
                 iS    08 39.99
ROCH    0.17 320 iP    08 32.09   0.0
                 iS    08 40.29
JACH    0.48  30 iP    08 33.90  -0.1
                 iS    08 43.72
TACH    0.55 185 iP    08 34.44  -0.1
                 iS    08 44.65
PCH     0.60 149 iP    08 34.97  -0.2
                 iS    08 45.87
LCCH    0.69 237 iP    08 36.09   0.1
                 iS    08 47.96
LNV     0.96 207 iP    08 39.00  -0.2
                 iS    08 52.62
CACH    1.04 167 iP    08 40.66   0.3
                 iS    08 55.75
     S.D. = 0.2  on   8 of   8 obs.
-----------------------------------
?  OCT  19, 1993  19h 31m 20.68± 3.62s
   32.005 N ±29.7km  118.800 W ±14.3km
   DEPTH =  10.0km  (geophysicist)
 OFF COAST OF CALIFORNIA           ( 38)
      ML 3.5 (GS).

PLM     2.12  50 eP    31 56.21  -0.5
PEC     2.33  36 eP    31 59.36  -0.4
                 eS    32 27.75
SSK     2.39  23 iPd   32 00.37  -0.3
                 eS    32 28.34
ABL     2.86 353 eP    32 07.17  -0.2
BCH     3.35 342 eP    32 14.59   0.4
                 eS    32 53.90
GLA     3.52  72 eP    32 16.76   0.3
GSC     3.69  26 eP    32 19.52   0.5
TPNV    5.36  22 ePc   32 43.50   0.6
ORV     7.85 345 (P)   33 17.18  -0.4
     S.D. = 0.5  on   9 of   9 obs.
-----------------------------------
*  OCT  19, 1993  19h 39m 07.07± 1.55s
   37.018 N ±11.1km  142.597 E ±14.6km
   DEPTH =  33.0km  (normal)
 OFF EAST COAST OF HONSHU, JAPAN (229)

KAKJ    2.11 248 P     39 39.50  -1.2
                 S     40 02.80
OFUJ    2.19 341 eP    39 41.90   0.1
                 eS    40 05.30
YAMJ    2.34 300 iPd   39 43.50  -0.5
                 eS    40 09.20
NIIJ    2.88 275 P     39 50.80  -0.9
CHJJ    3.06 253 P     39 53.40  -0.8
                 S     40 25.70
```

```
MAT      3.55 264 eP    40 01.00   -0.3
                  eS    40 46.00
MTMJ     3.87 265 P     40 06.50    0.7
AOMJ     3.94 335 eP    40 07.50    0.8
IIDJ     4.09 249 P     40 09.90    1.0
                  S     40 55.40
HOOJ     5.38   5 eP    40 27.60    0.5
                  eS    41 26.50
TSRJ     5.54 257 P     40 30.60    1.2
KUSJ     6.29  14 eP    40 39.20   -0.6
                  eS    41 46.10
WKYJ     6.35 246 eP    40 41.10    0.2
ASAJ     7.09   0 eP    40 50.90   -0.3
TKSJ     7.60 249 eP    40 58.80    0.5
YONJ     7.62 259 eP    40 58.10   -0.4
GEC2    83.22 329 P     51 41.70   10.3X
         0.9s      0.92nm
LPB    146.07  61 ePKP  58 51.00    5.7X
CNCB   146.34  62 PKP   58 51.70    5.8X
     S.D. = 0.8  on  16 of  19 obs.
-----------------------------------
%  OCT  19, 1993  20h 04m 53.32± 0.94s
   31.494 S ±11.9km   68.605 W ±12.0km
   DEPTH = 100.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA     (137)

RTCB     0.17 272 iPd   05 08.00    0.0
                  S     05 18.50
RTLL     0.20  35 iPd   05 08.00    0.0
                  S     05 18.20
CFA      0.33 110 iPc   05 09.30    1.0
                  S     05 21.00
RTPR     2.16  57 eP    05 28.00   -0.4
                  S     05 55.00
MRA      2.63 111 ePc   05 35.40    0.7
                  S     06 07.50
RFA      3.27 178 ePc   05 43.00   -0.6
                  S     06 23.00
TCA      3.44  88 iP    05 45.30   -0.6
     S.D. = 0.8  on   7 of   7 obs.
-----------------------------------
?  OCT  19, 1993  21h 00m 53.74± 5.41s
   38.727 N ±34.2km   24.142 E ±33.6km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                       (365)

PAIG     1.25 343 ePg   01 17.06    0.1
AGG      1.44 282 ePb   01 19.90   -0.1
                  eSb   01 41.02
OUR      1.61 356 iPb   01 22.53    0.3
LIT      1.88 318 ePb   01 26.38    0.2
SOH      2.18 344 ePn   01 30.66    0.1
SRS      2.42 350 ePn   01 33.90   -0.1
                  eSn   02 01.50
KNT      2.61 339 ePn   01 36.10   -0.6
                  eSn   02 07.30
     S.D. = 0.4  on   7 of   7 obs.
-----------------------------------
   OCT  19, 1993  22h 43m 27.59± 0.43s
   31.856 S ± 6.7km   69.571 W ± 6.1km
   DEPTH = 130.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA     (137)
      MD 3.8 (SAN).

RTCB     0.75  61 iPd   43 48.20   -0.6
                  S     44 02.00
ZON      0.82  68 iPd   43 49.50    0.2
                  eS    44 04.50
RTLL     1.08  61 iPd   43 51.20   -0.4
                  S     44 07.00
CFA      1.16  78 iPc   43 52.50    0.1
                  S     44 10.00
JACH     1.19 226 iP    43 52.90    0.1
                  iS    44 11.88
PEL      1.59 216 iPd   43 57.32    0.2
                  iS    44 18.86
ROCH     1.65 227 iP    43 57.62   -0.4
                  iS    44 19.88
RTRS     1.68   3 iPd   43 59.00    0.9
PCH      1.93 204 iP    44 01.83    0.6
                  eS    44 28.50
TACH     2.13 212 iP    44 03.57   -0.1
                  iS    44 31.59
LCCH     2.33 226 iP    44 05.67   -0.5
                  iS    44 34.52
CACH     2.42 201 iP    44 08.32    1.0
                  iS    44 39.23
LNV      2.60 216 iP+   44 08.57   -1.0
                  iS    44 39.39
RFA      3.05 163 iPc   44 16.00    0.4
                  S     44 52.00
MRA      3.32 101 ePd   44 19.40    0.3
                  S     44 57.70
TCA      4.28  84 iP    44 31.30   -0.7
     S.D. = 0.6  on  16 of  16 obs.
-----------------------------------
   OCT  19, 1993  22h 50m 38.50± 0.66s
   35.140 N ± 6.6km   25.888 E ± 4.2km
   DEPTH =  83.4 ±  5.9 km
   4.3mb ( 14 obs.)
 CRETE                            (370)
      MD 4.2 (HLW), 3.7 (ROM).

NPS      0.26 299 eP    50 52.00    0.9
VLI      2.87 304 eP    51 23.50    0.6
CIN      3.03  35 iPd   51 27.00    1.9
ATH      3.32 329 eP    51 30.00    0.8
IZM      3.43  18 iPn   51 30.20   -0.6
ELL      3.64  63 iPn   51 35.00    1.3
KHL      4.31  42 iPn   51 43.00   -0.2
BCK      4.45  57 iPn   51 45.40    0.4
EZN      4.69   4 iPn   51 47.10   -1.2
AGG      4.81 325 ePn   51 50.56    0.6
DST      4.96  25 ePn   51 52.40    0.3
PAIG     5.09 340 ePn   51 54.20    0.4
ALT      5.16  40 ePn   51 54.70   -0.3
VLS      5.23 307 eP    51 55.20   -0.6
PPCY     5.31  91 eP    51 56.00   -0.9
                  eS    52 54.00
OUR      5.40 344 ePn   51 58.24    0.1
EDC      5.43  16 ePn   51 58.00   -0.6
LIT      5.64 332 iPn   52 01.96    0.4
                  eSn   53 10.00
ALN      5.75   1 ePn   52 02.48   -0.5
THE      5.95 338 ePn   52 06.80    1.0
RDO      6.00 357 eP    52 06.50    0.0
SOH      6.01 341 ePn   52 07.56    0.8
KZN      6.10 329 eP    52 09.00    1.0
CSS      6.11  90 ePc   52 06.50   -1.5
                  eS    53 12.00
IGT      6.23 316 ePn   52 07.40   -2.3
SRS      6.24 344 ePn   52 10.08    0.3
GRG      6.43 336 ePn   52 12.76    0.4
KNT      6.46 339 ePn   52 13.68    0.9
LSK      6.53 322 ePn   52 13.50   -0.3
RZN      6.60 352 iPc   52 15.00    0.0
FAM      6.66  89 eP    52 15.50    0.0
KEK      6.66 315 eP    52 12.80   -2.7
FNA      6.67 329 iPn   52 18.40    2.7
VAY      6.70 338 iPn   52 16.80    0.7
KBN      6.80 325 ePn   52 18.00    0.4
DMK      6.83  12 iP    52 17.10   -0.8
DIM      6.91 358 eP    52 19.00    0.0
TPE      6.94 320 ePn   52 20.00    0.6
HLW      7.00 137 (P)   52 20.50    0.3
                  eSn   53 34.50
PLD      7.02 353 eP    52 21.00    0.5
KKB      7.07 343 iP    52 21.00   -0.2
OHR      7.18 328 iPn   52 20.20   -2.7
                  i     52 26.10
                  i     53 36.60
                  LR    53 41.00
VLO      7.34 318 ePn   52 26.00    1.1
PGB      7.52 350 eP    52 27.00   -0.5
SKO      7.66 334 iPn   52 32.00    2.7
                  i     53 49.80
TIR      7.80 324 ePn   52 32.70    1.4
PVL      8.08 357 eP    52 34.00   -1.1
LACI     8.10 325 ePn   52 40.30    5.0X
GMB      8.60 293 P     52 39.88   -2.6
ATN      8.90 293 P     52 43.95   -2.5
MEU      9.08 286 P     52 47.16   -1.8
GIB      9.96 290 P     53 01.21    0.4
FAI     10.10 286 P     53 03.52    0.9
MLR     10.34   0 eP    53 05.00   -1.0
VRI     10.74   3 eP    53 12.00    0.8
HVAR    10.86 320 ePn   53 07.70   -5.2X
BZS     10.96 344 eP    53 06.00   -8.1X
VOY     14.17 324 e(P)  53 52.30   -4.2X
                  e     53 57.20
                  eS    56 19.00
VRAC    15.72 337 eP    54 18.50    2.3
         0.6s     68.30nm          5.0mb
GEC2    16.39 330 Pn    54 23.50   -1.2
                  Sn    58 07.10
OSS     16.54 319 ePd   54 30.20    3.5X
KHC     16.67 331 P     54 27.00   -1.1
         0.8s      6.80nm          3.9mb
                  e     54 30.00
TMA     16.90 316 ePd   54 33.50    2.4
PRU     17.00 334 P     54 30.00   -2.2
         0.7s      4.70nm          3.8mb
                  i     54 33.50
                  e     55 04.50
KSP     17.17 339 eP    54 33.20   -1.0
                  i     54 35.30
LLS     17.27 318 ePd   54 38.80    3.0X
MMK     17.40 314 ePc   54 37.80    0.4
DIX     17.74 314 ePd   54 42.70    1.1
BRG     17.95 335 e(P)  54 44.10    0.3
EMS     18.02 313 ePd   54 44.90    0.0
GRF     18.08 328 eP    54 44.00   -1.5
MOX     18.64 331 e(P)  54 51.30   -0.8
CLL     18.64 334 iP    54 50.30   -1.8
         0.9s     16.00nm          4.3mb
WLF     20.48 321 iPc   55 12.49    1.0
         0.8s     61.00nm          5.0mb
ENN     21.28 323 eP    55 20.50    0.9
         0.9s     13.40nm          4.3mb
                  e     55 23.00
OBN     21.30  17 eP    55 19.00   -0.7
         0.7s     12.00nm          4.4mb
                  e     55 24.00
                  e     55 34.00
BSD     21.37 343 iPc   55 18.00   -2.4
         0.4s     11.00nm          4.6mb
DOU     21.55 320 Pd    55 22.70    0.5
         0.4s     34.30nm          5.1mb
WTS     21.68 327 eP    55 24.50    0.9
         0.6s      5.60nm          4.1mb
SNF     21.95 321 P     55 27.80    1.5
UCC     22.08 322 P-    55 29.00    1.4
HFS     26.23 346 eP    56 05.60   -1.5
         0.4s      2.00nm          3.9mb
NB2     27.57 345 P     56 17.60   -1.7
         0.9s      2.90nm          3.9mb
EKA     28.40 324 Pd    56 27.20    0.4
         0.4s      7.10nm          4.6mb
EBL     28.59 325 eP    56 27.80   -0.7
EDI     28.74 325 eP    56 29.80    0.0
EDR     29.03 327 eP    56 31.10   -1.3
EBH     29.08 326 eP    56 32.60   -0.2
ELO     29.29 326 eP    56 34.20   -0.6
EAB     29.43 325 eP    56 35.90   -0.1
FOO     29.60 340 eP    56 59.36   21.9X
JAQ     68.69 321 eP    01 37.00    2.2
GAC     72.81 314 eP    02 02.50    2.8
INK     75.72 352 eP    02 17.50    1.5
         0.5s      2.00nm          4.3mb
ULM     80.66 326 eP    02 48.00    4.7X
     S.D. = 1.3  on  87 of  95 obs.
-----------------------------------
%  OCT  19, 1993  22h 56m 50.92± 1.02s
   61.446 N ± 9.6km    5.726 E ±10.6km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN NORWAY                  (535)
      MD 1.9 (BER).

SUE      0.61 231 eP    57 03.32    0.2
                  eS    57 11.51
ASK      1.00 195 eP    57 09.40   -0.4
                  eS    57 23.09
EGD      1.20 192 eP    57 12.90   -0.4
                  iS    57 28.78
MOL      1.42  37 eP    57 16.77    0.1
                  eS    57 36.35
ODD1     1.60 164 eP    57 20.40    1.0
                  eSg   57 41.89
NRA0     2.91 102 Pn    57 37.71   -0.4
                  Pg    57 41.43
                  Sn    58 13.48
                  Lg    58 20.88
     S.D. = 0.7  on   6 of   6 obs.
-----------------------------------
%  OCT  19, 1993  23h 18m 13.00± 0.67s
   40.156 N ± 6.0km   29.223 E ± 6.1km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 2.8 (ISK).

IZI      0.26  47 iPg   18 18.00   -0.6
```

19d 23h

```
                 eSg   18 23.00
DST     0.72 220 iPg   18 27.50   0.4
                 eSg   18 37.00
HRT     0.75  27 ePg   18 28.00   0.4
GPA     0.84  81 ePg   18 30.30   1.0
                 eSg   18 42.80
ISK     0.92 352 ePg   18 30.00  -0.5
EDC     1.06 281 iPn   18 33.00   0.1
ALT     1.30 148 iPn   18 36.20  -0.9
     S.D. = 0.8  on   7 of   7 obs.
-----------------------------------
%  OCT  19, 1993  23h 18m 45.84± 0.61s
   40.123 N ± 5.3km   29.271 E ± 5.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.9 (ISK).

IZI     0.26  36 ePg   18 51.50   0.0
                 eSg   18 55.50
DST     0.72 224 ePg   19 00.30   0.3
                 eSg   19 09.50
HRT     0.76  23 ePg   19 01.10   0.4
GPA     0.81  78 ePg   19 01.80   0.2
ISK     0.96 350 ePg   19 03.50  -0.5
EDC     1.10 282 ePn   19 06.50   0.0
ALT     1.25 148 ePn   19 08.70  -0.4
     S.D. = 0.4  on   7 of   7 obs.
-----------------------------------
%  OCT  19, 1993  23h 36m 32.71± 1.70s
   30.353 S ±21.7km   67.127 W ± 8.7km
   DEPTH =  33.0km  (normal)
 SAN JUAN PROVINCE, ARGENTINA      (137)

RTPR    0.53  85 eP    36 44.00   0.2
RTLL    1.51 230 ePc   36 56.70  -1.1
                 S     37 17.00
CFA     1.57 217 ePd   36 59.30   0.6
                 S     37 16.00
RTCB    1.83 231 ePc   37 03.00   0.5
                 S     37 25.50
MRA     2.38 150 ePc   37 10.30   0.0
                 S     37 42.00
TCA     2.39 115 iPd   37 10.20  -0.3
                 (S)   37 43.00
     S.D. = 0.8  on   6 of   6 obs.
-----------------------------------
   OCT  20, 1993  00h 57m 59.15± 0.56s
   40.330 N ± 6.0km   22.027 E ± 4.4km
   DEPTH =   5.0km  (geophysicist)
 GREECE                            (364)
      ML 2.7 (THE).

LIT     0.42 123 iPg   58 06.17  -1.5
                 iSg   58 12.65
FNA     0.67 313 ePg   58 12.16  -0.4
                 eSg   58 23.20
GRG     0.69  24 iPg   58 13.65   0.8
                 eSg   58 23.40
THE     0.78  67 ePg   58 14.72   0.0
                 eSg   58 27.41
KBN     0.99 288 ePn   58 15.50  -2.9
KNT     1.06  38 iPg   58 19.93   0.3
                 eSg   58 35.36
LSK     1.11 261 ePn   58 21.40   0.9
SOH     1.12  64 ePg   58 21.82   1.1
                 eSg   58 36.65
OHR     1.22 310 iPn   58 21.50  -0.8
                 i     58 22.60
                 i     58 40.90
                 i     58 42.10
AGG     1.33 170 ePb   58 23.84  -0.3
PAIG    1.33 107 ePb   58 23.64  -0.5
                 iSb   58 40.93
SRS     1.43  56 ePb   58 26.20   0.5
                 iSb   58 45.78
OUR     1.49  89 ePb   58 26.32  -0.3
IGT     1.53 239 ePb   58 29.80   2.7
TPE     1.54 269 ePn   58 28.00   0.7
SKO     1.70 345 ePn   58 29.50  -0.1
TIR     1.93 302 ePn   58 41.50   8.6X
VLO     1.94 275 ePn   58 38.70   5.7X
     S.D. = 1.3  on  16 of  18 obs.
-----------------------------------
*  OCT  20, 1993  01h 00m 21.10± 1.48s
   46.814 N ±12.6km  150.897 E ±12.7km
   DEPTH = 171.0 ± 16.5 km
   3.8mb (  8 obs.)
```

```
 KURIL ISLANDS                     (221)

KUSJ    5.75 232 P     01 43.90  -1.5
                 eS    02 45.00
ASAJ    6.40 248 P     01 57.50   3.4X
HOOJ    7.01 234 eP    02 02.70   0.6
                 eS    03 17.50
MRRJ    8.27 241 eP    02 19.90   1.1
                 eS    03 46.80
IMA    34.65  36 ePc   06 55.51   0.0
KLU    38.15  44 eP    07 24.93   0.0
INK    42.41  32 eP    08 00.50   0.9
        0.6s     1.00nm          3.6mb
YKA    51.78  36 eP    09 08.10  -4.6X
        0.6s     3.70nm          4.2mb
LRM    62.36  52 eP    10 27.50  -0.1
                 e     11 13.60
NB2    67.66 340 P     11 00.10  -1.0
        0.5s     0.70nm          3.7mb
HFS    67.85 338 eP    11 00.30  -1.9
        0.4s     1.40nm          4.1mb
SRU    67.86  56 ePd   11 02.59  -0.2
WRA    68.11 197 P     11 03.70  -0.5
        1.0s     1.70nm          3.8mb
PV10   69.20  56 eP    11 11.52   0.3
PV08   69.29  55 eP    11 11.49  -0.3
ASPA   71.81 196 iPd   11 27.10   0.5
        0.8s     6.10nm          4.4mb
ALQ    73.09  57 eP    11 35.00   0.7
        1.0s     1.75nm          3.7mb
KHC    77.50 333 eP    12 00.00   1.2
GEC2   77.72 333 P     12 00.30   0.3
        0.6s     0.58nm          3.5mb
                 e     12 05.00
DLF    78.43 346 eP    12 04.30   0.6
LTX    78.78  59 eP    12 05.13  -1.0
     S.D. = 0.9  on  19 of  21 obs.
-----------------------------------
   OCT  20, 1993  01h 12m 26.23± 0.51s
   40.316 N ± 5.6km   22.074 E ± 3.9km
   DEPTH =   5.0km  (geophysicist)
 GREECE                            (364)
      ML 2.6 (THE).

LIT     0.38 124 iPg   12 32.81  -1.1
                 iSg   12 39.18
GRG     0.69  21 ePg   12 40.26   0.3
                 eSg   12 48.86
FNA     0.71 312 ePg   12 40.60   0.2
                 iSg   12 50.82
THE     0.75  65 ePg   12 41.22   0.0
                 eSg   12 52.14
KBN     1.03 288 ePn   12 43.20  -3.0
KNT     1.05  36 ePg   12 47.02   0.5
                 eSg   13 01.94
SOH     1.10  62 ePg   12 48.10   0.7
                 eSg   13 03.62
LSK     1.14 262 ePn   12 49.00   0.9
OHR     1.25 310 iPn   12 48.50  -1.5
                 i     13 07.40
                 i     13 08.80
PAIG    1.29 107 ePb   12 50.18  -0.4
                 iSb   13 07.93
AGG     1.31 171 iPb   12 50.54  -0.4
SRS     1.40  55 ePb   12 52.54   0.0
OUR     1.46  89 ePb   12 53.30   0.1
IGT     1.55 240 ePb   12 56.34   1.8
TPE     1.58 270 ePn   12 56.50   1.6
SKO     1.72 344 ePn   12 57.50   0.5
TIR     1.97 302 ePn   13 00.30  -0.3
     S.D. = 1.2  on  17 of  17 obs.
-----------------------------------
?  OCT  20, 1993  01h 34m 51.53± 1.22s
   10.300 N ±10.2km  125.304 E ±15.8km
   DEPTH =  33.0km  (normal)
 LEYTE, PHILIPPINE ISLANDS         (256)

PLP     0.92 340 ePd   35 07.80  -0.3
                 iS    35 24.00
MAP     1.30 271 eP    35 14.00   0.5
BIP     2.26 156 eP    35 27.80   0.4
DAV     3.20 175 eP+   35 45.50   4.8X
CTB     3.27 200 ePc   35 41.00  -0.6
QCP     5.97 317 eP    37 02.00  42.1X
BAG     7.62 323 eP    36 48.00   4.8X
     S.D. = 0.9  on   4 of   7 obs.
-----------------------------------
```

```
&  OCT  20, 1993  01h 37m 04.63s
   40.503 N          125.616 W
   DEPTH =  22.5km
 OFF COAST OF NORTHERN CALIFORNIA( 34)
      <GM-P>. MD 3.0 (GM).

KCTM    0.98  91 P     37 21.62  -1.2
KJJM    1.03 104 P     37 20.75  -3.0
KMPM    1.14  94 ePc   37 22.81  -2.6
                 eS    37 35.44
FHC     1.28  76 ePc   37 25.33  -1.9
KBRM    1.28  79 P     37 25.22  -2.1
KRPM    1.37  61 P     37 26.75  -1.9
KHMM    1.48  75 P     37 28.34  -1.9
KGMM    1.50  80 P     37 28.73  -1.8
KBSM    1.65 110 P     37 30.14  -2.6
KPPM    1.73  94 P     37 32.25  -1.6
KCPM    1.76 117 P     37 31.79  -2.5
KKPM    1.78 101 P     37 31.19  -3.3
KOMM    1.81  64 P     37 33.02  -2.0
KHBM    1.83  84 P     37 33.25  -2.1
GNAM    2.01 130 P     37 33.52  -4.2
LGPM    2.16  78 ePc   37 37.50  -2.5
GHOM    2.16 132 P     37 35.74  -4.3
GWRM    2.20 125 P     37 38.04  -2.5
LBKM    2.31  75 P     37 39.95  -2.3
GAS     2.38 110 P     37 40.59  -2.6
GHLM    2.48 125 P     37 41.93  -2.6
LMEM    3.08  88 (P)   37 51.21  -2.0
LSLM    3.11  90 P     37 51.36  -2.2
LRDM    3.17  89 P     37 56.68   2.4
       24 obs. associated
-----------------------------------
?  OCT  20, 1993  01h 49m 26.62± 1.11s
   10.159 N ±17.1km  125.345 E ±35.6km
   DEPTH =  33.0km  (normal)
   4.4mb (  3 obs.)  3.9Msz (  1 obs.)
 LEYTE, PHILIPPINE ISLANDS         (256)

PLP     1.06 340 iPd   49 43.00  -2.2
MAP     1.35 277 iPd   49 58.00   8.6X
                 iS    50 13.00
BIP     2.12 155 eP    50 01.50   1.1
                 eS    50 33.00
DAV     3.06 176 ePc+  50 12.50  -1.3
CTB     3.15 201 ePd   50 20.00   4.9X
                 eS    50 52.00
QCP     6.10 317 eP    50 44.00 -12.9X
BAG     7.75 324 ePc   51 22.00   1.7
SSE    21.19 350 P     54 18.00   6.4X
     Z  20s     0.50um          3.9Msz
     E  13s     0.30um
                 pP    54 27.50  36kmX
                 eS    58 10.00
                 esS   58 24.00
WRA    31.20 164 P     55 44.20  -1.0
        0.6s     0.80nm          3.7mb
LZH    32.36 326 eP    55 56.50   1.1
        1.4s    28.00nm          5.0mb
     Z  14s     0.98um          4.7MszX
ASPA   34.64 166 eP    56 16.40   1.2
        0.6s     3.80nm          4.5mb
GBA    46.95 279 P     57 56.00  -0.5
     S.D. = 1.7  on   8 of  12 obs.
-----------------------------------
?  OCT  20, 1993  02h 08m 20.26± 2.79s
   37.714 S ±49.6km  176.355 E ±49.2km
   DEPTH = 300.0km  (geophysicist)
 NORTH ISLAND, NEW ZEALAND         (159)

URZ     0.81 133 P     08 59.80  -0.1
                 S     09 29.40
BSZ     2.36 208 eP    09 10.80   0.5
MNG     2.98 193 P     09 16.40   0.2
                 S     09 59.00
KIW     3.34 199 P     09 19.70  -0.1
DIW     3.62 211 P     09 22.40  -0.4
MRW     3.74 199 P     09 23.90  -0.1
TCW     3.85 204 P     09 25.20   0.0
     S.D. = 0.3  on   7 of   7 obs.
-----------------------------------
%  OCT  20, 1993  04h 37m 54.37± 0.87s
   45.229 N ± 5.2km    6.770 E ±10.8km
   DEPTH =   5.0km  (geophysicist)
 FRANCE                            (538)
      ML 2.1 (GEN).
```

```
LPG      0.27 357 Pg     37 59.80   -0.1
                  Sg     38 03.00
LPL      0.29 355 Pg     38 00.30    0.0
                  Sg     38 03.00
RRL      0.31 178 P      38 01.46    0.8
                  S      38 04.25
RSP      0.35 102 P      38 01.88    0.4
                  S      38 05.17
LSD      0.36  50 P      38 03.85    2.3X
                  S      38 05.53
BHB      0.52 138 P      38 04.57   -0.3
                  S      38 10.84
PZZ      0.76 162 P      38 08.83   -0.9
                  S      38 18.16
     S.D. = 0.8  on   6 of   7 obs.
-----------------------------------
*  OCT  20, 1993  04h 52m 47.26± 1.34s
   37.143 N ±13.9km   28.619 E ± 9.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      ML 3.2 (ISK).

CIN      0.62 317 iPgc   53 00.00    0.2
                  iSg    53 09.00
ELL      1.11 110 iPn    53 08.00   -0.1
                  eSn    53 25.00
KHL      1.38  31 ePn    53 12.50   -0.1
BCK      1.60  78 ePn    53 16.00    0.2
IZM      1.65 320 ePn    53 16.20   -0.2
ALT      2.24  31 ePn    53 25.00   -0.1
     S.D. = 0.2  on   6 of   6 obs.
-----------------------------------
?  OCT  20, 1993  05h 00m 02.41± 1.49s
   29.791 N ±14.7km  109.510 W ± 9.9km
   DEPTH =   5.0km  (geophysicist)
 SONORA, MEXICO                      ( 50)
      ML 3.5 (GS).

TUC      2.74 337 ePn    00 48.77    0.9
                  ePg    00 55.04
                  eSn    01 22.52
                  eSg    01 29.06
TDM      2.83 330 P      00 49.59    0.4
LTX      5.11  94 (Pn)   01 21.64    0.1
                  ePg    01 35.58
GLA      5.59 307 (P)    01 27.91   -0.4
ALQ      5.75  26 (P)    01 23.00   -7.7X
PV10     8.57   2 (P)    02 10.61    0.2
ARUT     8.62 339 (P)    02 10.69   -0.2
PV09     8.69   2 (P)    02 11.93   -0.1
PV08     8.79   4 (P)    02 13.47    0.0
SRU      9.33 355 (P)    02 20.03   -0.6
     S.D. = 0.5  on   9 of  10 obs.
-----------------------------------
%  OCT  20, 1993  06h 22m 59.86± 0.7[illegible]s
   31.206 S ±20.7km   68.553 W ±18.4km
   DEPTH = 100.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA        (137)

RTLL     0.14 150 iPd    23 14.20   -0.2
                  S      23 25.80
RTCB     0.35 217 iPd    23 15.00    0.0
                  S      23 27.50
CFA      0.48 146 ePc    23 16.00    0.2
                  S      23 29.[illegible]
RTRS     1.30 323 iPd    23 24.00    [illegible]
                  S      23 42.50
MRA      2.70 117 ePc    23 42.[illegible]
     S.D. = 0.2  on   5 of   5 obs.
-----------------------------------
*  OCT  20, 1993  06h 26m 1[illegible]
   49.129 N ±16.5km   6.9[illegible]
   DEPTH =  10.0km  (geophysicist)
 GERMANY                             [illegible]
      ML 2.0 (UCC).

RUP      0.58  10 ePg    26 [illegible]
WLF      0.73 318 iPd    26 [illegible]
                  iS     26 [illegible]
ABH      0.86  29 ePg    26 [illegible]
TNS      1.48  42 ePnd   26 38 [illegible]
                  iSn    26 5[illegible]
MEM      1.59 339 iPc    26 38 [illegible]
                  id     26 40 [illegible]
                  iS     27 0[illegible]
ENN      1.76 339 iPgc   26 43 [illegible]
       0.8s    15.50nm
```

```
                  eS     27 07.50
DOU      1.79 304 iP     26 41.10   -0.4
                  i      26 43.50
GEC2     4.48  91 Pn     27 19.50   -0.5
                  Sn     28 09.60
                  Sg     28 36.50
     S.D. = 1.3  on   8 of   8 obs.
-----------------------------------
?  OCT  20, 1993  06h 43m 15.82± 0.62s
   5.905 S ± 8.5km  146.550 E ± 9.0km
   DEPTH =  33.0km  (normal)
   4.3mb (  3 obs.)
 EASTERN NEW GUINEA REG., P.N.G.  (207)
      ML 4.5 (PMG).

YYYY     0.67 240 iPc    43 26.20   -2.7
LAT      0.88 149 ePd    43 31.40   -0.4
MDG      1.01 310 iPd    43 33.80    0.2
MNDI     2.89 265 eP     44 06.00    5.3X
PMG      3.53 170 eP     44 10.50    0.8
WWKK     3.69 308 eP     44 15.50    3.5X
KVG      5.38  52 eP     44 34.00   -1.9
WR2     18.31 219 eP     47 29.30    0.2
       0.9s     6.10nm          3.8mb
                  eS     51 26.50
ASPA    21.45 213 eP     48 06.50    2.9X
       0.6s     6.20nm          4.2mb
DZM     25.06 132 iPc    48 39.90    0.9
LZH     57.85 320 eP     53 10.00    3.0X
       1.5s    29.00nm          5.1mb
GUN     67.44 303 P      54 12.00    0.8
       0.6s    10.00nm          5.1mb X
KKN     67.90 303 P      54 14.40    0.4
       0.8s    17.00nm          5.2mb X
DMN     67.98 303 P      54 15.20    0.7
GKN     68.51 303 P      54 18.20    0.5
GBA     71.28 286 P      54 35.00    0.5
PPD    147.18 148 (PKP)  03 01.00    5.2X
     S.D. = 1.3  on  12 of  17 obs.
-----------------------------------
&  OCT  20, 1993  06h 50m 29.29s
   35.290 N          118.534 W
   DEPTH =   4.4km
 CENTRAL CALIFORNIA                  ( 39)
      <PAS-P>. ML 2.8 (PAS).

ISA      0.38   8 eP     50 36.00   -0.8
ABL      0.71 232 ePc    50 42.42   -1.2
BCH      1.27 266 ePc    50 51.78   -1.7
SSK      1.28 147 eP     50 52.97   -0.7
GSC      1.41  89 eP     50 54.26   -1.6
PEC      1.80 141 eP     50 59.79   -1.5
MTCM     2.06 359 eP     51 05.83    0.6
MMPM     2.35 350 (P)    51 10.56    1.0
PLM      2.38 144 eP     51 09.17   -0.6
MRCM     2.38   1 (P)    51 10.12    0.3
MEXM     2.39 352 eP     51 08.93   -0.9
TPNV     2.48  48 eP     51 10.21   -1.1
BCNR     2.67   4 (Pn)   51 13.98    0.0
                  ePg    51 17.76
TNP      2.98  20 (Pn)   51 18.87    0.5
     14 obs. associated
-----------------------------------
*  OCT  20, 1993  06h 53m 29.47± 1.29s
   17.094 S ±29.5km  179.033 W ±18.1km
   DEPTH = 480.7 ± 19.2 km
   4.7mb (  9 obs.)
 FIJI ISLANDS REGION                 (181)

AFI      7.68  67 eP     55 23.00   -0.3
[illegible]  14.55 248 iPc    56 38.40    2.1
[illegible]  29.85 238 iPd    58 57.90   -0.4
       0.6s    30.00nm          5.0mb
[illegible]  33.00 259 iPc    59 26.00    0.9
       0.9s     6.30nm          4.1mb
[illegible]  33.46 231 iPc    59 28.70   -0.2
       0.5s    37.00nm          5.1mb
[illegible]  37.23 230 iPd    59 59.10   -1.0
       0.8s    68.00nm          5.2mb
[illegible]  44.18 259 iPd    00 54.90   -1.3
       0.4s    10.60nm          4.7mb
[illegible]  44.20 259 P      00 55.70   -0.7
       0.7s     2.50nm          3.8mb
ASPA    44.45 253 iPd    00 57.40   -1.0
       0.6s    81.20nm          5.4mb
                  iS     06 52.30
[illegible]  49.82 244 eP     01 47.10    7.9X
```

```
       0.5s    13.00nm          4.6mb
CSY     66.63 205 iPd    03 33.40    0.8
       1.1s     8.40nm          4.3mb
GRF    146.44 348 ePKP   12 15.50    0.7
GEC2   146.68 345 PKP    12 15.80    0.5
       0.7s     2.27nm
                  e      12 18.90
                  e      12 26.20
     S.D. = 1.2  on  12 of  13 obs.
-----------------------------------
%  OCT  20, 1993  06h 53m 44.85± 0.78s
   40.666 N ± 7.1km   23.498 E ±10.7km
   DEPTH =   5.0km  (geophysicist)
 GREECE                              (364)
      ML 2.0 (THE).

SOH      0.19 325 iPg    53 49.01    0.2
                  eSg    53 52.12
SRS      0.46   9 ePg    53 54.20    0.2
                  eSg    54 00.44
OUR      0.50 132 ePg    53 54.48   -0.3
                  eSg    54 00.16
KNT      0.67 318 ePg    53 57.88   -0.4
                  eSg    54 07.28
PAIG     0.75 169 ePg    54 00.16    0.3
     S.D. = 0.5  on   5 of   5 obs.
-----------------------------------
?  OCT  20, 1993  07h 21m 27.02± 1.05s
   6.722 S ±16.1km  128.719 E ±18.9km
   DEPTH =  33.0km  (normal)
   4.4mb (  2 obs.)
 BANDA SEA                           (280)

WR2     14.24 158 iPd    24 47.30   -1.2
                  eS     27 26.00
ASPA    17.57 164 iPc    25 32.00    0.9
       0.5s    21.60nm          4.5mb
     Z  19s     0.80um          5.0Msz
                  eS     29 13.30
LEM     20.95 268 iPc    26 11.00    1.1
CTA     21.59 130 iPd    26 16.00   -0.2
STK     27.77 156 eP     27 16.40    1.5
NNT     34.61 304 eP     28 12.30   -3.1X
MAT     43.95  11 (P)    29 33.00    0.3
       1.0s     5.00nm          4.3mb
KSR     97.64 243 eP     34 58.00   -2.3
CNCB   151.37 145 PKP    41 22.00    7.7X
                  i      43 30.80
LPB    151.53 144 PKP    41 21.00    6.6X
                  e      43 30.00
LPAZ   151.70 144 PKP    41 21.20    6.3X
                  i      43 24.90
     S.D. = 1.7  on   7 of  11 obs.
-----------------------------------
   OCT  20, 1993  07h 23m 38.64± 0.34s
   28.776 N ± 6.8km   82.256 E ± 4.1km
   DEPTH =  33.0km  (normal)
   5.0mb ( 37 obs.)  4.3Msz (  3 obs.)
 NEPAL                               (310)
      MD 4.6 (NDI). Felt in
      northwestern Nepal.

NDI      4.43 270 iPnd   24 45.80    0.6
LSA      7.83  81 P      25 33.60    0.1
     Z  10s     4.72um
                  S      27 04.00
HYB     11.81 198 iPc    26 22.00   -5.8X
       0.8s   130.00nm          6.2mb X
                  eS     28 24.00
KSH     11.85 336 P      26 26.50   -1.9
       0.2s    40.00nm          6.2mb X
     Z  16s     4.77um          4.2MszX
     E  10s     7.29um
                  pP     26 30.00
                  sP     26 32.00
                  PP     26 36.00
                  S      28 38.00
                  sS     28 43.00
                  SS     28 52.00
                  PcP    32 15.00
                  ScP    35 47.00
                  PcS    35 50.00
                  ScS    39 20.00
POO     12.77 219 iPc    26 40.80    0.1
       0.8s    29.85nm          5.4mb
QUE     13.41 280 eP     26 47.00   -2.3
                  eS     29 10.00
```

20d 07h

```
FRU    15.32 338 eP    27 12.50  -1.6
     Z  16s     4.60um
     N  14s     5.00um
     E  14s     3.70um
                (S)   30 08.00
WMQ    15.64  15 eP    27 15.60  -2.6
     Z  12s     1.60um
     N  10s     1.47um
                pP    27 20.00
                sP    27 23.00
                PP    27 28.50
                ScS   39 28.00
GBA    15.75 198 P     27 13.00  -6.6X
      0.4s    13.00nm        4.5mb
                S     29 58.00
GTA    17.97  49 Pd    27 45.00  -2.6
      2.0s    38.00nm        4.2mb
     Z  16s     2.57um        4.7MszX
     E  11s     1.37um
                PP    28 06.00
                ScS   39 35.50
CHTO   18.19 119 eP    27 58.50   8.2X
      0.9s    13.00nm        4.1mb
KMI    18.62  96 Pd    27 57.00   1.2
      1.5s    70.00nm        4.6mb
     Z  12s     1.90um        4.4Msz
     N  11s     0.50um
     E  11s     1.00um
                pP    28 04.50
                PP    28 09.00
                eS    31 16.00
                sS    31 28.00
CD2    18.77  78 eP    27 55.30  -2.2
     Z  10s     3.33um
                eS    31 25.10
LZH    19.60  63 eP    28 05.50  -1.8
      2.0s    86.00nm        4.7mb
     Z  13s     2.17um        4.2MszX
     E  11s     1.50um
                PP    28 24.00
                eS    31 44.00
MAIO   20.58 297 eP    28 17.00  -0.4
                eS    32 12.00
NST    21.03 125 eP    28 21.00  -1.0
GYA    21.74  90 P     28 28.40  -0.9
      1.2s    82.00nm        5.0mb
     N  10s     0.76um
     E  10s     0.46um
                S     32 29.00
                ScS   39 48.80
ASH    21.92 301 eP    28 30.00  -0.8
      1.3s   200.00nm        5.4mb
XAN    23.32  70 P     28 44.50  -0.2
      1.4s    38.00nm        4.7mb
     Z  10s     2.55um        5.0MszX
     N  10s     0.64um
     E  10s     1.73um
                pP    28 49.20  17kmX
BTO    25.59  55 P     29 08.00   1.5
      1.0s    44.00nm        5.0mb
     N  10s     0.41um
     E  11s     0.52um
                pP    29 12.00  14kmX
                eS    33 30.00
TIY    26.68  63 eP    29 16.70   0.2
     Z  12s     1.73um        4.8MszX
     E  12s     1.09um
HHC    26.78  56 P     29 18.70   1.2
      1.4s    49.00nm        4.9mb
     Z  19s     1.47um        4.6Msz
     N  11s     0.24um
     E  11s     0.65um
WHN    27.90  78 eP    29 29.00   1.4
BJI    29.99  59 eP    29 47.00   0.7
      1.5s    28.00nm        4.8mb
     Z  14s     1.18um        4.7MszX
     E  13s     1.24um
                eS    34 42.00
SVE    31.92 337 iPd   30 04.00   0.9
      1.1s    60.00nm        5.4mb
     Z  13s     1.50um        4.9MszX
     N  14s     1.00um
     E  14s     1.00um
                e     31 11.00
                eS    35 13.00
                eSS   37 23.00
CIT    32.87  36 eP    30 11.50   0.0
SSE    33.70  76 P     30 20.00   1.1
      1.0s    13.00nm        4.8mb
     Z  20s     0.60um        4.3Msz
     N  16s     1.00um
                S     35 40.00
SNY    35.81  57 iPd   30 37.80   0.9
      1.1s    54.00nm        5.4mb
     Z  14s     0.82um        4.6MszX
     E  10s     0.43um
                S     36 15.00
CN2    37.46  55 Pd    30 51.60   0.9
      1.0s    31.00nm        5.1mb
     Z  12s     1.15um        4.9MszX
     N  10s     0.40um
     E  10s     0.69um
MDJ    40.53  54 eP    31 17.00   0.8
NRI    40.80   3 ePc+  31 19.00   0.9
      1.4s    80.00nm        5.3mb
     Z  15s     1.60um        5.0MszX
     E  15s     0.80um
                e     31 29.00
                e     32 54.00
MOS    41.56 323 eP    31 24.00  -0.5
OBN    41.88 322 iPd   31 28.80   1.7
      1.2s    31.00nm        4.9mb
     Z  15s     0.80um        4.7MszX
     E  15s     0.40um
                e     33 02.00
                (S)   37 38.00
ELL    44.27 294 iP    31 48.00   0.9
CLI    46.03 308 eP    32 02.50   1.7
VRI    46.39 307 eP    32 03.00  -0.6
ISR    46.50 306 eP    32 07.50   2.9X
MLR    46.93 307 iPc   32 00.00  -8.1X
KAF    49.17 329 iP    32 26.00   0.9
      0.2s     0.70nm        4.3mb
UZH    49.46 311 eP    32 29.00   1.5
      1.3s    38.00nm        5.3mb
                i     32 35.00
NUR    49.54 327 eP    32 29.00   1.1
YSS    49.81  51 eP    32 30.20   0.0
      1.0s    20.00nm        5.1mb
                e     32 38.60
TIK    49.81  18 iPc   32 29.00  -0.8
      1.4s    55.00nm        5.4mb
                i     32 41.00
                i     33 49.00
SKO    50.34 302 iP    32 32.00  -2.3
SRO    52.14 310 iP    32 49.10   1.2
KSP    53.34 314 ePd   32 57.00   0.2
PRU    54.50 313 P     33 05.90   0.6
BRG    54.83 314 iP    33 06.60  -1.1
HFS    54.89 325 eP    33 07.00  -1.0
      0.4s     5.80nm        4.9mb
     Z  16s     0.33um        4.5MszX
                LR    55 54.00
GEC2   55.14 311 P     33 10.30   0.2
      1.3s     4.74nm        4.4mb
                e     33 16.80
                e     33 21.50
                e     33 31.30
KHC    55.20 312 P     33 10.50   0.0
      1.1s     5.90nm        4.5mb
                e     33 30.00
VOY    55.32 308 eP    33 11.50   0.1
                e     33 24.40
CLL    55.39 315 e(P)  33 18.00   6.3X
NB2    56.14 326 P     33 16.00  -1.1
      1.2s    16.50nm        4.9mb
GRF    56.67 313 eP    33 22.30   1.3
     Z  19s     0.20um        4.2Msz
EKA    64.34 321 Pc    34 12.40  -0.7
      0.9s    12.30nm        5.0mb
DAG    64.70 346 eP    34 15.00  -0.2
WRA    69.81 128 P     34 47.00  -1.1
WR2    69.83 128 iPd   34 46.70  -1.5
      0.5s    16.10nm        5.3mb
BUL    71.03 233 eP    34 55.10  -0.6
ASPA   72.04 131 iPd   35 00.00  -1.6
      0.5s    11.30nm        5.1mb
IMA    76.31  20 eP    35 26.09   0.3
      1.3s    14.90nm        4.8mb
RES    76.78 359 eP    35 27.00  -1.0
TTA    77.61  23 eP    35 34.24   1.3
      1.5s    19.54nm        4.9mb
                e     35 59.28
BOSA   78.81 229 eP    35 39.45  -0.4
      0.8s    14.93nm        5.0mb
FBA    78.89  19 eP    35 40.35   0.5
      1.2s    14.26nm        4.8mb
INK    79.64  13 eP    35 45.00   1.2
      1.0s     4.00nm        4.4mb
PMR    80.88  22 eP    35 51.00   0.6
SLKM   81.28  23 (P)   35 54.01   1.3
TOA    81.45  21 eP    35 55.60   2.0
LKO    83.60 277 P     36 05.52   0.0
      1.4s    23.00nm        5.1mb
SUR    84.27 228 eP    36 13.00   4.4X
KIC    84.35 274 P     36 10.76   1.5
      1.0s    16.50nm        5.2mb
YKA    88.05   8 eP    36 26.40  -0.2
      0.8s     8.00nm        5.1mb
ARE   152.91 291 ePKP  43 37.00   9.6X
     S.D. = 1.2  on  67 of  75 obs.
-----------------------------------
   OCT  20, 1993  08h 41m 25.11± 1.03s
   33.310 N ± 9.3km  138.437 E ± 7.1km
   DEPTH =  11.1 ±  2.9 km
   4.1mb (  1 obs.)
 SOUTH OF HONSHU, JAPAN          (211)

IIDJ    2.21 349 iP    42 01.70  -0.5
                S     42 28.80
WKYJ    2.54 292 iPd   42 06.70  -0.2
                eS    42 35.40
CHJJ    2.77   9 P     42 11.00   0.8
                S     42 46.00
TSRJ    3.01 318 iPd   42 13.40  -0.1
                S     42 50.10
KAKJ    3.22  26 P     42 15.90  -0.7
MAT     3.23 357 iPd   42 17.00   0.3
                iS    42 55.40
MTMJ    3.31 351 iPd   42 18.00   0.1
                S     42 58.30
TKSJ    3.72 282 eP    42 23.60  -0.1
                eS    43 05.50
NIIJ    3.95   7 P     42 27.30   0.4
YONJ    4.53 296 iPd   42 34.80  -0.3
                eS    43 25.10
YAMJ    5.02  15 eP    42 43.40   1.3
SHNJ    6.16 280 P     42 57.70  -0.5
OFUJ    6.32  23 eP    42 59.80  -0.7
KUMJ    6.44 265 P     43 02.60   0.4
KAGJ    6.74 254 eP    43 07.20   0.9
DMN    45.91 278 P     50 00.00  10.1X
GEC2   84.54 327 P     53 58.90  -0.6
      0.8s     1.03nm        4.1mb
                e     54 02.30
PV10   85.08  47 eP    54 02.31  -0.3
LPAZ  150.65  61 PKP   01 16.50   2.2X
LPB   150.83  62 PKP   01 20.00   5.7X
CNCB  151.09  62 PKP   01 21.00   6.1X
     S.D. = 0.6  on  17 of  21 obs.
-----------------------------------
   OCT  20, 1993  09h 09m 15.00± 0.67s
   40.565 N ± 6.7km   21.876 E ± 6.1km
   DEPTH =  10.0km  (geophysicist)
 GREECE                          (364)
     ML 2.8 (THE).

FNA     0.44 300 ePg   09 24.21   0.3
                eSg   09 31.82
GRG     0.56  45 ePg   09 27.37   1.0
                eSg   09 37.54
LIT     0.66 134 iPg   09 26.37  -1.8
VAY     0.92  35 ePn   09 31.60  -1.0
KNT     0.98  52 iPg   09 34.78   1.2
OHR     0.98 304 ePn   09 32.80  -0.9
SKO     1.44 347 ePn   09 40.00  -1.2
PAIG    1.52 114 ePb   09 42.10  -0.1
IGT     1.57 229 iPb   09 45.01   2.0
                eSb   10 05.02
AGG     1.58 167 ePb   09 42.38  -0.8
                eSb   10 04.62
OUR     1.62  97 ePb   09 44.90   1.2
     S.D. = 1.4  on  11 of  11 obs.
-----------------------------------
%  OCT  20, 1993  09h 10m 39.43± 0.57s
   40.124 N ± 5.1km   29.272 E ± 5.1km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
     ML 2.8 (ISK).

IZI     0.26  35 iPg   10 45.60   0.6
```

```
                    iSg   10 48.80
DST      0.72 224 ePg   10 53.60   0.0
                    eSg   11 02.60
HRT      0.76  23 ePg   10 53.80  -0.5
                    eSg   11 04.80
EYL      0.81  57 iPg   10 54.80  -0.4
GPA      0.81  78 ePg   10 55.20   0.0
ISK      0.95 350 iPg   10 57.80   0.2
                    eSg   11 10.80
EDC      1.10 282 ePn   11 00.00  -0.1
ALT      1.25 148 ePn   11 02.80   0.1
     S.D. = 0.4  on   8 of   8 obs.
-------------------------------------
&  OCT  20, 1993  09h 17m 55.68s
   37.515 N          118.888 W
   DEPTH =   3.3km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      <GM-P>. MD 2.9 (GM). ML 3.0
      (BRK), 2.6 (GS).

CLKR     0.09  34 P     17 57.79   0.1
MCSM     0.14 355 P     17 59.02   0.4
MMPM     0.15 310 iPd   17 58.85   0.1
MEMM     0.16 345 eP    17 59.18   0.3
CASR     0.27  77 P     18 01.52   0.3
MTUM     0.30 122 ePc   18 01.77   0.0
MRCM     0.34  63 iPc   18 02.65   0.1
BHPR     0.38 124 P     18 03.50   0.1
BCKR     0.45  66 P     18 04.84   0.2
CWCR     0.46  92 P     18 04.96   0.0
BONR     0.64  46 ePc   18 08.10  -0.4
FRI      0.84 232 iP    18 11.64  -0.7
                  iS    18 22.51
MSTM     1.26 288 P     18 18.94  -0.8
CMB      1.29 294 ePd   18 19.43  -0.9
                  eS    18 36.43
TNP      1.44  66 ePc   18 22.86   0.0
MRFM     1.48 300 P     18 22.82  -0.5
MNHM     1.65 293 P     18 26.05   0.4
PDRM     1.67 226 P     18 27.44   1.5
BAVM     1.71 275 P     18 30.77   4.3
BMSM     1.75 241 P     18 28.87   1.8
ISA      1.88 170 eP    18 30.11   1.1
WOFM     1.98 176 P     18 32.22   1.7
EKH      2.02 246 P     18 33.13   2.2
LTR      2.03 253 P     18 32.34   1.2
CSTL     2.08 274 P     18 33.50   1.7
ARN      2.11 266 eP    18 33.31   0.9
BVYM     2.16 250 P     18 34.29   1.3
SAO      2.18 251 iP    18 34.37   1.1
TPNV     2.18 104 eP    18 32.74  -0.8
MHC      2.20 266 eP    18 34.78   1.1
                  eS    19 02.45
COE      2.23 264 eP    18 35.82   1.7
CBO      2.27 261 P     18 36.47   1.9
PRS      2.31 240 iP    18 36.34   1.1
BCH      2.52 203 eP    18 38.87   0.6
GSC      2.78 142 (P)   18 43.55   1.6
ORV      2.89 316 eP    18 45.99   2.5
                  eS    19 23.13
ARUT     4.33  85 (Pn)  19 03.67  -0.4
                  ePg   19 16.75
MSU      5.39  77 (Pg)  19 33.97  14.7
       38 obs. associated
-------------------------------------
?  OCT  20, 1993  09h 29m 10.50± 2.94s
   61.882 N ±14.8km    4.434 E ±24.6km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN NORWAY                  (535)
      MD 2.3 (BER).

FOO      0.41 134 eP    29 19.91   1.1
                  eS    29 25.12
ASK      1.45 165 eP    29 36.42  -0.3
                  eS    29 53.34
MOL      1.61  63 iPc   29 39.96   0.9
                  eS    30 01.27
EGD      1.66 166 eP    29 40.27   0.5
                  eS    29 58.13
ODD1     2.25 151 eP    29 47.91  -0.4
                  eS    30 13.63
                  eSg   30 19.08
NRA0     3.62 105 Pn    30 05.89  -1.8
                  Pg    30 12.54
                  Sn    30 47.74
                  Lg    31 03.37
     S.D. = 1.4  on   6 of   6 obs.
-------------------------------------
%  OCT  20, 1993  09h 36m 55.24± 0.75s
   31.400 S ±13.7km    68.546 W ±10.8km
   DEPTH = 100.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA     (137)

RTLL     0.10  43 iPd   37 09.50  -0.2
                  (S)   37 21.20
RTCB     0.23 248 iPd   37 10.00  -0.1
                  S     37 21.50
CFA      0.33 128 iPc   37 10.30   0.1
                  S     37 22.20
RTRS     1.46 327 iPd   37 21.50   0.2
                  S     37 41.50
RTPR     2.06  59 eP    37 29.00  -0.1
                  S     37 54.00
MRA      2.62 113 e(P)c 37 36.70   0.2
                  (S)   38 05.00
TCA      3.38  90 eP    37 41.50  -5.6X
                  (S)   38 23.00
     S.D. = 0.2  on   6 of   7 obs.
-------------------------------------
*  OCT  20, 1993  09h 39m 42.19± 0.78s
   16.386 N ± 7.4km  120.765 E ±15.3km
   DEPTH =  33.0km  (normal)
   4.1mb (  2 obs.)
 LUZON, PHILIPPINE ISLANDS        (249)
      Felt (IV RF) at Mabalacat; (III
      RF) at Angeles, Bamban, Capas,
      Clark and Tarlac.

BCP      0.15 282 eP    39 47.00  -1.6
                  eS    39 53.00
CVP      1.66  37 ePd   40 09.00  -0.3
                  eS    40 36.00
QVP      1.77 172 eP    40 11.70   0.8
                  eS    40 35.00
PIP      1.93 356 iPd   40 15.00   1.6
TGY      2.28 176 iPd   40 20.00   1.7
PGP      2.87 176 eP    40 27.00   0.3
GQP      2.95 146 ePd   40 27.30  -0.5
                  eS    41 05.00
WR2     38.50 159 iPc   47 01.80  -1.5
         0.9s     3.60nm          4.2mb
ASPA    41.83 162 eP    47 30.20  -0.5
         0.9s     3.70nm          4.1mb
     S.D. = 1.4  on   9 of   9 obs.
-------------------------------------
%  OCT  20, 1993  09h 41m 15.92± 1.82s
   46.296 N ±14.1km    3.392 E ± 7.8km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                           (538)
      ML 2.1 (LDG).

BGF      0.46 305 Pg    41 25.50   0.2
                  Sg    41 31.10
SMF      0.47  41 Pg    41 25.60   0.2
                  Sg    41 31.50
AVF      0.50 357 Pg    41 25.90  -0.1
                  Sg    41 32.60
SSF      0.77   6 Pg    41 30.80  -0.1
                  Sg    41 41.30
LBF      0.80  30 Pg    41 31.50   0.0
                  Sg    41 41.80
TCF      0.82 270 Pg    41 31.70  -0.1
                  Sg    41 42.10
LOR      1.02  18 Pg    41 35.20  -0.1
                  Sg    41 48.80
     S.D. = 0.2  on   7 of   7 obs.
-------------------------------------
?  OCT  20, 1993  09h 50m 15.99± 1.01s
   39.062 N ± 8.5km   27.720 E ±10.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 2.7 (ISK).

IZM      0.75 209 ePg   50 30.80   0.0
                  eSg   50 42.80
DST      0.89  52 ePn   50 33.00  -0.1
                  eSg   51 32.00
EDC      1.29   5 ePn   50 40.00   0.1
EZN      1.32 306 ePn   50 40.30  -0.1
     S.D. = 0.2  on   4 of   4 obs.
-------------------------------------
?  OCT  20, 1993  09h 57m 03.77± 0.92s
   39.188 N ± 7.7km   27.437 E ± 9.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 2.6 (ISK).

IZM      0.80 190 ePg   57 19.30  -0.1
                  eSg   57 33.30
DST      1.01  65 ePn   57 23.10   0.1
EZN      1.07 307 ePn   57 24.00   0.1
EDC      1.20  16 ePn   57 26.00  -0.2
     S.D. = 0.2  on   4 of   4 obs.
-------------------------------------
%  OCT  20, 1993  09h 59m 20.41± 0.81s
   39.647 N ± 7.4km   29.436 E ± 7.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 2.7 (ISK).

DST      0.63 266 ePg   59 33.00   0.0
                  eSg   59 42.60
IZI      0.69   2 iPg   59 33.90  -0.2
                  eSg   59 44.00
ALT      0.79 138 ePg   59 35.80   0.0
                  eSg   59 46.80
EYL      1.07  31 iPn   59 40.80   0.1
EDC      1.40 301 ePn   59 46.00   0.1
     S.D. = 0.2  on   5 of   5 obs.
-------------------------------------
*  OCT  20, 1993  10h 11m 03.83± 0.69s
   36.827 N ±20.9km   71.651 E ±14.8km
   DEPTH =  33.0km  (normal)
   4.1mb (  5 obs.)
 AFGHANISTAN-TAJIKISTAN BORD REG.(717)

MAIO     9.79 271 eP    13 25.00  -0.6
                  eS    15 07.00
GKN     14.05 125 P     14 22.80   0.0
KKN     14.62 124 P     14 29.20  -1.1
DMN     14.62 125 P     14 29.80  -0.6
PKI     14.85 125 P     14 33.60   0.2
GUN     14.94 122 P     14 33.20  -1.4
GBA     23.70 166 P     16 21.70   8.2X
         0.8s     2.00nm          3.7mb
HFS     43.13 322 eP    19 02.30  -0.2
         0.5s     3.10nm          4.3mb
       Z  16s     0.04um          3.4MszX
                  LR    33 10.00
NB2     44.44 323 P     19 12.80  -0.3
         0.8s     2.20nm          4.1mb
DAG     54.59 344 eP    20 30.00  -0.7
WRA     81.72 122 P     23 23.20   2.6
         0.6s     0.60nm          3.8mb
WR2     81.74 122 iPd   23 22.70   2.0
         0.5s     3.10nm          4.6mb
     S.D. = 1.4  on  11 of  12 obs.
-------------------------------------
*  OCT  20, 1993  10h 12m 11.78± 2.83s
   32.232 S ±15.1km   71.712 W ±20.1km
   DEPTH =  10.0km  (geophysicist)
 NEAR COAST OF CENTRAL CHILE      (135)
      MD 3.7 (SAN).

ROCH     0.95 141 iP    12 30.10   0.1
                  iS    12 45.75
JACH     1.05 116 iP    12 31.42  -0.2
                  iS    12 47.70
LCCH     1.25 175 iP    12 33.94  -1.0
                  iS    12 52.69
PEL      1.26 137 iP+   12 35.39   0.2
                  iS    12 54.36
TACH     1.56 156 iP    12 39.88   0.3
                  iS    13 02.48
PCH      1.71 144 iP    12 42.89   1.0
LNV      1.74 172 eP    12 42.34   0.2
                  iS    13 07.37
CACH     2.10 154 (P)   12 50.44   2.9X
RTCB     2.59  74 ePc   12 55.50   1.0
                  S     13 33.00
MRA      5.09  94 e(P)c 13 28.00  -1.8
     S.D. = 1.0  on   9 of  10 obs.
-------------------------------------
*  OCT  20, 1993  10h 28m 59.20± 1.18s
   10.330 N ± 9.6km  125.349 E ±16.7km
   DEPTH =  33.0km  (normal)
 LEYTE, PHILIPPINE ISLANDS        (256)

PLP      0.91 336 ePd   29 14.50  -1.1
                  eS    29 27.50
MAP      1.35 270 iPd   29 21.00  -0.8
```

20d 10h

		iS	29	42.00	
BIP	2.27	157	eP	29	35.00	-0.2
			eS	30	03.50	
DAV	3.23	176	eP	29	55.00	6.2X
CTB	3.31	200	ePc	29	50.00	0.1
			eS	30	20.00	
GQP	4.55	322	eP	30	08.50	1.0
GBA	46.93	279	P	37	30.00	1.1

S.D. = 1.1 on 6 of 7 obs.

& OCT 20, 1993 10h 33m 52.54s
66.238 N 151.480 W
DEPTH = 14.6km
NORTHERN ALASKA (676)
<AEIC>. ML 2.6 (AEIC).

IMA	0.91	260	eP	34	09.28	-0.3
			eS	34	21.54	
IM3	0.96	256	eP	34	10.27	-0.1
			eS	34	23.79	
MLY	1.25	165	eP	34	14.58	-0.8
			eS	34	31.76	
MDM	1.86	132	eP	34	24.86	0.6
			eS	34	46.70	
NEA	1.95	148	eP	34	27.88	2.5
FBA	2.04	130	eP	34	25.37	-1.3
			eS	34	50.39	
GLM	2.11	125	eP	34	28.83	1.0
			eS	34	55.25	
CCB	2.22	134	eP	34	27.93	-1.3
			eS	34	58.27	
BWN	2.24	157	eP	34	34.12	4.5
WRH	2.27	140	P	34	33.50	3.4
IL1	2.42	125	eP	34	30.41	-1.7
ILB	2.42	125	eP	34	30.55	-1.6
			eS	35	02.32	
HDA	2.64	132	eP	34	36.56	1.2
KTH	2.71	175	eP	34	36.09	-0.3
TRF	2.84	169	eP	34	37.31	-1.1
BM3	2.97	63	eP	34	37.04	-2.9
BC3	5.24	123	eP	35	08.57	-3.7

17 obs. associated

---

* OCT 20, 1993 11h 09m 45.17± 0.67s
26.325 S ± 5.7km 27.483 E ± 7.7km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
mbLg 3.0 (BUL).

KSR	0.70	311	eP	09	59.00	-0.2
BFS	0.85	227	eP	10	02.50	[illegible]
			S	10	17.70	
SLR	0.93	51	iPd	10	03.70	[illegible]
			S	10	12.20	
SEK	1.99	176	eP	10	19.70	[illegible]
			S	10	42.70	
BLF	3.00	202	eP	10	34.40	[illegible]
			S	11	13.30	
BUL	6.24	10	iPn	11	20.20	[illegible]
			iSn	12	29.80	
			iSg	13	03.80	

S.D. = 0.4 on 6 of 6 obs.

OCT 20, 1993 12h 07m 36.84± [illegible]s
47.232 N ± 2.8km 7.396 E ± [illegible]km
DEPTH = 10.0km (geophysicist)
SWITZERLAND [illegible]
ML 3.0 (LDG), 2.9 (STP[illegible])

BBS	0.24	18	Pg	07	41.99	[illegible]
			Sg	07	46.[illegible]
LOMF	0.40	287	Pg	07	45.[illegible]
MOF	0.64	344	Pg	07	49.[illegible]
			Sg	07	59.[illegible]
ZLA	0.72	69	iP	07	51.[illegible]
BSF	0.73	326	Pg	07	51.[illegible]
			Sg	08	[illegible]
FEL	0.77	33	ePg	07	51.[illegible]
SLE	0.92	54	eP	07	53.[illegible]
ECH	1.00	351	Pg	07	56.[illegible]
			Sg	08	10.[illegible]
HAU	1.05	318	Pg	07	57.[illegible]
			Sg	08	11.[illegible]
DIX	1.15	179	ePd	07	59.[illegible]
LLS	1.15	108	ePd	07	58.[illegible]
WLS	1.18	359	Pg	07	58.[illegible]
			Sg	08	16.[illegible]
CDF	1.18	356	Pn	07	58.80	-0.2
			Pg	07	59.80	
			Sg	08	15.60	
EMS	1.21	196	ePd	07	59.40	0.0
MMK	1.24	161	ePd	07	59.60	-0.5
VITF	1.37	316	Pg	08	02.76	0.8
			Sg	08	22.04	
TMA	1.52	137	eP	08	04.90	0.7
VDL	1.61	117	ePd	08	06.00	0.5
LPL	1.78	195	Pg	08	09.80	1.8
			Sg	08	33.30	
LSD	1.78	185	P	08	04.00	-4.1X
LPG	1.79	195	Pg	08	10.30	2.0
			Sg	08	33.20	
RSP	2.08	183	P	08	10.75	-1.6
LBF	2.35	265	Pn	08	16.50	0.4
			Pg	08	22.10	
			Sg	08	52.60	
RRL	2.35	191	P	08	14.04	-2.3
BHB	2.39	182	P	08	15.72	-1.0
LOR	2.41	272	Pn	08	17.60	0.7
			Pg	08	23.60	
			Sg	08	53.40	
SMF	2.51	258	Pn	08	18.90	0.6
			Pg	08	24.30	
SSF	2.66	268	Pn	08	20.80	0.3
			Pg	08	27.20	
			Sg	09	02.70	
PZZ	2.74	184	P	08	22.71	1.0
AVF	2.80	262	Pn	08	22.50	0.0
			Pg	08	30.30	
			Sg	09	06.90	
PCP	2.81	163	P	08	22.71	0.0
BGF	3.19	259	Pn	08	27.20	-0.8
			Pg	08	37.20	
			Sg	09	17.90	
TCF	3.69	257	Pn	08	32.60	-2.5
			Pg	08	45.70	

S.D. = 1.0 on 32 of 33 obs.

% OCT 20, 1993 13h 39m 33.52± 0.78s
39.907 N ± 7.1km 28.802 E ± 6.9km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.8 (ISK).

DST	0.33	204	iPg	39	40.10	-0.3
			iSg	39	47.10	
IZI	0.67	50	iPg	39	46.40	-0.5
EDC	0.84	302	iPg	39	50.00	0.2
			eSg	40	04.00	
EYL	1.23	57	ePn	39	56.70	0.2
ALT	1.32	130	ePn	39	58.30	0.3

S.D. = 0.5 on 5 of 5 obs.

OCT 20, 1993 13h 47m 53.54± 0.59s
6.235 N ± 6.6km 126.262 E ±12.3km
DEPTH = 33.0km (normal)
4.6mb (2 obs.)
MINDANAO, PHILIPPINE ISLANDS (259)

DAV	1.09	321	eP+	48	12.00	-0.5
			iS	48	28.10	
BIP	1.98	360	ePd	48	25.50	0.1
			eS	48	49.00	
CTB	2.26	295	ePd	48	28.00	-1.4
			iS	48	38.00	
MAP	4.65	331	eP	49	01.00	-2.3
PLP	5.06	346	ePd	49	09.80	0.6
BAS	11.54	332	eP	50	43.00	3.7X
[illegible]	22.68	235	iPc	52	58.00	4.3X
[illegible]	25.18	268	ePc	53	19.60	1.8
[illegible]	27.21	163	ePc	53	35.50	-1.0
	0.8s		5.70nm			4.3mb
ASPA	30.64	166	iPd	54	06.50	-0.8
	0.5s		12.80nm			5.0mb
			iPcP	57	50.90	
[illegible]	34.86	346	eP	54	45.00	1.3
[illegible]	36.61	195	iPd	54	58.20	-0.5
	0.7s		14.00nm			5.0mb X
[illegible]	39.19	194	eP	55	20.10	-0.2
	0.8s		63.00nm			5.4mb X
NWAO	39.88	192	eP	55	26.20	0.2
STY	40.63	160	eP	55	32.70	0.5
[illegible]	43.91	304	P	55	59.60	0.0
[illegible]	44.36	304	P	56	03.20	0.1
[illegible]	44.44	303	P	56	04.80	1.0
GKN	44.97	304	P	56	07.80	-0.1
GBA	48.58	283	P	56	37.00	0.8

S.D. = 1.1 on 18 of 20 obs.

& OCT 20, 1993 13h 48m 39.48s
35.692 N 119.354 W
DEPTH = 21.5km
CENTRAL CALIFORNIA (39)
<GM-P>. MD 3.0 (GM). ML 2.9 (PAS).

WOFM	0.55	106	P	48	49.88	-0.5
YEG	0.56	243	P	48	50.34	-0.2
WASM	0.65	86	P	48	51.70	-0.5
MARC	0.69	179	P	48	52.60	-0.1
PKEM	0.72	301	eP	48	52.98	-0.2
ISA	0.72	92	ePc	48	52.62	-0.6
			eS	49	02.19	
PAGM	0.73	273	P	48	52.54	-0.9
PLEC	0.76	162	P	48	54.25	0.3
BCH	0.78	230	eP	48	53.29	-1.1
PHBM	0.81	313	P	48	54.79	0.0
PMCM	0.83	273	P	48	54.10	-1.0
CTM	0.83	287	P	48	54.93	-0.3
ABL	0.85	173	eP	48	54.31	-1.2
WKR	0.95	278	P	48	55.79	-1.4
PCRM	0.96	295	P	48	56.64	-0.8
SCCM	1.00	222	P	48	57.43	-0.7
RYS	1.05	180	P	48	57.90	-1.0
PSMM	1.08	291	P	48	58.63	-0.7
PADM	1.23	268	P	49	01.24	-0.2
LRC	1.48	292	P	49	04.71	-0.2
BMSM	1.51	310	P	49	03.41	-2.1
BHPR	1.75	23	P	49	10.09	1.0
MTUM	1.78	21	P	49	10.16	0.7
MMPM	1.93	8	eP	49	11.93	0.1
CLKR	1.94	13	P	49	12.89	0.9
MEMM	2.00	9	(P)	49	13.36	0.9
SSK	2.01	137	eP	49	12.33	-0.6
MRCM	2.09	19	eP	49	14.54	0.5
GSC	2.12	100	eP	49	13.74	-0.6
ARN	2.41	314	eP	49	16.93	-1.5
BONR	2.41	20	eP	49	19.82	1.1
			eS	49	51.75	
CMB	2.48	341	eP	49	18.63	-0.8
PEC	2.55	134	eP	49	21.74	1.3
MNHM	2.71	335	P	49	22.29	-0.4
TPNV	2.80	63	eP	49	24.28	0.1

35 obs. associated

? OCT 20, 1993 13h 57m 36.80± 0.91s
39.684 N ± 7.8km 29.421 E ± 8.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

DST	0.62	263	ePg	57	49.30	0.0
			eSg	57	59.30	
IZI	0.65	3	iPg	57	49.80	-0.1
			eSg	57	59.30	
ALT	0.82	139	ePg	57	52.80	0.0
			eSg	58	03.80	
EYL	1.05	32	iPn	57	56.70	0.1

S.D. = 0.1 on 4 of 4 obs.

---

* OCT 20, 1993 14h 05m 41.94± 0.99s
34.406 N ±12.4km 3.394 W ±10.2km
DEPTH = 10.0km (geophysicist)
MOROCCO (395)
MG 1.7 (RTC).

TOU	0.63	332	iP	05	54.50	-0.1
			iS	06	02.50	
ZAI	0.67	53	eP	05	56.50	1.3
			eS	06	06.50	
TAF	0.91	63	iPg	05	58.00	-1.3
			iSg	06	09.00	
			i	06	10.00	
IFR	1.69	239	iPg	06	11.00	-0.8
			iSg	06	33.50	
CZD	1.93	226	iP	06	16.00	0.9
			iS	06	39.00	

S.D. = 1.6 on 5 of 5 obs.

---

* OCT 20, 1993 14h 35m 13.52± 1.17s
5.991 S ±11.7km 146.161 E ±14.4km
DEPTH = 33.0km (normal)

```
   3.9mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.3 (PMG).

YYYY    0.31 217 iPd   35 20.00  -1.6
                 eS    35 25.90
MDG     0.83 333 eP    35 28.70   0.0
LAT     1.07 129 ePd   35 32.20   0.0
MNDI    2.49 266 eP    36 00.00   7.1X
PMG     3.53 164 eP    36 07.50   0.0
WR2    18.00 218 iPc   39 24.60   1.6
        0.9s     4.60nm          3.6mb
ASPA   21.17 213 iPd   40 02.50   4.1X
        0.8s     8.80nm          4.2mb
LPAZ  139.49 124 PKP   54 50.60   9.4X
     S.D. = 1.6  on   5 of   8 obs.
-------------------------------------
*  OCT  20, 1993  14h 48m 08.72± 1.23s
   31.591 S ± 8.7km   68.566 W ± 9.9km
   DEPTH = 109.9 ± 13.2 km
 SAN JUAN PROVINCE, ARGENTINA     (137)

ZON     0.11 295 iPd   48 24.60   0.2
                 eS    48 36.60
RTCB    0.22 298 iPd   48 24.70  -0.1
                 S     48 36.20
RTLL    0.27  18 eP    48 24.50  -0.4
                 S     48 35.50
CFA     0.28  93 iPc   48 25.10   0.2
                 S     48 37.80
RTRS    1.61 331 eP    48 37.60   0.4
                 S     48 58.50
RTPR    2.18  54 eP    48 44.00  -0.5
                 S     49 10.50
MRA     2.56 109 ePc   48 50.20   0.7
                 (S)   49 21.70
RFA     3.17 179 iPc   48 57.50  -0.3
TCA     3.41  87 eP    49 01.00   0.0
     S.D. = 0.5  on   9 of   9 obs.
-------------------------------------
?  OCT  20, 1993  14h 59m 06.07± 1.48s
   31.021 S ±37.7km   69.091 W ±54.9km
   DEPTH = 120.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA     (137)

RTCB    0.53 152 iPd   59 24.50  -0.1
                 S     59 37.00
RTLL    0.62 120 iPd   59 24.70  -0.4
                 S     59 38.20
RTRS    0.91 339 iPd   59 27.50   0.1
                 S     59 43.20
CFA     0.93 129 ePc   59 28.20   0.4
                 S     59 45.00
     S.D. = 0.6  on   4 of   4 obs.
-------------------------------------
%  OCT  20, 1993  15h 07m 20.10± 0.74s
   40.702 N ± 6.8km   29.932 E ± 6.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 3.0 (ISK).

EYL     0.22 128 iPg   07 24.70  -0.2
HRT     0.23 301 iPg   07 24.80  -0.3
GPA     0.50 145 iPg   07 30.10  -0.2
IZI     0.51 224 iPg   07 29.80  -0.6
                 eSg   07 38.80
ISK     0.76 299 iPg   07 34.50  -0.4
                 iSg   07 44.30
DST     1.48 223 ePn   07 47.20   0.3
EDC     1.62 258 ePn   07 49.00   0.3
ALT     1.65 175 ePn   07 49.80   0.5
DMK     1.98 305 ePn   07 54.60   0.5
     S.D. = 0.5  on   9 of   9 obs.
-------------------------------------
%  OCT  20, 1993  15h 24m 52.07± 0.89s
   50.114 N ± 8.7km    5.455 E ± 7.0km
   DEPTH =  10.0km  (geophysicist)
 BELGIUM                          (541)
      ML 1.9 (UCC).

DOU     0.55 268 iP    25 03.00  -0.3
                 iS    25 11.60
MEM     0.61  35 iPc   25 03.42  -0.9
                 iS    25 11.45
WLF     0.64 135 iPc   25 04.97   0.1
                 iS    25 14.19
ENN     0.72  24 ePg   25 07.00   0.8
        0.5s     3.30nm
                 eSg   25 15.00
SNF     0.85 298 iP    25 08.70   0.3
     S.D. = 0.9  on   5 of   5 obs.
-------------------------------------
?  OCT  20, 1993  15h 40m 36.45± 4.70s
   59.092 N ±37.9km    5.890 E ±12.4km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN NORWAY                  (535)
      MD 1.8 (BER).

KMY     0.35 290 eP    40 43.70   0.0
                 eS    40 48.38
BLS5    0.44  41 eP    40 45.36  -0.1
ODD1    0.90  24 eP    40 53.92   0.1
                 eS    41 06.12
EGD     1.23 344 eP    40 59.23  -0.1
                 eS    41 15.56
     S.D. = 0.2  on   4 of   4 obs.
-------------------------------------
?  OCT  20, 1993  15h 47m 30.27± 1.11s
   42.760 N ±15.7km   31.482 E ±13.8km
   DEPTH =  10.0km  (geophysicist)
 BLACK SEA                        (360)

KAS     2.20 128 ePn   48 07.50   0.1
                 iSg   48 32.00
DMK     2.92 253 iPn   48 17.10  -0.5
ISR     4.28 305 ePc   48 38.50   1.5
CLI     4.83 323 iPc   48 43.50  -1.2
MLR     4.83 306 eP    48 45.00   0.1
     S.D. = 1.4  on   5 of   5 obs.
-------------------------------------
   OCT  20, 1993  15h 56m 03.47± 0.58s
   41.271 N ± 5.9km   21.941 E ± 3.9km
   DEPTH =   5.0km  (geophysicist)
 NORTHWESTERN BALKAN REGION       (383)
      ML 2.2 (THE), 1.8 (SKO).

GRG     0.47 132 iPg   56 12.20  -0.7
VAY     0.48  84 iPg   56 13.80   0.8
                 iSg   56 21.20
FNA     0.65 221 iPg   56 16.24  -0.2
                 eSg   56 25.36
KNT     0.73  98 ePg   56 17.76  -0.3
                 eSg   56 27.40
SKO     0.79 332 ePg   56 19.00  -0.4
                 iSg   56 33.00
OHR     0.88 260 ePg   56 21.20   0.4
                 eSg   56 34.50
SOH     1.16 112 ePg   56 25.84   0.2
LIT     1.24 160 ePb   56 27.44   0.4
                 eSb   56 44.20
SRS     1.26  96 ePb   56 27.00  -0.3
                 iSb   56 44.20
     S.D. = 0.5  on   9 of   9 obs.
-------------------------------------
   OCT  20, 1993  16h 11m 57.74± 0.59s
   49.125 N ± 4.4km    6.914 E ± 7.0km
   DEPTH =  10.0km  (geophysicist)
 GERMANY                          (543)
      ML 2.6 (STR), 2.1 (UCC).

RUP     0.58   9 ePg   12 08.60  -1.0
LANF    0.60 104 Pg    12 09.80  -0.1
WLF     0.73 318 iPc   12 11.25  -0.9
                 iS    12 20.61
CDF     0.75 161 Pg    12 12.10  -0.4
WLS     0.77 158 Pg    12 12.43  -0.4
ABH     0.86  28 ePg   12 13.20  -1.2
ECH     0.92 170 Pg    12 15.60   0.2
                 Sg    12 29.11
VITF    1.10 214 Pg    12 17.59  -0.8
                 Sg    12 32.72
MOF     1.28 173 Pg    12 22.09   0.5
                 Sg    12 40.20
FEL     1.45 149 Pg    12 25.44   1.3
TNS     1.48  42 ePgd  12 26.60   2.1
                 eSn   12 44.90
                 eSb   12 49.70
ENN     1.76 339 eP    12 30.50   2.0
        0.7s    12.60nm
                 e     12 53.50
KHC     4.38  87 ePn   13 05.00  -0.8
                 e     13 24.00
                 eSn   13 55.00
                 eSg   14 17.00
GEC2    4.48  91 Pn    13 06.70  -0.6
                 Sn    13 56.30
                 Sg    14 22.20
     S.D. = 1.2  on  14 of  14 obs.
-------------------------------------
   OCT  20, 1993  16h 15m 59.68± 0.19s
   28.723 N ± 4.2km   82.280 E ± 2.8km
   DEPTH =  37.4km  (  7 depth phases)
   5.1mb ( 55 obs.)
 NEPAL                            (310)
      MD 4.7 (NDI). At least 55 people
      injured and 46 houses severely
      damaged in northwestern Nepal.
      Felt in parts of Uttar Pradesh,
      India.

NDI     4.45 271 iPn   17 06.00  -0.5
LSA     7.81  81 P     17 54.90   0.6
        0.6s    28.00nm          5.4mb
     Z  10s     1.91um          5.0Msz
                 S     19 22.00
HYB    11.76 198 iPc   18 42.80  -5.2X
        0.8s   211.50nm          6.3mb X
                 eS    20 46.00
KSH    11.91 336 P     18 48.30  -1.7
        0.6s    98.00nm          6.1mb
     Z  12s     3.69um          4.2MszX
     E  10s     5.77um
                 pP    18 51.50
                 sP    18 54.30
                 PP    18 58.00
                 S     20 59.80
                 SS    21 13.50
                 PcP   24 38.00
                 ScP   28 07.00
                 PcS   28 08.00
                 ScS   31 42.00
POO    12.74 219 eP    19 02.00   0.8
POO    12.74 219 eP    19 10.00   8.8X
QUE    13.44 280 eP    19 06.60  -3.9X
                 e(S)  21 30.10
FRU    15.38 338 eP    19 35.00  -0.6
     Z  14s     3.00um
     N  13s     3.80um
     E  14s     1.80um
                 (S)   22 21.00
WMQ    15.68  15 eP    19 40.00   0.5
        1.0s    21.00nm          4.3mb
     Z  12s     1.60um          4.4Msz
     N  10s     1.01um
     E  10s     0.90um
                 pP    19 44.00
                 sP    19 47.00
                 PP    19 53.50
GBA    15.70 198 P     19 33.40  -6.5X
        0.5s    13.00nm          4.4mb
                 S     22 18.40
GTA    17.99  49 eP    20 05.80  -2.8
        1.5s    39.00nm          4.3mb
     Z  12s     1.44um          3.9Msz
     E  10s     0.84um
                 pP    20 14.50
                 sP    20 18.00
KMI    18.59  96 Pd    20 16.00  -0.2
        1.5s    70.00nm          4.6mb
     Z  12s     1.80um          4.4Msz
     N  11s     0.50um
     E  11s     0.70um
                 pP    20 23.50
                 eS    23 44.00
                 sS    23 50.00
CD2    18.76  78 eP    20 16.10  -2.0
     Z  10s     2.00um
     E  10s     1.45um
                 eS    23 45.20
BDT    19.15 123 eP    20 20.50  -2.1
LZH    19.61  63 eP    20 26.50  -1.5
        1.8s    53.00nm          4.5mb
     Z  14s     1.18um          4.3MszX
     E  11s     0.94um
                 pP    20 36.50  43km
                 sP    20 40.00
NST    20.98 124 eP    20 42.00  -0.2
LOE    21.11 118 eP    20 24.50 -19.0X
GYA    21.72  90 iPc   20 49.40  -0.3
        0.8s    54.00nm          5.0mb
     N  13s     0.67um
```

20d 16h

```
     E 13s     0.31um
               pP    20 56.40  25km
               S     24 50.00
ASH    21.96 301 P    20 51.50  -0.4
       1.5s  330.00nm         5.5mb
NNT    22.85 131 eP   21 02.00   1.2
               e     37 31.80
XAN    23.32  70 P    21 05.00  -0.3
       1.2s   33.00nm         4.7mb
     N 10s     0.43um
     E 10s     1.04um
               pP    21 13.50  30km
               sP    21 17.00
               S     25 13.00
BTO    25.60  55 P    21 28.00   0.8
       1.2s   59.00nm         5.0mb
     N 11s     0.26um
     E 13s     0.36um
               pP    21 33.00  18kmX
               eS    25 52.00
TIY    26.68  63 eP   21 37.00  -0.2
     Z 12s     1.45um         4.7MszX
     E 10s     0.63um
               S     26 12.50
HHC    26.79  55 P    21 38.80   0.6
       1.2s   32.00nm         4.8mb
     Z 17s     0.72um         4.3MszX
     N 10s     0.32um
     E 11s     0.49um
               eS    26 09.00
WHN    27.89  78 eP   21 49.20   1.1
     N 11s     0.86um
IPM    29.89 140 ePd  22 06.50   0.3
BJI    30.00  59 eP   22 08.00   1.0
       1.5s   31.00nm         4.9mb
     Z 12s     0.61um         4.5MszX
     E 10s     0.50um
TIA    30.21  67 eP   22 09.10   0.1
NJ2    31.63  75 eP   22 24.50   3.1X
     Z 22s     0.98um         4.4Msz
SVE    31.97 337 ePc  22 24.00  -0.2
       1.1s   40.00nm         5.2mb
     Z 12s     1.00um         4.7MszX
     N 12s     0.60um
     E 12s     0.50um
               e     23 31.20 353kmX
GRO    32.71 306 iPc  22 32.00   1.3
       1.0s  110.00nm         5.7mb
               i     23 37.00 337kmX
CIT    32.90  36 eP   22 33.00   0.7
               e     25 15.00
SSE    33.69  76 Pc   22 40.50   1.1
       1.0s   25.00nm         5.1mb
SNY    35.83  57 iPc  22 58.20   0.7
       1.1s   65.00nm         5.5mb
CN2    37.48  55 Pd   23 12.40   1.0
       0.8s   35.00nm         5.3mb
     Z 11s     0.68um         4.7MszX
     N 10s     0.28um
     E 10s     0.48um
MDJ    40.54  54 eP   23 37.90   1.0
NRI    40.85   3 iPc  23 39.80   0.7
       1.4s   64.00nm         5.2mb
               e     25 20.00 566kmX
               i     25 40.00
KAS    41.18 301 eP   23 43.50   1.2
MOS    41.61 323 eP   23 46.00   0.5
               e     25 25.00 551kmX
OBN    41.93 322 iPc  23 49.00   0.9
       1.3s   42.00nm         5.0mb
     Z 16s     0.50um         4.5MszX
     E 16s     0.40um
               i     25 25.00 526kmX
TKSJ   44.14  70 eP   24 07.50   1.1
ELL    44.31 294 iP   24 08.00   0.0
WKYJ   45.38  69 P    24 15.20  -1.2
YAK    45.43  29 eP   24 15.90  -0.4
       1.8s   56.00nm         5.2mb
VRI    46.44 307 ePc  24 25.50   0.9
ISR    46.55 306 eP   24 28.00   2.5X
MLR    46.98 307 ePd  24 29.50   0.5
MAT    47.18  65 eP   24 30.00  -0.6
       1.5s   27.78nm         5.0mb
YAMJ   48.43  63 eP   24 40.20  -0.1
KAF    49.23 329 iP   24 46.00  -0.1
       0.6s    3.50nm         4.6mb
UZH    49.52 311 ePc  24 49.70   1.2
       1.1s   35.00nm         5.3mb
OFUJ   49.59  62 eP   24 49.00  -0.2
VAY    49.60 301 eP   24 50.30   1.1
NUR    49.60 327 eP   24 48.00  -0.9
       0.4s    5.20nm         4.9mb
YSS    49.82  51 ePc  24 51.00   0.1
       1.0s   20.00nm         5.1mb
               e     26 07.20 373kmX
TIK    49.85  18 iPc  24 50.00  -0.7
       1.6s   65.00nm         5.4mb
     Z 16s     0.50um         4.6MszX
               i     25 00.00  34km
               i     26 09.00
SKO    50.38 302 iP   24 53.80  -1.4
SPC    50.87 312 eP   25 00.70   1.6
OHR    50.95 301 eP   24 55.20  -4.4X
SRO    52.19 310 eP   25 09.20   0.4
UPP    52.95 325 iP   25 13.80  -0.5
               i     25 25.00  38km
ZST    52.99 310 eP   25 14.40  -0.3
               e     48 01.80
KSP    53.39 314 ePc  25 17.20  -0.5
PRU    54.55 313 P    25 26.20   0.0
       1.1s   72.70nm         5.6mb
BRG    54.88 314 iP   25 31.10   2.5X
       0.9s   20.00nm         5.1mb
LJU    54.92 308 ePc  25 29.00   0.0
               e     25 49.50  82kmX
HFS    54.94 325 eP   25 28.10  -0.8
       0.6s   34.00nm         5.6mb
     Z 16s     0.24um         4.4MszX
               LR    48 48.00
GEC2   55.19 311 P    25 30.50  -0.6
       0.8s    3.19nm         4.4mb
               e     25 36.10  18kmX
               e     25 46.70
KHC    55.25 312 P    25 31.30  -0.1
       1.1s    8.00nm         4.7mb
               e     25 44.00  45km
               e     26 06.00
VOY    55.36 308 iPc  25 31.80  -0.5
               e     25 44.70  46km
               e     25 54.20
CLL    55.44 315 iP   25 31.70  -1.0
       1.6s   14.00nm         4.7mb
BHG    55.85 310 iPd  25 35.60  -0.1
NB2    56.20 326 P    25 36.80  -1.2
       0.6s    6.80nm         4.9mb
MOX    56.37 314 eP   25 39.10  -0.3
       1.6s   19.00nm         4.9mb
GRF    56.72 313 eP   25 43.00   1.1
     Z 18s     0.10um         4.0Msz
OGA    57.22 309 iPd  25 44.80  -0.9
OSS    57.84 309 ePd  25 49.50  -0.5
LLS    58.59 310 ePd  25 54.70  -0.6
SLE    58.78 311 P    25 55.40  -1.0
TMA    58.81 309 ePd  25 55.90  -0.9
MMK    59.44 309 P    26 00.60  -0.6
DIX    59.81 309 ePd  26 03.80   0.0
EMS    60.14 309 ePd  26 05.90  -0.1
EKA    64.39 321 Pc   26 33.60  -0.4
       1.3s   35.70nm         5.3mb
DAG    64.76 346 iPd  26 35.20  -0.9
       1.2s   43.75nm         5.4mb
ILT    67.02  24 iPc  26 40.20 -10.4X
       1.6s   53.00nm
               i     26 47.90  25kmX
LSZ    68.16 237 iPd  26 58.00  -0.7
       0.7s    1.50nm         4.2mb
WRA    69.76 128 P    27 07.90  -0.4
       0.6s   22.20nm         5.4mb
WR2    69.78 128 iPc  27 07.60  -0.9
       0.5s   39.80nm         5.7mb
BUL    71.02 233 iPd  27 16.00  -0.2
ASPA   71.99 131 iPc  27 21.10  -0.7
       0.3s   31.60nm         5.8mb
SLR    74.98 229 eP   27 37.10  -2.2
       1.1s   40.00nm         5.3mb
IMA    76.35  20 ePc  27 46.93   0.4
RES    76.84 359 eP   27 47.50  -1.3
       1.0s    5.00nm         4.5mb
SEK    77.15 228 iPc  27 43.50  -8.0X
       0.6s   42.00nm         5.6mb
TTA    77.65  23 eP   27 54.56   0.9
CTA    78.52 120 iP   27 59.00   0.0
BLF    78.62 228 iPd  27 59.40  -0.2
       0.6s   10.71nm         5.0mb
BOSA   78.79 229 iPc  28 00.58   0.3
FBA    78.93  19 eP   28 01.10   0.5
INK    79.69  13 eP   28 05.50   0.9
       1.0s    8.00nm         4.7mb
CRP    80.11  24 eP   28 08.72   1.5
PWA    80.62  22 eP   28 10.30   0.7
       1.2s   83.50nm         5.6mb
WIN    80.89 238 iPc  28 12.00   0.1
       0.6s   12.00nm         5.1mb
GRM    81.20 224 e(P) 28 08.50  -4.6X
TOA    81.49  21 eP   28 15.90   1.6
KLU    82.03  21 eP   28 18.29   1.1
BALM   83.49  20 eP   28 25.91   1.1
LKO    83.63 277 P    28 25.65  -0.5
       1.0s   20.00nm         5.2mb
SUR    84.25 228 eP   28 32.50   3.4X
       0.5s   46.00nm         5.9mb
KIC    84.38 274 P    28 30.81   0.9
       0.9s   24.00nm         5.3mb
TIC    84.49 275 P    28 31.35   0.9
       0.9s   17.50nm         5.2mb
LIC    84.69 274 P    28 32.42   1.0
       0.7s    6.00nm         4.9mb
CER    85.86 228 e(P) 28 32.80  -4.1X
       0.5s   16.00nm         5.5mb
YKA    88.10   8 eP   28 47.20  -0.1
       0.7s   12.80nm         5.3mb
LTX   121.99   6 ePKP 34 52.52   0.4
CCH   148.92 284 PKP  35 47.10   5.1X
LPAZ  150.08 288 PKP  35 44.10   0.0
LPB   150.18 288 ePKP 35 50.00   6.0X
CNCB  150.21 287 PKP  35 46.00   1.7
HJA   150.49 273 ePKPd 35 51.70  7.9X
     S.D. = 0.9  on 104 of 121 obs.
-----------------------------------
   OCT  20, 1993  16h 29m 18.92± 0.16s
    2.811 S ± 2.9km  142.011 E ± 3.9km
   DEPTH =  25.7km  (  7 depth phases)
   5.3mb ( 49 obs.)  4.8Msz ( 13 obs.)
 NEAR N COAST OF NEW GUINEA, PNG.(200)

WWKK    1.80 117 eP   29 48.00  -0.8
MNDI    3.71 154 eP   30 20.50   4.4X
MDG     4.47 123 eP   30 34.00   7.2X
PMG     8.31 142 eP   31 20.00  -0.8
KVG     8.79  89 eP   31 26.50  -1.0
RAB    10.23  98 e(P) 31 48.00   0.8
               iS    34 28.00
GUA    16.50  10 eP   33 09.70  -0.6
       0.8s  125.37nm         5.1mb
               e     33 13.80
CTA    17.66 167 iPc  33 27.00   2.0
       0.9s    6.30nm         3.7mb X
               ipP   33 55.00
               iS    36 54.00
               iPcS  38 55.00
               iScP  39 13.00
QIS    17.79 187 eP   33 27.00   0.4
KNA    18.31 225 eP   33 32.70  -0.3
       0.9s  268.00nm         5.4mb
WB5    18.53 203 eP   33 33.30  -2.5
               i     33 36.00
               i     33 41.90
               i     36 58.90
               iS    37 08.00
WR2    18.60 203 iPd  33 34.60  -1.9
               iS    37 05.00
WRA    18.60 203 P    33 35.00  -1.6
HNR    19.00 111 eP   33 41.00  -0.4
DAV    19.13 301 ePc  33 42.50  -0.4
CTB    20.37 299 eP   33 57.00   0.5
PLP    21.91 310 ePc  34 10.80  -1.4
ASPA   22.17 200 iPc  34 13.10  -1.7
       0.9s   48.00nm         4.9mb
     Z 21s    5.30um         4.9Msz
               eS    38 19.40
MAP    22.19 306 eP   34 14.00  -1.0
MKS    22.61 263 ePc  34 20.50   1.3
TSM    25.13 286 ePc  34 44.00   0.4
GQP    25.54 311 ePc  34 47.00  -0.4
PPR    26.35 299 ePd  34 54.50  -0.4
KKM    27.22 289 ePd  35 07.50   4.4X
ARMA   28.93 163 eP   35 19.80   1.4
       1.1s   28.00nm         4.9mb
DZM    30.49 131 iPc  35 31.00  -1.4
FORT   30.79 204 eP   35 34.00  -0.8
BWA    32.01 170 iPc  35 46.00   0.4
```

```
ADE    32.14 185 eP    35 47.30   0.6
CAN    32.99 169 iPc   35 55.54   1.5
CNB    33.05 169 eP    35 55.50   0.8
       0.5s    14.00nm          5.1mb
COOL   34.18 213 eP    36 03.80  -0.7
LEM    34.49 262 ePd   36 06.00  -1.5
TOO    34.74 175 eP    36 12.30   3.1X
KAGJ   35.43 343 eP    36 12.90  -2.2
MRWA   36.07 221 iPd   36 19.80  -0.8
       0.8s   133.00nm          5.9mb
BAL    36.56 218 eP    36 24.90   0.2
       0.9s    73.00nm          5.6mb
KLB    36.63 216 eP    36 24.50  -0.7
       0.8s    17.00nm          5.0mb
KUMJ   36.72 344 eP    36 25.90   0.0
WKYJ   37.33 351 P     36 30.90  -0.2
WKYJ   37.33 351 eP    36 31.40   0.3
TKSJ   37.36 349 P     36 31.10  -0.2
MUN    37.83 217 eP    36 35.60   0.3
       0.8s    49.00nm          5.4mb
NWAO   37.90 215 eP    36 36.40   0.5
TSRJ   38.56 352 P     36 41.00  -0.4
YONJ   38.64 349 P     36 42.20   0.1
CHJJ   38.76 356 P     36 41.90  -1.1
SSE    39.12 331 Pc    36 46.50   0.4
       1.5s    96.00nm          5.3mb
     Z 20s      1.00um          4.6Msz
     N 12s      0.90um
     E 12s      0.90um
MAT    39.31 355 eP    36 46.00  -1.6
       1.6s    63.33nm          5.1mb
               eS      42 44.00
MTMJ   39.39 355 P     36 47.30  -1.1
NIIJ   39.94 356 P     36 52.30  -0.5
YAMJ   40.82 358 eP    37 00.20   0.2
NJ2    41.05 329 Pd    37 03.00   1.0
IPM    41.60 280 ePc   37 05.50  -1.4
       0.9s    29.80nm          5.0mb
OFUJ   41.68 360 eP    37 06.10  -1.0
WHN    42.39 324 eP    37 15.00   2.0
     N 16s      1.07um
SNG    42.49 284 eP    37 14.00   0.0
       1.0s   120.00nm          5.6mb
LOE    44.52 298 eP    37 29.70  -0.8
GYA    44.87 313 iPc   37 34.40   1.0
       1.2s   140.00nm          5.8mb
     Z 20s      0.73um          4.6Msz
     N 18s      1.09um
     E 18s      0.71um
HOOJ   45.00   1 eP    37 34.30   0.3
MRRJ   45.03 359 eP    37 33.60  -0.6
TIA    45.24 331 Pd    37 36.30   0.2
       1.2s    40.00nm          5.2mb
     N 12s      0.52um
               S       44 15.50
KUSJ   45.76   3 eP    37 39.40  -0.6
VLA    46.62 350 eP    37 50.00   3.2X
       2.0s   240.00nm          5.8mb
               i       38 00.00  33km
               iPPP    39 22.00
               i       44 40.00
ASAJ   46.72   1 eP    37 47.80   0.2
KMI    47.13 308 Pc    37 52.00   0.6
       1.6s   170.00nm          5.8mb
     Z 30s      2.20um          4.9MszX
               pP      38 04.00  43kmX
               eS      44 48.00
SNY    47.48 341 Pd    37 53.40  -0.2
       1.7s   100.00nm          5.6mb
     Z 18s      1.18um          4.9Msz
CHTO   47.50 299 ePd   37 53.80  -0.4
       1.7s    44.97nm          5.2mb
URZ    47.67 142 eP    37 55.90   0.7
XAN    48.11 322 P     37 59.50   0.7
       1.4s    52.00nm          5.4mb
     Z 15s      0.58um          4.7MszX
     N 11s      0.28um
               pP      38 05.00  18km
MRW    48.24 147 (P)   38 00.00   0.4
MNG    48.25 146 eP    37 56.90  -2.9
PUZ    48.27 141 P     38 00.60   0.7
MDJ    48.50 348 eP    38 01.50  -0.1
       1.0s    19.00nm          5.1mb
CN2    48.73 344 eP    38 03.20  -0.1
       1.2s    24.00nm          5.1mb
     Z 20s      0.74um          4.7Msz
     N 10s      0.16um
     E 10s      0.32um
               epP     38 14.50  40kmX
TIY    48.76 329 eP    38 03.50  -0.2
     Z 20s      1.50um          5.0Msz
     N 12s      0.45um
BJI    48.78 334 eP    38 04.00   0.3
       1.5s    42.00nm          5.2mb
     Z 20s      0.90um          4.8Msz
     N 14s      0.41um
               eS      45 10.00
CD2    49.51 316 iPc   38 09.80   0.1
       1.2s   130.00nm          5.8mb
     Z 20s      0.94um          4.8Msz
     N 11s      0.77um
               eS      45 20.00
YSS    49.62   1 iPd   38 09.00  -1.1
       1.0s    40.00nm          5.4mb
               e       39 38.00 452kmX
HHC    51.58 331 P     38 25.40   0.1
       1.2s    23.00nm          5.0mb
     N 17s      0.11um
     E 10s      0.13um
BTO    52.16 329 P     38 29.00  -0.7
       1.4s    66.00nm          5.4mb
     N 14s      0.32um
     E 13s      0.36um
               sP      38 40.00
               eS      45 52.50
LZH    52.59 321 eP    38 33.50   0.4
       1.5s   160.00nm          5.7mb
     Z 24s      0.72um          4.6MszX
     E 11s      0.28um
               pP      38 45.00  40kmX
               sP      38 50.00
               PP      40 34.00
               eS      46 00.00
GTA    57.15 322 Pc    39 06.40   0.2
       1.2s    97.00nm          5.7mb
     Z 20s      0.86um          4.9Msz
     N 15s      0.35um
PET    57.36  12 eP    39 08.00   0.8
               e       39 16.00  26km
               ePPP    42 40.00
               eS      47 16.00
               e       48 48.00
LSA    58.36 308 P     39 16.40   1.2
CIT    59.68 340 eP    39 24.00   0.5
GUN    61.97 304 P     39 40.20   0.3
PKI    62.25 303 P     39 41.40  -0.3
KKN    62.43 303 P     39 42.80   0.0
DMN    62.51 303 P     39 43.60   0.2
GKN    63.04 303 P     39 46.60  -0.1
IRK    63.44 335 eP    39 49.50   0.8
       1.6s    23.00nm          5.1mb
               e       39 59.00  31km
YAK    65.33 354 iPd   40 00.30  -0.5
       1.5s   166.00nm          5.9mb
     Z 20s      0.60um          4.8Msz
     N 20s      0.50um
GBA    66.07 286 P     40 06.00  -0.4
WMQ    67.16 320 iPc   40 13.20   0.2
       1.0s    49.00nm          5.6mb
     Z 20s      0.54um          4.8Msz
               pP      40 19.20  19km
               sP      40 29.20
               PcP     40 38.00
               PP      42 46.00
KSH    73.54 312 P     40 54.30   2.4
       1.4s    89.00nm          5.6mb
     Z 24s      0.81um          4.9MszX
     N 14s      0.54um
     E 14s      0.80um
               pP      41 04.50  33km
               PcP     41 08.00
               sP      41 09.00
               PP      43 45.00
               SKS     50 56.00
NIL    74.04 306 iPd   40 58.30   3.6X
       0.6s     0.03nm          2.5mb X
               iPcP    41 18.20
TIK    74.80 356 iPd   40 57.00  -1.3
       1.6s    26.00nm          5.0mb
     Z 16s      0.30um          4.7MszX
               i       41 03.00  19km
FRU    75.56 315 eP    41 04.00   0.7
       1.8s    70.00nm          5.4mb
ILT    75.67  14 iPc   41 02.60  -0.8
       1.4s    30.00nm          5.1mb
QUE    78.55 301 eP    41 21.60   1.2
SVW    79.49  26 eP    41 25.16   0.4
       1.4s    63.22nm          5.5mb
KDC    79.57  30 eP    41 23.79  -1.3
       1.7s    76.25nm          5.4mb
TTA    80.13  24 eP    41 27.61  -0.6
       1.4s    19.17nm          4.9mb
NRI    80.64 343 iPd   41 30.30  -0.3
       1.4s    40.00nm          5.3mb
SLKM   81.68  28 eP    41 35.86  -0.4
PWA    82.24  27 eP    41 38.00  -1.1
IMA    82.41  22 eP    41 40.50   0.4
       1.5s    54.20nm          5.4mb
PMR    82.56  27 eP    41 40.48  -0.3
       1.0s    29.60nm          5.3mb
MAW    83.28 202 iPd   41 45.10   0.7
       1.4s    22.90nm          5.1mb
               e       42 07.20  82kmX
               i       42 17.90
MAW    83.28 202 P     41 45.50   1.1
       0.9s    26.32nm          5.4mb
KLU    83.98  27 eP    41 48.44   0.2
FBA    84.24  24 eP    41 48.71  -0.6
       0.9s    11.20nm          5.1mb
MAIO   85.62 307 iPc   41 58.20   1.3
ASH    86.71 308 eP    42 03.00   0.9
SPA    87.20 180 iPc   42 01.40  -2.8
       1.2s   176.06nm          6.2mb
SVE    87.61 327 ePd   42 06.00   0.0
       2.6s    50.00nm          5.3mb
     Z 19s      0.50um          4.9Msz
     N 19s      0.10um
     E 19s      0.50um
INK    90.54  22 eP    42 21.00   1.3
       1.0s     3.00nm          4.5mb
LGPM   95.73  49 eP    42 45.80   1.5
NVL    99.65 195 eP    43 03.00   1.7
     Z 18s      0.50um          5.1Msz
     N 18s      0.50um
OBN   101.09 326 ePdiff43 07.00  -1.0
       1.3s    15.90nm          5.4mb
     Z 16s   331.00um          7.9MszX
               ePP     47 17.30
               e       56 09.80
BRG   115.33 327 ePKP  48 02.40   2.4
CLL   115.63 327 ePKP  48 00.00  -0.6
KHC   116.39 325 ePKP  48 02.50   0.3
       1.0s     3.50nm
               e       49 06.00
GEC2  116.46 325 PKP   48 03.10   0.7
       0.8s     1.34nm
               e       48 09.20
KBA   117.52 323 iPKP  48 07.30   2.7X
WTTA  118.45 324 iPKP  48 09.50   3.2X
MOTA  118.72 324 iPKP  48 07.10   0.3
       0.9s     8.20nm
               i       48 09.30
               i       48 13.80
OXF   122.81  50 ePKP  48 13.42  -1.3
PRM   128.30  48 (PKP) 48 26.56   1.2
YJA   143.40 134 ePKPd 48 53.00  -1.3
CNCB  144.54 124 PKP   48 56.90   0.4
LPB   144.59 124 PKP   48 58.10   1.7
LPAZ  144.68 123 PKP   49 07.00  10.1X
LPAZ  144.68 123 PKPd  48 57.00   0.1
       0.8s   174.40nm
               i       52 41.00
               SKS     56 00.70
CCH   145.74 127 PKP   49 00.60   2.3
KIC   146.68 277 ePKP  49 01.18   1.7
       1.0s    58.00nm
RSTA  150.67 159 ePKP  49 12.90   7.5X
               e       49 20.80
PPD   152.09 153 ePKP  49 15.90   8.3X
               e       49 25.30
BAO   159.17 152 ePKP  49 19.00   2.0
               i       49 54.00
BDF   159.19 152 ePKP  49 18.70   1.6
       1.4s     0.60nm
               i       50 06.10
SOB1  167.71 166 ePKP  49 24.70  -0.2
     S.D. = 1.1  on 131 of 142 obs.
-----------------------------------
&  OCT  20, 1993  17h 01m 04.90s
   37.004 N          121.935 W
   DEPTH =   5.2km
```

20d 17h

```
 CENTRAL CALIFORNIA                    ( 39)
      <GM-P>. MD 2.3 (GM). ML 2.2
      (BRK). Felt at Santa Cruz.

GCC      0.06 298 iP     01 06.38   -0.1
                  iS     01 08.17
COE      0.33  40 eP     01 12.35    0.8
MHC      0.41  35 ePc    01 13.63    0.5
                  iS     01 20.36
STAN     0.44 334 ePc    01 14.40    0.6
                  iS     01 21.10
SAO      0.46 121 eP     01 13.87   -0.3
ARN      0.47  43 eP     01 14.62    0.3
PCC      0.61 324 iP     01 16.56   -0.5
                  iS     01 22.92
JEGM     0.66 321 eP     01 16.75   -1.4
PRS      0.81 146 iPd    01 20.33   -0.8
                  iS     01 31.58
BKS      0.90 345 iP     01 22.38   -0.3
ZSP      0.97 345 iP     01 23.64   -0.2
PRI      1.34 130 iP     01 29.84   -0.3
CMB      1.61  50 ePd    01 32.70   -1.3
BCH      2.35 140 (P)    01 43.09   -1.8
       14 obs. associated
-----------------------------------------
?  OCT  20, 1993  17h 19m 19.54± 0.86s
   26.368 S ± 8.6km   27.497 E ±19.1km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA          (584)
      mbLg 3.5 (BUL).

SLR      0.95  48 eP     19 37.80   -0.3
                  S      19 47.60
SEK      1.95 177 eP     19 54.30    0.5
                  S      20 18.00
BLF      2.97 203 eP     20 07.80   -0.5
                  S      20 51.50
BUL      6.28  10 iPn    20 55.00   -0.3
                  iSg    22 33.40
KRI      9.69  12 iPn    21 43.50    0.6
                  iSn    23 27.80
                  iSg    24 23.00
     S.D. = 0.7   on   5 of   5 obs.
-----------------------------------------
%  OCT  20, 1993  17h 59m 41.18± 0.43s
   44.506 N ± 3.7km    7.364 E ± 4.7km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                    (545)
      ML 2.1 (GEN).

PZZ      0.19 270 P      59 46.08    0.6
                  S      59 49.08
STV      0.26 186 P      59 46.71   -0.1
                  S      59 50.06
ENR      0.28 172 P      59 47.07   -0.1
                  S      59 50.70
BHB      0.34 348 P      59 48.46    0.2
                  S      59 52.94
ROB      0.42 120 P      59 50.28    0.5
                  S      59 55.99
RRL      0.59 315 P      59 53.01   -0.2
                  S      00 00.48
RSP      0.65 353 P      59 53.29   -1.0
                  S      00 01.03
FIN      0.67 116 P      59 54.52   -0.1
                  S      00 03.04
IMI      0.71 147 P      59 54.40   -0.7
                  S      00 02.86
PCP      0.85  87 P      59 58.03    0.5
                  S      00 08.94
LSD      0.96 351 P      00 00.02    0.3
     S.D. = 0.6   on  11 of  11 obs.
-----------------------------------------
*  OCT  20, 1993  18h 08m 21.74± 0.36s
   7.465 S ± 6.1km  130.559 E ± 7.9km
   DEPTH =  21.5km  (  5 depth phases)
   4.9mb ( 13 obs.)
 TANIMBAR ISLANDS REG., INDONESIA(281)

MKS     11.24 281 iPc    11 16.30   12.0X
WR2     12.95 164 iPc    11 19.50   -7.8X
                  eS     13 38.40
YYYY    15.35  86 eP     11 58.60   -0.4
QIS     15.69 147 eP     11 58.00   -5.2X
                  eS     14 42.90
CTB     15.89 336 eP     12 12.00    6.2X
ASPA    16.43 169 iPd    12 06.60   -6.1X
     Z  18s     3.00um
                  eS     15 00.90
PMG     16.53  98 eP     12 13.00   -1.0
MAP     18.84 340 eP     12 42.00   -0.8
PLP     19.32 343 ePd    12 51.00    2.4
KKM     19.62 313 eP     13 01.00    8.9X
CTA     19.72 131 iPc    12 53.00   -0.1
        1.0s     7.50nm          3.9mb
                  i(pP)  13 02.50   39kmX
                  i      13 19.00
                  i      13 48.00
                  eS     16 24.00
                  i      18 33.00
                  i      18 49.00
LEM     22.77 270 iPc    13 25.20    0.9
PGP     22.91 335 eP     13 08.00  -17.5X
FORT    23.31 185 eP     13 28.50   -0.7
MRWA    25.62 211 eP     13 51.40    0.0
                  eS     18 32.20
STK     26.38 159 iP     14 01.10    2.6
                  eS     19 16.00
KLB     26.81 205 eP     14 02.00   -0.4
        0.8s    23.00nm          4.9mb
NWAO    28.19 204 eP     14 15.20    0.2
        1.0s    40.00nm          5.1mb
                  eS     19 32.70
ADE     28.38 166 e(P)   14 16.20   -0.5
BWA     31.48 151 eP     14 43.30   -1.0
CAN     32.48 151 iPc    14 52.80   -0.2
                  i(PcP)15 12.80
DZM     37.49 117 iPc    15 48.00   11.9X
BDT     39.69 308 eP     15 52.20   -2.2
CHTO    40.66 310 ePc    16 01.40   -1.0
        1.0s    14.75nm          4.7mb
GYA     40.92 326 P      16 05.00    0.4
TKSJ    41.35   4 P      16 08.50    0.7
WKYJ    41.73   6 P      16 14.90    3.9X
KMI     42.22 321 Pd     16 17.50    2.1
        1.4s    40.00nm          5.0mb
                  pP     16 22.50   17km
YONJ    42.51   4 P      16 17.70    0.4
MAT     44.36   9 eP     16 30.00   -2.3
        1.0s     6.00nm          4.4mb
                  eS     23 00.00
CD2     45.99 327 eP     16 45.80    0.3
XAN     46.09 335 P      16 45.70   -0.5
        1.0s     8.90nm          4.7mb
                  pP     16 52.00   21km
YAMJ    46.25  10 eP     16 46.90   -0.5
OFUJ    47.44  12 eP     16 58.60    1.9
TIY     48.02 341 eP     17 04.50    3.0X
BJI     49.10 345 eP     17 14.00    4.4X
        1.5s    14.00nm          4.8mb
LZH     50.07 332 eP     17 17.50    0.1
        1.4s    28.00nm          5.1mb
                  pP     17 25.00   25km
                  eS     24 23.00
BTO     51.43 340 eP     17 31.60    4.0X
GTA     54.64 331 eP     17 52.20    0.7
        1.5s    21.00nm          4.9mb
                  pP     17 59.00   22km
GUN     55.67 311 P      17 57.50   -1.9
        0.7s    29.00nm          5.4mb
PKI     55.85 310 P      18 00.20   -0.4
KKN     56.06 311 P      18 01.70   -0.3
DMN     56.09 310 P      18 02.80    0.5
GKN     56.65 310 P      18 05.30   -0.9
WMQ     64.08 327 eP     18 56.00   -0.6
        1.0s    14.00nm          5.1mb
                  pP     19 03.00   23km
YAK     69.27 360 eP     19 28.90   -0.1
        1.0s    35.00nm          5.5mb
MAIO    79.40 309 eP     20 28.00   -0.2
YJA    146.61 152 ePKPc 28 06.50    3.3X
ARE    147.73 138 e(PKP)28 10.00    5.1X
RSTA   148.08 181 ePKP  28 10.30    5.4X
CNCB   149.70 143 PKP   28 13.00    4.7X
LPAZ   150.01 142 PKP   28 11.50    2.7
CCH    150.31 146 PKP   28 17.10    8.2X
PPD    150.63 176 (PKP) 28 16.00    7.1X
     S.D. = 1.2  on  36 of  54 obs.
-----------------------------------------
&  OCT  20, 1993  18h 16m 18.41s
   40.242 N          123.694 W
   DEPTH =  28.4km
 NORTHERN CALIFORNIA               ( 36)
      <GM-P>. MD 2.9 (GM).

KMPM    0.37 298 ePc     16 26.42   -0.4
                  eS     16 32.80
FHC     0.60 338 iPd     16 29.71   -0.7
LGPM    0.94  44 eP      16 34.40   -1.4
                  eS     16 45.58
WDC     0.94  69 ePc     16 34.09   -1.6
LMEM    1.65  79 eP      16 44.73   -1.3
LBFM    1.76  51 ePc     16 46.93   -0.7
ORV     1.82 111 eP      16 46.27   -2.1
       7 obs. associated
-----------------------------------------
%  OCT  20, 1993  18h 59m 29.65± 0.82s
   31.174 S ±15.0km   68.243 W ±12.8km
   DEPTH = 100.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA      (137)

RTLL    0.25 231 iPd     59 45.70    1.2
                  S      59 57.00
CFA     0.43 180 iPc     59 44.90   -0.3
                  S      59 56.10
RTCB    0.57 237 iPd     59 45.70   -0.6
                  S      59 57.00
RTRS    1.45 313 iPd     59 55.50   -0.1
RTPR    1.73  60 eP      59 59.00   -0.1
                  S      00 21.50
     S.D. = 1.0  on   5 of   5 obs.
-----------------------------------------
&  OCT  20, 1993  19h 08m 54.06s
   36.154 N          118.035 W
   DEPTH =   0.0km
 CENTRAL CALIFORNIA                ( 39)
      <PAS-P>. ML 2.7 (PAS).

WORM    0.49 200 P       09 03.58   -0.2
WASM    0.59 226 P       09 05.65   -0.3
ISA     0.61 216 ePc     09 05.72   -0.4
WJPM    0.83 206 P       09 09.84   -0.7
WOFM    0.83 222 P       09 09.89   -0.7
BMTC    1.11 204 P       09 15.09   -0.9
BHPR    1.20 343 P       09 16.20   -1.3
ARVC    1.21 213 P       09 17.50   -0.1
MTUM    1.27 341 eP      09 17.20   -1.5
                  eS     09 33.71
GSC     1.31 130 eP      09 18.49   -0.9
ORC     1.56 342 P       09 22.84   -0.5
MRCM    1.56 346 eP      09 22.04   -1.3
MARC    1.57 223 P       09 22.78   -0.4
CLKR    1.57 336 P       09 22.65   -0.9
ABL     1.62 217 ePd     09 23.79   -0.4
TPNV    1.64  61 eP      09 23.30   -1.2
MCSM    1.65 335 P       09 24.98    0.3
MMPM    1.66 332 iPc     09 24.17   -0.7
                  eS     09 45.33
MEMM    1.67 335 eP      09 24.10   -0.6
                  eS     09 45.41
YEG     1.72 246 P       09 25.78    0.3
BONR    1.81 353 eP      09 27.15    0.1
PARM    1.87 274 P       09 28.02    0.4
PDRM    1.90 276 P       09 28.34    0.3
BCH     1.93 241 eP      09 28.20   -0.4
TNP     2.03  19 eP      09 30.46    0.3
PRCM    2.09 274 P       09 31.37    0.5
SCCM    2.12 236 P       09 32.29    1.0
BMSM    2.28 284 P       09 34.14    0.5
CMB     2.66 316 eP      09 39.89    0.9
PLM     2.96 161 (P)     09 43.53    0.2
ARN     3.05 294 (P)     09 44.36   -0.2
       31 obs. associated
-----------------------------------------
&  OCT  20, 1993  19h 20m 12.44s
   63.143 N          150.769 W
   DEPTH = 130.4km
 CENTRAL ALASKA                    (  1)
      <AEIC>.

TRF     0.38  35 iPc     20 31.00   -0.4
                  eS     20 45.34
KTH     0.42 351 iPc     20 30.97   -0.5
                  eS     20 44.75
HUR     0.54 107 ePd     20 31.55   -0.5
                  eS     20 46.39
CUT     0.78 163 iPd     20 33.36   -0.3
                  eS     20 49.82
RND     0.91  72 iPd     20 34.29   -0.6
                  eS     20 51.60
MCK     1.01  54 eP      20 35.38   -0.5
BWN     1.19  29 iPc     20 37.24   -0.3
```

SKT	1.22	197	ePc	20 37.32	-0.6
			eS	20 57.13	
DHY	1.55	91	ePd	20 41.05	-0.6
			eS	21 03.72	
PWA	1.55	164	P	20 41.20	-0.3
GHO	1.62	147	iPd	20 42.01	-0.4
			eS	21 05.02	
NEA	1.62	27	iPc	20 40.97	-1.4
SUA	1.69	180	eP	20 43.50	0.3
PLRM	1.73	153	eP	20 42.81	-0.8
PMR	1.73	153	eP	20 42.41	-1.2
			S	21 06.26	
SML	1.75	139	iPd	20 42.99	-0.9
WRH	1.79	41	iPc	20 43.12	-1.1
NCG	1.86	201	eP	20 44.54	-0.8
MLY	1.90	0	iPc	20 44.29	-1.3
PMS	1.99	163	P	20 46.20	-0.6
CRP	1.99	200	eP	20 46.20	-0.7
CCB	2.00	40	ePc	20 45.57	-1.3
CP2	2.01	201	eP	20 46.54	-0.6
BGL	2.03	203	eP	20 47.09	-0.3
CKN	2.04	200	eP	20 47.52	0.2
KNK	2.05	147	eP	20 46.60	-0.9
CKT	2.06	200	eP	20 46.97	-0.8
SCM	2.07	128	iPd	20 46.97	-0.8
CKL	2.09	201	eP	20 47.40	-0.7
HDA	2.12	52	eP	20 47.04	-1.3
MDM	2.14	30	iPc	20 47.30	-1.3
BKG	2.20	199	eP	20 48.41	-1.0
FBA	2.20	35	iPc	20 47.78	-1.5
THY	2.28	81	eP	20 50.84	0.4
TOA	2.37	114	P	20 51.00	-0.5
IL1	2.37	45	iPc	20 50.01	-1.5
ILB	2.37	45	iPc	20 50.01	-1.5
			eS	21 18.99	
GLM	2.37	37	iPc	20 50.40	-1.2
TTA	2.40	267	eP	20 50.21	-1.7
NKA	2.42	185	eP	20 53.88	1.8
CFI	2.42	143	eP	20 51.10	-1.0
PAX	2.42	92	ePd	20 51.49	-0.8
			eS	21 22.44	
DJE	2.44	66	eP	20 51.78	-0.7
SDG	2.48	102	eP	20 52.18	-0.7
			eS	21 23.60	
PWL	2.56	152	eP	20 52.92	-1.1
SLKM	2.66	174	eP	20 54.45	-0.8
RDT	2.69	197	eP	20 55.00	-0.7
TZL	2.71	112	eP	20 56.83	1.0
DFR	2.72	200	eP	20 55.42	-0.7
MPA	2.75	165	eP	20 55.26	-1.1
NCT	2.79	203	eP	20 56.41	-0.6
KLU	2.80	124	eP	20 55.55	-1.7
REF	2.82	200	eP	20 56.72	-0.8
RDW	2.84	201	eP	20 57.15	-0.6
RS2	2.85	200	eP	20 57.24	-0.7
VZW	2.88	135	eP	20 56.57	-1.6
RED	2.89	200	eP	20 57.83	-0.6
VLZ	2.90	132	eP	20 56.72	-1.6
DOT	3.06	77	eP	20 59.06	-1.5
SVW	3.06	230	eP	20 58.56	-2.0
SEW	3.11	168	eP	21 00.06	-1.1
IM3	3.13	337	iPc	20 59.62	-1.7
FID	3.14	138	eP	20 59.97	-1.6
IMA	3.19	338	iPc	21 00.27	-2.1
ILIM	3.25	200	eP	21 01.94	-1.1
BRLK	3.39	181	eP	21 04.01	-0.9
LTI	3.41	155	ePd	21 03.31	-1.8
HIN	3.42	142	eP	21 03.88	-1.4
MTU	3.50	153	eP	21 05.71	-0.6
HOM	3.52	187	eP	21 06.23	-0.3
CVA	3.53	135	eP	21 05.90	-0.7
CNPM	3.64	184	iPc	21 07.11	-1.0
GLB	3.67	115	iPd	21 07.34	-1.3
OPT	3.70	200	eP	21 08.16	-0.8
XLV	3.73	188	eP	21 08.47	-0.9
SGAM	3.74	133	eP	21 07.80	-1.7
PDB	3.75	208	eP	21 08.67	-0.9
AUL	3.99	200	P	21 13.30	0.5
AUE	4.00	199	P	21 12.60	-0.4
RAGM	4.00	131	eP	21 10.63	-2.4
AUP	4.00	200	eP	21 13.08	-0.1
AUW	4.00	200	eP	21 12.48	-0.6
AUH	4.01	200	P	21 13.80	0.7
BC3	4.08	87	iPd	21 12.18	-2.0
FYU	4.17	32	eP	21 13.77	-1.5
HMT	4.18	129	eP	21 13.86	-1.6
CDD	4.45	200	eP	21 17.91	-1.2

BALM	4.49	114	eP	21 17.86	-1.8
WAX	4.63	122	eP	21 20.24	-1.3
CTGM	4.95	112	eP	21 25.01	-0.9
BM3	5.01	28	iPc	21 24.35	-2.3

91 obs. associated

% OCT 20, 1993 19h 35m 52.98± 2.92s
45.149 S ± 8.4km 166.483 E ±24.7km
DEPTH = 33.0km (normal)
OFF W. COAST OF S. ISLAND, N.Z. (161)
ML 4.1 (WEL).

MSZ	1.13	66	P	36 13.00	0.5
			S	36 27.60	
TLC	1.83	92	P	36 22.90	0.1
MMCZ	1.88	86	P	36 23.90	0.4
CMCZ	1.98	91	P	36 24.90	0.1
MHZ	1.98	88	P	36 25.30	0.3
SBCZ	2.00	89	P	36 25.60	0.4
LRCZ	2.03	89	P	36 26.00	0.3
LSCZ	2.04	90	P	36 26.00	0.2
SIZ	2.07	147	P	36 26.50	0.4
TUZ	2.36	111	P	36 29.00	-1.1
BWZ	2.50	77	Pc	36 32.50	0.4
ODZ	2.95	89	Pd	36 37.50	-1.1
			S	37 10.00	
WVZ	3.70	57	P	36 50.50	1.4
MQZ	4.65	74	P	37 01.50	-1.1
			eS	37 49.90	
LTZ	4.80	63	eP	37 04.30	-0.5
THZ	5.77	56	P	37 19.40	0.8
			S	38 21.70	
QRZ	6.19	48	eP	37 22.80	-1.6

S.D. = 0.9 on 17 of 17 obs.

& OCT 20, 1993 20h 29m 25.49s
61.581 N 147.409 W
DEPTH = 20.0km
SOUTHERN ALASKA (2)
<AEIC>. ML 2.7 (AEIC), 2.7 (PMR).

SCM	0.26	9	P	29 31.70	0.1
			S	29 37.00	
CFI	0.44	203	P	29 34.50	0.1
SML	0.50	298	P	29 34.50	-1.0
			S	29 41.50	
KNK	0.53	252	P	29 35.70	-0.3
VZW	0.67	141	P	29 37.20	-1.2
VLZ	0.69	131	P	29 37.20	-1.4
KLU	0.72	96	P	29 37.90	-1.4
			S	29 47.30	
GHO	0.75	286	P	29 38.50	-1.3
			S	29 49.10	
TOA	0.79	48	P	29 39.40	-1.0
			S	29 51.50	
PLRM	0.82	272	P	29 39.70	-1.3
			S	29 50.40	
PMR	0.82	272	iPc	29 39.70	-1.3
			iS	29 50.40	
PWL	0.85	212	P	29 40.70	-0.8
FID	0.95	151	P	29 41.90	-1.2
TZL	1.05	63	P	29 43.50	-1.4
PMS	1.09	253	P	29 44.50	-1.0
			S	29 58.60	
PWA	1.18	274	P	29 44.50	-2.4
KNIM	1.25	187	P	29 46.20	-1.6
			S	30 01.80	
HIN	1.27	159	P	29 47.50	-0.6
			S	30 06.60	
SDG	1.29	42	P	29 46.70	-1.8
			S	30 02.60	
CVA	1.31	141	P	29 47.90	-0.8
			S	30 07.80	
MPA	1.45	222	P	29 49.70	-1.0
			S	30 09.60	
DHY	1.50	1	P	29 49.50	-2.1
			S	30 07.20	
SGAM	1.52	134	P	29 50.70	-1.1
LTI	1.56	188	P	29 52.00	-0.3
CUT	1.58	303	P	29 51.20	-1.4
SUA	1.60	267	P	29 52.00	-1.0
MTU	1.60	184	P	29 52.70	-0.2
PAX	1.66	32	P	29 52.00	-1.9
GLB	1.73	93	P	29 53.20	-1.6
			S	30 16.40	
SLKM	1.74	233	P	29 54.20	-0.7

HUR	1.75	324	P	29 53.70	-1.3
			S	30 17.00	
RAGM	1.79	131	P	29 56.20	0.5
RND	1.95	341	P	29 57.00	-1.0
HMT	1.98	128	P	29 57.50	-0.9
SKT	2.00	283	P	29 57.70	-1.0
CGLM	2.23	265	P	30 01.20	-0.8
SPU	2.27	262	P	30 01.20	-1.4
NCG	2.28	268	P	30 02.00	-0.8
TRF	2.30	326	P	30 02.00	-1.2
WAX	2.49	115	P	30 04.50	-1.3
BALM	2.50	100	P	30 05.50	-0.5
KTH	2.56	322	P	30 05.90	-0.9
DFR	2.75	251	P	30 07.90	-1.5
CNPM	2.80	224	P	30 08.80	-1.2
REF	2.80	249	P	30 08.80	-1.4
HDA	2.84	4	P	30 10.50	-0.2
RED	2.86	248	P	30 09.30	-1.7
CTGM	3.00	99	P	30 13.60	0.6
BC3	3.02	58	P	30 13.80	0.6
YAH	3.02	111	P	30 15.00	1.7
CCB	3.08	357	P	30 12.10	-1.9
ILIM	3.11	243	P	30 12.30	-2.2
IL1	3.21	4	P	30 14.80	-1.1
ILB	3.21	4	P	30 14.80	-1.1
			S	30 52.90	
FBA	3.34	357	eP	30 15.90	-1.7
MLY	3.77	338	P	30 21.70	-2.2
SVW	3.98	267	eP	30 23.00	-3.9
IM3	5.24	330	P	30 42.00	-2.6
IMA	5.29	331	eP	30 43.10	-2.4

59 obs. associated

& OCT 20, 1993 20h 54m 34.41s
58.552 N 154.052 W
DEPTH = 94.8km
ALASKA PENINSULA (12)
<AEIC>.

CDD	0.43	29	eP	54 48.58	-0.9
AUI	0.85	22	eP	54 52.04	-1.0
			eS	55 05.64	
AGU	0.87	21	eP	54 52.68	-0.8
AUH	0.87	21	eP	54 52.64	-0.8
AUW	0.87	20	iP	54 52.50	-0.8
AUP	0.88	22	eP	54 52.16	-1.3
AUE	0.88	23	eP	54 52.61	-0.8
AUL	0.89	21	eP	54 52.51	-1.0
KDC	1.16	134	P	54 55.20	-1.3
OPT	1.18	21	iP	54 55.73	-1.2
			eS	55 12.17	
PDB	1.24	357	eP	54 56.47	-1.1
			eS	55 12.85	
INE	1.60	18	eP	55 00.50	-1.7
ILIM	1.63	20	eP	55 00.82	-1.7
HOM	1.67	47	eP	55 01.25	-1.6
CNPM	1.75	55	eP	55 01.77	-2.3
			eS	55 22.60	
RED	1.98	19	eP	55 05.34	-1.8
RS2	2.03	18	eP	55 06.17	-1.7
			eS	55 31.22	
RDW	2.04	18	eP	55 06.29	-1.7
REF	2.06	19	eP	55 06.37	-1.9
			eS	55 30.51	
NCT	2.10	15	eP	55 05.62	-3.1
DFR	2.16	18	eP	55 07.80	-1.8
BKG	2.68	19	eP	55 13.91	-2.7
SLKM	2.77	43	eP	55 14.92	-2.8
CKL	2.79	17	eP	55 15.93	-2.2
SEW	2.83	55	eP	55 14.93	-3.5
CGLM	2.95	20	eP	55 18.44	-1.8
MPA	3.08	49	eP	55 19.20	-2.7
LTI	3.51	62	eP	55 24.19	-3.7
PMS	3.52	38	P	55 25.00	-3.1
KNIM	3.69	58	eP	55 26.78	-3.6
PWL	3.71	49	eP	55 27.11	-3.5
KNK	4.02	42	eP	55 31.39	-3.5

32 obs. associated

? OCT 20, 1993 22h 28m 08.70± 3.56s
36.594 N ±35.9km 29.371 E ± 7.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 3.4 (ISK).

ELL	0.46	70	iPg	28 18.00	-0.1
			iSg	28 27.00	

20d 22h

```
BCK     1.30  48 ePn   28 33.00   0.1
CIN     1.44 315 eP    28 35.00   0.3
KHL     1.73   4 iPn   28 39.00  -0.1
IZM     2.46 318 ePn   28 49.30  -0.2
     S.D. = 0.3  on   5 of   5 obs.
-----------------------------------------
%  OCT  20, 1993  22h 59m 08.97± 0.96s
   37.657 N ± 9.5km    4.343 W ± 8.5km
   DEPTH =  10.0km  (geophysicist)
 SPAIN                              (377)
      mbLg 2.6 (MDD).

ELUQ    0.11 148 iPd   59 13.57   1.6
                e      59 16.50
EBAN    0.67  41 iPd   59 22.64   0.3
                e      59 31.70
ECOG    0.73 121 iPc   59 21.86  -1.5
                e      59 31.90
EHOR    0.74 283 iPc   59 23.07  -0.3
                e      59 32.70
EGUA    1.03 143 iPc   59 28.10  -0.3
                e      59 42.00
EHUE    1.40  83 eP    59 34.75   0.2
                e      59 53.20
     S.D. = 1.3  on   6 of   6 obs.
-----------------------------------------
*  OCT  20, 1993  23h 07m 42.71± 0.83s
   29.199 S ± 9.4km  178.356 W ± 9.6km
   DEPTH = 213.9 ±  8.6 km
   4.7mb (  7 obs.)
 KERMADEC ISLANDS, NEW ZEALAND      (178)

RAO     0.39  98 iP    08 12.50   0.8
                iS     08 22.50
HBZ     8.83 198 eP    09 45.90  -1.6
PUZ     9.29 197 eP    09 52.40  -1.1
                S      11 39.60
URZ     9.79 201 P     09 59.70  -0.2
                eS     11 51.80
SVA    11.41 345 iPc   10 15.10  -5.6X
VUN    11.51 345 eP    10 15.10  -6.9X
DZM    15.43 294 iPd   11 12.10   1.2
AFI    16.39  23 eP    11 11.00 -11.7X
BKM    16.80 310 iPc   11 26.50  -0.8
CTA    33.32 278 iP    14 03.50   1.2
WR2    43.73 271 iPc   15 30.20   1.6
        0.4s     4.30nm          4.3mb
WRA    43.75 271 P     15 29.80   1.0
        0.8s     1.50nm          3.5mb X
SPA    60.96 180 iPc   17 37.70   2.4
        0.7s    15.63nm          4.8mb
CHJJ   76.30 326 eP    19 08.10  -1.3
WKYJ   76.64 322 P     19 10.60  -0.7
MAT    77.08 325 eP    19 12.00  -1.7
        1.1s    27.85nm          4.9mb
TSRJ   77.43 323 eP    19 14.50  -1.1
YONJ   78.52 321 P     19 20.70  -0.9
BCH    84.36  44 eP    19 52.22   0.2
ARN    84.95  42 eP    19 54.18  -0.6
KMPM   85.60  38 eP    19 58.67   0.7
ISA    85.67  45 eP    19 58.76   0.3
        1.2s    17.33nm          4.7mb
CMB    86.08  42 eP    19 59.80  -0.6
        0.9s     8.37nm          4.6mb
LGPM   86.65  39 ePc   20 03.61   0.4
BONR   87.26  43 eP    20 06.27  -0.1
TUC    88.61  52 eP    20 14.30   1.6
        0.8s     4.54nm          4.4mb
BMW    90.30  35 eP    20 20.35   0.2
GMW    91.27  34 (P)   20 24.69   0.2
BJI    91.85 316 eP    20 28.00   0.7
        1.0s     8.00nm          4.7mb
SLKM   92.31  14 eP    20 27.26  -1.8
KAF   143.32 341 iPKP  26 47.90  -4.3X
        0.5s     3.10nm
OBN   144.00 326 iPKPc 26 51.60  -2.0
        1.6s    48.00nm
NUR   145.08 340 iPKP  26 53.70  -1.5
        0.7s    53.80nm
UPP   147.48 345 iPKP  27 00.40   1.3
NB2   147.52 351 PKP   27 01.10   1.8
        0.8s    24.90nm
HFS   148.01 349 ePKP  27 00.60   0.6
        0.7s    27.80nm
KAS   151.27 304 ePKP  27 13.00   7.3X
CLL   156.33 342 e(PKP)27 22.00   9.7X
                e      27 40.00
     S.D. = 1.2  on  32 of  38 obs.
-----------------------------------------
*  OCT  21, 1993  00h 07m 51.87± 1.51s
   49.138 N ±14.0km    6.877 E ± 8.1km
   DEPTH =  10.0km  (geophysicist)
 GERMANY                            (543)
      ML 2.0 (UCC).

RUP     0.58  12 ePg   08 03.30  -0.3
WLF     0.71 318 iPd   08 05.94   0.1
                iS     08 15.45
ABH     0.86  30 ePg   08 08.80   0.3
ENN     1.74 340 eP    08 25.00   2.7X
        0.6s     6.30nm
                e      08 48.00
DOU     1.77 304 P     08 22.60  -0.1
GEC2    4.50  91 Pn    09 01.70   0.0
                Sn     09 51.60
                Sg     10 15.40
     S.D. = 0.3  on   5 of   6 obs.
-----------------------------------------
*  OCT  21, 1993  00h 35m 04.33± 0.78s
   28.898 N ±13.8km   34.698 E ±10.0km
   DEPTH =  10.0km  (geophysicist)
   4.4mb (  9 obs.)
 EGYPT                              (553)
      MD 4.2 (HLW).

HLW     3.08 289 ePn   35 53.87   0.0
                ePg    36 02.00
                eSn    36 25.50
CSS     6.16 349 eP    36 37.00  -0.5
UQSK    7.48 113 eP    36 56.67   0.4
QASM    8.33 108 eP    37 07.67  -0.4
CIN    10.29 329 eP    37 36.00   1.0
OHR    16.65 321 eP    38 48.00 -11.3X
SKO    16.91 324 eP    39 02.00  -0.5
MAIO   22.12  64 eP    40 10.00   8.3X
PSZ    22.18 333 e(P)  39 58.30  -3.9X
SRO    22.76 331 eP    40 10.70   3.0X
ZST    23.58 330 eP    40 18.50   2.8X
KBA    24.62 323 iPc   40 27.20   1.1
        0.7s     4.80nm          4.3mb
                i      40 29.30
GEC2   25.62 327 P     40 36.10   0.7
        1.0s     4.88nm          4.1mb
                e      40 38.10
                e      40 46.00
WTTA   25.64 322 iP    40 30.30  -5.5X
        1.0s    10.00nm          4.5mb
                i      40 37.10
                i      40 39.10
WATA   25.72 322 iP    40 37.40   0.9
SQTA   25.85 321 iP    40 40.20   2.5X
KHC    25.87 327 eP    40 38.50   0.7
                e      41 14.50
MOTA   25.98 322 iP    40 37.70  -1.3
        0.9s     5.50nm          4.2mb
                i      40 41.40
PRU    26.04 330 P     40 42.10   2.9X
OBN    26.22   2 iPc   40 41.80   1.0
        1.0s    14.00nm          4.6mb
BRG    26.94 330 eP    40 47.10  -0.4
GRF    27.39 326 eP    40 50.00  -1.7
CLL    27.67 330 iP    40 54.30   0.2
        1.1s     8.00nm          4.4mb
MOX    27.83 328 iPd   40 56.20   0.5
        1.4s    16.00nm          4.6mb
HFS    34.32 341 eP    41 51.70  -1.1
        0.6s     6.70nm          4.7mb
NB2    35.77 341 P     42 04.60  -0.6
        0.9s     4.30nm          4.3mb
     S.D. = 0.9  on  18 of  26 obs.
-----------------------------------------
   OCT  21, 1993  01h 04m 39.91± 0.75s
   38.867 N ± 5.9km   29.987 E ± 7.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)
      ML 3.3 (ISK).

ALT     0.21  27 iPg   04 43.10  -1.5
KHL     0.65 214 iPg   04 51.50  -1.5
                eSg    05 01.50
DST     1.29 305 ePn   05 03.50  -0.3
GPA     1.44  10 ePn   05 06.30   0.2
BCK     1.48 161 ePn   05 07.90   1.2
EYL     1.70   4 iPn   05 10.50   0.6
CIN     1.96 230 eP    05 19.00   5.5X
BNT     2.18 314 ePn   05 17.00   0.2
IZM     2.18 258 ePn   05 17.00   0.2
EDC     2.21 313 ePn   05 18.00   0.9
EZN     3.00 290 ePn   05 28.20  -0.1
     S.D. = 1.0  on  10 of  11 obs.
-----------------------------------------
?  OCT  21, 1993  02h 07m 23.80± 3.79s
   30.488 S ±30.6km   69.022 W ±30.7km
   DEPTH = 120.0km  (geophysicist)
 CHILE-ARGENTINA BORDER REGION      (127)

RTLL    0.96 151 ePd   07 45.70  -0.1
                S      07 59.80
RTCB    1.01 169 ePd   07 46.20  -0.2
                (S)    08 00.00
CFA     1.30 149 ePd   07 49.60   0.2
                S      08 07.70
RTCV    1.43 163 eP    07 51.00   0.2
                S      08 10.50
RTPR    2.18  86 eP    08 00.00   0.1
                S      08 28.00
MRA     3.42 125 ePc   08 16.20  -0.1
     S.D. = 0.2  on   6 of   6 obs.
-----------------------------------------
%  OCT  21, 1993  03h 03m 18.51± 1.10s
   45.912 N ±21.4km    4.820 E ±13.8km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                             (538)
      ML 2.3 (LDG).

SMF     1.00 318 Pg    03 37.40  -0.1
                Sg     03 51.20
LBF     1.22 332 Pg    03 41.30   0.1
                Sg     03 58.20
AVF     1.34 311 Pg    03 43.20   0.0
                Sg     04 01.50
LPL     1.40 106 Pn    03 43.60  -0.6
                Pg     03 45.10
                Sg     04 02.60
LPG     1.42 106 Pg    03 45.20   0.6
                Sg     04 03.80
BGF     1.51 296 Pn    03 45.70   0.0
                Pg     03 46.80
                Sg     04 06.70
     S.D. = 0.5  on   6 of   6 obs.
-----------------------------------------
   OCT  21, 1993  03h 58m 12.06± 1.05s
   13.439 N ± 6.0km  146.040 E ± 8.7km
   DEPTH =  54.6 ±  7.3 km
   4.9mb ( 16 obs.)  4.1Msz (  5 obs.)
 SOUTH OF MARIANA ISLANDS           (210)

GUA     1.10 275 ePc   58 30.80  -0.7
PJG     1.15 278 eP    58 31.50  -0.6
NMCC    1.73 350 P     58 40.80   0.6
SAPN    1.78 351 P     58 41.20   0.3
                S      59 06.30
ANAT    2.92 353 P     58 58.50   1.4
JAY    16.71 199 ePc   02 03.70  -0.4
DAV    21.09 255 ePd   02 51.50  -2.7X
KAGJ   22.50 324 eP    03 09.90   1.7
WKYJ   22.76 337 P     03 11.20   0.5
TLE    23.09 216 ePc   03 20.20   6.2X
IIDJ   23.14 343 eP    03 14.60   0.2
TKSJ   23.17 334 P     03 15.60   0.9
CHJJ   23.39 345 eP    03 15.90  -0.8
KUMJ   23.56 326 P     03 19.20   0.8
TSRJ   23.80 339 eP    03 19.50  -1.2
MAT    24.05 344 eP    03 21.00  -2.2
     Z  20s      0.71um          4.1Msz
                eS     07 34.00
MTMJ   24.20 344 eP    03 23.60  -1.2
YONJ   24.45 334 P     03 27.40   0.3
NIIJ   24.52 346 eP    03 25.50  -2.2
SHNJ   24.65 329 eP    03 30.10   1.1
BAG    24.77 280 eP    03 30.00  -0.5
SNY    34.37 330 eP    04 54.80  -1.0
CN2    35.04 334 eP    05 03.50   2.0
        1.0s     5.60nm          4.4mb
     Z  18s      0.30um          4.1Msz
     N  12s      0.24um
     E  12s      0.24um
                epP    05 08.00  15kmX
WR2    35.11 199 eP    04 59.70  -2.7X
BJI    37.27 321 eP    05 20.00  -0.4
     Z  20s      0.30um          4.1Msz
```

```
TIY    38.43 315 eP    05 30.20  -0.1
     N  18s     1.01um
ASPA   38.74 198 iPd   05 33.60   0.7
       0.9s     5.60nm          4.4mb
GYA    39.05 295 P     05 36.80   1.1
XAN    39.38 308 P     05 38.20  -0.1
       0.6s    64.00nm          5.6mb
     Z  20s     0.30um          4.1Msz
                sP     05 53.80
BTO    41.50 317 eP    05 57.10   1.4
CD2    42.55 301 iPc   06 04.60   0.3
LZH    44.00 308 eP    06 16.00  -0.2
       1.6s    16.00nm          4.5mb
     Z  18s     0.35um          4.3Msz
                sP     06 33.50
NST    44.43 279 eP    06 19.50  -0.1
CIT    46.44 333 eP    06 36.50   1.3
GTA    48.13 311 eP    06 49.30   0.5
       1.0s     5.00nm          4.5mb
YAK    49.90 350 eP    07 01.30  -0.6
       1.0s    40.00nm          5.4mb
BOD    50.43 339 eP    07 05.20  -0.7
ZAK    50.60 326 eP    07 07.20  -0.1
       0.8s     8.00nm          4.8mb
                e      07 22.70
LSA    53.08 297 P     07 27.40   0.5
       0.8s    13.00nm          5.0mb
UER    56.31 324 eP    07 50.00   0.5
PKI    58.00 294 P     08 01.20  -1.1
KKN    58.12 294 P     08 02.40  -0.5
       0.8s    17.00nm          5.2mb
DMN    58.27 294 P     08 03.80  -0.3
       0.6s    13.00nm          5.2mb
GKN    58.69 295 P     08 06.40  -0.5
       0.8s    31.00nm          5.5mb
ILT    59.04  15 iPc   08 07.00  -1.5
       1.6s    44.00nm          5.3mb
                i      08 53.20
NVS    63.54 325 eP    08 38.50  -0.4
       0.7s    10.00nm          5.0mb
                e      17 08.80
GBA    66.48 279 P     08 59.00   0.5
POO    69.19 285 eP    09 23.50   8.0X
INK    74.07  22 eP    09 43.50  -0.2
       1.0s     4.00nm          4.3mb
SVE    76.36 326 eP    09 53.70  -3.3X
                e      10 09.00
MAIO   79.43 305 eP    10 19.00   4.6X
RES    84.43  13 eP    10 38.50  -1.1
       0.7s     2.00nm          4.3mb
LRM    88.32  43 eP    11 00.20   0.7
KAF    91.32 336 iP    11 11.90  -1.0
       0.5s     4.20nm          5.1mb
KIC   144.94 302 PKP   17 45.90   0.1
       0.6s     8.00nm
TIC   145.01 303 PKP   17 46.16   0.3
       0.7s     4.00nm
LIC   145.26 302 PKP   17 47.36   1.1
       0.6s     4.00nm
LPAZ  146.87  99 PKP   17 51.00   1.4
LPB   146.90 100 PKP   17 54.50   5.1X
CCH   148.76 101 ePKP  17 57.00   4.7X
     S.D. = 1.0  on  52 of  60 obs.
-----------------------------------
?  OCT  21, 1993  04h 47m 20.51± 2.10s
   7.368 S ±19.2km  131.087 E ±36.7km
   DEPTH =  33.0km  (normal)
 TANIMBAR ISLANDS REG., INDONESIA(281)

TLE     2.38  44 iPd   47 58.10   0.0
                iS     48 23.90
KNA     8.63 195 iPc   49 26.30   0.1
       0.3s    32.00nm          5.9mb X
                iS     51 03.70
WR2    12.90 166 iPd   50 23.30  -1.1
                eS     52 46.70
ASPA   16.43 171 iPd   51 11.70   1.4
                eS     54 10.40
WARB   19.18 192 eP    51 44.00  -0.4
     S.D. = 1.3  on   5 of   5 obs.
-----------------------------------
&  OCT  21, 1993  04h 58m 45.17s
   36.292 N          120.414 W
   DEPTH =   9.6km
 CENTRAL CALIFORNIA                ( 39)
      <GM-P>. MD 2.9 (GM). ML 2.8
      (PAS).

PKEM    0.34 133 (P)   58 51.08  -1.0
SAO     0.96 300 eP    59 02.99  -0.4
BCH     1.14 166 eP    59 05.65  -0.9
                eS     59 20.88
ARN     1.39 320 eP    59 09.40  -1.2
COE     1.40 314 eP    59 09.65  -1.1
ISA     1.69 111 eP    59 13.97  -1.1
MMPM    1.72  40 eP    59 15.46  -0.2
ABL     1.74 146 eP    59 13.59  -2.2
CMB     1.74   1 eP    59 14.74  -1.0
MEMM    1.81  40 eP    59 16.86   0.2
MTUM    1.82  54 eP    59 17.03   0.0
MRCM    2.06  47 eP    59 20.90   0.4
HMR     2.16 330 (P)   59 21.60  -0.2
BONR    2.37  45 eP    59 25.82   0.8
SSK     3.04 132 eP    59 32.27  -2.2
GSC     3.10 108 (P)   59 35.46   0.4
TNP     3.12  54 (P)   59 35.15  -0.3
ORV     3.37 346 (P)   59 39.41   0.5
TPNV    3.41  78 eP    59 39.30  -0.4
       19 obs. associated
-----------------------------------
?  OCT  21, 1993  05h 14m 41.67± 2.98s
   2.610 S ±32.2km  138.173 E ±18.9km
   DEPTH =  33.0km  (normal)
   5.0mb (  1 obs.)
 IRIAN JAYA, INDONESIA             (201)

JAY     2.53  88 iPc   15 20.70  -0.7
WWKK    5.53 101 eP    16 03.80  -0.2
PMG    11.20 127 eP    17 24.00   1.4
WR2    17.63 192 iPc   18 45.10  -1.5
                eS     21 51.50
CTA    19.08 156 iP    19 04.00  -0.3
ASPA   21.34 191 iPc   19 27.80  -0.5
       0.7s    43.60nm          5.0mb
     Z  18s     0.20um          3.6Msz
                eS     23 19.50
WARB   25.92 204 eP    20 14.50   1.7
LPB   147.83 127 ePKP  34 34.00  10.6X
LPAZ  147.93 127 PKP   34 28.60   4.8X
     S.D. = 1.4  on   7 of   9 obs.
-----------------------------------
?  OCT  21, 1993  05h 18m 30.42± 3.62s
   10.596 N ±18.6km   62.083 W ±24.9km
   DEPTH =  10.0km  (geophysicist)
 NEAR COAST OF VENEZUELA           ( 97)
      MD 3.3 (TRN).

TCE     0.34  73 iP    18 36.99  -0.5
                eS     18 47.92
TRN     0.67  86 eP    18 42.36  -1.4
                eS     18 56.54
TPP     0.68 114 ePc   18 43.56  -0.3
                eS     18 58.27
TBH     1.01  96 iPc   18 50.06   0.6
                eS     19 08.86
TPR     1.41  65 eP    18 57.15   1.0
                eS     19 19.92
BOT     1.46  67 eP    18 57.99   1.3
GRW     1.61  15 eP    18 58.32  -0.7
                eS     19 21.32
     S.D. = 1.2  on   7 of   7 obs.
-----------------------------------
*  OCT  21, 1993  05h 27m 23.33± 0.85s
   20.041 S ±10.0km  133.681 E ± 8.3km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN TERRITORY, AUSTRALIA     (591)

WR2     0.65  82 iPd   27 35.90  -0.4
ASPA    3.61 177 iPd   28 28.40   7.8X
       0.4s  1323.00nm
                eS     29 10.60
QIS     5.58  96 iPd   28 48.70   0.2
                eS     29 49.00
KNA     6.33 312 eP    28 59.00  -0.1
                eS     30 10.70
WARB    8.91 225 eP    29 20.00 -15.0X
                eS     31 20.00
CTA    11.82  92 eP    30 15.50   0.5
FORT   11.83 204 eP    30 19.00   3.9X
                eS     32 26.00
STK    13.76 151 iPd   30 40.20  -0.6
                iS     33 07.50
ADE    15.52 164 eP    31 04.30   0.4
     S.D. = 0.6  on   6 of   9 obs.
-----------------------------------
&  OCT  21, 1993  05h 54m 39.98s
   65.854 N          151.076 W
   DEPTH =  12.1km
 NORTHERN ALASKA                   (676)
      <AEIC>. ML 2.6 (AEIC).

MLY     0.84 170 P     54 55.90  -0.1
                S      55 08.40
IMA     1.09 283 eP    54 59.64  -0.7
IM3     1.10 278 P     55 00.30  -0.2
                S      55 17.00
MDM     1.49 126 P     55 05.00  -1.6
NEA     1.53 146 P     55 05.50  -1.7
FBA     1.68 123 eP    55 06.17  -3.0
GLM     1.77 118 P     55 10.80   0.2
BWN     1.82 157 P     55 14.10   2.8
CCB     1.83 130 P     55 13.10   1.6
WRH     1.88 136 P     55 13.10   1.0
IL1     2.07 120 P     55 15.80   0.9
ILB     2.07 120 P     55 16.00   1.1
HDA     2.27 128 P     55 20.20   2.4
FYU     2.48  71 P     55 22.00   1.3
       14 obs. associated
-----------------------------------
   OCT  21, 1993  06h 02m 35.19± 1.08s
   39.568 N ± 9.6km   20.435 E ± 7.2km
   DEPTH =  10.0km  (geophysicist)
 GREECE-ALBANIA BORDER REGION      (392)
      MD 3.3 (ATH).

SRN     0.46 313 ePg   02 44.40  -0.1
                iSg    02 55.00
KEK     0.51 287 ePb   02 44.50  -1.1
LSK     0.60  12 iPgd  02 46.50  -0.8
TPE     0.80 336 iPgd  02 50.60  -0.1
VLO     1.15 322 ePn   02 59.00   2.3
KZN     1.26  54 ePb   02 58.20  -0.5
OHR     1.57  10 iPn   03 04.80   1.7
                i      03 09.70
                i      03 29.30
                i      03 32.50
TIR     1.83 346 ePn   03 05.20  -1.7
VAY     2.39  42 ePn   03 15.00   0.0
SKO     2.52  17 ePn   03 10.40  -6.4X
                i      06 17.00
VLI     3.46 144 ePn   03 30.50   0.3
     S.D. = 1.4  on  10 of  11 obs.
-----------------------------------
%  OCT  21, 1993  06h 05m 03.20± 1.25s
   60.437 N ± 6.8km    5.161 E ±15.7km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN NORWAY                   (535)
      MD 1.3 (BER).

ASK     0.05  20 ePc   05 03.43  -1.9
                eS     05 04.69
BER     0.10 122 eP    05 04.79  -1.1
EGD     0.17 169 eP    05 05.82  -1.2
                eS     05 08.78
FOO     1.17 357 eP    05 23.97  -1.0
                eS     05 39.95
NRA0    3.16  82 ePn   05 52.84  -1.1
                ePg    05 59.31
                eLg    06 40.81
     S.D. = 0.5  on   5 of   5 obs.
-----------------------------------
?  OCT  21, 1993  06h 20m 18.40± 1.01s
   50.237 N ±14.6km   18.991 E ± 7.0km
   DEPTH =  10.0km  (geophysicist)
 POLAND                            (548)
      ML 2.7 (WAR).

OJC     0.52  92 iPgc  20 28.80  -0.1
                iSg    20 37.10
SPC     1.33 142 iPn   20 43.20   0.2
                e(Sn)  21 03.10
VRAC    1.81 240 ePn   20 49.60  -0.2
       0.4s    35.70nm
                iSg    21 13.00
KSP     1.83 290 iPg   20 50.20   0.1
                eSn    21 12.60
                iSg    21 14.40
ZST     2.39 212 eP    21 36.30  38.1X
PRU     2.87 267 ePg   21 10.50   5.4X
                Sg     21 45.00
KHC     3.69 255 ePg   21 47.50  30.8X
                eSg    22 07.50
```

21d 06h

```
     S.D. = 0.3  on   4 of   7 obs.
-------------------------------------
&  OCT  21, 1993  07h 20m 58.13s
   36.293 N           89.485 W
   DEPTH =  15.4km
 NEW MADRID, MISSOURI  REGION     (486)
      <TEIC>. MD 2.4 (TEIC).

LST      0.30 319 iPd    21 04.56  -0.2
ELC      1.01  12 eP     21 16.88   0.1
                  eS     21 30.07
SFTN     1.03 205 iPc    21 17.16   0.1
LRDO     1.03 252 iPd    21 17.26   0.1
EBZ      1.15 175 eP     21 19.22   0.0
PWLA     1.75 138 eP     21 28.55   0.5
                  eS     21 50.91
OXF      1.78 178 eP     21 28.68   0.2
                  eS     21 51.19
FVM      1.85 336 eP     21 27.83  -1.6
                  eS     21 53.22
         8 obs. associated
-------------------------------------
*  OCT  21, 1993  07h 36m 55.81± 0.31s
   56.497 S ±11.4km  138.909 W ± 7.9km
   DEPTH =  10.0km  (geophysicist)
   5.4mb (  8 obs.)  5.4Msz (  2 obs.)
 PACIFIC-ANTARCTIC RIDGE          (691)
      Mw 5.6 (HRV).
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 49S, 89C
      Centroid Location:
      Origin Time        07:37: 0.5 0.2
      Lat 56.58S 0.03 Lon 138.87W 0.04
      Dep  15.0 FIX Half-duration  1.6
      Moment Tensor;    Scale 10**17 Nm
        Mrr=-0.40 0.05  Mtt= 2.60 0.06
        Mff=-2.20 0.05  Mrt= 0.12 0.16
        Mrf=-0.12 0.16  Mtf= 1.82 0.06
       Principal Axes:
        T  Val=  3.21  Plg= 1  Azm=341
        N       -0.39      86       90
        P       -2.82       4      251
      Best Double Couple:Mo=3.0*10**17
       NP1:Strike= 26 Dip=87 Slip=-178
       NP2:        296     88       -3

SBA     28.15 201 iPd    42 53.20   3.7X
SPA     33.68 180 iPc    43 37.40  -1.3
        0.7s    89.84nm          5.8mb
     Z  25s    29.33um          5.9MszX
                  i     49 08.60
CSY     46.98 211 iPd    45 36.80   8.8X
        0.9s    13.70nm          5.0mb
SNA     49.73 162 iPc    45 49.60   0.2
        1.1s   146.00nm          5.9mb
NVL     51.33 168 iPc    46 02.00   0.4
        1.6s    63.00nm          5.3mb
     Z  17s     4.00um          5.5MszX
     N  17s     4.00um
     E  17s     1.00um
                  e     46 31.00
                  e     46 48.00
                  e     47 18.00
                  ePP   48 00.00
                  e     48 58.00
                  e     51 10.00
                  eS    53 24.00
                  ePS   53 32.00
                  eScS  55 45.00
                  eSS   56 51.00
                  eSSS  58 20.00
DZM     52.52 288 iPc    46 15.50   4.3X
RTCB    53.58  93 iPc    46 19.00   0.0
CFA     53.80  94 e(P)   46 20.00  -0.6
RTLL    53.88  93 iPc    46 21.00  -0.2
MRA     54.59  97 e(P)   46 25.40  -0.9
MAW     55.16 190 P      46 31.30   1.3
        0.9s    26.32nm          5.3mb
STK     58.44 259 iPd    46 57.90   4.1X
ARE     63.98  80 eP     47 32.00   0.2
NNA     64.79  73 eP     47 36.30  -0.5
        1.1s    18.99nm          5.2mb
CTA     65.14 271 iPc    47 38.00  -0.9
                  i     47 44.00
                  eS    56 25.00
LPB     65.78  83 P      47 44.20   0.6
     Z  20s     4.96um          5.7Msz
                  S     56 38.00
                  LR    08 25.00
LPAZ    65.97  83 P      47 44.40  -0.6
CCH     66.18  86 P      47 46.00   0.0
ASPA    69.08 259 iPd    48 00.50  -3.3X
        1.7s     9.20nm          4.7mb
RSTA    69.74 104 eP     48 08.10   0.3
PPD     70.61 101 eP     48 12.60  -0.6
WR2     71.82 261 iPc    48 18.30  -2.2
WRA     71.84 261 P      48 18.90  -1.7X
        0.8s     1.90nm          4.2mb X
VAO     72.18 105 eP     48 21.90  -0.8
VAO2    72.23 105 eP     48 24.10   1.1
BAO     77.62 100 eP     48 53.80  -0.1
SUR     89.81 163 iPd    50 04.50   8.6X
        1.0s    80.00nm          5.9mb
IMA    122.75 353 e(PKP)55 51.90   0.0
INK    124.56   2 ePKP  55 55.00  -0.2
CN2    127.84 294 ePKP  56 09.00   6.7X
     Z  20s     0.31um          5.0Msz
XAN    129.60 274 ePKP  56 11.00   5.0X
     Z  24s     0.33um          4.9MszX
TIY    130.36 280 ePKP  56 08.50   1.1
LZH    133.92 271 ePKP  56 08.50  -5.8X
        2.0s    27.00nm
POO    134.86 226 ePKP  56 24.50   8.1X
ELUQ   144.57 103 ePKP  56 32.40  -1.1
ECOG   144.74 104 ePKP  56 32.45  -1.4
ENIJ   145.24 106 ePKP  56 34.33  -0.2
EBAN   145.27 103 iPKPd 56 34.49  -0.1
EPLA   145.37  98 iPKPd 56 35.43   0.7
EHUE   145.66 104 ePKP  56 35.56   0.2
EVIA   146.30 103 ePKP  56 37.68   1.3
GUD    146.83  99 ePKP  56 40.04   2.8X
QUE    148.04 226 ePKP  56 43.80   4.2X
WMQ    148.21 267 ePKP  56 41.60   2.3
     Z  26s     1.19um          5.6MszX
                  PP    00 11.00
EGRA   149.99 101 ePKP  56 48.61   6.7X
EPF    150.91 100 ePKP  56 49.60   6.2X
        1.5s    32.40nm
KSH    151.51 248 ePKP  56 51.00   6.5X
     Z  24s     1.08um          5.6MszX
     N  18s     1.15um
     E  18s     1.63um
MFF    152.90  94 ePKP  56 51.80   5.7X
CAF    153.09  99 ePKP  56 46.60   0.1
        1.7s    38.25nm
MAIO   156.29 219 ePKP  56 51.00  -0.2
OHR    159.73 131 iPKP  56 55.00   0.0
WTTA   159.75 105 e(PKP)56 55.20   0.2
KBA    160.54 107 i(PKP)56 56.20   0.4
VAY    160.64 134 ePKP  56 56.00   0.2
SKO    160.72 131 iPKP  56 55.00  -0.9
                  i     57 37.50
GRF    160.92  98 ePKP  56 57.80   1.9
     Z  21s     0.60um
GEC2   161.80 103 PKP   56 56.90   0.0
        0.9s     2.05nm
                  PcP   57 05.10
KHC    161.90 102 ePKP  56 51.00  -5.9X
        1.2s     5.00nm
     Z  18s     0.80um
     N  18s     0.60um
     E  18s     0.10um
                  e     57 11.50
                  e     58 40.00
CLL    162.73  96 e(PKP)57 03.00   5.4X
BRG    163.03  98 ePKP  56 58.10   0.2
        1.4s    14.00nm
     Z  17s     1.00um
     N  17s     0.99um
     E  17s     0.29um
                  e     57 54.20
MLR    165.47 133 ePKP  56 53.00  -7.5X
                  e     58 00.00
     S.D. = 0.9  on  41 of  61 obs.
-------------------------------------
%  OCT  21, 1993  09h 03m 47.60± 1.18s
   37.280 N ±13.4km   28.566 E ± 8.5km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 3.2 (ISK).

CIN      0.50 310 iPgd   03 58.00   0.3
                  iSg    04 08.00
ELL      1.20 116 iPn    04 10.00   0.0
                  eSg    04 28.70
KHL      1.29  36 ePn    04 11.50   0.0
IZM      1.52 318 ePn    04 14.50  -0.4
BCK      1.62  83 ePn    04 16.50   0.1
     S.D. = 0.4  on   5 of   5 obs.
-------------------------------------
%  OCT  21, 1993  09h 06m 06.45± 2.34s
   39.247 N ±20.4km   27.853 E ± 8.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 2.7 (ISK).

DST      0.70  59 ePg    06 20.90   0.6
                  eSg    06 30.40
EDC      1.10   0 ePg    06 27.00  -0.1
BNT      1.11   3 ePg    06 27.40   0.1
                  eSg    06 39.40
EZN      1.32 297 ePn    06 30.80   0.1
IZI      1.66  48 ePn    06 35.00  -0.7
     S.D. = 0.7  on   5 of   5 obs.
-------------------------------------
   OCT  21, 1993  09h 17m 30.94± 0.31s
   10.636 N ± 6.1km   86.997 W ± 5.3km
   DEPTH =  28.3km  (  5 depth phases)
   4.8mb ( 27 obs.)
 OFF COAST OF COSTA RICA          ( 77)
      MD 4.6 (UPA).

YUP      4.48 323 eP     18 37.22  -1.7
BRU      4.74 112 eP     18 45.07   2.3
                  eS     19 39.00
IXG      4.88 317 eP     18 42.19  -2.3
                  eS     19 37.09
DVD      4.99 116 iPd    18 47.67   1.8
                  eS     19 44.26
GCG      5.23 319 eP     18 48.45  -1.0
                  eS     19 38.57
BVA      5.35 319 eP     18 50.33  -1.0
TPX      6.66 310 (P)    19 08.00  -1.5
UPA      7.54 102 iPd    19 21.94   0.2
                  eS     20 39.80
OXX     11.41 305 (P)    20 15.47   0.1
IISM    13.02 311 (P)    20 34.42  -2.3
ACX     13.94 298 (P)    20 51.16   2.2
PPM     14.02 308 (P)    20 51.47   1.0
IIA     14.09 308 (P)    20 51.76   0.9
III     14.31 304 (P)    20 55.84   1.8
UNM     14.60 308 (P)    21 00.00   2.2
CRX     15.03 307 (P)    21 06.00   2.5X
SDV     16.22  95 iPc    21 21.70   2.9X
MRX     16.39 305 (P)    21 22.48   1.8
TOV     16.95  91 ePc    21 31.00   3.1X
                  iPP    21 32.00
HBF     23.01  14 eP     22 36.47   1.9
                  e      22 44.63  29km
SGS     23.23  14 eP     22 39.66   2.9X
                  e      22 47.26  27km
PRM     23.72  10 eP     22 42.47   1.0
OXF     23.87 355 eP     22 41.56  -1.3
JSC     24.11  12 eP     22 45.74   0.5
PWLA    24.25 358 eP     22 46.38  -0.3
LTX     24.26 322 eP     22 47.81   0.9
LHS     24.40  12 ePd    22 48.70   0.6
MYNC    24.47   6 eP     22 49.17   0.4
        0.7s    13.06nm          4.6mb
NNA     24.64 156 eP     22 50.30  -0.3
        0.8s    14.93nm          4.6mb
CEH     26.15  15 eP     23 04.59   0.0
        0.9s    78.68nm          5.3mb
MEO     26.26 338 iPd    23 04.20  -1.5
FNO     26.28 340 iPc    23 04.20  -1.6
WMOK    26.29 338 eP     23 04.71  -1.3
        1.2s    79.60nm          5.2mb
TUL     26.40 344 iP     23 07.60   0.7
OCO     26.54 341 iPc    23 09.70   1.4
ELC     26.61 356 (P)    23 09.06   0.3
NAV     27.15  11 eP     23 13.23  -0.6
                  e      23 19.80  23km
ACO     28.18 339 iPc    23 15.90  -7.2X
CVL     28.29  14 eP     23 23.74  -0.3
CBN     28.78  16 eP     23 28.00  -0.4
ALQ     30.00 327 eP     23 40.27   0.5
        0.8s     6.89nm          4.5mb
                  i      23 51.38  41kmX
TUC     30.77 318 eP     23 38.38  -8.0X
        1.1s    13.91nm          4.7mb
```

```
                i     23 47.70  32km
LPAZ   32.62 145 P     24 02.70  -0.7
                i     26 47.60
LPB    32.84 145 P     24 05.50   0.5
BINY   32.89  15 eP    24 04.23  -0.5
       1.1s    52.95nm          5.4mb
PV08   33.90 329 eP    24 13.72  -0.3
GLA    33.94 315 eP    24 13.29  -0.7
PV10   33.95 328 eP    24 12.50  -1.8
PV09   34.09 328 eP    24 15.07  -0.5
CCH    34.64 143 P     24 20.50  -0.1
SRU    35.27 327 eP    24 25.33  -0.2
RSNY   35.46  15 eP    24 26.14  -0.8
       1.1s    25.57nm          5.1mb
MSU    35.74 325 eP    24 29.60  -0.1
EMUT   35.94 328 eP    24 31.50   0.2
ARUT   35.98 323 eP    24 32.91   1.3
PEC    36.02 315 eP    24 30.63  -1.2
       0.9s    12.11nm          4.8mb
GAC    36.31  14 eP    24 35.50   1.5
RSSD   36.47 339 (P)   24 35.71   0.0
       0.9s     5.86nm          4.5mb
GSC    36.56 317 iPd   24 37.63   1.2
TPNV   37.17 320 ePc   24 43.58   2.0
       0.9s    20.80nm          5.0mb
DUG    37.28 327 eP    24 42.76   0.4
       1.1s     7.05nm          4.4mb
HVU    38.39 328 eP    24 52.81   1.0
                e     25 01.59  30km
BCH    38.75 314 ePd   24 55.90   1.0
                e     25 08.54  47kmX
BONR   39.08 319 ePd   24 59.19   1.4
LMN    39.89  24 eP    25 04.00   0.0
ULM    40.17 351 eP    25 08.00   1.8
ARN    40.88 316 eP    25 12.19  -0.1
                e     25 25.67  51kmX
COE    40.92 316 eP    25 12.50  -0.1
LRM    41.25 333 eP    25 15.60   0.1
ORV    42.05 319 ePc   25 23.32   1.5
NTYM   42.18 317 eP    25 23.61   0.7
LBFM   43.30 321 eP    25 31.63  -0.7
JAQ    43.99  10 eP    25 30.00  -7.4X
KMPM   44.20 319 eP    25 40.61   1.2
FHC    44.32 319 eP    25 40.89   0.6
       1.1s    58.26nm          5.3mb
VGB    45.18 327 ePc   25 48.19   1.0
NEW    45.20 332 eP    25 46.00  -1.3
       0.8s     5.43nm          4.5mb
LON    46.52 327 eP    25 55.10  -2.7X
BDFB   46.60 123 eP    25 58.44  -0.4
       1.1s    33.90nm          5.2mb
BAO    46.62 123 eP    25 58.30  -0.7
                i     26 02.00  12kmX
                i     26 09.00
                e     26 18.20
GMW    47.54 328 ePc   26 05.08  -0.7
PPD    47.74 133 eP    26 06.20  -1.5
SOB1   49.92 112 (P)   26 23.00  -1.6
RSTA   51.01 134 (P)   26 31.00  -1.7
YKA    55.47 345 eP    27 03.40  -1.8
       0.9s     4.50nm          4.5mb
RES    64.18 358 eP    28 09.00   4.2X
       0.8s     2.00nm          4.3mb
INK    65.06 343 eP    28 10.50  -0.1
       1.0s     4.00nm          4.5mb
                pP    28 43.00 134kmX
TOA    66.50 334 eP    28 19.80  -0.3
PMS    67.70 332 eP    28 27.40  -0.2
       1.1s    79.00nm          5.7mb
FBA    68.26 336 eP    28 28.51  -2.5
       0.8s     5.04nm          4.7mb
IMA    70.96 337 eP    28 46.41  -1.4
       1.0s     3.77nm          4.4mb
TTA    71.09 333 eP    28 47.16  -1.3
       1.0s     9.04nm          4.8mb
LKO    79.92  82 P     29 38.54  -1.0
       0.9s    19.00nm          5.1mb
TIC    80.95  85 P     29 45.22   0.3
       1.0s    17.50nm          5.0mb
LIC    81.01  85 P     29 45.56   0.3
       0.9s    21.00nm          5.2mb
KIC    81.27  85 P     29 46.96   0.3
       0.9s    16.50nm          5.1mb
GEC2   89.02  40 P     30 25.40   0.6
       0.9s     1.01nm          4.1mb
CTA   127.98 253 iPKP  36 36.00  -0.8
WR2   139.14 252 iPKPc 36 57.10  -0.7
WRA   139.16 252 PKP   36 48.50  -9.4X
        0.7s     0.60nm
POO   145.40  33 ePKP  37 10.00   1.2
HYB   148.68  27 ePKP  37 17.50   3.3X
        1.0s    50.00nm
CHTO  150.16 349 ePKP  37 21.50   5.2X
GBA   151.39  33 PKP   37 19.00   0.8
NST   152.93 345 ePKP  37 35.50  15.1X
     S.D. = 1.2  on  92 of 105 obs.
-----------------------------------
%  OCT  21, 1993  09h 53m 34.12± 0.88s
   39.171 N ± 7.2km   27.569 E ± 9.1km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.7 (ISK).

IZM      0.81 197 ePg   53 49.60  -0.2
                  eSg   54 01.60
DST      0.93  62 ePn   53 52.40   0.5
EZN      1.16 305 iPn   53 56.30   0.5
EDC      1.20  11 ePn   53 56.00  -0.4
BNT      1.21  13 ePn   53 56.40  -0.3
     S.D. = 0.6  on   5 of   5 obs.
-----------------------------------
%  OCT  21, 1993  09h 56m 08.04± 0.80s
   39.314 N ± 7.2km   27.727 E ± 7.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.8 (ISK).

DST      0.76  67 ePg   56 22.90   0.0
IZM      0.98 202 ePg   56 27.10   0.3
                  eSg   56 41.40
EDC      1.04   6 ePn   56 28.00   0.4
BNT      1.05   8 iPn   56 28.40   0.5
EZN      1.20 296 ePn   56 29.80  -0.5
IZI      1.69  52 ePn   56 37.00  -0.8
     S.D. = 0.7  on   6 of   6 obs.
-----------------------------------
?  OCT  21, 1993  10h 04m 04.60± 6.36s
   39.451 N ±44.9km   29.732 E ±31.4km
   DEPTH =   5.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.7 (ISK).

DST      0.87 281 ePg   04 21.00  -0.8
                  eSg   04 32.90
IZI      0.91 347 iPg   04 22.10  -0.4
                  iSg   04 33.10
EYL      1.16  16 ePn   04 26.80   0.0
BNT      1.66 304 ePn   04 34.40  -0.1
EDC      1.69 302 ePn   04 36.00   1.0
     S.D. = 1.0  on   5 of   5 obs.
-----------------------------------
%  OCT  21, 1993  10h 08m 12.91± 0.89s
   39.659 N ± 8.9km   29.476 E ± 8.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.6 (ISK).

DST      0.66 266 ePg   08 26.40   0.4
                  eSg   08 36.40
IZI      0.68 360 iPg   08 26.60   0.2
                  eSg   08 37.60
ALT      0.78 141 ePg   08 28.10   0.0
BNT      1.38 301 ePn   08 38.40   0.2
EDC      1.42 300 ePn   08 38.00  -0.7
     S.D. = 0.6  on   5 of   5 obs.
-----------------------------------
%  OCT  21, 1993  10h 23m 56.24± 0.88s
   39.107 N ± 7.2km   27.518 E ± 9.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.7 (ISK).

IZM      0.74 196 ePg   24 10.60  -0.1
                  eSg   24 22.60
DST      0.99  60 ePn   24 15.40   0.3
EZN      1.17 308 ePn   24 18.30   0.2
EDC      1.27  12 ePn   24 19.00  -0.7
BNT      1.29  14 ePn   24 20.40   0.3
     S.D. = 0.6  on   5 of   5 obs.
-----------------------------------
%  OCT  21, 1993  10h 25m 19.49± 1.03s
   37.374 N ± 9.0km    3.790 W ± 7.4km
   DEPTH =  38.8 ± 20.3 km
 SPAIN                           (377)
      mbLg 2.9 (MDD).

ECOG     0.20 118 iPc   25 26.81   0.0
                  e     25 31.60
ELUQ     0.42 296 eP    25 29.28   0.1
                  e     25 34.60
EGUA     0.57 162 iPd   25 30.94  -0.2
                  e     25 39.10
EBAN     0.79   0 iPd   25 34.15  -0.1
                  e     25 44.40
EHUE     1.05  65 eP    25 38.75   0.8
                  e     25 51.90
EHOR     1.24 292 eP    25 40.78   0.1
                  e     25 55.70
EVIA     1.62  38 eP    25 45.46  -0.7
                  e     26 04.20
     S.D. = 0.6  on   7 of   7 obs.
-----------------------------------
?  OCT  21, 1993  10h 51m 41.93± 0.93s
   39.671 N ± 8.0km   29.390 E ± 8.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.6 (ISK).

DST      0.59 264 ePg   51 54.00   0.1
                  eSg   52 04.00
IZI      0.67   5 ePg   51 55.00  -0.3
ALT      0.83 138 ePg   51 58.00  -0.1
EYL      1.07  33 ePn   52 02.40   0.3
     S.D. = 0.4  on   4 of   4 obs.
-----------------------------------
?  OCT  21, 1993  11h 00m 11.06± 4.17s
   39.705 N ±27.9km   29.455 E ±25.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.9 (ISK).

DST      0.65 261 ePg   00 24.00   0.0
                  eSg   00 33.90
HRT      1.13   8 ePn   00 32.50   0.3
BNT      1.35 299 ePn   00 36.40   0.6
EDC      1.38 298 ePn   00 36.00  -0.3
ISK      1.39 348 ePn   00 36.00  -0.5
     S.D. = 0.6  on   5 of   5 obs.
-----------------------------------
?  OCT  21, 1993  11h 28m 04.52± 0.93s
   45.929 N ± 9.4km   14.286 E ± 7.5km
   DEPTH =  10.0km  (geophysicist)
 NORTHWESTERN BALKAN REGION      (383)
      MD 1.8 (LJU).

LJU      0.21  56 e(Pg) 28 09.00   0.0
                  iSg   28 12.30
CEY      0.21 153 ePg   28 09.10  -0.1
                  eSg   28 12.70
VOY      0.29 291 ePgd  28 10.70   0.0
                  e(Sg) 28 16.50
                  e     28 20.80
VBY      0.80 122 e(Pg) 28 20.20   0.1
                  iSg   28 32.80
     S.D. = 0.2  on   4 of   4 obs.
-----------------------------------
%  OCT  21, 1993  11h 48m 38.33± 0.85s
   39.147 N ± 7.0km   27.591 E ± 8.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 2.7 (ISK).

IZM      0.79 199 ePg   48 53.80   0.1
                  eSg   49 06.60
DST      0.92  60 ePn   48 55.90  -0.1
EZN      1.19 305 ePn   49 00.40  -0.1
EDC      1.22  10 ePn   49 01.00   0.0
BNT      1.23  12 ePn   49 01.40   0.1
     S.D. = 0.2  on   5 of   5 obs.
-----------------------------------
   OCT  21, 1993  11h 52m 09.96± 0.48s
   40.378 N ± 5.5km   26.024 E ± 4.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      ML 3.5 (ISK), 3.4 (THE).

ALN      0.52   2 ePg   52 20.21  -0.2
                  eSg   52 27.24
EZN      0.60 157 iPg   52 21.40  -0.6
                  iSg   52 29.40
MFT      1.04  67 iPg   52 30.00   0.3
```

21d 11h

```
                 eSg   52 43.00
KDZ     1.35 340 iPd   52 35.00    0.2
EDC     1.41  91 iPn   52 36.00    0.4
BNT     1.45  90 ePn   52 36.20    0.0
OUR     1.56 269 ePb   52 38.76    1.0
                 eSb   52 59.76
RZN     1.64 323 iP    52 38.00   -1.1
DIM     1.71 348 iP    52 41.00    1.1
DMK     1.95  42 iPn   52 43.50    0.1
CTT     1.98  66 iPn   52 43.00   -0.9
SRS     1.99 293 ePb   52 46.24    2.2
                 eSb   53 11.56
PLD     1.99 330 iP    52 47.00    3.0X
SOH     2.08 283 ePn   52 48.60    3.2X
                 eSn   53 16.00
MMB     2.12 306 iP    52 44.00   -1.9
JMB     2.13  11 iP    52 48.00    2.0
DST     2.14 110 ePn   52 46.00   -0.3
IZM     2.20 154 ePn   52 47.60    0.5
THE     2.35 277 ePn   52 50.20    1.1
IZI     2.64  90 ePn   52 53.00   -0.4
KKB     2.67 305 iP    52 52.00   -1.8
VAY     2.78 291 eP    52 54.50   -0.9
PVL     2.88 350 eP    52 56.00   -0.7
VTS     3.06 317 eP    53 03.00    3.6X
SKO     3.81 296 iP    53 20.50   10.5X
OHR     4.04 282 eP    53 25.00   11.8X
CFR     5.05  17 iPc   53 36.00    8.5X
MLR     5.11 359 eP    53 31.00    2.5X
     S.D. = 1.2  on  21 of  28 obs.
-----------------------------------
%  OCT  21, 1993  12h 15m 45.76± 2.18s
   39.762 N ±19.7km   29.313 E ±16.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
     ML 2.5 (ISK).

DST     0.55 254 ePg   15 56.80   -0.2
                 eSg   16 05.30
IZI     0.59  12 iPg   15 57.00   -0.7
                 iSg   16 04.50
EYL     1.03  39 ePn   16 05.80    0.5
HRT     1.09  14 ePn   16 06.00   -0.3
CTT     1.54 334 ePn   16 14.00    0.7
     S.D. = 0.8  on   5 of   5 obs.
-----------------------------------
?  OCT  21, 1993  12h 16m 08.26± 7.61s
   41.353 N ±41.7km   24.262 E ±35.9km
   DEPTH =   5.0km  (geophysicist)
 GREECE-BULGARIA BORDER REGION   (363)
     ML 2.3 (THE).

SRS     0.56 245 ePg   16 19.14   -0.3
                 eSg   16 28.38
SOH     0.87 233 ePg   16 25.90    0.5
                 eSg   16 39.58
OUR     1.04 192 ePg   16 28.18   -0.1
KNT     1.05 260 ePg   16 28.42    0.0
                 eSg   16 45.18
     S.D. = 0.6  on   4 of   4 obs.
-----------------------------------
?  OCT  21, 1993  12h 22m 07.64± 0.93s
   39.653 N ± 7.9km   29.459 E ± 8.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
     ML 2.6 (ISK).

DST     0.64 266 ePg   22 20.50   -0.1
                 eSg   22 30.80
IZI     0.68   1 iPg   22 21.50    0.3
                 eSg   22 30.50
ALT     0.78 140 ePg   22 23.00    0.1
                 eSg   22 34.50
EYL     1.06  30 ePn   22 27.40   -0.2
     S.D. = 0.4  on   4 of   4 obs.
-----------------------------------
   OCT  21, 1993  12h 45m 51.79± 1.30s
   29.497 S ± 9.0km  176.493 W ±18.3km
   DEPTH =  33.0km  (normal)
   4.8mb (  5 obs.)  4.6Msz (  1 obs.)
 KERMADEC ISLANDS REGION         (177)

HBZ     9.17 207 eP    48 05.70    0.9
PUZ     9.60 206 eP    48 10.30   -0.5
                 S     50 03.00
URZ    10.23 210 eP    48 17.50   -1.8
                 S     50 18.30
MNG    12.89 208 eP    48 55.30    0.0
                 eS    51 17.30
THZ    14.95 212 eP    49 23.70    1.2
                 S     52 07.60
DZM    17.04 292 iPc   49 50.20    0.9
BWZ    18.50 212 eP    50 09.80    2.8X
CTA    34.97 277 eP    52 43.00   -0.1
STK    35.97 255 eP    52 56.10    4.7X
       2.5s     1.20nm          3.4mb X
ASPA   44.48 265 eP    54 01.80   -0.1
       0.7s     4.40nm          4.4mb
     Z 18s      0.60um          4.6Msz
WR2    45.36 270 iPc   54 08.20   -0.8
       0.3s     4.20nm          4.8mb
WRA    45.38 270 P     54 08.80   -0.4
       0.6s     1.10nm          3.9mb
CSY    56.55 208 iPd   55 42.20    9.2X
       0.6s    17.00nm          5.3mb
NVL    79.85 183 iPd   57 59.00    1.1
       1.0s    23.00nm          5.1mb
LRM    94.78  39 eP    59 16.60    5.3X
OBN   145.15 327 ePKP  05 23.70   -3.3X
       1.4s    54.00nm
                 e     05 27.00
                 e     05 30.00
NB2   148.04 353 PKP   05 31.00   -0.6
       1.3s    14.10nm
     S.D. = 1.0  on  12 of  17 obs.
-----------------------------------
*  OCT  21, 1993  13h 15m 15.20± 2.52s
   42.489 N ±23.1km   23.971 E ±10.8km
   DEPTH =  10.0km  (geophysicist)
 BULGARIA                          (359)
     ML 2.9 (THE).

SRS     1.40 192 ePb   15 39.94   -0.8
                 eSb   16 02.84
KNT     1.55 212 ePb   15 42.88    0.0
                 eSb   16 06.56
VAY     1.57 222 iPn   15 43.50    0.4
SOH     1.73 196 ePb   15 46.04    0.5
                 eSb   16 11.80
SKO     1.95 255 ePn   15 48.50   -0.2
ALN     2.22 135 ePn   15 52.72    0.1
                 eSn   16 21.88
     S.D. = 0.6  on   6 of   6 obs.
-----------------------------------
%  OCT  21, 1993  13h 30m 21.89± 2.65s
   36.818 N ±19.5km    3.659 W ±13.1km
   DEPTH =   5.0km  (geophysicist)
 STRAIT OF GIBRALTAR             (385)

EGUA    0.08  79 iPc   30 23.50   -0.3
                 e     30 26.00
ECOG    0.46   9 iP    30 31.00   -0.2
                 e     30 37.50
ELUQ    0.89 327 eP    30 39.30   -0.1
ENIJ    1.17  82 eP    30 44.50    0.2
EBAN    1.35 356 eP    30 47.50    0.3
                 e     31 05.30
     S.D. = 0.3  on   5 of   5 obs.
-----------------------------------
*  OCT  21, 1993  13h 35m 51.00± 1.69s
    6.521 S ± 9.7km  131.233 E ±17.7km
   DEPTH =  85.0 ± 21.7 km
   5.2mb (  1 obs.)
 TANIMBAR ISLANDS REG., INDONESIA(281)

TLE     1.74  60 iPc   36 20.20    0.1
                 iS    36 36.10
KNA     9.49 195 iPd   38 08.00    1.1
       0.2s    31.00nm          5.9mb X
                 iS    39 41.10
WR2    13.69 167 eP    38 58.80   -4.0X
                 eS    41 23.40
QIS    16.14 151 eP    39 32.00   -2.2
                 eS    42 18.00
ASPA   17.24 172 eP    39 47.30   -0.6
                 iS    42 47.60
CTA    19.86 134 eP    40 20.00    2.0
WARB   20.04 192 eP    40 24.00    4.2X
                 eS    43 56.00
STK    27.02 160 eP    41 50.50   23.4X
       0.9s     2.00nm
GUN    55.57 310 P     45 20.70    0.1
PKI    55.76 310 P     45 21.20   -0.7
KKN    55.96 310 P     45 23.30    0.0
DMN    56.01 310 P     45 23.80    0.1
GKN    56.56 310 P     45 27.60    0.1
       0.6s    14.00nm          5.2mb
LPB   150.16 140 ePKP  55 37.00    7.3X
LPAZ  150.32 140 ePKP  55 34.00    3.8X
                 e     56 06.00
     S.D. = 1.4  on  10 of  15 obs.
-----------------------------------
   OCT  21, 1993  13h 52m 17.75± 0.88s
   49.309 N ±10.8km    9.727 E ± 6.2km
   DEPTH =  10.0km  (geophysicist)
 GERMANY                           (543)
     ML 3.0 (LDG), 2.8 (STR), 2.7
     (VIE).

TOD     0.67 297 ePn   52 30.70   -0.4
LANF    1.30 256 Pg    52 40.21   -1.7
ABH     1.53 293 ePn   52 46.90    1.7
RUP     1.78 284 ePn   52 52.80    4.0X
WLS     1.81 241 Pg    52 48.27   -0.9
FEL     1.83 219 ePn   52 48.80   -0.8
CDF     1.85 242 Pn    52 48.10   -1.8
                 Pg    52 50.20
                 Sg    53 15.10
ECH     2.02 238 Pg    52 53.07    0.8
                 Sg    53 19.57
WET     2.07  93 iPnd  52 52.10   -0.9
MOTA    2.17 154 iPgd  52 53.60   -1.0
                 iSg   53 19.50
MOF     2.26 231 Pg    52 57.54    1.8
                 Sg    53 26.81
SQTA    2.31 154 iP    52 58.90    2.3X
                 i(S)  53 24.00
WATA    2.33 147 i(Pn) 52 48.90   -7.9X
                 iPg   52 56.50
                 iSg   53 24.40
BBS     2.37 220 Pg    52 59.10    1.9
                 Sg    53 29.84
WTTA    2.41 147 iPgc  52 57.90   -0.1X
                 iSg   53 26.50
BSF     2.45 234 Pg    53 01.00    2.6X
KHC     2.53  93 ePg   53 00.00    0.4
                 eSg   53 29.00
HAU     2.59 241 Pg    53 04.50    4.0X
                 Sg    53 37.80
OGA     2.59 160 iPgd  53 15.80   15.2X
SCE     2.63 149 iPnd  53 02.10    0.9
GEC2    2.65  99 Pn    52 56.40   -5.0X
                 Pg    53 03.30
                 Sg    53 34.80
VITF    2.71 248 Pg    53 04.84    2.7X
LOMF    2.75 226 Pg    53 06.66    3.8X
PRU     3.20  76 Pg    53 13.00    3.9X
                 Sg    53 54.00
     S.D. = 1.4  on  13 of  24 obs.
-----------------------------------
*  OCT  21, 1993  13h 53m 24.60± 0.79s
   11.729 N ±10.1km   92.453 E ± 8.6km
   DEPTH =  33.0km  (normal)
   4.5mb (  4 obs.)
 ANDAMAN ISLANDS, INDIA          (703)

KHT     6.70  62 iPc   55 04.80    1.4
BDT     8.38  48 eP    55 21.00   -5.8X
CHTO    9.42  41 eP    55 39.80   -1.4
GBA    14.77 279 P     56 53.00    0.0
                 S     59 34.00
PKI    17.09 338 P     57 21.80   -1.2
DMN    17.24 337 P     57 24.40   -0.4
GUN    17.24 340 P     57 26.40    1.5
KKN    17.34 338 P     57 26.20    0.2
GKN    17.77 337 P     57 31.00   -0.3
       0.6s    26.00nm          4.5mb
WR2    51.89 127 iPc   02 32.20   -0.3
       0.5s    18.20nm          5.3mb
ASPA   53.67 131 eP    02 45.30   -0.3
       0.9s     4.50nm          4.5mb
GEC2   73.87 318 PKP   04 58.80    0.6
       0.7s     0.90nm          3.9mb
                 e     05 01.90
                 e     05 05.30
                 e     05 10.40
     S.D. = 1.0  on  11 of  12 obs.
-----------------------------------
?  OCT  21, 1993  14h 13m 56.29± 5.99s
   58.121 N ±47.3km    6.313 E ±17.5km
   DEPTH =   5.0km  (geophysicist)
```

SOUTHERN NORWAY (535)
MD 2.4 (BER).

KMY	1.23	333	eP	14 19.70	0.1
			eS	14 33.38	
BLS5	1.31	3	eP	14 20.64	-0.3
			eSg	14 36.33	
ODD1	1.80	5	eP	14 29.20	0.9
			eS	14 50.32	
EGD	2.23	346	eP	14 34.09	-0.3
			eS	15 00.10	
ASK	2.44	347	eP	14 37.13	-0.2
			eS	15 07.34	
NRA0	3.74	43	ePn	14 55.78	-0.2
			ePg	15 04.75	
			eLg	15 37.83	

S.D. = 0.6 on 6 of 6 obs.

% OCT 21, 1993 14h 24m 23.25± 0.88s
39.132 N ± 7.2km 27.583 E ± 9.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

IZM	0.78	199	ePg	24 38.20	-0.2
			eSg	24 49.60	
DST	0.94	59	ePn	24 41.60	0.4
EZN	1.19	306	iPn	24 45.90	0.4
EDC	1.23	10	ePn	24 46.00	-0.1
BNT	1.25	12	ePn	24 46.00	-0.5

S.D. = 0.6 on 5 of 5 obs.

& OCT 21, 1993 14h 37m 11.55s
36.156 N 118.033 W
DEPTH = 0.0km
CENTRAL CALIFORNIA (39)
<PAS-P>. ML 3.8 (PAS), 4.0 (GS), 4.1 (BRK). MD 3.9 (GM).

ISA	0.61	216	ePc	37 23.23	-0.5
WJPM	0.83	206	P	37 27.35	-0.7
WOFM	0.83	222	P	37 27.35	-0.8
BMTC	1.12	204	P	37 32.38	-1.1
MTUM	1.27	341	ePc	37 34.71	-1.4
			eS	37 51.24	
PLEC	1.45	216	P	37 39.66	[illegible]
FTC	1.46	209	P	37 38.93	[illegible]
CASR	1.48	344	P	37 38.84	[illegible]
ORC	1.56	341	P	37 40.11	[illegible]
MRCM	1.56	346	eP	37 40.04	[illegible]
			eS	38 00.07	
BCKR	1.56	350	P	37 40.31	[illegible]
FRI	1.59	302	iP	37 39.73	[illegible]
ABL	1.62	217	ePc	37 41.20	[illegible]
TMB	1.62	229	P	37 41.81	[illegible]
TPNV	1.64	61	ePc	37 40.79	[illegible]
CRGC	1.65	237	P	37 42.18	[illegible]
MCSM	1.65	335	P	37 41.84	[illegible]
MMPM	1.66	331	ePc	37 41.60	[illegible]
			eS	38 01.06	
MEMM	1.67	335	ePc	37 42 [illegible]	[illegible]
			eS	38 02 59	
PKEM	1.68	267	ePc	37 42 [illegible]	[illegible]
YEG	1.72	246	P	37 43 [illegible]	[illegible]
PWMM	1.78	280	P	37 44 [illegible]	
BONR	1.81	353	ePd	37 43 [illegible]	[illegible]
PTRM	1.84	255	P	37 44 [illegible]	[illegible]
PAGM	1.85	257	P	37 44 [illegible]	
RYS	1.85	216	P	37 45 [illegible]	[illegible]
PARM	1.87	274	P	37 45 [illegible]	
CTM	1.88	264	P	37 45 [illegible]	
PDRM	1.90	276	P	37 45 [illegible]	
GHC	1.91	261	P	37 45 [illegible]	
PKM	1.92	230	P	37 46 [illegible]	
BCH	1.93	240	eP	37 45 [illegible]	
PCRM	1.95	269	P	37 46 [illegible]	
PMCM	1.95	258	P	37 46 [illegible]	
SSK	1.96	172	eP	37 46 [illegible]	
PSTM	2.02	264	P	37 46 [illegible]	
TNP	2.03	18	eP	37 46 [illegible]	[illegible]
WKR	2.04	261	P	37 47 [illegible]	
PSMM	2.08	268	P	37 48 [illegible]	[illegible]
PRCM	2.09	273	P	37 48 [illegible]	[illegible]
PMGM	2.15	251	P	37 48 [illegible]	
PTV	2.18	270	P	37 49 [illegible]	[illegible]
PADM	2.36	258	P	37 51 [illegible]	
PANM	2.36	262	P	37 52 [illegible]	[illegible]
PEC	2.37	162	eP	37 51.34	-1.1
CMB	2.66	316	ePc	37 56.47	0.0
			eS	38 32.25	
SAO	2.82	283	ePc	37 58.11	-0.6
PLM	2.96	161	eP	37 59.56	-1.3
ARN	3.05	294	eP	38 01.84	-0.2
COE	3.12	292	eP	38 02.90	-0.1
MHC	3.13	293	ePc	38 02.65	-0.6
HMR	3.61	305	(P)	38 09.80	-0.1
BKS	3.78	298	eP	38 11.51	-0.8
JEGM	3.80	292	eP	38 11.97	-0.7
ARUT	4.02	65	ePn	38 14.54	-1.4
			ePg	38 24.82	
NTYM	4.31	303	eP	38 18.95	-0.9
ORV	4.36	322	(P)	38 21.08	0.4
MSU	5.23	62	ePn	38 32.08	-1.1
			ePg	38 48.39	
WDC	5.66	323	(P)	38 37.27	-1.7
DUG	5.76	44	(Pn)	38 38.52	-2.0
			ePg	38 57.74	
LBFM	6.00	331	(P)	38 43.75	-0.2
SRU	6.65	61	(Pn)	38 51.82	-1.3
EMUT	6.77	55	(Pn)	38 52.79	-2.1
			(Pg)	39 18.40	
HVU	6.95	35	ePn	38 56.53	-0.8
PV10	7.51	70	ePn	39 04.09	-1.1
PV08	7.85	69	ePn	39 07.90	-2.3

66 obs. associated

& OCT 21, 1993 14h 45m 05.29s
36.162 N 118.032 W
DEPTH = 0.1km
CENTRAL CALIFORNIA (39)
<PAS-P>. ML 2.9 (PAS).

WORM	0.49	200	P	45 14.92	-0.3
ISA	0.61	216	ePc	45 17.08	-0.5
WJPM	0.83	206	P	45 21.15	-0.8
WOFM	0.83	222	P	45 19.84	-2.1
BHPR	1.19	342	P	45 27.50	-1.1
CLKR	1.56	336	P	45 34.38	-0.3
FRI	1.58	302	P	45 33.74	-0.9
TMB	1.63	229	P	45 35.74	0.3
ABL	1.63	217	eP	45 34.96	-0.6
MCSM	1.65	335	P	45 35.80	0.0
CRGC	1.65	237	P	45 36.06	0.2
MEMM	1.67	334	ePc	45 35.93	0.1
PTRM	1.84	255	P	45 38.47	0.0
CTM	1.88	264	P	45 39.97	0.9
PDRM	1.90	276	P	45 39.68	0.4
PKM	1.93	230	P	45 41.15	1.3
WKR	2.04	261	P	45 41.54	0.2
PRCM	2.10	273	P	45 42.24	0.1
HVC	2.26	276	P	45 44.54	0.0
SYP	2.28	225	P	45 47.65	2.8
BMSM	2.28	283	P	45 45.00	0.1
LPC	2.44	273	P	45 47.04	0.0
CMB	2.65	316	(P)	45 50.55	0.4
MNHM	2.98	313	P	45 57.50	2.8

24 obs. associated

---

* OCT 21, 1993 15h 08m 33.78± 0.90s
4.731 S ±12.3km 135.215 E ± 9.4km
DEPTH = 10.0km (geophysicist)
4 4mb (2 obs.)
IRIAN JAYA REGION, INDONESIA (196)

[illegible]	2.62	250	ePd	09 17.00	0.2
[illegible]	8.46	83	eP	10 39.30	0.0
[illegible]	12.65	210	eP	11 36.10	-0.5
[illegible]	15.15	183	eP	12 10.00	0.4
			i	12 18.40	
			eS	14 52.70	
[illegible]	18.67	146	iPc	12 58.00	3.9X
	1 0s		12.50nm	4.1mb	
			i	13 05.00	
			iS	16 36.00	
[illegible]	18.87	184	iPc	12 59.80	3.2X
	0 4s		20.50nm	4.7mb	
			eS	16 23.40	
[illegible]	22.86	200	eP	13 41.00	2.5X
[illegible]	42.71	304	eP	16 32.90	0.0
[illegible]	66.69	357	eP	19 16.60	-10.1X
[illegible]	148.73	133	ePKP	28 22.00	1.4X
[illegible]	148.86	133	PKP	28 25.60	4.5X

S.D. = 0.5 on 5 of 11 obs.

OCT 21, 1993 15h 30m 17.32± 0.32s
44.394 N ± 1.8km 6.901 E ± 3.1km
DEPTH = 13.5 ± 2.6 km
FRANCE (538)
ML 2.9 (GEN), 2.5 (LDG).

PZZ	0.18	52	Pc	30 21.94	0.1
			S	30 24.94	
STV	0.34	116	Pc	30 24.49	-0.1
			S	30 29.15	
ENR	0.41	114	Pc	30 25.59	-0.3
			S	30 31.21	
TOUF	0.46	147	Pg	30 26.57	-0.2
BHB	0.52	30	Pd	30 27.32	-0.4
			S	30 34.15	
MVIF	0.53	160	Pg	30 27.94	-0.1
			Sg	30 35.39	
RRL	0.53	351	Pd	30 27.54	-0.6
			S	30 35.10	
AUTN	0.55	136	Pg	30 28.37	-0.1
			Sg	30 36.50	
AURF	0.59	149	Pg	30 29.00	-0.1
			Sg	30 37.38	
SAOF	0.62	131	Pg	30 29.63	0.1
CALN	0.64	181	Pg	30 29.87	-0.1
SBF	0.66	144	Pg	30 30.20	0.1
			Sg	30 39.40	
ROB	0.70	98	Pc	30 31.06	0.1
			S	30 40.40	
RSP	0.80	18	Pd	30 32.51	-0.1
			S	30 42.88	
FRF	0.85	193	Pg	30 33.40	0.0
			Sg	30 44.70	
IMI	0.86	124	Pc	30 33.91	0.3
			S	30 45.12	
FIN	0.96	101	Pd	30 35.56	0.3
			S	30 47.66	
LRG	1.02	203	Pg	30 36.10	-0.1
			Sg	30 49.90	
LSD	1.08	10	P	30 37.58	0.1
			S	30 51.70	
LMR	1.10	195	Pg	30 38.20	0.6
			Sg	30 51.90	
LPG	1.11	355	Pg	30 38.20	0.2
			Sg	30 52.70	
LPL	1.13	354	Pg	30 38.70	0.4
			Sg	30 53.20	
PCP	1.19	82	Pc	30 39.33	0.2
			S	30 54.79	
PGF	2.40	140	Pn	30 56.20	-0.7
			Sn	31 24.40	

S.D. = 0.3 on 24 of 24 obs.

& OCT 21, 1993 16h 22m 30.82s
34.415 N 118.570 W
DEPTH = 4.0km
SOUTHERN CALIFORNIA (43)
<PAS-P>. ML 3.1 (PAS). Felt in the San Fernando Valley.

FTC	0.53	330	P	22 40.82	-0.5
RYS	0.68	290	P	22 44.00	-0.5
PLEC	0.69	324	P	22 44.11	-0.5
ABL	0.69	309	ePc	22 43.37	-1.3
ARVC	0.74	343	P	22 44.74	-0.9
SSK	0.75	105	eP	22 44.59	-1.3
MARC	0.86	313	P	22 46.75	-1.2
LPC	0.95	275	P	22 48.31	-1.2
WJPM	1.00	4	P	22 48.97	-1.4
TMB	1.04	310	P	22 49.99	-1.1
WOFM	1.12	354	P	22 51.40	-1.1
PKM	1.14	295	P	22 51.93	-0.8
SYP	1.17	276	P	22 51.90	-1.4
ISA	1.25	4	eP	22 53.25	-1.4
CRGC	1.26	311	P	22 53.77	-1.0
PEC	1.28	114	eP	22 53.40	-1.7
WORM	1.31	12	P	22 55.56	0.0
SCCM	1.42	292	P	22 56.20	-1.3
BCH	1.46	302	eP	22 56.69	-1.5
YEG	1.53	312	P	22 57.68	-1.4
GSC	1.70	58	eP	23 00.43	-1.1
PLM	1.77	126	eP	23 00.55	-2.1
PAPM	2.73	304	P	23 13.11	-3.3
MTUM	2.93	0	(Pn)	23 18.37	-0.9
TPNV	3.16	36	eP	23 21.03	-1.4
MMPM	3.21	353	(Pn)	23 22.77	-0.5
BPRM	3.26	309	P	23 20.79	-3.0

21d 16h

```
MEMM     3.26 355 (Pn)  23 23.56  -0.1
GLA      3.40 112 ePn   23 25.14  -0.7
BONR     3.54   3 ePn   23 26.67  -1.3
ARN      3.79 321 (P)   23 28.76  -2.6
TNP      3.82  16 (Pn)  23 31.02  -0.9
                  ePg   23 41.72
ARUT     5.35  50 (Pn)  23 52.88  -0.6
MSU      6.58  50 (P)   24 09.46  -1.5
       34 obs. associated
-----------------------------------
   OCT  21, 1993  16h 25m 20.93± 1.21s
   38.461 S ± 7.2km  175.821 E ± 6.5km
   DEPTH = 204.5 ± 12.7 km
 NORTH ISLAND, NEW ZEALAND        (159)

WLZ      0.62 343 Pc    25 49.30   0.0
                  S     26 07.30
MOZ      0.80 266 P     25 50.10  -0.1
                  S     26 09.50
URZ      1.03  79 P     25 50.60  -1.0
                  S     26 08.50
WAHZ     1.30 162 Pc    25 53.90   0.2
TTH      1.33 144 P     25 53.70  -0.2
BSZ      1.50 207 P     25 55.60   0.3
TEHZ     1.71 154 P     25 57.50   0.3
PUZ      1.96  79 P     25 59.60  -0.1
                  S     26 24.30
HBZ      2.14  67 P     26 02.20   0.7
MNG      2.17 187 P     26 02.10   0.2
                  S     26 28.60
PGZ      2.18 171 Pd    26 02.30   0.3
KIW      2.50 196 P     26 05.50   0.0
MTW      2.71 185 Pc    26 07.60  -0.2
CAW      2.71 192 P     26 07.80   0.0
DIW      2.76 211 P     26 08.90   0.5
MRW      2.90 197 P     26 09.90  -0.1
                  S     26 43.70
BLW      2.92 185 P     26 10.00  -0.2
WEL      2.94 196 P     26 10.30  -0.1
TCW      3.00 203 P     26 10.90  -0.2
QRZ      3.47 226 P     26 16.70  -0.2
LTZ      5.09 211 P     26 37.90   0.6
MQZ      5.76 204 P     26 45.00  -0.8
                  S     27 45.40
     S.D. = 0.4  on  22 of  22 obs.
-----------------------------------
?  OCT  21, 1993  16h 45m 02.08± 8.08s
   44.338 N ±21.0km    6.597 E ±51.1km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                           (538)
      ML 1.3 (GEN).

PZZ      0.40  65 P     45 10.14  -0.1
                  S     45 13.07
STV      0.53 100 P     45 13.13   0.3
                  S     45 17.74
ENR      0.60 100 P     45 14.07  -0.2
                  S     45 19.79
BHB      0.69  43 P     45 15.93   0.1
     S.D. = 0.4  on   4 of   4 obs.
-----------------------------------
?  OCT  21, 1993  16h 45m 58.67± 3.10s
   37.545 N ±22.1km   20.522 E ±17.3km
   DEPTH =  10.0km  (geophysicist)
   3.8mb (  1 obs.)
 IONIAN SEA                       (399)
      ML 3.5 (ATH).

VLS      0.63   5 ePg   46 11.20  -0.2
IGT      1.99 356 ePb   46 38.26   5.5X
                  eSb   47 03.74
AGG      2.05  43 ePb   46 34.50   0.9
                  eSb   46 58.50
KEK      2.24 346 ePg   46 43.00   6.7X
ATH      2.57  79 ePn   46 42.00   1.0
KZN      2.92  19 ePn   46 47.20   1.1
LIT      2.98  30 ePn   46 47.70   0.9
                  eSn   47 18.42
FNA      3.30  11 ePn   46 52.78   1.3
PAIG     3.43  45 ePn   46 52.42  -0.8
                  eSn   47 28.50
OHR      3.57   3 iPn   46 56.20   1.0
GRG      3.71  23 ePn   46 56.50  -0.7
OUR      3.88  43 ePn   46 57.86  -1.7
SOH      3.94  33 ePn   47 00.50   0.0
                  eSn   47 42.66
KNT      4.05  26 ePn   47 01.62  -0.4
                  eSn   47 45.60
VAY      4.09  22 ePn   47 02.40  -0.1
SRS      4.29  33 ePn   47 04.42  -1.0
                  eSn   47 48.90
SKO      4.48   9 ePn   47 17.70   9.6X
HFS     23.02 351 eP    51 03.50  -1.1
        0.4s     1.20nm          3.8mb
     S.D. = 1.0  on  15 of  18 obs.
-----------------------------------
%  OCT  21, 1993  17h 46m 22.38± 0.54s
   44.436 N ± 4.8km    7.259 E ± 5.4km
   DEPTH =   5.0km  (geophysicist)
 NORTHERN ITALY                   (545)
      ML 2.1 (GEN).

PZZ      0.13 302 P     46 25.37   0.2
                  S     46 27.13
STV      0.20 166 P     46 26.52   0.1
                  S     46 28.96
ENR      0.24 151 P     46 27.37   0.1
                  S     46 30.47
BHB      0.41   0 P     46 30.93   0.4
                  S     46 36.33
ROB      0.46 108 P     46 32.03   0.4
                  S     46 38.30
RRL      0.59 325 P     46 33.86  -0.4
IMI      0.69 139 P     46 35.97  -0.3
                  S     46 45.67
FIN      0.72 108 P     46 36.97   0.2
PCP      0.93  83 P     46 39.95  -0.6
     S.D. = 0.4  on   9 of   9 obs.
-----------------------------------
*  OCT  21, 1993  17h 52m 43.97± 1.57s
   13.991 N ±19.6km   93.039 W ± 8.2km
   DEPTH =  50.0km  (geophysicist)
   4.4mb (  1 obs.)
 OFF COAST OF CHIAPAS, MEXICO     ( 68)
      MD 4.6 (GCG).

TPX      1.18  40 iP    53 04.50   0.1
                  iS    53 21.00
BVA      2.42  74 ePd   53 22.89   0.7
                  eS    54 01.55
IXG      2.51  86 eP    53 23.35   0.0
                  eS    54 01.29
SCX      2.76   8 iP    53 26.50  -0.2
                  iS    53 59.00
OXX      4.70 311 iP    53 55.00   0.7
                  (S)   54 37.00
PPM      7.36 314 (P)   54 32.50   0.5
YKA     50.81 347 eP    01 40.00  -1.2
        0.7s     3.10nm          4.4mb
INK     60.16 344 eP    02 48.00  -0.6
     S.D. = 0.8  on   8 of   8 obs.
-----------------------------------
*  OCT  21, 1993  18h 07m 33.69± 0.53s
    0.006 N ± 8.9km  126.012 E ±13.3km
   DEPTH =  33.0km  (normal)
   4.8mb (  7 obs.)
 NORTHERN MOLUCCA SEA             (266)

MNI      1.85 321 eP    08 03.20  -0.4
                  eS    08 28.00
DAV      7.05 356 e(P)  09 22.00   4.8X
CTB      7.37 346 ePd   09 30.00   8.2X
LEM     19.57 249 iPd   12 02.00  -0.1
WR2     21.45 158 iPc   12 20.00  -1.5
        0.5s    41.10nm          5.1mb
                  i     12 23.50
GUMO    23.04  53 e(P)  12 31.60  -5.6X
ASPA    24.75 163 iPc   12 54.20   0.4
        0.9s    18.20nm          4.7mb
CHTO    32.49 307 eP    14 03.80   0.1
STK     34.97 157 iPc   14 25.00   0.0
        0.5s     5.50nm          4.7mb
ADE     36.76 162 e(P)  14 41.00   0.9
TIY     39.56 343 eP    15 02.80  -0.8
     Z  32s     1.14um          4.5MszX
BJI     40.84 348 eP    15 18.00   4.0X
        1.1s     7.00nm          4.3mb
SNY     41.69 357 eP    15 22.00   1.1
GTA     45.96 332 eP    15 57.00   1.4
        1.2s     6.00nm          4.4mb
     Z  24s     0.60um          4.5MszX
GUN     47.42 309 P     16 06.00  -1.6
        0.6s    14.00nm          5.1mb
PKI     47.62 309 P     16 08.60  -0.6
KKN     47.82 309 P     16 10.40  -0.3
DMN     47.88 308 P     16 11.60   0.5
GKN     48.43 309 P     16 15.20  -0.1
GBA     49.96 288 P     16 29.00   2.0
WMQ     55.39 327 eP    17 06.20  -1.0
YAK     61.91   2 eP    17 52.00  -0.1
        0.8s    33.00nm          5.5mb
     S.D. = 1.0  on  18 of  22 obs.
-----------------------------------
?  OCT  21, 1993  18h 58m 09.83±24.64s
   48.578 N ±44.2km    2.151 W ±164.km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                           (538)
      ML 2.1 (LDG).

GRR      0.88 102 Pg    58 26.60  -0.1
                  Sg    58 40.40
LPF      0.92 126 Pg    58 27.40   0.0
                  Sg    58 41.70
FLN      1.12  80 Pg    58 30.70  -0.1
                  Sg    58 46.20
LDF      1.35  89 Pg    58 34.90   0.3
                  Sg    58 54.30
     S.D. = 0.3  on   4 of   4 obs.
-----------------------------------
&  OCT  21, 1993  19h 13m 37.94s
   67.599 N          161.824 W
   DEPTH =  10.0km  (geophysicist)
   4.1mb (  2 obs.)
 NORTHERN ALASKA                  (676)
      <AEIC>. ML 4.1 (AEIC), 4.1
      (PMR).

ANM      3.37 207 eP    14 30.94  -0.7
IMA      3.57 112 ePc   14 33.71  -0.8
IM3      3.58 113 eP    14 34.23  -0.4
                  eS    15 17.85
BRW      4.13  23 eP    14 42.52   0.2
MLY      5.16 115 eP    14 56.50  -0.5
TTA      5.28 150 eP    14 57.70  -1.2
NEA      6.00 114 eP    15 07.83  -1.0
KTH      6.07 127 eP    15 08.95  -1.0
MDM      6.09 109 eP    15 09.47  -0.6
BWN      6.12 118 eP    15 10.26  -0.2
FBA      6.28 109 eP    15 11.63  -1.1
TRF      6.34 126 eP    15 12.83  -1.0
                  eS    16 25.71
GLM      6.38 107 eP    15 13.63  -0.6
WRH      6.41 113 eP    15 13.59  -1.1
CCB      6.41 111 eP    15 13.34  -1.3
FYU      6.56  91 eP    15 16.33  -0.4
MCK      6.58 120 eP    15 15.71  -1.4
BM3      6.61  84 eP    15 15.47  -2.0
                  eS    16 30.17
IL1      6.68 108 eP    15 17.09  -1.3
ILB      6.68 108 eP    15 17.13  -1.3
                  eS    16 31.57
HDA      6.85 111 eP    15 20.07  -0.8
HUR      6.89 127 eP    15 21.58   0.2
SVW      7.05 155 eP    15 22.17  -1.5
CUT      7.14 131 eP    15 22.83  -2.0
SKT      7.14 137 eP    15 24.17  -0.8
NCG      7.48 142 eP    15 29.12  -0.6
DJE      7.53 111 eP    15 26.98  -3.3
DHY      7.55 120 eP    15 30.31  -0.4
BGL      7.55 143 eP    15 30.18  -0.5
CGLM     7.60 142 eP    15 31.48   0.1
CRP      7.60 142 eP    15 30.83  -0.6
CKT      7.65 143 eP    15 30.26  -1.8
SPU      7.70 142 eP    15 32.95   0.2
BKG      7.75 143 eP    15 33.17  -0.3
SUA      7.78 137 eP    15 34.04   0.1
PWA      7.86 134 P     15 34.90   0.0
GHO      8.03 131 eP    15 36.94  -0.5
NCT      8.06 147 eP    15 36.78  -1.0
DFR      8.08 146 eP    15 37.24  -0.9
PMR      8.12 132 eP    15 37.86  -0.6
RDW      8.15 147 eP    15 39.40   0.1
SML      8.18 129 eP    15 36.32  -3.1
RS2      8.18 147 eP    15 39.03  -0.6
RED      8.22 147 eP    15 39.37  -0.7
PAX      8.26 116 eP    15 39.85  -0.8
PMS      8.28 135 eP    15 43.00   2.1
KNK      8.46 131 eP    15 42.89  -0.4
ILIM     8.49 148 eP    15 42.26  -1.6
PDB      8.53 153 eP    15 42.44  -1.9
SDG      8.54 119 eP    15 43.55  -0.9
```

```
TOA      8.63 122 P      15 45.70   0.0
SLKM     8.73 139 (P)    15 46.44  -0.7
CFI      8.84 130 eP     15 49.46   0.9
MPA      8.97 137 eP     15 47.19  -3.1
KLU      9.16 124 eP     15 53.52   0.4
BC3      9.50 109 eP     15 55.90  -1.9
INK     10.62  73 P      16 10.00  -2.9
         0.5s     2.60nm          4.9mb X
RES     21.51  42 eP     18 31.50   3.1
HFS     52.53   3 eP     22 50.60  -2.2
         0.4s     1.40nm          4.2mb
GEC2    63.83   3 P      24 11.90  -0.3
         0.9s     1.03nm          4.0mb
                  e      24 14.90
                  e      24 17.60
                  e      25 08.50
         60 obs. associated
-----------------------------------------
&  OCT  21, 1993  19h 14m 35.95s
   67.580 N          161.632 W
   DEPTH =  10.0km  (geophysicist)
   4.1mb (  1 obs.)
 NORTHERN ALASKA                    (676)
      <AEIC>. ML 4.2 (AEIC).

ANM      3.39 208 eP     15 28.40  -1.5
IMA      3.49 112 eP     15 31.14  -0.3
                  eS     16 12.86
IM3      3.51 114 eP     15 32.11   0.5
                  eS     16 13.97
BRW      4.12  22 eP     15 40.94   0.8
                  eS     16 28.92
MLY      5.08 115 eP     15 55.41   1.4
TTA      5.23 151 eP     15 55.36  -0.7
NEA      5.93 115 eP     16 04.69  -1.1
KTH      6.00 127 eP     16 06.65  -0.3
                  eS     17 14.00
MDM      6.01 110 eP     16 06.43  -0.6
FBA      6.20 109 eP     16 08.89  -0.8
TRF      6.27 126 eP     16 10.66  -0.2
GLM      6.30 108 eP     16 10.01  -1.2
WRH      6.33 113 eP     16 09.90  -1.7
CCB      6.34 111 eP     16 10.98  -0.6
BM3      6.53  84 eP     16 13.77  -0.7
IL1      6.60 108 eP     16 14.14  -1.2
ILB      6.60 108 eP     16 13.69  -1.6
SVW      7.00 155 eP     16 19.92  -1.0
SKT      7.08 138 eP     16 21.36  -0.7
NCG      7.42 142 eP     16 26.42  -0.5
DHY      7.47 120 eP     16 27.50  -0.2
BKG      7.69 144 eP     16 30.15  -0.5
ILIM     8.44 149 eP     16 40.61  -0.5
KLU      9.09 125 eP     16 50.59   0.5
HFS     52.54   3 eP     23 47.80  -3.1
         0.4s     1.00nm          4.1mb
         25 obs. associated
-----------------------------------------
%  OCT  21, 1993  19h 46m 29.40± 0.86s
   40.385 N ± 8.5km   29.792 E ± 8.8km
   DEPTH =  20.7 ± 11.5 km
 TURKEY                             (366)

IZI      0.25 259 iPg    46 35.40   0.0
                  eSg    46 38.40
EYL      0.33  57 ePg    46 37.20   0.4
HRT      0.45 348 ePg    46 37.50  -1.1
ISK      0.88 321 ePn    46 46.50   0.7
CTT      1.29 307 iPn    46 52.40   0.2
ALT      1.35 169 ePn    46 53.00  -0.2
     S.D. = 1.0  on   6 of   6 obs.
-----------------------------------------
?  OCT  21, 1993  19h 49m 19.12± 3.02s
   67.277 N ±28.5km  160.928 W ±13.8km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ALASKA                    (676)
      ML 2.7 (PMR).

IMA      3.13 109 eP     50 09.31  -0.2
ANM      3.28 216 eP     50 11.50   0.0
TTA      4.83 152 eP     50 33.90   0.2
FBA      5.85 108 eP     50 48.01   0.2
SVW      6.61 157 eP     50 58.50  -0.2
TOA      8.16 122 eP     51 22.30   1.9X
     S.D. = 0.3  on   5 of   6 obs.
-----------------------------------------
&  OCT  21, 1993  19h 50m 08.57s
   67.585 N          161.686 W
   DEPTH =  10.0km  (geophysicist)
   4.0mb (  3 obs.)
 NORTHERN ALASKA                    (676)
      <AEIC>. ML 4.0 (AEIC), 4.3
      (PMR).

ANM      3.38 208 (P)    50 59.61  -2.9
IMA      3.51 112 eP     51 03.42  -1.0
IM3      3.53 113 eP     51 04.56   0.0
                  eS     51 46.54
BRW      4.12  23 (P)    51 11.02  -1.8
MLY      5.10 115 eP     51 26.54  -0.3
TTA      5.24 150 eP     51 27.37  -1.6
NEA      5.95 115 eP     51 37.87  -0.8
KTH      6.02 127 eP     51 39.97   0.1
MDM      6.03 110 eP     51 39.58  -0.4
BWN      6.06 119 eP     51 40.78   0.4
FBA      6.22 109 eP     51 41.81  -0.8
TRF      6.29 126 eP     51 43.70  -0.1
GLM      6.33 108 eP     51 43.43  -0.7
WRH      6.36 113 eP     51 43.99  -0.5
CCB      6.36 111 eP     51 43.55  -1.0
FYU      6.51  91 eP     51 46.78   0.2
BM3      6.55  84 eP     51 46.26  -1.1
IL1      6.62 108 eP     51 47.08  -1.2
ILB      6.62 108 eP     51 46.84  -1.4
                  eS     53 02.17
RND      6.78 122 eP     51 49.99  -0.6
HDA      6.80 111 eP     51 49.65  -1.1
HUR      6.84 127 eP     51 52.39   1.1
SVW      7.01 155 eP     51 52.48  -1.3
SKT      7.10 138 eP     51 54.43  -0.5
DHY      7.49 120 eP     52 00.38  -0.2
BGL      7.50 143 eP     52 00.96   0.3
CP2      7.54 143 eP     52 01.71   0.4
CGLM     7.56 142 eP     52 01.69   0.3
CRP      7.56 143 eP     52 00.70  -0.8
CKL      7.58 143 eP     52 02.67   1.0
CKN      7.59 143 P      52 03.20   1.4
CKT      7.60 143 P      52 04.10   2.0
SPU      7.65 143 eP     52 03.40   0.6
BKG      7.70 144 eP     52 03.99   0.5
SUA      7.73 137 eP     52 04.62   0.7
GHO      7.98 131 eP     52 07.61   0.2
NCT      8.02 147 eP     52 07.11  -0.8
DFR      8.04 146 eP     52 07.38  -0.8
PMR      8.07 132 eP     52 08.29  -0.2
RDW      8.11 147 eP     52 09.40   0.1
SML      8.13 129 eP     52 09.11  -0.3
REF      8.13 147 eP     52 09.30  -0.2
RS2      8.14 147 P      52 09.80   0.1
RED      8.18 147 eP     52 10.00  -0.1
PMS      8.23 135 eP     52 13.90   3.1
KNK      8.41 131 eP     52 14.40   1.2
ILIM     8.45 149 eP     52 14.25   0.3
TOA      8.58 122 P      52 16.70   1.1
SLKM     8.69 139 (P)    52 16.17  -1.0
CFI      8.79 130 eP     52 16.94  -1.5
PWL      8.89 133 eP     52 20.05   0.1
KLU      9.11 125 eP     52 22.75  -0.3
BC3      9.45 109 eP     52 26.46  -1.2
INK     10.57  73 P      52 44.00   1.1
         0.5s     2.60nm          4.9mb X
YKA     20.08  82 eP     54 42.70  -1.7
         0.9s     3.60nm          3.7mb
RES     21.49  42 eP     55 02.00   3.2
HFS     52.54   3 eP     59 21.20  -2.3
         0.5s     1.60nm          4.2mb
GEC2    63.85   3 P      00 42.40  -0.5
         0.8s     1.02nm          4.1mb
                  e      00 45.20
                  e      00 50.70
                  e      00 54.90
GEC2    63.85   3 P      00 58.30  15.4
         0.8s     0.58nm
GUN     72.51 301 P      01 38.20   0.7
KKN     72.82 301 P      01 39.40   0.2
GKN     72.83 302 P      01 38.40  -0.8
PKI     72.98 301 P      01 40.20  -0.1
DMN     73.05 301 P      01 40.80   0.3
         64 obs. associated
-----------------------------------------
?  OCT  21, 1993  20h 08m 21.95± 2.51s
   66.971 N ±24.9km  160.382 W ±12.0km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ALASKA                    (676)
      ML 2.6 (PMR).

IMA      2.83 106 eP     09 08.02  -0.2
ANM      3.17 223 eP     09 12.84   0.0
TTA      4.46 153 eP     09 31.66   0.5
FBA      5.55 106 eP     09 46.70   0.1
SVW      6.24 158 eP     09 55.91  -0.4
TOA      7.82 122 eP     10 20.80   2.4X
     S.D. = 0.5  on   5 of   6 obs.
-----------------------------------------
?  OCT  21, 1993  20h 38m 34.17± 5.35s
   50.987 N ±34.3km   20.125 E ±37.5km
   DEPTH =  10.0km  (geophysicist)
 POLAND                             (548)
      ML 2.7 (WAR).

OJC      0.80 195 ePg    38 50.30   0.7
                  iSg    39 00.10
SPC      1.80 177 ePn    39 05.30  -0.4
                  i(Sn)  39 26.60
KSP      2.43 268 iPg    39 10.10  -4.4X
         0.6s    32.00nm
                  iSg    39 32.50
VRAC     2.82 235 ePn    39 09.80 -10.3X
                  eSg    39 32.70
PSZ      3.07 183 ePc    39 27.10   3.4X
SRO      3.39 201 eP     40 11.30  43.2X
ZST      3.42 216 eP     39 48.60  20.1X
                  e      40 08.40
PRU      3.70 257 Pg     39 34.80   2.2X
                  Sg     40 03.50
BRG      3.91 271 ePg    39 36.20   0.7
                  eSg    40 18.00
KHC      4.61 249 ePn    39 42.50  -3.0X
                  ePg    39 55.50
                  e      40 07.50
                  e      40 17.00
                  Sg     40 27.60
GEC2     4.67 245 Pg     39 45.50  -1.0
                  Sg     40 29.90
     S.D. = 1.4  on   4 of  11 obs.
-----------------------------------------
?  OCT  21, 1993  21h 38m 12.73± 2.55s
   66.999 N ±25.2km  160.389 W ±12.1km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ALASKA                    (676)
      ML 2.5 (PMR).

IMA      2.84 106 eP     38 59.38   0.3
ANM      3.19 222 eP     39 03.89   0.0
TTA      4.49 153 eP     39 22.70   0.3
FBA      5.56 106 eP     39 37.19  -0.3
SVW      6.27 158 eP     39 47.19  -0.3
TOA      7.84 122 eP     40 12.00   2.5X
     S.D. = 0.5  on   5 of   6 obs.
-----------------------------------------
*  OCT  21, 1993  21h 39m 53.16± 1.41s
   43.906 N ± 9.8km    6.713 E ±12.5km
   DEPTH =  10.0km  (geophysicist)
 NEAR SOUTH COAST OF FRANCE         (379)
      ML 1.5 (LDG).

FRF      0.35 188 Pg     40 00.60   0.2
                  Sg     40 03.20
SBF      0.52  94 Pg     40 02.50  -1.3
                  Sg     40 06.60
LMR      0.59 195 Pg     40 04.80  -0.3
                  Sg     40 10.60
PZZ      0.66  25 P      40 06.25  -0.2
                  S      40 06.98
IMI      0.85  89 P      40 11.10   1.5
     S.D. = 1.4  on   5 of   5 obs.
-----------------------------------------
   OCT  21, 1993  21h 52m 20.39± 0.15s
   30.154 N ± 2.8km   51.235 E ± 1.9km
   DEPTH =  14.8km  ( 13 depth phases)
   5.2mb (108 obs.)
 NORTHERN IRAN                      (348)
      Mw 5.0 (HRV). Felt in the
      Mamasani-Nurabad area.
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 13S, 22C
      Centroid Location:
      Origin Time        21:52:27.3 0.7
      Lat 30.36N 0.10 Lon  50.95E 0.19
      Dep  15.0 FIX Half-duration  1.0
      Moment Tensor;    Scale 10**16 Nm
        Mrr= 3.51 0.63  Mtt=-3.48 0.51
```

21d 21h

```
        Mff=-0.03 0.39  Mrt=-0.53 1.32
        Mrf=-0.40 0.98  Mtf= 0.49 0.61
       Principal Axes:
        T  Val=  3.60  Plg=81  Azm=127
        N       -0.02       7       277
        P       -3.58       4         7
      Best Double Couple:Mo=3.6*10**16
       NP1:Strike=105 Dip=41 Slip= 101
       NP2:        271     50        80

DHR     3.96 194 eP    53 25.60   3.8X
TEH     5.57   1 eP    53 46.50   1.6
MJMA    6.78 232 eP    54 01.85   0.1
RYD     6.79 218 iPd   54 02.90   0.9
QASM    7.91 241 eP    54 16.00  -1.7X
TAB     8.88 334 eP    54 32.00   0.8
UQSK    8.97 243 eP    54 31.33  -1.0
MAIO    9.24  46 iPc   54 37.00   0.9
        0.9s    11.51nm         5.2mb
                eS     56 32.00
ASH     9.76  35 eP    54 44.00   0.8
        1.0s   100.00nm         6.2mb
                eS     56 35.00
BAK    10.26 354 eP    54 40.00 -10.1X
     N  12s     4.30um
ERE    11.42 333 iP    55 06.00   0.0
KMSA   11.49 214 eP    55 05.33  -1.6
MASJ   13.41 281 P     55 34.00   1.3
JRDJ   13.45 276 P     55 32.00  -1.2
SALJ   13.46 282 P     55 35.30   2.0
WAJH   13.54 257 eP    55 36.67   2.4X
QUE    13.60  86 eP    55 36.70   1.4
                e      58 26.70
                e      59 51.20
GRO    13.90 343 iPd   55 42.00   3.1X
        2.0s   600.00nm         6.1mb
     E  14s     2.50um
ABHA   14.15 215 eP    55 44.67   2.1
PYA    15.30 337 iP    55 58.00   0.7
        1.0s   250.00nm         5.5mb
     Z  16s     1.00um         4.2MszX
     N  16s     1.50um
     E  16s     2.00um
                eS     58 52.00
FAM    15.31 293 eP    55 59.00   1.6
CSS    15.84 292 eP    56 05.00   0.7
SOC    16.24 329 eP    56 09.00  -0.4
        1.8s   130.00nm         4.8mb
     Z  13s     7.00um         4.1Msz
     N  12s     0.50um
     E  13s     1.00um
                eS     59 16.00
PPCY   16.61 291 eP    56 16.00   1.8
HLW    17.24 274 eP    56 24.00   1.9
KAS    18.03 313 eP    56 31.50  -0.4
ANN    18.35 327 eP    56 36.00   0.2
        1.4s    70.00nm         4.6mb
     Z  16s     0.50um         4.5MszX
     N  16s     0.90um
BCK    18.62 299 eP    56 40.00   0.7
ELL    18.95 296 iP    56 43.00  -0.4
ALT    19.49 303 eP    56 49.10  -0.8
KHL    19.68 300 eP    56 51.50  -0.5
SIM    20.00 322 eP    56 53.00  -2.1
                eS     00 39.00
EYL    20.04 307 eP    56 55.20  -0.5
IZI    20.42 306 iP    56 59.90   0.2
HRT    20.48 307 iP    56 59.40  -0.9
CIN    20.57 297 eP    57 00.00  -1.1
DST    20.76 303 eP    57 03.10   0.0
ISK    21.00 307 iP    57 05.40  -0.1
IZM    21.41 299 eP    57 11.00   1.3
BNT    21.53 305 eP    57 12.20   1.3
MFT    22.14 305 iP    57 18.40   1.3
KSH    22.28  59 P     57 19.50   0.9
        1.0s    90.00nm         5.2mb
     Z  16s     2.98um         4.8MszX
     N  10s     1.96um
     E  10s     1.90um
                S      01 23.50
                PcS    04 48.00
                ScS    08 28.00
EZN    22.51 302 iP    57 20.60  -0.1
FRU    22.57  50 eP    57 23.00   1.7
        1.9s   120.00nm         5.1mb
                e      57 46.00 110kmX
ALN    23.06 305 eP    57 27.21   1.2
CFR    23.53 316 eP    57 31.00   0.5
POO    23.58 114 eP    57 47.50  16.2X
AAE    24.04 212 P     57 40.00   3.9X
KIS    24.14 320 iP+   57 36.50   0.0
     Z  20s     0.20um         3.6Msz
                i      57 40.50  14km
                isP    58 07.00
                i      58 22.00
                iS     01 58.00
                iSS    03 04.50
OUR    24.38 302 eP    57 40.56   1.7
PAIG   24.49 301 eP    57 42.00   2.0
VRI    24.74 316 ePd   57 45.00   2.6X
SRS    24.89 304 eP    57 45.20   1.4
IAS    24.97 320 eP    57 45.00   0.5
SOH    24.98 303 eP    57 46.53   1.8
MLR    25.03 315 iPd   57 48.00   2.7X
THE    25.21 302 eP    57 48.32   1.5
AGG    25.30 298 eP    57 48.96   1.1
KNT    25.40 303 eP    57 49.78   1.1
LIT    25.42 301 eP    57 49.52   0.6
CMP    25.49 314 ePd   57 52.00   2.5X
VAY    25.69 304 iP    57 52.50   1.2
        1.0s    40.00nm         5.0mb
GRG    25.71 303 eP    57 52.76   1.2
FNA    26.41 302 eP    58 00.36   2.2
SKO    26.68 304 iPc   58 01.10   0.5
        1.1s    70.00nm         5.2mb
ARU    26.75   9 eP    58 02.00   1.0
                e      58 13.00  42kmX
                e      58 52.00
                ePPP   59 06.00
                eSS    03 46.00
LSK    26.85 300 eP    58 03.40   1.2
OHR    26.92 302 iPc   58 03.30   0.5
        1.1s   240.00nm         5.8mb
IGT    26.92 299 eP    58 02.24  -0.6
OBN    27.04 341 iPc   58 03.40  -0.3
        2.0s   400.00nm         5.7mb
     Z  20s     0.60um         4.2Msz
     N  18s     0.60um
     E  16s     0.60um
                e      58 25.00  97kmX
                e      58 51.00
                ePP    59 13.50
                ePPP   59 22.00
                e      00 27.00
                ePcP   00 57.00
                eS     02 56.00
                e      03 12.00
                eSS    04 24.00
SRN    27.24 299 eP    58 04.80  -0.8
TPE    27.32 300 eP    58 01.50  -4.9X
MOS    27.34 343 iPd   58 06.00  -0.4
        1.6s   160.00nm         5.5mb
                esS    04 12.00
SVE    27.45  11 iPd   58 08.00   0.6
        1.9s    60.00nm         5.0mb
     Z  15s     0.50um         4.2MszX
     N  15s     0.50um
     E  15s     0.50um
                e      58 54.90 239kmX
                eS     02 52.00
TIR    27.66 302 eP    58 10.50   1.0
VLO    27.74 300 eP    58 15.00   4.8X
BCI    27.77 305 eP    58 13.60   3.1X
BZS    27.81 312 eP    58 02.50  -8.3X
HYB    27.95 111 eP    58 11.50  -0.8
        1.2s    71.40nm         5.3mb
UZH    28.74 318 ePc   58 19.50   0.4
        1.4s    28.00nm         4.8mb
                i      58 29.50  36kmX
                e      59 31.00
GKN    29.21  86 P     58 23.80   0.0
GBA    29.26 119 Pd    58 24.20   0.1
        1.2s     4.00nm         4.1mb X
MNK    29.27 331 eP    58 25.00   1.2
DMN    29.71  86 P     58 28.40   0.0
KKN    29.82  86 P     58 29.20  -0.1
PSZ    29.84 315 ePc   58 28.80  -0.3
PKI    29.98  86 P     58 30.60  -0.3
UZD    30.14 312 eP    58 31.60  -0.1
SPC    30.19 318 iP    58 32.40   0.0
        0.7s    34.00nm         5.3mb
GUN    30.31  86 P     58 34.20   0.4
SRO    30.77 314 iP    58 37.50   0.3
OJC    30.93 319 eP    58 38.10  -0.6
        0.9s    69.00nm         5.5mb
                i      58 43.60  19km
                i      58 53.30
ZST    31.66 314 iPc   58 44.30  -0.8
                e      59 17.80 158kmX
SOP    31.82 313 eP    58 46.90   0.4
WMQ    31.89  55 P     58 47.50   0.2
     Z  22s     0.83um         4.4Msz
                PP     59 46.00
VBY    31.98 309 iPc   58 47.80  -0.1
                isP    59 03.50
VKA    32.18 314 iPc   58 49.00  -0.6
VRAC   32.41 316 eP    58 51.40  -0.1
        1.1s    62.70nm         5.5mb
PUL    32.81 341 ePd   58 54.00  -0.9
     Z  19s     0.40um         4.1Msz
                e      59 10.00  66kmX
                e      00 11.00
                e      00 16.00
                e      04 00.00
KSP    33.21 318 iPc   58 57.90  -0.7
        1.1s    33.00nm         5.2mb
KBA    33.69 311 iPc   59 02.80  -0.2
        1.3s    12.60nm         4.7mb
                i      01 30.00
PRU    33.90 316 P     59 03.40  -1.2
        1.1s    81.80nm         5.6mb
                i      59 09.90  22km
GEC2   34.01 314 P     59 04.80  -0.9
        0.7s     4.49nm         4.5mb
                e      59 07.70  10km
                e      59 11.10
                e      01 43.10
                e      01 44.80
                e      01 58.70
                e      05 31.40
BHG    34.18 312 iPc   59 06.60  -0.5
        0.8s    42.00nm         5.4mb
KHC    34.18 314 iPc   59 06.50  -0.6
        1.0s    32.00nm         5.2mb
                e      59 13.60  24km
                e      59 52.50
LSA    34.47  80 P     59 11.00   0.7
BRG    34.59 317 iPc   59 09.70  -0.8
        1.0s    30.00nm         5.2mb
                e      01 45.60
WET    34.62 314 iPc   59 09.90  -0.9
        1.0s    35.00nm         5.2mb
WTTA   34.87 311 iPc   59 12.40  -0.8
        0.9s    64.50nm         5.5mb
                i      59 17.40  17km
                i      01 45.80
                i      04 41.70
                i      04 47.40
SQTA   35.14 310 iPc   59 14.60  -0.8
        0.6s    45.70nm         5.5mb
                i      01 46.80
                i      04 45.20
                id     30 42.50
NUR    35.16 337 iP    59 13.90  -1.3
        0.8s    28.80nm         5.2mb
OGA    35.17 310 iPc   59 15.60  -0.2
MOTA   35.24 311 iPc   59 15.10  -1.2
        0.9s    64.90nm         5.5mb
                i      01 46.70
                i      04 46.30
CLL    35.30 318 iPc   59 15.90  -0.7
        1.1s    52.00nm         5.3mb
                i      59 19.40  12km
FUR    35.34 312 iPc   59 16.50  -0.5
        1.1s   143.00nm         5.8mb
OSS    35.72 309 eP    59 20.50   0.1
GRF    35.82 314 iPc   59 21.10   0.1
        0.9s    79.00nm         5.6mb
     Z  21s     0.10um         3.6Msz
                i(pP)d59 24.30  11km
PGF    35.84 302 eP    59 21.00  -0.4
KAF    35.86 340 iP    59 20.00  -1.2
        0.6s    12.50nm         5.0mb
MOX    35.89 316 ePc   59 21.20  -0.4
        1.4s    20.00nm         4.8mb
                e      59 30.90  33kmX
BSD    35.90 325 iPc   59 19.80  -1.8
                i      59 23.20  11km
VDL    36.13 309 ePd   59 24.10   0.2
TMA    36.46 308 ePc   59 29.60   2.9X
LLS    36.53 309 iPc   59 26.50  -0.8
```

```
SLE    37.05 311 ePc   59 30.60  -0.9
ZLA    37.06 310 iP+   59 30.90  -0.7
SBF    37.13 304 eP    59 32.00  -0.2
       1.0s    77.80nm          5.5mb
UPP    37.30 333 iP    59 28.70  -4.5X
                 i     59 32.30  12km
COP    37.42 324 iPd   59 35.00   0.7
       0.8s   113.43nm          5.7mb
DIX    37.46 308 iPc   59 34.60  -0.6
FRF    37.66 303 eP    59 36.20  -0.4
TNS    37.69 314 ePc   59 36.70  -0.1
EMS    37.79 307 iPc   59 38.00   0.2
LPG    37.82 307 iPc   59 37.60  -0.7
       0.7s    20.85nm          5.0mb
LPL    37.84 307 iPc   59 37.60  -0.7
       0.9s    42.40nm          5.2mb
CDF    37.99 311 eP    59 39.30  -0.1
       1.0s    13.40nm          4.7mb
UER    38.11  43 iPc   59 40.80   0.6
       1.3s   152.00nm          5.6mb
BSF    38.19 310 iPc   59 40.00  -1.1
       0.8s    19.50nm          4.9mb
HAU    38.52 310 iPc   59 42.50  -1.2
       1.0s    21.80nm          4.8mb
     Z 23s      0.10um          3.6MszX
BNS    38.67 315 iPc   59 45.30   0.4
WLF    38.99 313 iPc   59 46.99  -0.6
       1.0s    12.50nm          4.6mb
                 i     31 21.57
WTS    39.17 317 iPc   59 50.10   1.0
       0.8s   109.10nm          5.6mb
ENN    39.39 315 eP    59 35.50 -15.4X
       0.6s     4.20nm
                 e     59 51.50  64kmX
MUD    39.41 324 iPc   59 50.10  -0.9
       0.8s    69.00nm          5.4mb
SLL    39.41 331 eP    59 49.80  -1.2
       0.6s    62.50nm          5.4mb
WIT    39.49 318 eP    59 53.00   1.3
LBF    39.94 308 iPc   59 54.50  -1.1
       1.3s    19.85nm          4.6mb
SMF    39.98 308 iPc   59 55.10  -0.9
       0.9s    60.60nm          5.3mb
LOR    40.06 309 iPc   59 55.40  -1.1
       0.9s    17.85nm          4.8mb
     Z 21s      0.10um          3.6Msz
DOU    40.06 313 Pc    59 57.10   0.6
       0.7s    18.90nm          4.9mb
SDF    40.13 345 iP    59 57.00   0.1
SSF    40.27 308 iPc   59 57.50  -0.8
       1.0s    34.60nm          5.0mb
AVF    40.34 308 iPc   59 57.90  -0.9
       1.1s    30.05nm          4.9mb
SNF    40.35 314 P     00 01.80   3.0X
GTA    40.54  63 iPc   00 01.80   1.0
       1.2s    55.00nm          5.1mb
     Z 20s      0.86um          4.6Msz
     N 15s      0.35um
NB2    40.59 331 P     59 59.30  -1.4
       0.8s    24.20nm          5.0mb
KONO   40.60 329 eP    59 47.50 -13.3X
BGF    40.66 308 eP    00 00.70  -0.8
       0.9s    20.00nm          4.8mb
MAF    40.81 307 eP    00 02.50  -0.3
       1.1s    23.20nm          4.8mb
CAF    41.06 305 eP    00 04.50  -0.3
       1.3s    25.25nm          4.8mb
TCF    41.07 307 iPc   00 04.40  -0.5
       0.9s    13.75nm          4.7mb
GRBF   41.35 302 P     00 07.48   0.2
RJF    41.47 306 iPc   00 08.20   0.0
       0.9s    19.15nm          4.8mb
LESF   41.54 302 P     00 09.12   0.3
SALF   41.61 302 P     00 08.93  -0.5
LPO    41.67 305 eP    00 09.60  -0.2
LFF    42.00 305 iPc   00 12.50   0.0
       0.8s    22.05nm          4.9mb
ENSF   42.23 302 P     00 15.27   0.7
MFF    42.72 307 eP    00 17.60  -0.7
       1.0s    31.60nm          5.0mb
EGRA   42.72 301 iPc   00 15.50  -2.9X
LDF    42.87 310 iPc   00 18.50  -1.1
       0.8s    17.60nm          4.8mb
FLN    43.13 311 iPc   00 20.70  -1.0
       1.3s    74.35nm          5.3mb
     Z 21s      0.08um          3.6Msz
GRR    43.34 310 iPc   00 22.60  -0.8
       1.0s    42.40nm          5.2mb
LPF    43.43 309 iPc   00 23.20  -0.9
       1.2s    69.30nm          5.3mb
ZAK    43.53  47 iPc   00 26.00   1.1
       1.5s    38.00nm          5.0mb
     Z 11s      0.98um          5.0MszX
     N 12s      0.96um
                 e     02 10.00 587kmX
                 eS    06 50.00
                 e     10 18.00
TRO    43.58 344 eP    00 24.50  -0.5
LZH    44.02  68 iPc   00 30.00   0.7
       1.6s   160.00nm          5.6mb
     Z 18s      0.44um          4.4Msz
     E 14s      0.34um
IRK    44.43  45 eP    00 32.50   0.3
       1.5s    44.00nm          5.1mb
     Z 22s      0.52um          4.4Msz
     N 22s      0.52um
NRI    44.55  18 iPc   00 34.00   1.2
       1.8s   106.00nm          5.4mb
     Z 17s      2.20um          5.1MszX
                 e     02 21.00 607kmX
ENIJ   44.56 294 iPd   00 33.50   0.0
EVIA   44.60 296 iPd   00 35.00   1.1
EHUE   44.76 295 iPd   00 36.20   1.0
CD2    44.89  75 Pd    00 36.60   0.3
       1.0s    31.00nm          5.2mb
HGH    44.94 314 eP    00 35.20  -1.1
HTR    45.28 315 eP    00 38.10  -0.9
BDT    45.29  95 eP    00 39.00  -0.4
ESY    45.52 320 ePc   00 40.40  -0.4
KMI    45.59  83 Pc    00 41.50  -0.6
       1.5s   140.00nm          5.7mb
ECOG   45.60 294 iPd   00 42.50   0.6
EBAN   45.66 295 iPc   00 43.00   0.8
EGUA   45.66 294 iPd   00 42.60   0.4
EDR    45.68 322 eP    00 41.40  -0.7
GUD    45.68 299 iPd   00 43.70   1.2
EKA    45.71 320 Pc    00 41.50  -0.8
       0.8s    50.60nm          5.5mb
EBL    45.73 320 ePc   00 42.20  -0.3
EDI    45.83 320 eP    00 42.80  -0.5
KHT    46.03  99 eP    00 45.70   0.4
EBH    46.07 321 ePc   00 44.20  -1.0
ELUQ   46.11 295 eP    00 46.00   0.2
YRH    46.20 316 ePc   00 45.90  -0.3
YRC    46.21 316 eP    00 46.10  -0.2
ELO    46.22 321 ePc   00 45.60  -0.8
WIM    46.39 318 eP    00 47.40  -0.3
EAB    46.52 321 ePc   00 47.90  -0.8
EHOR   46.85 295 iPc   00 51.40  -0.2
NST    46.95  97 iPc   00 52.90   0.4
EPRU   46.96 294 eP    00 51.40  -1.1
EPLA   47.20 298 iPc   00 54.80   0.4
EJIF   47.23 293 eP    00 52.80  -1.8
NKM    47.36 292 eP    00 56.00   0.4
DLF    47.39 316 eP    00 55.20  -0.4
       0.8s    71.00nm          5.8mb
IFR    47.51 289 iP    00 58.50   1.4
DCN    47.84 316 eP    00 59.00  -0.1
       0.8s    95.00nm          5.9mb
EVAL   48.06 295 iPd   01 01.50   0.4
BTO    48.26  61 eP    01 03.00   0.2
XAN    48.48  70 Pc    01 03.80  -0.6
       1.0s    36.00nm          5.4mb
     Z 14s      0.53um          4.7MszX
                 pP    01 08.00  14km
                 sP    01 12.00
GYA    48.54  80 iPc   01 04.60  -0.5
       1.0s    36.00nm          5.4mb
VAL    49.57 314 iP    01 12.80   0.3
       0.8s     1.00nm          3.9mb X
CIT    50.12  46 eP    01 17.00   0.2
LSZ    50.33 209 iPd   01 20.00   1.2
       1.0s     1.10nm          3.8mb X
MTD    50.36 205 iPd   01 24.60   5.6X
TIY    50.55  64 eP    01 20.00  -0.4
     Z 20s      0.87um          4.8Msz
     N 19s      1.18um
KRI    51.15 207 eP    01 23.20  -1.8
BJI    52.99  61 eP    01 38.50  -0.1
       1.0s     6.00nm          4.5mb
     Z 20s      0.30um          4.3Msz
IPM    53.34 108 ePc   01 39.90  -1.6
       0.9s    39.50nm          5.4mb
WHN    53.80  72 Pc    01 44.80   0.2
       1.0s    60.00nm          5.6mb
AKU    54.45 332 iP    01 49.60   0.7
       1.1s    55.70nm          5.5mb
BUL    54.54 206 iPd   01 50.50   0.2
                 i     01 54.00  11km
TIA    54.54  65 Pc    01 49.60  -0.4
       1.0s    43.00nm          5.4mb
DAG    56.32 345 iPd   02 01.10  -1.3
       0.6s     9.33nm          5.0mb
NJ2    57.04  69 Pc    02 07.50  -0.6
       1.1s    18.00nm          5.0mb
TIK    57.80  21 iPc   02 12.00  -0.9
       1.0s    30.00nm          5.3mb
     Z 18s      0.50um          4.7Msz
                 e     02 29.00  65kmX
                 e     04 28.00
                 eS    10 30.00
YAK    58.51  33 eP    02 16.10  -1.9
       1.2s    75.00nm          5.6mb
     Z 18s      0.40um          4.6Msz
CN2    58.98  54 P     02 20.60  -0.9
       1.0s    14.00nm          5.0mb
SSE    59.23  70 P     02 23.00  -0.4
       1.2s    15.00nm          5.0mb
     Z 20s      0.50um          4.6Msz
                 pP    02 27.50  15km
SLR    59.77 204 eP    02 26.00  -1.3
       0.9s    41.00nm          5.6mb
KSR    60.38 205 eP    02 17.50 -14.1X
MAMG   61.78 266 P     02 40.40  -0.8
WIN    61.84 216 eP    02 42.50   1.0
       0.6s    25.00nm          5.6mb
SEK    62.37 203 iPd   02 36.60  -8.3X
       0.8s    46.00nm          5.7mb
KING   62.71 266 P     02 46.80  -0.5
BLF    63.59 204 iPd   02 53.10   0.1
       0.7s    33.00nm          5.6mb
FRS    64.48 205 eP    02 58.00  -0.6
       0.8s    13.00nm          5.2mb
HVD    65.20 204 eP    03 03.00  -0.4
       1.0s    20.00nm          5.2mb
GRM    67.30 202 iPd   03 15.50  -1.1
       0.6s    50.00nm          5.9mb
SUR    68.56 207 iPc   03 28.50   3.8X
       0.5s    49.00nm          5.9mb
CER    70.03 208 iPc   03 29.50  -4.0X
       0.9s   116.00nm          6.0mb
MAT    70.54  59 eP    03 35.00  -1.8
       0.8s     4.48nm          4.6mb
BLE    70.76 208 iPc   03 39.50   1.6
       1.0s    50.00nm          5.6mb
RES    73.10 351 eP    03 51.50   0.1
       1.0s     3.00nm          4.3mb
FRB    75.15 336 eP    04 03.50   0.2
       1.0s    22.00nm          5.1mb
INK    81.78   2 eP    04 40.00   0.6
       0.9s     6.00nm          4.7mb
IMA    82.19  10 eP    04 42.40   0.6
       0.7s    14.70nm          5.2mb
FBA    84.10   8 eP    04 51.60   0.1
JAQ    84.64 332 eP    04 56.00   1.6
TTA    84.72  12 eP    04 55.50   0.8
LMN    84.74 321 eP    04 56.00   0.9
SVW    86.47  13 eP    05 04.80   1.3
YKA    86.98 353 eP    05 06.10   0.3
       0.9s    10.90nm          5.1mb
TOA    87.00   8 eP    05 07.30   1.2
PMR    87.10  10 eP    05 07.00   0.6
       0.9s    28.30nm          5.5mb
GAC    90.36 326 eP    05 22.50   0.3
WRA    94.11 111 P     05 39.80   0.0
       0.6s     1.00nm          4.4mb
WR2    94.13 111 eP    05 39.70  -0.2
       0.6s     3.10nm          4.9mb
ULM    94.80 340 eP    05 45.50   2.9X
SPA   119.98 180 iPKPc 11 07.80  -3.4X
       1.0s    25.00nm
LPAZ  123.18 270 PKP   11 19.40   0.0
CNCB  123.27 269 PKPc  11 20.40   0.9
     S.D. = 0.9  on 241 of 268 obs.
-----------------------------------
   OCT  21, 1993  22h 07m 16.34± 0.41s
   38.979 N ± 4.9km  111.861 W ± 3.8km
   DEPTH =   5.0km  (geophysicist)
 UTAH                              (478)
      ML 3.3 (GS). MD 3.5 (SLC). Felt
      (IV) at Salina and (III) at
```

21d 22h

```
      Redmond.

MSU      0.53 208 eP     07 26.70   -0.2
SRU      1.05  82 ePc    07 35.87   -0.9
EMUT     1.16  44 ePd    07 38.33   -0.4
                  eS     07 53.03
DUG      1.42 329 ePc    07 42.87   -0.1
ARUT     1.72 227 eP     07 47.25    0.0
PV09     2.19 102 eP     07 54.84    0.7
PV10     2.29 104 eP     07 56.14    0.5
PV08     2.54  98 eP     07 59.86    0.6
HVU      2.88 346 eP     08 03.84   -0.1
TPNV     4.02 241 eP     08 19.60   -0.4
TNP      4.30 260 ePn    08 24.85    0.8
GOL      5.08  80 ePn    08 35.74    0.5
ALQ      5.91 131 ePn    08 45.96   -0.9
                  ePg    09 03.61
     S.D. = 0.6  on  13 of  13 obs.
-------------------------------------
*  OCT  21, 1993  22h 20m 37.07± 1.60s
   9.436 S ±21.9km  120.347 E ±13.4km
   DEPTH =  33.0km  (normal)
   4.3mb (  3 obs.)
 SUMBA REGION, INDONESIA          (287)

KHKI     4.80 282 ePc    21 48.90    0.0
                  eS     22 41.90
                  e      24 42.80
WR2     17.10 129 iPc    24 36.00    0.6
                  eS     27 39.00
ASPA    19.19 139 iPd    25 00.20   -0.8
        0.6s     9.70nm          4.2mb
                  eS     28 31.60
MRWA    20.10 191 eP     25 10.90    0.0
        0.3s     2.00nm          4.0mb
BAL     21.34 189 eP     25 23.70    0.1
        0.3s     8.00nm          4.6mb
KLB     22.18 186 eP     25 32.10    0.1
     S.D. = 0.6  on   6 of   6 obs.
-------------------------------------
   OCT  21, 1993  22h 29m 59.63± 0.38s
   47.273 N ± 2.9km    7.439 E ± 3.6km
   DEPTH =  10.9 ±  3.4 km
 SWITZERLAND                      (544)
      ML 3.1 (LDG), 2.8 (STR), 2.6
      (VIE).

BBS      0.20  14 Pg     30 04.29    0.2
LOMF     0.42 281 Pg     30 07.58   -0.8
ZLA      0.68  72 ePd    30 12.40   -0.6
BSF      0.71 322 Pg     30 14.30    0.7
                  Sg     30 24.30
FEL      0.72  33 ePg    30 13.40   -0.4
SLE      0.87  55 iPd    30 16.00   -0.3
LIBD     0.89   7 Pg     30 17.83    1.3
                  Sg     30 30.94
ECH      0.96 349 Pg     30 18.65    0.8
                  Sg     30 32.80
HAU      1.04 315 Pg     30 19.50    0.3
                  Sg     30 33.90
LLS      1.14 110 ePd    30 20.50   -0.5
WLS      1.14 357 Pg     30 21.31    0.4
                  Sg     30 38.97
CDF      1.15 355 Pn     30 21.00    0.0
                  Pg     30 22.20
                  Sg     30 37.60
DIX      1.19 181 ePd    30 20.60   -1.4
EMS      1.25 196 ePc    30 21.80   -1.2
MMK      1.27 163 ePc    30 21.60   -1.8
TMA      1.53 139 eP     30 27.20    0.2
VDL      1.60 119 iPd    30 28.30    0.2
LPL      1.82 196 Pg     30 32.40    1.0
                  Sg     30 55.90
LSD      1.83 186 P      30 32.06    0.6
LPG      1.84 195 Pg     30 32.50    0.8
                  Sg     30 56.10
OSS      1.94 107 ePd    30 33.10    0.1
RSP      2.13 183 P      30 37.77    2.1
                  S      31 03.44
LBF      2.38 264 Pg     30 43.10    3.9X
                  Sg     31 12.60
RRL      2.40 191 P      30 42.12    2.5
                  S      31 13.13
BHB      2.43 183 P      30 39.97    0.0
                  S      31 09.29
LOR      2.44 271 Pg     30 44.20    4.2X
                  Sg     31 14.40
RUP      2.44 354 ePg    30 46.30    6.2X
OGA      2.48  98 iPc    30 50.70    9.9X
MOTA     2.49  87 i(Pg)  30 46.80    5.9X
                  iSg    31 19.10
SMF      2.54 257 Pn     30 40.70   -0.8
                  Pg     30 46.60
                  Sg     31 16.90
SQTA     2.57  90 iPd    30 42.50    0.5
                  iPg    30 48.10
                  i      31 14.10
                  iSg    31 20.90
ABH      2.61   2 ePg    30 49.40    6.9X
SSF      2.69 267 Pn     30 43.10   -0.5
                  Pg     30 49.20
                  Sg     31 22.30
PZZ      2.78 185 P      30 47.18    2.2
                  S      31 17.78
AVF      2.84 262 Pn     30 44.60   -1.1
                  Pg     30 52.10
PCP      2.84 164 P      30 46.15    0.4
                  S      31 16.74
WTTA     2.86  89 iPg    30 46.20    0.1
                  iSg    31 18.20
BGF      3.23 259 Pn     30 48.60   -2.6X
                  Pg     30 58.20
                  Sg     31 39.10
GRF      3.49  45 ePg    31 05.60   10.7X
                  eSg    31 50.70
MAF      3.51 254 Pn     30 51.50   -3.7X
                  Pg     31 03.40
                  Sg     31 48.70
GEC2     4.48  67 Pn     31 06.70   -2.4X
                  Pg     31 23.90
                  Sn     31 58.20
                  Sg     32 23.50
KHC      4.51  63 ePn    31 07.50   -1.9X
                  e      31 25.40
                  e      31 57.00
                  eSg    32 23.00
     S.D. = 1.1  on  31 of  42 obs.
-------------------------------------
*  OCT  21, 1993  22h 59m 18.71± 2.18s
   7.988 S ± 8.9km  128.260 E ±16.8km
   DEPTH =  67.4 ± 26.4 km
   4.2mb (  1 obs.)
 BANDA SEA                        (280)

TLE      5.03  63 eP     00 33.70    0.3
KNA      7.73 176 eP     01 10.30   -0.6
        0.2s    19.00nm          5.5mb X
                  eS     02 35.20
WR2     13.28 154 eP     02 20.70   -5.2X
                  eS     04 39.20
ASPA    16.50 162 iPd    03 04.50   -2.9X
      Z  21s     0.20um
                  i      03 10.40
                  e      03 24.90
                  eS     06 01.00
QIS     16.63 140 eP     03 08.60   -0.4
WARB    18.16 185 eP     03 29.00    1.1
STK     26.82 154 iPc    04 54.60    0.0
        0.6s     4.70nm          4.2mb
GUN     54.33 313 P      08 43.60    2.4X
PKI     54.48 312 P      08 42.60    0.3
KKN     54.70 312 P      08 39.80   -4.0X
DMN     54.72 312 P      08 44.60    0.6
GKN     55.29 312 P      08 46.80   -1.2
BRG    111.42 322 e(PKP) 18 09.00   22.2X
CNCB   150.58 147 PKP    19 07.80    7.4X
LPB    150.75 146 ePKP   19 06.00    5.5X
LPAZ   150.93 146 PKP    19 07.40    6.4X
     S.D. = 0.9  on   8 of  16 obs.
-------------------------------------
*  OCT  22, 1993  00h 14m 53.90± 2.52s
   51.196 N ±20.9km   15.921 E ±13.3km
   DEPTH =  10.0km  (geophysicist)
 POLAND                           (548)
      ML 3.1 (VIE).

KSP      0.42 146 iPd    15 02.40   -0.2
                  iS     15 10.50
                  e      15 19.40
BRG      1.29 256 ePn    15 17.10   -0.7
                  iPg    15 18.10
                  iSg    15 38.00
PRU      1.50 217 Pn     15 21.00    0.2
        0.3s   176.00nm
                  Pg     15 22.80
                  Sn     15 39.60
                  Sg     15 48.10
CLL      1.84 275 (Pg)   15 26.00    0.3
                  eSg    15 52.00
KHC      2.56 217 ePn    15 36.00   -0.1
                  ePg    15 42.00
                  e      16 04.50
                  eSn    16 13.50
                  eSg    16 21.00
MOX      2.78 260 ePg    15 45.90    6.6X
                  iSg    16 25.30
WET      2.84 225 eP     15 40.50    0.4
VKA      2.95 175 iPgd   15 50.30    8.7X
                  iSg    16 34.00
GRF      3.36 245 ePg    15 59.80   12.3X
                  eSg    16 45.70
     S.D. = 0.5  on   6 of   9 obs.
-------------------------------------
*  OCT  22, 1993  00h 17m 48.71± 0.94s
   6.123 S ± 8.9km  146.342 E ± 8.1km
   DEPTH =  10.0km  (geophysicist)
   4.0mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.3 (PMG).

YYYY     0.39 252 ePd    17 56.80    0.1
                  eS     18 03.40
LAT      0.85 129 iPc    18 05.00   -0.1
MDG      1.03 327 eP     18 08.20    0.0
MNDI     2.67 269 eP     18 37.00    4.3X
PMG      3.36 166 iPc    18 42.50    0.2
WWKK     3.67 312 eP     18 52.40    5.5X
WR2     18.01 219 eP     22 00.70   -0.2
        0.6s     4.90nm          3.8mb
ASPA    21.16 213 iPd    22 39.80    3.3X
        1.0s     8.90nm          4.1mb
     S.D. = 0.2  on   5 of   8 obs.
-------------------------------------
&  OCT  22, 1993  00h 22m 09.78s
   58.889 N          154.448 W
   DEPTH = 109.9km
 ALASKA PENINSULA                 ( 12)
      <AEIC>.

MCNL     0.30  11 iP     22 24.99    0.8
                  eS     22 36.80
CDD      0.42  84 eP     22 25.50   -0.9
AUI      0.69  49 eP     22 27.30   -1.0
                  eS     22 41.15
AUW      0.70  46 iP     22 27.55   -0.8
AUH      0.70  47 eP     22 27.58   -0.9
AGU      0.71  48 eP     22 27.75   -0.8
AUP      0.71  48 eP     22 27.72   -0.9
AUL      0.72  46 eP     22 27.68   -0.9
AUE      0.73  49 eP     22 27.81   -0.8
PDB      0.91   8 eP     22 28.87   -1.5
                  eS     22 44.21
OPT      0.99  39 iP     22 30.14   -1.0
                  eS     22 46.29
SYI      1.11 104 eP     22 31.17   -1.2
INE      1.37  30 eP     22 34.13   -1.5
ILIM     1.42  32 eP     22 34.77   -1.2
                  eS     22 54.52
KDC      1.54 137 eP     22 35.84   -1.6
RED      1.75  28 eP     22 38.60   -1.6
                  eS     23 01.92
CNPM     1.77  67 eP     22 38.18   -2.2
RS2      1.80  28 eP     22 39.22   -1.6
RDW      1.80  27 eP     22 39.15   -1.8
                  eS     23 03.40
REF      1.83  28 eP     22 39.45   -1.9
                  eS     23 02.96
NCT      1.85  24 eP     22 39.52   -1.9
DFR      1.93  27 eP     22 40.72   -1.7
SVW      2.30 346 P      22 45.50   -1.7
BKG      2.45  26 eP     22 47.29   -1.9
SPU      2.59  27 eP     22 48.99   -2.1
BGL      2.60  23 eP     22 49.31   -1.9
CP2      2.63  24 eP     22 49.35   -2.4
CRP      2.65  25 eP     22 48.57   -3.4
SLKM     2.69  51 eP     22 50.29   -2.1
CGLM     2.72  26 eP     22 50.46   -2.3
NCG      2.77  23 eP     22 52.02   -1.5
SEW      2.83  62 eP     22 51.33   -2.8
PMS      3.40  44 P      22 58.90   -3.1
LTI      3.56  68 eP     23 01.17   -2.9
```

```
PWL     3.66  55 eP    23 01.78  -3.7
KNK     3.92  47 eP    23 05.14  -3.9
        36 obs. associated
-------------------------------------
?  OCT  22, 1993  00h 31m 28.14±16.74s
   28.141 S ±151.km   67.274 W ±21.0km
   DEPTH = 130.0km  (geophysicist)
 LA RIOJA PROVINCE, ARGENTINA     (138)

RTPR    2.25 163 eP    32 06.00   0.3
RTLL    3.34 198 ePc   32 20.00   0.0
                 S     32 56.00
RTCB    3.59 201 ePc   32 23.20  -0.1
                 S     33 01.00
TCA     3.95 144 iP    32 28.00  -0.1
MRA     4.47 163 ePd   32 34.80  -0.2
     S.D. = 0.3  on   5 of   5 obs.
-------------------------------------
   OCT  22, 1993  00h 58m 11.31± 0.40s
   40.312 N ± 3.8km   22.034 E ± 3.2km
   DEPTH =   5.0km  (geophysicist)
 GREECE                           (364)
      ML 2.9 (THE).

LIT     0.41 121 ePg   58 19.22  -0.3
                 eSg   58 25.30
FNA     0.69 313 ePg   58 24.97  -0.1
                 eSg   58 36.10
GRG     0.70  23 ePg   58 25.14  -0.2
                 eSg   58 35.46
THE     0.78  65 ePg   58 26.93   0.0
                 eSg   58 38.98
KNT     1.07  37 ePg   58 32.30   0.3
                 eSg   58 48.30
VAY     1.09  22 iPn   58 32.40   0.2
                 iSn   58 50.00
LSK     1.11 262 ePn   58 32.10  -0.6
SOH     1.13  63 ePg   58 32.86  -0.1
                 eSg   58 49.66
AGG     1.31 170 ePb   58 36.50   0.5
                 eSb   58 55.26
PAIG    1.32 106 ePb   58 36.34   0.2
                 eSb   58 53.97
SRS     1.43  55 ePb   58 38.10   0.1
                 eSb   58 58.58
OUR     1.49  89 ePb   58 39.50   0.8
                 eSb   58 59.26
IGT     1.52 240 ePb   58 42.54   3.3X
                 eSb   59 04.58
TPE     1.55 270 ePn   58 40.00   0.4
SRN     1.62 255 ePn   58 43.90   3.3X
TIR     1.94 303 ePn   58 50.20   4.9X
                 iSn   59 17.50
VLO     1.95 275 ePn   58 49.50   4.2X
BCI     2.53 325 ePn   59 02.80   9.1X
SDA     2.58 313 ePn   59 01.50   7.0X
ALN     3.11  78 ePn   59 01.58  -0.3
EZN     3.33  97 ePn   59 04.00  -1.1
     S.D. = 0.5  on  15 of  21 obs.
-------------------------------------
?  OCT  22, 1993  01h 14m 28.86± 3.08s
   17.438 N ±11.1km   73.965 E ±35.8km
   DEPTH =  33.0km  (normal)
   4.4mb (  2 obs.)
 SOUTHERN INDIA                   (314)
      Felt in the Koyna region.

HYB     4.38  90 ePn   15 36.30   1.4
                 ePg   15 49.50
                 eSn   16 28.50
                 eSg   16 48.50
GBA     5.07 138 P     15 42.80  -1.8
      0.3s    17.00nm          5.1mb X
                 S     16 36.16
GKN    14.39  41 P     17 52.40   0.0
DMN    14.43  43 P     17 52.80  -0.2
PKI    14.60  44 P     17 54.60  -0.7
KKN    14.66  43 P     17 55.80  -0.2
      0.7s    24.00nm          4.7mb
GUN    15.14  44 P     18 02.00  -0.4
WRA    69.94 119 P     25 41.20   1.8
      0.5s     0.70nm          4.0mb
     S.D. = 1.4  on   8 of   8 obs.
-------------------------------------
*  OCT  22, 1993  01h 51m 51.52± 2.71s
   37.754 S ±17.0km  176.136 E ±10.5km
   DEPTH = 240.0 ± 22.9 km
 NORTH ISLAND, NEW ZEALAND        (159)

WLZ     0.44 255 P     52 23.40   0.2
URZ     0.92 124 P     52 24.00  -1.3
                 S     52 43.80
PAHZ    1.32 147 eP    52 27.50  -0.4
NGZ     1.48 196 eP    52 29.80   0.6
HBZ     1.72  86 P     52 31.10   0.1
NOZ     1.73 121 eP    52 31.20   0.2
WAHZ    1.95 175 P     52 33.30   0.2
MAHZ    1.98 137 eP    52 34.10   0.8
TEHZ    2.29 167 P     52 36.60   0.3
PGZ     2.86 178 P     52 42.40   0.2
MNG     2.91 190 P     52 42.80   0.1
                 S     53 17.90
KIW     3.25 197 P     52 46.30  -0.2
MTW     3.44 188 P     52 48.20  -0.5
CAW     3.45 194 P     52 48.70  -0.2
DIW     3.50 209 P     52 49.70   0.3
BLW     3.65 188 P     52 50.60  -0.5
MRW     3.65 197 P     52 51.00  -0.1
                 S     53 32.30
KHZ     5.07 202 P     53 08.50   0.2
     S.D. = 0.5  on  18 of  18 obs.
-------------------------------------
*  OCT  22, 1993  04h 33m 15.44± 2.21s
   31.555 S ±11.6km   71.864 W ±18.8km
   DEPTH =  33.0km  (normal)
 NEAR COAST OF CENTRAL CHILE      (135)
      MD 3.9 (SAN).

JACH    1.56 137 iP    33 40.60  -0.7
                 iS    34 00.44
ROCH    1.59 153 iP    33 41.33  -0.5
                 iS    34 00.85
PEL     1.87 148 iPd   33 46.12   0.3
                 iS    34 09.13
LCCH    1.93 173 iP    33 46.29  -0.3
                 iS    34 09.47
SAN     2.15 152 iP    33 50.59   0.9
LNV     2.42 171 iP    33 53.63   0.1
RTRS    2.49  57 eP    33 54.50   0.1
                 S     34 24.00
RTCB    2.62  89 iPc   33 56.50   0.1
                 S     34 28.20
ZON     2.72  91 eP    33 53.80  -4.0X
RTCV    2.85  97 e(P)  34 00.00   0.3
RTLL    2.91  86 eP    34 00.30  -0.2
                 S     34 37.00
CFA     3.09  92 e(P)  34 03.00  -0.1
MRA     5.30 101 ePc   34 31.20  -3.1X
TCA     6.22  90 eP    34 43.80  -3.6X
     S.D. = 0.5  on  11 of  14 obs.
-------------------------------------
&  OCT  22, 1993  04h 39m 10.48s
   34.034 N          116.828 W
   DEPTH =   3.8km
 SOUTHERN CALIFORNIA              ( 43)
      <PAS-P>. ML 2.8 (PAS).

PEC     0.31 243 ePc   39 16.52  -0.2
PLM     0.68 182 ePd   39 23.31  -0.8
SSK     0.74 284 eP    39 23.93  -1.3
GSC     1.26   1 eP    39 34.07  -0.5
GLA     1.94 120 ePn   39 44.21  -0.4
ISA     2.11 321 ePn   39 46.49  -0.7
ABL     2.14 293 ePn   39 47.43  -0.2
TPNV    2.95   9 ePn   39 58.68  -0.5
                 ePg   40 06.12
BONR    4.09 343 (Pn)  40 14.00  -1.5
                 ePg   40 28.65
ARUT    4.65  35 (Pn)  40 23.57   0.3
                 ePg   40 36.70
        10 obs. associated
-------------------------------------
?  OCT  22, 1993  05h 34m 01.06± 1.45s
   32.184 S ±53.9km   67.380 W ±21.1km
   DEPTH = 110.0km  (geophysicist)
 MENDOZA PROVINCE, ARGENTINA      (139)

RTCV    1.03 288 eP    34 23.00   0.0
                 S     34 41.00
RTLL    1.26 312 eP    34 25.50   0.0
                 S     34 45.00
RTCB    1.39 300 eP    34 27.00  -0.1
                 S     34 48.00
MRA     1.43 100 iPc   34 27.40   0.0
     S.D. = 0.1  on   4 of   4 obs.
-------------------------------------
   OCT  22, 1993  05h 38m 54.74± 0.19s
   52.729 S ± 4.9km   27.089 E ± 6.1km
   DEPTH =  10.0km  (geophysicist)
   5.2mb ( 28 obs.)  4.9Msz ( 11 obs.)
 SOUTH OF AFRICA                  (430)
      Mw 5.3 (HRV).
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 22S, 30C
      Centroid Location:
      Origin Time        05:39: 2.3 0.6
      Lat 52.49S 0.09 Lon  26.77E 0.12
      Dep  15.0 FIX Half-duration  1.0
      Moment Tensor;    Scale 10**16 Nm
        Mrr=-5.82 0.43  Mtt= 5.84 0.49
        Mff=-0.02 0.62  Mrt= 5.17 1.83
        Mrf=-5.70 1.64  Mtf=-2.89 0.62
       Principal Axes:
        T  Val= 10.22  Plg=25  Azm= 30
        N       -0.29      15      127
        P       -9.93      61      245
      Best Double Couple:Mo=1.0*10**17
       NP1:Strike= 91 Dip=24 Slip=-129
       NP2:        312     71      -74

NVL    19.37 195 iPc   43 22.00  -1.0
       1.2s   233.00nm          5.3mb
                 e     43 55.00
                 e     44 07.00
                 e     44 14.00
                 e     45 05.00
                 e     45 31.00
                 eS    47 11.00
                 eSS   47 46.00
GRM    19.41 359 eP    43 21.50  -2.3
       1.0s    92.00nm          5.0mb
BLE    19.77 339 iPc   43 28.00   0.3
       1.0s   170.00nm          5.3mb
CER    20.16 341 iPc   43 27.50  -4.3X
       1.0s   260.00nm          5.5mb
TUH    20.25 340 iPc   43 33.00   0.3
       1.0s   180.00nm          5.4mb
SUR    20.84 345 iPd   43 42.50   3.4X
       1.0s   320.00nm          5.6mb
SNA    22.13 206 iPc   43 51.50   0.0
       1.2s   125.00nm          5.2mb
HVD    22.14 356 iPd   43 55.60   3.5X
       0.8s   112.00nm          5.4mb
MAW    22.74 145 iPd   43 58.80   1.2
       1.1s    63.20nm          5.0mb
                 epP   44 18.10  88kmX
                 eS    47 57.20
BLF    23.61 358 eP    44 06.50  -0.1
POF    23.91 344 iPd   44 11.50   2.2
       1.4s    60.00nm          5.0mb
BOSA   24.12 356 ePc   44 11.82   0.5
       1.2s    48.30nm          5.0mb
SEK    24.38   1 eP    44 06.50  -7.6X
       1.0s    40.00nm          5.0mb
SLR    26.97   2 iPd   44 37.40  -1.0
       0.8s    18.66nm          4.8mb
     Z 20s      6.03um          5.2Msz
WIN    31.07 342 iPd   45 14.50  -0.7
       1.5s    50.00nm          5.2mb
BUL    32.55   3 iPc   45 27.50  -0.6
KRI    35.88   4 iPc   46 11.00  14.2X
LSZ    37.37   2 iPc   46 09.00  -0.4
                 i     48 29.50
SPA    37.46 180 iPd   46 06.30  -3.5X
       1.0s   140.00nm          5.7mb
     Z 21s      3.92um          5.2Msz
                 i     56 28.90
CSY    41.05 142 eP    46 47.70   8.4X
       0.6s    28.50nm          5.2mb
SBA    47.34 169 iPc   47 31.50   1.7
VAO    62.46 268 e(P)  49 16.00  -4.5X
NWAO   64.65 111 iPd   49 33.60  -1.0
MUN    64.77 110 iPc   49 35.20  -0.2
       0.8s    21.00nm          5.4mb
PPD    65.83 265 eP    49 41.60  -0.7
BAL    66.07 109 eP    49 43.00  -0.8
       0.8s    37.00nm          5.6mb
MRWA   66.69 108 eP    49 47.00  -0.8
       0.7s    19.00nm          5.4mb
BDF    68.61 272 Pd    50 00.10   0.0
```

22d 05h

```
        1.2s      2.95nm          4.4mb
                   i      50 07.00
                   i      50 25.10
                   i      50 36.80
BAO     68.69 272 eP      50 00.00  -0.6
                   e      50 09.00
                   i      50 15.10
BDFB    68.70 272 eP      50 00.13  -0.5
        0.9s     38.24nm          5.6mb
SOB1    69.43 282 eP      50 04.40  -0.7
SLA     72.22 253 ePc     50 20.60  -1.4
WARB    75.07 114 iPd     50 37.50  -0.9
        0.6s     13.00nm          5.1mb
CCH     78.28 257 P       50 57.10   0.3
STK     78.31 128 iPd     50 56.10  -0.2
CAN     78.81 135 eP      50 59.50   0.4
                   i      52 26.50
                   e      52 41.60
LEM     78.87  87 ePc     51 03.50   3.7X
GBA     78.94  50 P       50 59.90   0.0
        0.9s      6.00nm          4.6mb
CNCB    79.82 256 iPd     51 06.30   0.8
LPB     80.11 256 P       51 07.80   1.0
LTZ     80.23 155 eP      51 14.90   8.3X
LPAZ    80.32 256 P       51 07.70  -0.5
        0.7s     25.20nm          5.3mb
                   PP     54 12.90
                   S      01 11.10
                   SP     02 20.10
                   SS     06 24.00
                   LQ     12 40.50
                   LR     17 39.40
KHZ     80.90 156 P       51 08.80  -1.3
ASPA    81.05 117 iPd     51 11.20  -0.1
        0.7s     35.80nm          5.5mb
DSZ     81.08 154 P       51 09.00  -2.1
THZ     81.35 155 eP      51 06.30  -6.3X
QRZ     82.13 154 P       50 59.80 -16.8X
ARE     82.15 253 eP      51 18.00   0.6
ARMA    84.14 134 eP      51 27.70   0.5
        0.9s     11.00nm          5.1mb
WRA     84.29 115 P       51 28.39   0.4
        0.9s     11.70nm          5.1mb
WR2     84.30 115 iPd     51 27.80  -0.2
        1.1s     25.60nm          5.4mb
WB5     84.36 115 iP      51 28.30   0.0
                   i      51 44.00
CTA     90.43 125 P       51 58.59   0.8
NDI     92.09  42 eP      52 05.80   0.9
VAY     93.75 357 eP      52 14.40   2.2
CHTO    94.30  65 eP      52 15.50   0.2
DMN     94.59  49 P       52 17.20   0.4
PKI     94.70  49 P       52 17.20  -0.2
GKN     94.71  48 P       52 17.60   0.4
KKN     94.83  49 P       52 18.20   0.4
NIL     94.96  37 iP      52 27.40   9.4X
GUN     95.21  49 P       52 20.00   0.2
NB2    114.12 352 PKP     57 31.10  -3.5X
        1.1s      5.40nm
LMN    125.58 301 ePKPc   58 05.20   8.2X
                   pP     58 11.30
MYNC   129.39 278 PKP     58 10.00   5.4X
     Z  19s      0.23um          4.9Msz
YSNY   130.94 289 PKP     58 20.00  12.6X
     Z  21s      0.24um          4.9Msz
DAG    132.45 347 iPKPd   58 06.40  -2.7X
        0.8s      7.46nm
MIAR   134.76 271 PKP     58 20.00   5.2X
     Z  19s      0.12um          4.6Msz
LTX    137.19 257 ePKP    58 17.72  -2.0
FRB    137.52 319 ePKP    58 19.00  -0.1
        1.0s     11.00nm
WMOK   138.05 267 PKP     58 30.00   8.9X
     Z  19s      0.24um          4.9Msz
ALQ    142.83 260 ePKP    58 27.87  -2.0
     Z  19s      0.02um          3.9Msz
                   ePP    01 36.15
TUC    143.53 253 ePKP    58 28.01  -2.9X
     Z  19s      0.16um          4.8Msz
ULM    145.19 289 ePKP    58 35.00   1.9
GLD    145.20 268 ePKP    58 32.67  -1.0
GOL    145.26 267 ePKP    58 32.36  -1.6
GLA    146.40 249 ePKP    58 35.97   0.2
PV08   146.55 263 ePKP    58 36.27   0.1
PV10   146.65 262 ePKP    58 35.86  -0.4
PV09   146.79 262 ePKP    58 37.03   0.5
RSSD   147.01 275 ePKP    58 35.54  -1.0
FCC    147.30 304 ePKP    58 35.00  -1.2
PLM    147.77 247 ePKP    58 39.07   1.0
SRU    148.02 262 ePKP    58 37.39  -0.9
PEC    148.34 248 ePKP    58 40.38   1.6
HON    148.41 171 PKP     58 50.00  10.9X
     Z  19s      0.36um          5.2Msz
MSU    148.62 260 ePKP    58 39.70   0.3
EMUT   148.63 263 ePKP    58 39.17  -0.2
ARUT   148.90 257 ePKP    58 40.27   0.5
GSC    149.16 250 ePKP    58 40.52   0.4
TPNV   149.99 253 ePKP    58 42.18   0.8
DUG    150.07 261 ePKP    58 41.49   0.1
     Z  20s      0.19um          4.9Msz
ABL    150.20 247 ePKP    58 42.54   0.7
ISA    150.36 249 ePKPd   58 42.76   0.9
BCH    150.92 246 ePKP    58 43.18   0.4
HVU    151.00 264 ePKP    58 42.22  -0.6
MTUM   151.61 251 (PKP)   58 45.96   2.1
BONR   151.87 252 ePKPd   58 45.11   0.7
MEMM   152.04 251 ePKP    58 45.57   1.4
LRM    153.00 272 ePKP    58 45.30  -0.4
                   e      58 53.20
CMB    153.12 250 ePKP    58 43.49  -2.3
     Z  19s      0.17um          4.9Msz
MBC    153.13 343 PKP     58 43.50  -1.1
ARN    153.29 247 ePKP    58 45.12  -0.9
                   ePKPbc 58 53.91
COE    153.31 247 ePKP    58 47.83   1.8
                   ePKPbc 58 55.00
LBFM   156.18 254 ePKP    58 50.29   0.2
                   ePKPab 59 17.26
LGPM   156.45 252 ePKP    58 50.66   0.3
                   ePKPab 59 18.44
KMPM   156.87 249 (PKP)   58 51.69   0.9
                   ePKPab 59 19.00
INK    161.84 337 ePKP    58 57.00   1.8
PMR    170.88 349 PKP     59 10.00   7.6X
     Z  19s      0.49um
     S.D. = 1.0  on  86 of 109 obs.
-----------------------------------------
*  OCT  22, 1993  05h 44m 14.04± 1.91s
   32.111 S ± 8.5km   68.709 W ±16.3km
   DEPTH = 143.1 ± 18.3 km
 MENDOZA PROVINCE, ARGENTINA      (139)

RTCV     0.29  30 eP      44 34.00  -0.2
ZON      0.56   3 eP      44 34.50  -0.8
                   eS     44 45.50
RTCB     0.63 353 eP      44 36.00   0.3
                   S      44 49.00
CFA      0.64  39 ePc     44 36.00   0.3
                   S      44 59.90
RTLL     0.81  15 eP      44 37.20   0.3
                   (S)    44 50.00
MRA      2.56  98 iPd     44 56.20   0.2
RTPR     2.61  47 eP      44 57.00   0.4
                   S      45 27.00
RFA      2.66 176 ePc     44 57.50   0.1
                   S      45 28.00
TCA      3.59  79 iP      45 09.10  -0.4
                   (S)    45 46.00
CYA      4.44  35 ePd     45 20.60  -0.1
MBC    112.63 348 Pdiff   58 45.80   6.6X
                   pP'df  58 48.90
                   sP'df  58 52.80
                   PKPab  59 03.00
                   SKPdf  02 08.60
                   PPP    06 08.00
                   PcPP'  07 11.70
                   e      09 00.60
                   SS     22 12.40
     S.D. = 0.5  on  10 of  11 obs.
-----------------------------------------
?  OCT  22, 1993  05h 50m 46.84± 0.99s
   19.578 N ±22.3km  103.031 W ± 9.6km
   DEPTH =  33.0km  (normal)
 JALISCO, MEXICO                  (524)

CGX      0.42 287 iP      50 56.50   0.0
MRX      1.74  86 iP      51 15.00  -0.2
                   (S)    51 39.00
CRX      3.17  93 iP      51 36.00   0.2
III      3.58 109 iP      51 31.00 -10.6X
                   (S)    52 12.00
ACX      4.04 131 (P)     51 48.00   0.0
PPM      4.19  96 (P)     52 03.00  12.4X
     S.D. = 0.2  on   4 of   6 obs.
-----------------------------------------
   OCT  22, 1993  06h 26m 30.10± 0.68s
   12.505 N ± 6.2km  126.350 E ±11.6km
   DEPTH =  10.0km  (geophysicist)
   4.5mb (  8 obs.)
 PHILIPPINE ISLANDS REGION        (248)

PLP      1.89 225 ePd     27 02.50  -0.2
                   iS     27 20.00
MAP      3.18 227 ePc     27 22.00   0.9
                   eS     27 46.00
GQP      4.05 291 eP      27 16.00 -17.4X
                   iS     28 16.00
BIP      4.25 181 eP      28 05.50  29.1X
DAV      5.44 188 eP      28 14.00  20.8X
TGY      5.51 287 ePd     28 03.50   9.2X
CVP      6.77 320 eP      28 12.00   0.0
SSE     19.11 346 eP      30 56.00   0.4
     Z  20s      0.50um
     N  12s      0.30um
     E  12s      0.30um
GYA     23.13 310 P       31 39.60   2.0
KMI     25.58 303 Pd      32 00.50  -0.9
        1.4s     50.00nm          5.0mb
     Z  16s      2.20um          4.8MszX
XAN     26.67 326 P       32 10.50  -0.7
        0.8s      3.40nm          4.1mb
     Z  16s      0.29um          3.9MszX
CD2     27.76 315 eP      32 21.60   0.5
LZH     31.02 323 eP      32 50.00  -0.4
        2.0s     33.00nm          4.9mb
     Z  15s      0.24um          4.0MszX
WRA     33.19 166 P       33 08.90  -0.4
        0.5s      1.30nm          4.1mb
WR2     33.20 166 eP      33 08.50  -0.9
        0.7s      2.50nm          4.3mb
GTA     35.62 324 eP      33 30.50   0.3
        1.5s      8.00nm          4.4mb
ASPA    36.70 168 eP      33 40.70   1.4
        0.3s      6.10nm          4.9mb
GUN     40.74 298 P       34 13.60   0.1
PKI     41.07 298 P       34 15.80  -0.3
KKN     41.23 298 P       34 17.30   0.0
DMN     41.34 298 P       34 18.40   0.2
GKN     41.83 298 P       34 22.20   0.0
GBA     47.60 277 P       35 06.50  -1.9
        0.8s      5.00nm          4.7mb
MAIO    64.09 304 eP      37 04.00  -3.0X
     S.D. = 0.9  on  19 of  24 obs.
-----------------------------------------
%  OCT  22, 1993  06h 27m 08.04± 0.87s
   44.259 N ± 6.0km    8.226 E ± 6.4km
   DEPTH =   5.0km  (geophysicist)
 NORTHERN ITALY                   (545)
     ML 1.9 (GEN).

FIN      0.05 194 P       27 09.93   0.4
                   S      27 10.89
ROB      0.26 278 P       27 13.50   0.2
                   S      27 17.03
PCP      0.36  39 P       27 15.47   0.1
                   S      27 20.60
IMI      0.42 215 P       27 15.97  -0.6
ENR      0.58 267 P       27 20.55   0.9
                   S      27 27.10
STV      0.65 269 P       27 20.55  -0.5
BHB      0.90 311 P       27 25.31  -0.5
     S.D. = 0.7  on   7 of   7 obs.
-----------------------------------------
   OCT  22, 1993  06h 28m 11.21± 0.63s
   44.263 N ± 3.9km    8.221 E ± 4.9km
   DEPTH =   5.0km  (geophysicist)
 NORTHERN ITALY                   (545)
     ML 2.7 (LDG), 2.5 (GEN).

FIN      0.05 190 P       28 13.10   0.3
                   S      28 14.28
ROB      0.25 277 P       28 16.70   0.3
                   S      28 19.88
PCP      0.36  40 P       28 18.53   0.0
                   S      28 24.20
IMI      0.43 214 P       28 19.11  -0.7
ENR      0.58 267 P       28 22.84   0.1
STV      0.64 269 P       28 24.63   0.5
                   S      28 32.58
SBF      0.69 235 Pg      28 24.70  -0.4
                   Sg     28 34.60
```

```
PZZ      0.84 287 P      28 27.49  -0.5
BHB      0.90 311 P      28 28.69  -0.2
RSP      1.12 323 P      28 32.73  -0.1
FRF      1.34 239 Pg     28 36.00  -0.4
                  Sg     28 53.00
LMR      1.55 234 Pg     28 39.70   0.2
                  Sg     28 58.80
LRG      1.57 240 Pg     28 40.50   0.7
                  Sg     29 00.50
     S.D. = 0.5  on  13 of  13 obs.
-----------------------------------
?  OCT  22, 1993  06h 28m 31.80± 0.97s
   44.275 N ± 8.6km    8.214 E ± 7.3km
   DEPTH =   5.0km  (geophysicist)
 NORTHERN ITALY                    (545)
      ML 1.4 (GEN).

FIN      0.07 184 P      28 33.54   0.0
                  S      28 34.69
ROB      0.25 275 P      28 37.01   0.2
                  S      28 40.65
PCP      0.36  41 P      28 38.99   0.0
                  S      28 44.16
ENR      0.57 265 P      28 43.12  -0.2
                  S      28 50.61
     S.D. = 0.2  on   4 of   4 obs.
-----------------------------------
   OCT  22, 1993  06h 35m 59.78± 0.79s
   44.232 N ± 4.6km    8.233 E ± 6.5km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                    (545)
      ML 2.6 (LDG), 2.4 (GEN).

FIN      0.03 217 P      36 01.57  -0.2
ROB      0.27 284 P      36 05.17  -0.3
                  S      36 08.69
PCP      0.38  36 P      36 07.02  -0.6
                  S      36 12.67
IMI      0.41 218 P      36 07.54  -0.6
ENR      0.58 270 P      36 11.12  -0.6
                  S      36 18.67
STV      0.65 271 P      36 12.97   0.1
                  S      36 20.63
SBF      0.68 238 Pg     36 13.10  -0.3
                  Sg     36 23.10
PZZ      0.86 289 P      36 15.71  -0.7
                  S      36 27.00
BHB      0.92 312 P      36 17.09  -0.3
RRL      1.24 304 P      36 22.51  -0.5
FRF      1.33 240 Pg     36 24.50   0.2
                  Sg     36 41.90
LMR      1.54 235 Pg     36 27.90   0.6
                  Sg     36 47.90
LRG      1.56 241 Pg     36 28.50   0.9
                  Sg     36 49.10
LPG      1.65 321 Pg     36 29.80   0.7
LPL      1.67 321 Pg     36 30.90   1.5
     S.D. = 0.7  on  15 of  15 obs.
-----------------------------------
*  OCT  22, 1993  06h 37m 12.28± 0.72s
   18.091 S ±13.1km  175.832 W ±13.3km
   DEPTH =  33.0km  (normal)
   4.8mb (  3 obs.)
 TONGA ISLANDS                     (173)

AFI      5.70  44 eP     38 37.00   0.0
QRZ     24.77 201 eP     42 32.80   0.4
LTZ     26.61 200 eP     42 48.90  -0.6
YYYY    39.06 283 eP     44 37.80  -0.6
WR2     46.99 259 iPc    45 42.40   0.0
         0.4s     4.60nm          4.8mb
WRA     47.01 259 P      45 43.20   0.6
         0.3s     3.30nm          4.8mb
ASPA    47.10 254 iPd    45 43.50   0.2
         0.7s     9.70nm          4.9mb
     S.D. = 0.6  on   7 of   7 obs.
-----------------------------------
*  OCT  22, 1993  07h 04m 42.32± 0.78s
   26.360 S ± 8.5km   27.364 E ±12.6km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA          (584)
      ML 3.3 (PRE). mbLg 3.1 (BUL).

SLR      1.03  53 iPd    05 01.60  -0.8
                  S      05 13.50
SEK      1.97 173 iPd    05 17.50   0.7
                  S      05 42.00
BLF      2.93 201 iPd    05 31.20   0.6
                  S      06 16.50
HVD      4.54 201 e(P)   05 54.00   0.6
BUL      6.29  11 iPn    06 19.20   0.9
                  iSn    07 28.00
                  iSg    08 00.90
GRM      6.96 185 eP     06 26.50  -1.1
                  S      08 01.00
POF      7.22 244 e(P)   06 30.10  -1.0
SUR      8.28 222 eP     06 54.00   7.8X
                  S      08 30.50
CER      9.88 223 eP     07 27.00  18.8X
                  S      09 20.50
     S.D. = 1.1  on   7 of   9 obs.
-----------------------------------
   OCT  22, 1993  07h 05m 49.60± 0.77s
    5.946 S ± 5.4km  146.059 E ± 7.8km
   DEPTH =  16.1 ±  6.3 km
   4.3mb (  3 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.4 (PMG).

YYYY     0.31 197 iPd    05 56.40   0.0
MDG      0.75 338 eP     06 03.40  -0.3
LAT      1.18 127 eP     06 11.40   0.3
MNDI     2.40 265 eP     06 33.50   4.5X
WWKK     3.35 313 eP     06 47.40   5.0X
PMG      3.61 162 iPc    06 46.70   0.7
WR2     17.97 218 iPc    10 00.10  -0.4
         1.0s    11.50nm         4.0mb
                  eS     15 17.90
ASPA    21.15 212 iPc    10 38.90   2.5X
         0.9s    28.60nm         4.7mb
      Z  23s     0.20um         3.4MszX
ARMA    24.90 169 eP     11 13.00  -0.3
         0.6s     4.00nm         4.2mb
DZM     25.40 131 iPd    11 17.10  -1.0
STK     26.14 189 eP     11 24.50  -0.3
GUN     67.06 304 P      16 44.80  -0.2
PKI     67.33 303 P      16 47.50   0.8
KKN     67.51 303 P      16 47.80   0.1
DMN     67.60 303 P      16 48.40   0.1
GKN     68.12 303 P      16 51.60   0.1
DAG    108.74 356 ePdiff20 03.50 -10.2X
         0.3s     6.49nm
HFS    115.12 336 ePdiff20 35.00  -7.4X
         0.1s     0.70nm
CNCB   139.45 124 PKP   25 15.00  -4.8X
LPB    139.50 124 ePKP  25 24.00   4.3X
LPAZ   139.60 124 PKP   25 14.90  -5.2X
LPAZ   139.60 124 PKP   25 27.90   7.8X
PPD    147.40 149 (PKP) 25 33.00   0.4
     S.D. = 0.5  on  14 of  23 obs.
-----------------------------------
%  OCT  22, 1993  07h 19m 46.86± 0.97s
   42.829 N ± 8.0km    1.028 W ± 4.6km
   DEPTH =  10.0km  (geophysicist)
 PYRENEES                          (378)

BOH      0.27   3 Pg     19 52.60  -0.1
                  Sg     19 56.85
LHE      0.31  74 Pg     19 53.25  -0.1
                  Sg     19 58.36
ELYF     0.34   4 Pg     19 53.92   0.0
                  Sg     19 58.71
ATE      0.35  43 Pg     19 54.22   0.1
                  Sg     19 58.95
MADF     0.35  26 Pg     19 54.38   0.3
                  Sg     19 58.51
ESCF     0.42  53 Pg     19 55.26  -0.1
                  Sg     20 00.77
ELIZ     0.50 313 eP     19 56.80  -0.2
                  e      20 03.50
EGRA     0.82 140 eP     20 11.00   8.2X
                  e      20 29.50
ECRI     1.11 259 eP     20 07.90   0.1
                  e      20 22.80
     S.D. = 0.2  on   8 of   9 obs.
-----------------------------------
?  OCT  22, 1993  07h 53m 55.74± 6.73s
   32.367 S ±42.4km   71.772 W ±29.0km
   DEPTH =  10.0km  (geophysicist)
 NEAR COAST OF CENTRAL CHILE       (135)
      MD 3.8 (SAN).

ROCH     0.88 133 iP     54 12.89   0.1
                  iS     54 27.78
JACH     1.04 108 iP     54 15.40  -0.1
                  iS     54 31.64
LCCH     1.12 171 iP     54 16.52  -0.2
                  iS     54 32.25
PEL      1.20 131 iP+    54 18.15   0.0
                  iS     54 35.58
SAN      1.43 140 iP     54 21.87   0.1
LNV      1.61 169 iP     54 24.38   0.1
                  iS     54 47.54
     S.D. = 0.2  on   6 of   6 obs.
-----------------------------------
   OCT  22, 1993  08h 19m 27.08± 0.24s
   10.483 S ± 4.7km  161.359 E ± 5.0km
   DEPTH =  67.0km  ( 12 depth phases)
   5.0mb ( 26 obs.)
 SOLOMON ISLANDS                   (193)
      Mw 5.4 (HRV).
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 33S, 49C
      Centroid Location:
      Origin Time       08:19:29.9 0.4
      Lat 10.58S 0.04 Lon 161.50E 0.04
      Dep  56.9 3.5 Half-duration  1.2
      Moment Tensor;   Scale 10**16 Nm
        Mrr= 4.39 0.30  Mtt=-8.54 0.54
        Mff= 4.15 0.64  Mrt=-5.85 0.47
        Mrf=-7.09 0.49  Mtf= 3.36 0.37
       Principal Axes:
        T  Val= 13.33  Plg=45  Azm=114
        N      -2.51      39      256
        P     -10.83      20        3
      Best Double Couple:Mo=1.2*10**17
       NP1:Strike=137 Dip=42 Slip= 158
       NP2:        244     75       50

HNR      1.74 307 eP     19 57.00   1.4
                  eS     20 21.00
BKM      9.78 138 iPd    21 45.90  -1.5
                  iS     23 28.50
PVC      9.87 138 iPc    21 48.50  -0.2
DZM     12.51 158 iPc    22 24.40   0.2
                  iS     24 34.10
KVG     13.08 306 eP     22 41.00   9.3X
PMG     14.03 273 eP     22 48.50   4.4X
MDG     16.28 287 eP     23 17.70   4.7X
CTA     17.41 235 iPd    23 29.50   2.4
         1.5s   152.78nm         5.0mb
                  ipP    23 43.00
                  eS     26 42.50
WWKK    18.87 290 eP     23 45.10   0.2
ARMA    21.81 203 eP     24 15.50   0.2
         0.9s    26.00nm         4.6mb
                  epP    24 34.00  86kmX
                  e      25 10.00
CNB     27.03 202 eP     25 06.50   1.6
WR2     27.66 247 iPd    25 10.00  -0.8
         0.7s     8.40nm         4.5mb
                  e      25 31.00  94kmX
WRA     27.68 247 P      25 10.39  -0.6
         0.7s     7.70nm         4.4mb
STK     28.06 218 eP     25 14.40   0.1
                  e      25 36.70 101kmX
ASPA    29.27 240 eP     25 23.10  -2.2
         1.4s     5.30nm         4.0mb X
TOO     30.52 205 iPc    25 35.60  -0.6
         0.5s    16.00nm         5.0mb
KNA     32.15 257 eP     25 50.50  -0.1
WARB    36.32 240 eP     26 26.00  -0.4
BAL     45.99 237 iPc    27 45.00  -0.6
         0.6s    19.00nm         5.2mb
MRWA    46.22 239 eP     27 47.00  -0.5
         0.5s     7.00nm         4.8mb
BAG     48.39 303 eP     28 05.00   0.2
WKYJ    50.74 332 P      28 21.80  -0.6
IIDJ    50.80 335 eP     28 25.10   2.3X
TKSJ    51.27 331 iP     28 25.90  -0.5
MAT     51.60 336 (P)    28 27.00  -1.8
         0.5s     9.15nm         5.1mb
                  eS     35 36.00
MTMJ    51.80 336 P      28 29.00  -1.4
YONJ    52.53 331 P      28 35.10  -0.7
SSE     56.51 318 eP     29 18.00  13.1X
MDJ     61.92 335 eP     29 40.20  -1.8
         1.5s    50.00nm         5.4mb
                  pP     29 59.60  75km
CN2     63.12 332 eP     29 49.00  -0.9
```

22d 08h

```
      0.6s    30.00nm          5.5mb
    Z  24s     0.33um          4.4MszX
                eS    38 13.00
CSY   65.38 200 eP    30 10.20   5.9X
      1.4s    17.00nm          4.8mb
BJI   65.39 323 eP    30 03.50  -1.3
    Z  24s     0.64um          4.7MszX
                eS    38 36.00
XAN   66.60 314 P     30 11.80  -0.9
      0.7s     6.60nm          4.7mb
    Z  36s     0.42um          4.4MszX
                pP    30 29.50  66km
KMI   67.17 303 eP    30 17.00   0.2
      1.5s    40.00nm          5.2mb
SBA   67.41 179 iPd   30 18.00   0.9
HHC   68.66 322 eP    30 27.40   1.8
CD2   68.87 309 P     30 29.20   2.2
                S     39 18.00
BTO   69.47 321 eP    30 30.00  -0.5
LZH   71.22 314 eP    30 43.00   1.6
      1.5s    40.00nm          5.1mb
    Z  35s     0.64um          4.6MszX
                pP    30 59.00  58km
GTA   75.60 315 eP    31 07.50   0.7
      1.5s    32.00nm          5.0mb
                pP    31 25.50  66km
                sP    31 33.30
YAK   76.38 345 eP    31 11.80   1.3
      1.2s    75.00nm          5.5mb
                i     31 29.00  62km
SVW   78.98  20 eP    31 25.23   0.3
      0.6s    39.67nm          5.5mb
                epP   31 44.15  69km
SPA   79.58 180 iPc   31 23.70  -4.6X
      0.7s    39.06nm          5.4mb
                i     54 40.00
PMR   81.57  22 eP    31 39.00   0.5
PKI   82.60 300 P     31 44.50  -0.6
KLU   82.69  23 eP    31 45.59   1.0
IMA   83.17  17 eP    31 47.61   0.6
      1.2s     7.07nm          4.5mb
GKN   83.38 300 P     31 48.30  -0.6
MAW   83.61 202 P     31 49.00  -0.1
      0.8s    35.29nm          5.4mb
FBA   84.18  19 eP    31 50.31  -1.6
      0.7s     7.47nm          4.8mb
                epP   32 08.60  66km
ARN   86.23  51 eP    32 02.89   0.1
LGPM  86.29  47 eP    32 03.38   0.3
                epP   32 23.50  73km
LBFM  87.09  47 eP    32 07.45   0.3
                epP   32 24.88  62km
CMB   87.30  51 eP    32 07.96   0.0
      1.0s     3.85nm          4.5mb
ISA   88.17  53 eP    32 12.17  -0.1
      1.5s    20.68nm          5.1mb
                epP   32 31.66  70km
MEMM  88.31  51 eP    32 13.79   1.1
PEC   88.80  55 eP    32 14.98  -0.3
      1.7s    48.70nm          5.5mb
                epP   32 33.43  66km
BONR  88.87  51 eP    32 15.83   0.0
RMW   88.90  41 (P)   32 16.47   1.0
PLM   88.92  56 eP    32 15.57  -0.5
                epP   32 35.56  72km
GSC   89.41  54 eP    32 18.66   0.5
TPNV  90.22  53 eP    32 21.55  -0.4
      0.6s     2.29nm          4.6mb
NEW   92.15  41 eP    32 31.55   1.1
      1.1s    16.09nm          5.4mb
ARUT  92.58  52 eP    32 33.31   0.5
LRM   94.79  44 eP    32 42.60  -0.3
SOB1 150.45 131 ePKP  39 11.60   3.6X
     S.D. = 1.0  on  58 of  66 obs.
-----------------------------------
%  OCT  22, 1993  08h 20m 46.70± 0.71s
   40.033 N ± 5.6km   23.217 E ± 5.9km
   DEPTH =   5.0km  (geophysicist)
 GREECE                            (364)
      ML 2.0 (THE).

PAIG   0.37 106 ePg   20 54.08  -0.1
                eSg   21 00.04
LIT    0.56 277 ePg   20 57.80  -0.2
                eSg   21 06.16
THE    0.63 342 ePg   20 59.28   0.0
                eSg   21 08.64
SOH    0.79   7 ePg   21 02.60   0.0
                eSg   21 14.72
KNT    1.15 348 ePg   21 08.88   0.1
                eSg   21 25.24
AGG    1.22 214 ePb   21 10.04   0.1
     S.D. = 0.2  on   6 of   6 obs.
-----------------------------------
&  OCT  22, 1993  08h 37m 46.67s
   61.876 N          151.013 W
   DEPTH =  59.9km
 SOUTHERN ALASKA                   (  2)
      <AEIC>. ML 2.6 (AEIC).

SKT    0.27 293 eP    37 56.25  -0.4
                eS    38 04.39
SUA    0.43 163 iP    37 58.04  -0.1
                eS    38 07.93
PWA    0.58 112 P     37 59.40  -0.2
                S     38 09.70
CUT    0.64  33 iP    37 59.64  -0.6
NCG    0.72 230 iP    38 00.67  -0.7
                eS    38 12.82
CGLM   0.74 220 iP    38 00.90  -0.7
CRP    0.82 222 iPc   38 01.58  -1.1
                eS    38 14.61
CP2    0.85 224 iPd   38 02.18  -0.9
                eS    38 15.71
SPU    0.86 216 iP    38 02.38  -0.7
                eS    38 15.62
CKN    0.86 221 eP    38 02.64  -0.4
CKT    0.89 221 eP    38 02.54  -0.9
BGL    0.90 228 eP    38 03.10  -0.5
CKL    0.93 224 iP    38 03.26  -0.8
PLRM   0.94 107 eP    38 03.05  -1.0
                eS    38 17.06
PMR    0.94 107 iPc   38 02.80  -1.2
                eS    38 16.90
PMS    0.94 132 P     38 03.50  -0.6
                S     38 17.90
GHO    1.00  95 eP    38 04.44  -0.4
                eS    38 18.78
BKG    1.01 217 eP    38 04.15  -0.9
                iS    38 19.12
NKA    1.14 186 eP    38 08.55   1.8
SML    1.27  92 eP    38 07.47  -1.1
HUR    1.28  29 eP    38 07.69  -1.0
                eS    38 24.47
KNK    1.31 110 eP    38 07.94  -1.1
                eS    38 25.55
SLKM   1.43 164 eP    38 09.99  -0.7
RDT    1.47 208 eP    38 10.53  -0.8
DFR    1.52 213 eP    38 10.96  -1.1
MPA    1.61 149 eP    38 12.00  -1.1
NCT    1.61 216 eP    38 12.39  -1.0
REF    1.61 211 eP    38 12.78  -0.7
                eS    38 33.67
REF    1.61 211 eP    38 12.56  -0.9
TRF    1.62  12 eP    38 12.06  -1.4
                eS    38 32.44
PWL    1.64 127 eP    38 11.95  -1.8
RDW    1.65 213 eP    38 13.01  -0.9
RS2    1.65 212 eP    38 13.07  -0.9
RSO    1.65 212 eP    38 13.25  -0.7
KTH    1.68   1 eP    38 13.33  -1.0
                eS    38 34.54
RED    1.69 211 eP    38 13.90  -0.5
CFI    1.70 113 eP    38 12.69  -1.8
SCM    1.75  90 eP    38 13.96  -1.2
ILIM   2.04 209 eP    38 18.15  -1.1
TOA    2.30  82 P     38 21.70  -1.2
CNPM   2.36 183 eP    38 23.17  -0.6
VLZ    2.37 106 eP    38 21.88  -1.8
LTI    2.40 139 eP    38 21.36  -2.9
KLU    2.46  97 eP    38 23.12  -2.0
FID    2.46 115 eP    38 22.09  -3.0
OPT    2.48 207 eP    38 25.71   0.3
PDB    2.61 218 eP    38 25.88  -1.3
SDG    2.65  73 eP    38 26.38  -1.4
PAX    2.80  64 eP    38 28.41  -1.7
WRH    2.92  26 eP    38 29.25  -2.4
CCB    3.14  26 eP    38 31.43  -3.3
HDA    3.14  34 eP    38 31.84  -2.9
MLY    3.17   2 eP    38 32.74  -2.5
IL1    3.45  31 eP    38 36.31  -2.8
IMA    4.37 346 eP    38 49.41  -2.7
       55 obs. associated
-----------------------------------
%  OCT  22, 1993  08h 41m 08.02± 0.91s
   39.110 N ± 7.5km   27.571 E ± 9.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.8 (ISK).

IZM    0.75 199 ePg   41 22.50  -0.3
                eSg   41 35.00
DST    0.96  59 ePn   41 26.90   0.6
EZN    1.20 307 iPn   41 30.90   0.5
EDC    1.26  10 ePn   41 31.10  -0.2
BNT    1.27  12 ePn   41 31.00  -0.7
     S.D. = 0.8  on   5 of   5 obs.
-----------------------------------
   OCT  22, 1993  08h 42m 16.55± 0.16s
   54.835 S ± 5.3km   26.557 W ± 4.5km
   DEPTH =  33.0km  (normal)
   5.5mb ( 34 obs.)  5.5Msz ( 39 obs.)
 SOUTH SANDWICH ISLANDS REGION   (153)
      Mw 5.7 (HRV).
      CENTROID, MOMENT TENSOR    (HRV)
      Data Used: GDSN
      L.P.B.: 41S, 79C
      Centroid Location:
      Origin Time       08:42:16.7 0.2
      Lat 54.77S 0.02 Lon  26.16W 0.06
      Dep  15.0 BDY Half-duration  1.7
      Moment Tensor;   Scale 10**17 Nm
        Mrr=-2.99 0.08  Mtt= 3.86 0.09
        Mff=-0.87 0.11  Mrt=-1.80 0.33
        Mrf=-0.34 0.26  Mtf=-1.04 0.09
       Principal Axes:
        T  Val=  4.46  Plg=13  Azm=190
        N       -0.91      15       97
        P       -3.56      70      320
      Best Double Couple:Mo=4.0*10**17
       NP1:Strike=299 Dip=35 Slip= -63
       NP2:         88     59      -107

SNA   18.88 155 iPc   46 34.50  -1.7
      1.0s   254.00nm          5.4mb
NVL   23.10 148 iPc+  47 20.00   0.2
      2.0s   212.00nm          5.3mb
                e     47 34.00
                ePP   47 48.00
                ePPP  48 08.00
                e     49 06.00
                e     50 16.00
                ePcP  50 52.00
                iS    51 30.00
LPA   29.47 300 eP-   48 20.00   0.7
    Z  20s     5.67um          5.2Msz
RSTA  34.44 322 eP    49 02.00  -0.9
VAO2  34.92 327 eP    49 07.60   0.4
RFA   35.17 287 ePd   49 07.50  -1.7
VAO   35.26 326 eP    49 10.80   0.7
MRA   35.46 293 e(P)c 49 10.60  -0.9
TCA   35.70 295 iPd   49 13.00  -0.8
CACB  36.42 327 iPd   49 20.00   0.0
                e     49 31.40
                e     50 10.30
                e     50 35.50
MDZ   36.79 289 eP    49 22.50  -0.4
                i     50 42.20
CDCB  37.19 331 iPd   49 26.50   0.2
                e     50 46.90
                e     55 21.40
CFA   37.43 291 ePc   49 27.30  -1.0
PEL   37.60 287 iPd   49 30.00   0.3
      1.0s   385.00nm          6.2mb
BLE   37.64  75 iPd   49 30.00   0.1
      1.0s   130.00nm          5.7mb
PPD   37.66 321 iPd   49 30.60   0.4
RTLL  37.77 291 iPd   49 30.50  -0.6
RTCB  37.83 291 iPd   49 31.00  -0.7
TUH   38.37  75 iPc   49 36.50   0.5
      1.1s    60.00nm          5.3mb
CER   38.40  75 iPc   49 32.00  -4.3X
      1.5s   220.00nm          5.8mb
                S     51 45.50
RTRS  39.21 291 e(P)  49 44.00   1.0
SUR   39.98  76 iPd   49 53.50   3.8X
      1.4s   180.00nm          5.6mb
FSA   40.68 299 ePc   49 55.00  -0.2
MAW   40.92 144 P     49 57.00   0.3
      0.9s    62.50nm          5.3mb
SLA   41.54 300 eP    50 02.00  -0.5
```

```
POF    41.78  72 iPd   50 05.50   1.3
       0.6s    20.00nm          5.0mb
BAO    42.50 329 iPc   50 10.70   0.3
                i      50 29.00
                i      50 39.20
                i      51 17.30
BDFB   42.50 329 ePd   50 10.83   0.5
       0.7s    38.54nm          5.2mb
GRM    42.56  82 eP    50 07.00  -3.7X
       0.7s    42.00nm          5.3mb
                i      52 02.00
HJA    42.76 302 ePd   50 13.30   1.0
HVD    43.95  78 eP    50 20.50  -1.6
       1.2s    50.00nm          5.2mb
                i      52 08.20
FRS    44.50  77 iPd   50 26.40   0.1
       1.5s   111.11nm          5.5mb
                i      52 09.10
BOSA   45.42  77 eP    50 31.60  -2.1X
       1.0s    48.37nm          5.4mb
BLF    45.47  78 eP    50 30.00  -4.3X
                i      52 13.00
WIN    45.72  63 iPd   50 36.00  -0.4
       1.6s   100.00nm          5.5mb
SEK    46.89  78 iPd   50 36.70  -8.8X
       0.7s    44.00nm          5.6mb
                e      52 10.50
SOB1   46.92 340 iPc   50 45.00  -0.7
                e      50 57.50
SBA    47.32 184 eP    50 49.40   1.3
CCH    48.09 305 Pc    50 55.30   0.1
SLR    49.25  77 iPd   51 02.00  -1.9X
       0.8s    29.85nm          5.4mb
     Z 18s      7.56um          5.7Msz
CNCB   49.46 304 iPd   51 07.40   1.3
LPB    49.76 304 Pd    51 09.30   1.1
       1.2s   375.00nm          6.3mb
     Z 17s      3.40um          5.4MszX
                S      58 20.00
                LR     09 00.00
LPAZ   49.98 304 iPd   51 10.30   0.1
                S      58 22.00
                LR     08 54.00
BFT    50.28  78 eP    51 11.00  -0.9
       1.0s    30.00nm          5.3mb
ARE    51.49 300 iPd   51 21.70   0.5
BUL    53.87  73 iPc   51 37.30  -1.4
       1.1s    67.09nm          5.6mb
CSY    54.92 160 eP    51 53.50   7.7X
       0.8s    37.40nm          5.5mb
PAF    55.08 128 eP    51 55.00   7.9X
                eS     59 24.00
KRI    57.10  71 iPc   52 15.90  13.7X
LSZ    57.60  69 iPc   52 04.00  -1.6X
NNA    57.99 297 iPd   52 08.00  -0.3
       1.2s   101.56nm          5.8mb
DRV    58.40 174 eP    52 09.00  -1.5
                PP     54 30.00
                S      00 20.00
                SS     04 06.00
LIC    63.44  24 Pd    52 44.41  -0.7
       0.6s    85.00nm          6.0mb
     Z 21s      4.50um          5.6Msz
KIC    63.64  24 Pd    52 45.61  -0.8
       0.7s    72.00nm          5.9mb
TIC    63.84  24 Pd    52 47.07  -0.8
       0.7s    99.00nm          6.0mb
LKO    66.52  23 Pd    53 03.08  -2.0
       0.6s    80.50nm          6.0mb
MBO    69.43  10 iP    53 24.10   1.0
CAR    73.40 318 iPc   53 28.00 -19.1X
SDV    73.41 314 iPd   53 47.10  -0.2
TOV    73.88 315 eP    53 49.60  -0.2
NAI    73.90  68 PKP   53 52.00   1.8
     Z 20s      3.72um          5.7Msz
                PPP    58 12.00
                PKKP   03 40.00
THZ    82.35 195 eP    54 36.30   0.3
AAE    83.60  65 eP    54 46.00   2.9
TOO    87.71 174 iPd   55 03.80   0.9
       0.6s    19.00nm          5.5mb
MUN    87.80 149 eP    55 03.70   0.4
       1.0s    40.00nm          5.7mb
BAL    89.23 149 eP    55 10.70   0.5
       0.6s    13.00nm          5.4mb
ADE    89.67 168 iPd   55 13.90   1.6
IFR    89.91  18 iPc   55 17.00   3.8X
CNB    90.15 177 eP    55 15.60   1.1
       1.0s    45.00nm          5.7mb
MRWA   90.31 148 eP    55 15.70   0.4
       0.6s     4.00nm          4.9mb
NKM    91.74  17 iPc   55 24.50   3.1X
                i      55 39.00
EJIF   92.71  17 eP    55 28.81   3.0X
STK    93.04 170 eP    55 30.40   2.6X
EPRU   93.25  17 eP    55 31.22   2.9X
EVAL   93.61  16 eP    55 32.06   2.1
ELUQ   94.00  18 eP    55 33.34   1.6
EHOR   94.09  17 eP    55 34.54   2.5
EBAN   94.67  18 eP    55 36.02   1.2
ARMA   95.08 178 eP    55 37.70   0.3
       0.9s    11.00nm          5.3mb
ECRI   99.21  18 eP    55 50.45  -4.9X
ASPA  100.04 162 ePdiff56 01.80   2.1
       1.0s     7.80nm          5.2mb
     Z 22s      1.70um          5.5Msz
                e      00 15.80
MYNC  102.25 315 Pdiff 56 20.00  10.7X
     Z 19s      1.08um          5.4Msz
WRA   103.75 162 Pdiff 56 17.80   1.5X
       0.7s     1.80nm          5.0mb
HRV   104.28 327 Pdiff 56 30.00  12.0X
     Z 21s      1.57um          5.5Msz
BINY  105.44 324 PKP   00 50.00  13.2X
     Z 20s      1.14um          5.4Msz
MIAR  105.90 308 PKP   00 50.00  12.2X
     Z 21s      0.61um          5.1Msz
LBNH  105.96 328 PKP   00 50.00  12.4X
     Z 19s      1.66um          5.6Msz
YSNY  106.57 323 PKP   00 50.00  11.1X
     Z 20s      0.96um          5.3Msz
CBM   107.30 332 PKP   00 50.00   9.9X
     Z 19s      1.09um          5.4Msz
FVM   107.37 312 ePKP  00 54.56  14.0X
WMOK  108.49 304 PKP   00 50.00   7.2X
     Z 21s      0.78um          5.2Msz
GEC2  108.70  27 PKP   00 57.70  14.9X
       1.0s     2.42nm
                e      01 05.00
                e      01 08.40
KHC   108.94  27 ePKP  00 46.90   3.7X
     Z 20s      1.60um          5.6Msz
     N 20s      1.20um
     E 20s      0.10um
                e      00 58.00
GBA   109.07  93 PKP   00 45.00   0.7
PRU   109.97  27 ePKP  00 36.00  -9.0X
     Z 18s      1.30um          5.5Msz
     N 18s      1.00um
     E 18s      0.10um
ALQ   112.44 299 PKP   01 00.00   9.5X
     Z 19s      1.03um          5.4Msz
TUC   112.62 294 PKP   01 00.00   9.3X
     Z 20s      0.92um          5.4Msz
GLD   115.58 303 PKP   01 10.00  13.6X
     Z 19s      0.86um          5.4Msz
GOL   115.62 303 PKP   01 10.00  13.5X
     Z 21s      1.07um          5.4Msz
PV08  116.37 300 ePKP  00 57.62  -0.5
PV10  116.41 300 ePKP  00 57.39  -0.7
PEC   117.24 291 ePKP  00 59.34  -0.2
SRU   117.72 299 ePKP  00 59.33  -1.1
MSU   118.11 298 ePKP  01 01.55   0.3
GSC   118.12 292 PKP   01 01.86   0.7
RSSD  118.39 307 ePKP  01 00.51  -1.1
HFS   119.02  22 ePKP  01 00.40  -1.6
       0.5s     1.60nm
ISA   119.29 291 ePKP  01 02.95  -0.4
     Z 21s      0.83um          5.3Msz
NB2   119.34  20 PKP   01 01.80  -0.8
       0.9s     4.10nm
ULM   119.62 316 ePKP  01 06.00   2.6X
DUG   119.70 298 ePKP  01 04.42   0.3
     Z 19s      0.87um          5.4Msz
TNP   120.41 294 ePKP  01 05.91   0.3
NDI   120.70  83 ePKP  01 06.00  -0.2
HVU   120.86 300 ePKP  01 05.90  -0.4
BONR  120.90 293 ePKP  01 06.81   0.1
OBN   121.15  37 ePKPd 01 05.00  -1.2
       1.8s   108.00nm
     Z 20s      0.80um          5.4Msz
     E 20s      0.50um
                i      01 24.00
                ePP    02 28.00
                ePPP   05 20.00
                (SKKS)09 30.00
                eSKKKS10 44.00
                ePS    12 36.00
                ePPS   14 04.00
                eSS    19 04.00
                eSSS   24 10.00
                LR     40 00.00
SAO   121.71 290 PKP   01 20.00  12.1X
     Z 20s      0.66um          5.3Msz
CMB   122.07 292 ePKP  01 09.40   0.8
       1.6s    20.00nm
ARN   122.19 290 ePKP  01 09.29   0.5
COE   122.20 290 ePKP  01 09.08   0.3
MHC   122.24 290 ePKP  01 10.19   1.2
       1.5s    50.00nm
STAN  122.58 290 ePKP  01 11.15   1.7
FRB   122.64 339 ePKP  01 08.50  -0.2
       0.7s     7.00nm
BKS   122.95 290 ePKP  01 11.44   1.3
       1.1s    40.00nm
NTYM  123.56 290 ePKP  01 11.88   0.6
LRM   123.65 303 ePKP  01 02.10  -9.6X
ORV   123.77 292 ePKP  01 12.23   0.5
       2.0s    90.00nm
MIN   124.39 293 ePKP  01 13.56   0.4
       1.3s    20.00nm
DMN   124.44  90 PKP   01 13.00  -0.8
GKN   124.46  89 PKP   01 13.00  -0.7
PKI   124.59  90 PKP   01 13.20  -0.9
KKN   124.68  90 PKP   01 13.40  -0.7
WDC   125.06 292 ePKP  01 14.25   0.1
       1.5s    60.00nm
GUN   125.11  90 PKP   01 14.70  -0.5
CHTO  125.43 109 ePKPd 01 15.10  -0.4
       1.1s    28.56nm
KSH   127.84  73 PKP   01 21.50   1.7
     Z 20s      1.37um          5.6Msz
     N 18s      1.73um
     E 18s      1.81um
                PP     03 25.00
                eSKS   08 19.00
                SKKS   10 05.00
FRU   129.42  69 ePKP  01 14.00  -8.6X
                e      03 34.00
LSA   129.50  93 PKP   01 25.00   1.3
HON   130.68 247 PKP   01 30.00   4.5X
     Z 18s      0.94um          5.5Msz
DAG   131.43   2 iPKPd 01 25.50   0.2
       1.0s    29.00nm
SVE   131.73  47 iPKPd 01 27.00   0.6
       1.7s   240.00nm
                e      26 21.00
KMI   132.57 108 PKPc  01 29.50   0.2
     Z 20s      1.50um          5.7Msz
     N 14s      1.10um
     E 14s      0.70um
                sPKP   01 40.00
                ePP    03 50.50
                PKS    04 59.00
YKA   135.50 319 ePKP  01 32.60  -0.8
       1.2s    23.10nm
GYA   135.78 111 PKP   01 34.60  -0.6
     Z 20s      0.79um          5.4Msz
WMQ   137.29  77 PKP   01 31.50  -6.0X
CD2   137.61 104 PKP   01 38.00  -0.5
     Z 20s      0.94um          5.5Msz
                PP     04 22.00
GTA   141.40  91 ePKP  01 39.00  -6.2X
     Z 20s      1.15um          5.6Msz
     E 15s      0.41um
LZH   141.45  98 PKP   01 38.50  -6.9X
     Z 20s      0.45um          5.2Msz
XAN   142.84 105 PKP   01 44.30  -3.5X
WHN   143.11 115 PKPc  01 46.00  -2.2
     N 20s      1.23um
     E 20s      0.51um
                PP     04 52.00
INK   145.08 322 ePKP  01 50.00  -0.4
       1.0s   145.00nm
BALM  146.62 307 ePKP  01 51.82  -1.5
NJ2   146.64 119 PKPc  01 54.00  -0.1
     Z 18s      0.59um          5.4Msz
SSE   147.02 123 iPKP- 01 56.00   1.3
       1.0s    85.00nm
     Z 20s      1.80um          5.9Msz
     N 18s      0.80um
```

22d 09h

```
     E  18s      0.70um
                  sP    02 19.50
                  PcP   02 46.00
                  eS    09 20.00
                  ePS   09 38.00
TIY   147.47 105 PKPd  01 54.60  -0.8
     N  20s      1.84um
NRI   148.03  37 iPKPc 01 53.70  -1.5
      2.2s     32.00nm
     Z  19s      3.80um          6.2Msz
                  i     01 58.90
                  e     05 33.00
BTO   148.07  98 PKP   01 56.00  -0.3
     N  14s      0.26um
     E  14s      0.28um
KLU   148.40 307 ePKP  01 54.70  -1.5
                  ePKPbc02 00.39
TOA   148.68 308 ePKP  01 55.10  -1.5
                  e     02 01.60
TIA   148.95 112 ePKP  01 58.10   0.4
     Z  21s      0.61um          5.4Msz
     N  17s      0.78um
                  ePP   05 33.00
HHC   149.12  99 PKP   01 57.40  -0.6
     Z  20s      1.00um          5.6Msz
                  PP    05 39.00
PMR   149.92 306 ePKP  01 56.15  -2.2X
     Z  22s      0.81um          5.5Msz
                  ePKPbc02 03.00
FBA   149.96 313 ePKP  01 55.36  -3.0X
                  ePKPbc02 02.94
                  ePKPab02 09.75
KDC   150.52 298 ePKP  02 04.73   5.4X
IRK   151.18  75 ePKP+ 02 00.00  -0.6
      1.5s    131.00nm
                  e     02 10.00
                  e     02 17.00
BJI   151.18 105 ePKP  02 01.00   0.1
     Z  20s      0.90um          5.6Msz
     E  20s      1.47um
CRP   151.26 305 ePKP  01 58.09  -2.5X
                  ePKPbc02 06.20
                  ePKPab02 14.97
CP2   151.30 305 ePKP  01 58.10  -2.6X
                  ePKPbc02 06.88
KAGJ  151.42 137 PKP   02 08.00   6.4X
IMA   152.52 315 ePKP  01 58.38  -3.9X
                  ePKPbc02 09.58
                  ePKPab02 20.53
KUMJ  152.58 135 PKP   02 10.30   7.1X
TTA   153.31 308 ePKP  02 01.02  -2.4X
                  ePKPbc02 11.58
DL2   153.35 114 ePKP  02 05.00   0.9
     Z  15s      0.89um          5.7MszX
                  ePP   05 56.00
CIT   156.31  80 ePKP  02 08.50   0.7
                  e     02 37.00
CN2   158.82 110 PKPd  02 10.40  -0.5
     Z  18s      0.42um          5.3Msz
     N  18s      0.61um
     E  18s      0.62um
                  epPKP 02 27.00
                  PKPab 02 46.00
                  ePP   06 26.00
MAT   158.92 144 (PKP) 02 11.00  -0.3
     Z  20s      0.35um          5.2Msz
TIK   160.12  23 iPKP  02 08.00  -3.5X
      1.6s     52.00nm
                  i     02 53.00
                  i     06 34.00
ILT   161.54 326 iPKP  02 10.00  -3.0X
                  e     06 36.00
                  ePPP  10 30.00
MDJ   161.59 114 ePKP  02 13.40  -0.4
VLA   161.72 121 iPKPc 02 13.00  -0.9
                  e     02 23.00
                  i     06 45.00
YAK   165.71  50 ePKP  02 15.00  -2.1
      1.8s     49.00nm
                  e     07 07.00
YSS   169.66 135 ePKP  02 20.00  -0.3
                  e     03 35.00
                  e     07 22.00
                  e     11 31.00
                  e     28 20.00
PET   176.42 242 ePKP  02 18.00  -4.6X
                  e     07 58.00
```

```
     S.D. = 1.0  on 127 of 183 obs.
-----------------------------------
?  OCT  22, 1993  09h 07m 04.86± 5.00s
   67.560 N ±47.7km  161.814 W ±21.9km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ALASKA                (676)
      ML 2.9 (PMR).

ANM      3.34 207 e(P)  07 58.20   0.1
IMA      3.55 111 eP    08 01.00  -0.2
TTA      5.25 150 e(P)  08 24.70  -0.6
FBA      6.26 109 eP    08 38.80  -0.7
TOA      8.60 122 eP    09 13.70   1.4
     S.D. = 1.2  on   5 of   5 obs.
-----------------------------------
%  OCT  22, 1993  09h 46m 10.83± 1.70s
   40.469 N ±12.8km   23.160 E ± 9.8km
   DEPTH =  10.0km  (geophysicist)
 GREECE                         (364)
      ML 1.4 (THE).

THE      0.22 318 ePg   46 15.80   0.2
                  eSg   46 18.44
SOH      0.38  23 ePg   46 18.52  -0.2
                  eSg   46 24.24
OUR      0.64 102 ePg   46 23.60  -0.1
                  eSg   46 32.36
KNT      0.72 344 ePg   46 24.60  -0.4
                  eSg   46 34.48
SRS      0.73  27 ePg   46 25.52   0.4
     S.D. = 0.5  on   5 of   5 obs.
-----------------------------------
%  OCT  22, 1993  09h 50m 51.27± 1.62s
   14.251 N ±18.0km   93.012 W ±10.5km
   DEPTH =  33.0km  (normal)
 NEAR COAST OF CHIAPAS, MEXICO   ( 69)

TPX      0.98  48 iP    51 09.00   0.4
BVA      2.34  80 eP    51 28.99   0.5
IXG      2.48  91 eP    51 29.67  -0.8
SCX      2.50   8 iP    51 30.00  -0.5
YUP      3.11  91 eP    51 39.55   0.2
OXX      4.55 309 (P)   52 00.00   0.2
     S.D. = 0.6  on   6 of   6 obs.
-----------------------------------
%  OCT  22, 1993  10h 01m 41.46± 3.32s
   39.615 N ±25.3km   29.472 E ±17.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                         (366)
      ML 2.8 (ISK).

DST      0.65 269 ePg   01 54.30  -0.2
                  eSg   02 04.30
IZI      0.72   0 iPg   01 55.00  -0.7
                  eSg   02 05.00
EYL      1.09  29 ePn   02 02.00   0.0
HRT      1.22   7 ePn   02 04.00  -0.1
BNT      1.40 302 ePn   02 08.00   0.9
EDC      1.44 301 ePn   02 07.10  -0.4
ISK      1.48 348 ePn   02 09.00   0.9
MFT      2.05 306 ePn   02 16.00  -0.4
     S.D. = 0.7  on   8 of   8 obs.
-----------------------------------
   OCT  22, 1993  10h 06m 19.86± 2.00s
   52.529 N ± 7.1km  158.288 E ± 8.7km
   DEPTH = 105.7 ± 18.3 km
   4.8mb ( 30 obs.)
 NEAR EAST COAST OF KAMCHATKA   (218)

KUSJ    13.10 229 eP    09 16.20  -6.7X
ASAJ    13.36 237 eP    09 27.40   1.1
HOOJ    14.32 231 eP    09 37.10  -1.5
YAK     17.98 313 iPc   10 23.40  -0.6
         1.0s    70.00nm         4.9mb
     Z  20s      1.40um          4.2MszX
     N  18s      0.50um
NIIJ    20.41 229 eP    10 50.20   0.0
KAKJ    20.74 225 eP    10 53.30  -0.2
MAT     21.34 229 eP    10 59.00  -0.6
         0.8s    21.64nm         4.5mb
CHJJ    21.39 227 eP    11 00.20   0.1
MTMJ    21.49 230 eP    11 01.40   0.1
IIDJ    22.35 228 eP    11 11.10   1.5
WKYJ    24.46 231 eP    11 31.90   1.8
YONJ    24.72 235 eP    11 34.40   1.9
TKSJ    25.40 233 eP    11 41.50   2.8X
INK     34.98  37 eP    13 03.00  -0.1
```

```
         0.7s     2.00nm         4.1mb
DAG     50.96 359 iPd   15 11.20  -0.5
         0.6s    12.67nm         5.1mb
LRM     55.15  58 eP    15 44.90   1.4
GUN     57.86 275 P     16 01.00  -2.0
KKN     58.31 275 P     16 04.40  -1.6
         0.6s    17.00nm         5.3mb
PKI     58.39 275 P     16 04.80  -1.9
GKN     58.55 276 P     16 06.50  -1.0
ULM     60.00  45 eP    16 20.00   2.9X
GSC     60.01  70 eP    16 16.42  -1.0
RSSD    60.63  55 eP    16 21.11  -0.6
         0.7s     6.79nm         4.8mb
PV08    62.22  62 eP    16 32.30  -0.3
NB2     63.77 343 P     16 41.40  -0.7
         0.6s     8.50nm         4.9mb
HFS     64.14 341 eP    16 42.70  -1.8
         0.4s     5.00nm         4.8mb
KSB     69.81 351 ePd   17 19.70  -0.3
LTX     71.87  65 eP    17 31.76  -1.3
WIM     72.75 350 eP    17 37.00  -0.7
YRC     73.62 349 eP    17 41.70  -1.0
DLF     73.79 351 eP    17 43.50  -0.2
DCN     73.81 351 eP    17 43.80   0.0
YRH     74.04 349 eP    17 44.10  -1.1
KHC     74.37 337 eP    17 47.60   0.4
         1.3s    10.90nm         4.5mb
ENN     74.46 342 eP    17 48.00   0.4
         0.9s    14.20nm         4.8mb
GEC2    74.61 337 P     17 48.50  -0.2
         0.5s     1.79nm         4.2mb
                   e     17 50.00
                   e     17 54.40
WRA     75.12 203 P     17 51.00  -0.7
         0.8s     1.50nm         3.9mb
CDF     76.45 341 eP    17 58.20  -0.9
HAU     77.02 341 eP    18 03.00   0.8
         0.4s     3.40nm         4.5mb
FLN     77.48 346 eP    18 04.70   0.1
GRR     77.90 346 eP    18 07.20   0.2
         0.8s    24.60nm         5.1mb
LOR     78.21 343 iPd   18 08.80   0.1
         0.8s    15.05nm         4.9mb
LPF     78.28 346 eP    18 09.40   0.4
         0.6s    13.80nm         5.0mb
LBF     78.46 342 iPd   18 10.00  -0.1
         0.7s     6.40nm         4.5mb
SSF     78.47 343 iPd   18 10.40   0.3
AVF     78.76 343 eP    18 12.10   0.4
         0.7s    15.85nm         4.9mb
ASPA    78.80 203 iPd   18 12.30   0.2
         0.7s     4.20nm         4.4mb
SMF     78.81 342 eP    18 12.30   0.3
         0.7s     9.25nm         4.7mb
BGF     79.08 343 iPd   18 13.90   0.5
         0.5s     6.05nm         4.7mb
LPL     79.32 340 iPd   18 16.00   0.9
         0.7s     7.30nm         4.6mb
LPG     79.34 340 eP    18 16.20   1.0
         0.6s     6.75nm         4.6mb
TCF     79.45 343 iPd   18 16.10   0.6
         0.7s    14.65nm         4.9mb
MAF     79.45 343 iPd   18 16.40   0.9
         0.6s    23.80nm         5.2mb
MFF     79.53 345 iPd   18 16.60   0.7
         0.6s    15.85nm         5.0mb
LSF     79.60 344 eP    18 16.90   0.6
         0.7s    21.15nm         5.1mb
RJF     80.52 344 eP    18 22.80   1.6
CAF     80.79 343 iPd   18 23.90   1.3
         0.9s    36.55nm         5.2mb
LFF     81.01 344 iPd   18 24.90   1.2
LPO     81.18 344 iPd   18 25.80   1.2
         0.5s    28.45nm         5.3mb
EPF     82.93 344 iPd   18 35.20   1.4
         0.6s    13.25nm         5.0mb
POF    141.70 291 e(PKP)25 38.00  -2.0
CER    145.00 287 iPKPc 25 40.00  -5.6X
         0.6s    17.86nm
TUH    145.04 287 iPKPc 25 45.00  -0.6
         0.7s    21.00nm
     S.D. = 1.0  on  59 of  63 obs.
-----------------------------------
?  OCT  22, 1993  10h 15m 00.41± 0.99s
   39.114 N ± 9.7km   27.696 E ±11.3km
   DEPTH =  33.0km  (normal)
 TURKEY                         (366)
```

```
      ML 2.6 (ISK).

IZM     0.79 205 ePg   15 15.20   0.0
                 eSg   15 28.20
DST     0.87  56 ePn   15 16.30  -0.1
EZN     1.28 304 ePn   15 21.90  -0.1
KGT     1.37 347 iPn   15 23.50   0.1
     S.D. = 0.2  on   4 of   4 obs.
-----------------------------------
%  OCT  22, 1993  10h 23m 24.39± 0.74s
   39.875 N ± 6.2km   29.203 E ± 6.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.6 (ISK).

IZI     0.51  24 iPg   23 34.00  -0.7
                 eSg   23 42.00
DST     0.52 239 ePg   23 34.30  -0.6
                 eSg   23 43.30
EYL     1.01  46 ePn   23 43.50   0.0
ALT     1.08 139 ePg   23 45.10   0.3
EDC     1.13 295 ePn   23 46.10   0.5
ISK     1.19 355 ePn   23 47.00   0.4
     S.D. = 0.7  on   6 of   6 obs.
-----------------------------------
%  OCT  22, 1993  11h 09m 17.57± 2.65s
   40.633 N ±14.2km   30.161 E ±22.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.7 (ISK).

EYL     0.07 182 iPg   09 19.90  -0.1
HRT     0.42 297 ePg   09 26.00  -0.2
IZI     0.60 241 iPg   09 29.80   0.0
                 iSg   09 38.80
ISK     0.94 298 ePg   09 35.00  -0.5
CTT     1.41 292 ePg   09 44.00   0.7
     S.D. = 0.6  on   5 of   5 obs.
-----------------------------------
   OCT  22, 1993  11h 19m 22.74± 0.66s
   26.381 S ± 6.5km   27.404 E ± 7.8km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA          (584)
      mbLg 3.6 (BUL). ML 3.5 (PRE).

KSR     0.69 318 eP    19 36.20  -0.3
BFS     0.76 227 iPd   19 38.00   0.0
                 S     19 47.90
SLR     1.02  51 eP    19 43.00   0.4
                 S     19 55.20
SEK     1.94 174 eP    20 05.00   [illegible] 1X
                 S     20 20.30
BFT     2.47  74 eP    20 04.10   [illegible]
                 S     20 35.00
BLF     2.92 201 eP    20 09.10   [illegible]
                 S     20 46.50
FRS     3.83 208 eP    20 30.50   [illegible] 9X
                 S     21 13.50
KSD     4.50 157 eP    20 37.10   [illegible] 8X
                 S     21 33.60
BUL     6.31  10 iPn   20 59.00   [illegible]
                 iSn   22 05.80
                 iSg   22 41.20
GRM     6.95 186 eP    21 08 [illegible]
POF     7.24 244 eP    21 06 [illegible] 9X
                 S     22 35 [illegible]
SUR     8.29 222 iPd   21 28 [illegible]
                 S     23 0[illegible]
KRI     9.72  13 iPn   21 49 [illegible]
                 iSn   23 31 [illegible]
                 iSg   24 3[illegible]
CER     9.89 223 eP    21 4[illegible]
                 S     23 2[illegible]
TUH     9.94 224 e(P)  21 4[illegible]
                 S     23 2[illegible]
WIN    10.12 290 eP    21 4[illegible]
     S.D. = 1.1  on   8 of [illegible]
-----------------------------------
?  OCT  22, 1993  11h 39m 2[illegible]
   41.943 N ±59.1km   26.55[illegible]
   DEPTH =  10.0km  (geophys[illegible]
 GREECE-BULGARIA BORDER REGION [illegible]
      ML 3.1 (ISK).

DMK     0.90  97 iPg   39 38 [illegible]
                 iSg   39 52 [illegible]
MFT     1.28 155 ePn   39 45 [illegible]
KGT     1.59 159 iPn   39 49.50   0.0
CTT     1.61 119 ePn   39 50.00   0.1
     S.D. = 0.2  on   4 of   4 obs.
-----------------------------------
?  OCT  22, 1993  11h 51m 53.88±19.22s
   33.411 S ±18.0km   73.059 W ±154.km
   DEPTH =  33.0km  (normal)
 OFF COAST OF CENTRAL CHILE        (134)
      MD 4.0 (SAN).

LCCH    1.25  93 iP    52 14.58  -0.5
                 iS    52 30.98
LNV     1.48 112 iP    52 17.80  -0.6
                 iS    52 36.30
ROCH    1.77  76 iP    52 22.56  -0.4
                 iS    52 45.72
TACH    1.79  98 iP    52 22.29  -0.7
                 iS    52 44.65
SAN     2.00  92 iP    52 26.47   0.4
                 iS    52 51.74
PEL     2.01  83 iP    52 26.50   0.4
                 iS    52 52.06
PCH     2.14  96 iP    52 27.86  -0.2
                 iS    52 54.38
CACH    2.17 110 iP    52 29.24   0.8
JACH    2.19  71 iP    52 28.59  -0.2
                 iS    52 55.99
     S.D. = 0.6  on   9 of   9 obs.
-----------------------------------
%  OCT  22, 1993  12h 12m 47.29± 1.00s
   40.998 N ±10.7km   24.338 E ± 6.4km
   DEPTH =   5.0km  (geophysicist)
 AEGEAN SEA                        (365)
      ML 2.1 (THE).

SRS     0.58 282 ePg   12 58.64  -0.2
                 eSg   13 08.12
OUR     0.72 202 ePg   13 01.80   0.2
                 eSg   13 11.20
SOH     0.77 257 ePg   13 02.04  -0.6
                 eSg   13 13.24
KNT     1.10 279 ePg   13 09.12   0.7
                 eSg   13 24.68
ALN     1.30  94 ePb   13 11.64  -0.1
                 eSb   13 28.56
     S.D. = 0.7  on   5 of   5 obs.
-----------------------------------
%  OCT  22, 1993  12h 14m 56.54± 0.85s
   39.271 N ± 6.6km   27.783 E ± 8.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.6 (ISK).

DST     0.73  63 ePg   15 11.20   0.2
IZM     0.96 205 ePg   15 14.80  -0.1
                 eSg   15 30.00
EDC     1.08   3 ePn   15 16.10  -0.7
BNT     1.09   6 ePn   15 17.00   0.0
KGT     1.24 343 iPn   15 20.00   0.5
EZN     1.26 297 iPn   15 19.90   0.0
     S.D. = 0.5  on   6 of   6 obs.
-----------------------------------
%  OCT  22, 1993  12h 41m 09.42± 0.82s
   39.139 N ± 6.4km   27.582 E ± 8.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.8 (ISK).

IZM     0.78 199 ePg   41 24.50  -0.2
                 eSg   41 37.50
[illegible]     0.94  60 ePn   41 27.70   0.4
[illegible]     1.19 306 iPn   41 31.90   0.3
[illegible]     1.23  10 ePn   41 32.10  -0.1
[illegible]     1.24  12 ePn   41 32.00  -0.5
[illegible]     1.33 351 iPn   41 34.00   0.1
     S.D. = 0.4  on   6 of   6 obs.
-----------------------------------
%  [illegible] 22, 1993  12h 59m 45.23± 0.52s
   44.432 N ± 4.6km   7.256 E ± 5.2km
   DEPTH =   5.0km  (geophysicist)
 NORTHERN ITALY                    (545)
      ML 2.2 (GEN).

[illegible]     0.13 303 P     59 48.12   0.1
                 S     59 49.95
[illegible]     0.19 165 P     59 51.31   0.1
                 S     59 51.83
ENR     0.24 150 P     59 50.14   0.1
                 S     59 53.35
BHB     0.41   1 P     59 53.62   0.2
                 S     59 59.20
ROB     0.46 107 P     59 54.84   0.3
                 S     00 01.14
RRL     0.59 326 P     59 56.96  -0.2
IMI     0.69 139 P     59 58.85  -0.2
FIN     0.72 108 P     59 59.65   0.0
PCP     0.93  83 P     00 03.14  -0.3
     S.D. = 0.2  on   9 of   9 obs.
-----------------------------------
   OCT  22, 1993  13h 10m 15.50± 0.32s
   48.991 N ± 3.5km  128.772 W ± 4.9km
   DEPTH =  10.0km  (geophysicist)
   4.6mb ( 23 obs.) 4.3Msz (  2 obs.)
 VANCOUVER ISLAND REGION           ( 25)

MCW     3.94  92 eP    11 16.69  -0.6
GMW     4.25 108 eP    11 20.40  -1.3
BMW     4.51 122 eP    11 23.39  -2.0
RMW     4.90 106 eP    11 30.18  -0.9
LON     5.19 113 eP    11 34.28  -0.8
SHW     5.23 120 eP    11 34.75  -1.0
VGB     6.46 120 eP    11 52.10  -0.8
DPW     7.12  95 ePc   12 00.47  -1.8
NEW     7.76  91 eP    12 09.12  -2.0
YBH     8.42 147 eP    12 21.21   0.8
        1.0s    60.00nm          5.8mb X
FHC     8.86 156 eP    12 25.48  -1.0
LBFM    9.05 145 eP    12 29.35   0.0
LGPM    9.11 150 eP    12 30.13   0.2
KMPM    9.19 157 eP    12 30.79  -0.3
WDC     9.50 150 eP    12 35.11  -0.2
LMEM    9.88 146 eP    12 41.47   0.8
MIN    10.03 147 eP    12 42.96   0.2
        1.3s   160.00nm          6.3mb X
ORV    10.77 148 eP    12 52.63  -0.1
        1.0s    50.00nm          5.8mb X
NTYM   11.48 155 eP    13 01.50  -0.8
LRM    11.50 100 eP    13 00.70  -2.3
HMR    11.95 152 eP    13 08.73   0.1
BKS    12.08 154 eP    13 09.64  -0.8
CMB    12.52 148 eP    13 19.40   2.9
        1.1s    20.00nm          5.3mb X
MHC    12.74 153 eP    13 20.19   0.6
        2.6s   420.00nm          6.2mb X
ARN    12.77 153 eP    13 18.90  -0.9
COE    12.81 154 P     13 20.20  -0.2
SAO    13.34 154 eP    13 26.89  -0.4
        1.3s    40.00nm          5.3mb X
HVU    13.34 117 ePc   13 28.84   1.3
MEMM   13.38 144 eP    13 32.05   4.3X
BONR   13.38 142 eP    13 29.11   0.9
TNP    13.73 138 eP    13 33.51   0.8
        0.8s    11.73nm          4.8mb
BALM   14.32 332 eP    13 39.27  -0.9
DUG    14.35 122 eP    13 40.97   0.2
        0.8s    24.95nm          4.9mb
PHAM   14.51 152 eP    13 43.42   0.6
TPNV   15.10 138 eP    13 51.43   0.8
        0.8s    12.70nm          4.4mb
BCH    15.21 152 eP    13 51.00  -1.0
ISA    15.32 147 eP    13 53.80   0.4
        0.9s    26.84nm          4.6mb
YKA    15.65  25 eP    13 56.90  -0.5
        0.7s    27.70nm          4.6mb
EMUT   15.74 119 (P)   14 00.50   1.5
ARUT   15.76 130 eP    13 59.05  -0.2
ABL    15.80 150 eP    13 58.47  -1.2
KLU    15.82 329 eP    13 58.54  -1.1
MSU    15.89 125 eP    14 00.93   0.1
GSC    16.28 143 eP    14 06.44   0.7
TOA    16.34 330 eP    14 10.80   4.5X
SRU    16.38 120 eP    14 07.54   0.4
SSK    16.90 147 (P)   14 13.41  -0.3
PWA    17.35 325 eP    14 20.00   1.0
        0.8s    18.20nm          4.3mb
PEC    17.38 146 eP    14 20.16   0.5
        1.0s    38.42nm          4.5mb
PV09   17.59 119 eP    14 22.80   0.3
RSSD   17.66  97 eP    14 22.61  -0.6
        0.7s    60.73nm          4.8mb
PV10   17.73 119 eP    14 25.09   0.9
PV08   17.82 118 eP    14 25.32  -0.1
PLM    17.98 146 eP    14 26.96  -0.2
CRP    18.03 322 eP    14 27.40  -0.2
```

22d 13h

```
FBA     18.89 335 eP    14 37.64  -0.3
        1.3s    37.58nm          4.4mb
GOL     19.08 110 eP    14 41.28   0.6
        0.9s    20.91nm          4.4mb
GLD     19.14 110 eP    14 41.75   0.4
        1.2s    32.38nm          4.4mb
SVW     19.42 319 eP    14 42.66  -1.8
        0.9s    34.16nm          4.6mb
INK     19.52 355 ePc   14 46.00   0.5
        1.0s    12.00nm          4.1mb
ULM     21.26  74 ePc   15 06.50   2.7
TUC     21.45 134 eP    15 07.41   1.4
        1.1s    15.02nm          4.3mb
IMA     21.46 332 eP    15 05.32  -0.5
        0.9s    10.02nm          4.2mb
ALQ     21.63 122 ePd   15 08.44   0.5
        1.2s    42.34nm          4.7mb
FCC     22.42  51 eP    15 18.00   2.7
WMOK    26.28 112 eP    15 52.70   0.0
        0.9s    27.60nm          4.9mb
TUL     27.39 106 iP    16 03.80   1.1
LTX     27.43 126 eP    16 02.30  -1.1
FVM     29.62  97 eP    16 23.56   0.7
        0.6s    32.94nm          5.3mb
ELC     30.80  97 eP    16 32.37  -0.9
OXF     32.34 102 eP    16 46.74  -0.1
JAQ     32.80  61 eP    16 52.00   1.4
PWLA    32.92 100 eP    16 51.01  -0.9
GAC     35.64  75 eP    17 15.50   0.3
PRM     37.19  96 eP    17 27.85  -0.5
JSC     37.79  95 eP    17 32.41  -1.0
LHS     37.97  94 eP    17 34.33  -0.6
DAG     47.13  17 iPd   18 49.80   0.8
        0.6s     4.67nm          4.8mb
MAT     65.29 298 eP    20 58.00  -1.5
HFS     67.05  19 eP    21 10.00  -0.4
        0.4s     1.30nm          4.4mb
      Z 18s      0.14um          4.2Msz
                  LR    45 30.00
MOX     75.10  25 eP    22 07.80   8.8X
        0.9s     9.10nm          4.8mb
      Z 19s      0.20um          4.4Msz
BRG     75.52  23 iP    22 16.80  15.5X
        1.3s    23.00nm
OBN     75.56   9 ePd   22 20.50  19.0X
        1.3s    36.00nm
KSP     76.14  22 eP    22 05.80   0.9
KHC     77.01  24 eP    22 11.50   1.7
        1.0s     5.40nm          4.6mb
                  e     22 19.30
                  e     22 27.00
GEC2    77.31  24 PKP   22 12.30   0.8
        1.0s     2.41nm          4.3mb
                  e     22 18.50
                  e     22 20.30
                  e     22 30.80
                  e     34 02.10
                  e     34 21.50
ZST     78.79  22 e(P)  22 21.00   1.4
BUL    145.98  40 ePKP  30 05.00   8.6X
        1.2s    15.63nm
SNA    147.19 150 iPKPd 30 04.50   7.9X
        1.0s    60.00nm
NVL    151.47 154 (PKP) 30 08.00   4.8X
     S.D. = 1.1  on  82 of  90 obs.
-------------------------------------
*  OCT  22, 1993  13h 14m 56.80± 1.49s
   26.833 S ± 6.7km   72.285 W ±18.2km
   DEPTH =  33.0km  (normal)
 OFF COAST OF NORTHERN CHILE      (121)

RTRS     4.15 144 e(P)  16 09.50  10.1X
                  S     16 56.00
RTCB     5.55 148 eP    16 19.80   0.5
RTLL     5.59 144 ePd   16 19.00  -0.8
FSA      5.67  84 ePc   16 20.50  -0.4
RTPR     6.14 126 eP    16 24.00  -3.6X
PEL      6.44 168 iPc   16 33.50   1.7
SLA      6.47  73 eP    16 33.00   0.6
HJA      7.20  61 ePc   16 43.00   0.5
YJA      7.73  55 e(P)  16 54.50   4.3X
MRA      7.98 136 e(P)c 16 49.40  -3.9X
TCA      8.09 126 eP    16 51.00  -4.0X
RFA      8.56 158 e(P)  17 00.00  -1.5
                  S     19 20.00
CNCB    10.74  23 eP    17 32.00   0.0
LPB     10.96  22 eP    17 38.00   3.2X
LPAZ    11.18  21 P     17 37.50  -0.5
     S.D. = 1.1  on   9 of  15 obs.
-------------------------------------
*  OCT  22, 1993  13h 21m 13.41± 0.77s
    6.737 S ±10.7km   91.884 E ±12.1km
   DEPTH =  10.0km  (geophysicist)
   4.6mb (  6 obs.)
 SOUTH INDIAN OCEAN               (425)

IPM     14.48  39 eP    24 40.20  -0.3
LEM     15.62  91 iPd   24 58.00   2.4
NNT     20.72  22 eP    25 54.30  -2.5
NST     23.72  20 eP    26 28.50   2.0
GBA     24.78 325 Pd    26 38.40   1.5
        1.1s     2.00nm          3.7mb
CHTO    26.33  15 eP    26 51.50   0.1
PKI     34.68 350 P     28 05.20  -0.6
DMN     34.77 349 P     28 06.80   0.3
KKN     34.91 350 P     28 07.30  -0.4
GUN     34.93 351 P     28 07.70  -0.3
GKN     35.24 349 P     28 10.50   0.1
WARB    38.34 124 eP    28 35.60  -0.9
WRA     43.21 112 P     29 16.50  -0.2
        0.5s     6.80nm          4.7mb
WR2     43.23 112 iPd   29 16.40  -0.4
        0.5s     9.80nm          4.8mb
LZH     44.05  14 eP    29 22.50  -0.9
        1.4s    26.00nm          4.9mb
      Z 16s      0.29um          4.3MszX
                  sP    29 31.00
BJI     51.66  24 eP    30 22.50   0.0
        1.4s    12.00nm          4.6mb
STK     52.58 125 eP    30 28.70  -1.0
GEC2    87.31 320 P     34 11.70   9.8X
        0.9s     0.99nm          4.1mb
                  e     34 18.10
KHC     87.46 320 eP    34 02.60   0.1
                  e     34 18.00
CNCB   149.28 220 PKP   41 07.20   6.0X
LPB    149.56 220 PKP   41 10.00   8.5X
LPAZ   149.76 221 PKP   41 02.70   0.7
MEO    150.47  18 iPKPd 41 06.90   5.1X
     S.D. = 1.2  on  19 of  23 obs.
-------------------------------------
%  OCT  22, 1993  13h 30m 44.12± 1.06s
   40.815 N ± 9.4km   29.646 E ± 8.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 2.8 (ISK).

HRT      0.02  66 iPg   30 46.00  -0.1
IZI      0.50 196 ePg   30 54.00  -0.2
                  eSg   31 02.00
ISK      0.51 300 ePg   30 53.00  -1.5
CTT      0.98 290 ePn   31 04.00   1.3
DMK      1.74 306 ePn   31 15.00   0.4
     S.D. = 1.4  on   5 of   5 obs.
-------------------------------------
%  OCT  22, 1993  13h 36m 00.12± 0.61s
   41.058 N ± 8.1km   28.705 E ± 4.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 2.8 (ISK).

CTT      0.23 293 iPg   36 05.00   0.0
ISK      0.27  88 iPg   36 05.50  -0.3
                  eSg   36 10.00
HRT      0.77 108 ePn   36 14.00  -1.1
IZI      0.93 141 ePn   36 18.00   0.1
EDC      0.96 222 ePn   36 18.10  -0.2
DMK      1.04 317 ePn   36 20.00   0.2
MFT      1.11 256 ePn   36 21.00   0.0
EYL      1.21 114 ePn   36 24.00   1.3
     S.D. = 0.8  on   8 of   8 obs.
-------------------------------------
   OCT  22, 1993  14h 02m 16.16± 0.74s
   42.295 N ± 5.4km  122.024 W ± 7.6km
   DEPTH =   5.0km  (geophysicist)
 OREGON                           ( 32)
      ML 3.2 (GS). Felt in the Klamath
      Falls area.

LHEM     0.68 192 P     02 30.61   0.8
LGMM     0.71 168 P     02 31.19   0.8
LASM     0.77 154 P     02 32.00   0.2
LMPM     0.81 187 P     02 32.88   0.3
LBFM     0.95 174 eP    02 35.27   0.4
LGBM     0.96 188 P     02 34.34  -0.7
LBKM     1.30 202 P     02 41.00   0.2
KOMM     1.47 227 P     02 44.36   0.9
LGPM     1.51 204 eP    02 43.40  -0.6
                  eS    03 02.36
WDC      1.76 193 eP    02 47.59   0.1
LMEM     1.79 169 eP    02 47.15  -0.9
LDBM     1.87 174 P     02 53.60   4.4X
FHC      2.10 225 eP    02 51.63  -0.8
KMPM     2.45 221 (P)   02 57.55   0.0
ORV      2.77 172 eP    03 00.90  -1.1
VGB      3.34  15 (P)   03 10.52   0.3
     S.D. = 0.7  on  15 of  16 obs.
-------------------------------------
%  OCT  22, 1993  14h 12m 22.03± 0.87s
   39.688 N ± 8.0km   29.427 E ± 7.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 2.7 (ISK).

DST      0.62 263 ePg   12 34.00  -0.6
                  eSg   12 44.50
IZI      0.65   3 iPg   12 34.50  -0.6
                  eSg   12 44.00
ALT      0.82 140 ePg   12 38.10   0.1
                  eSg   12 49.10
EYL      1.04  32 ePn   12 41.90   0.2
EDC      1.37 299 ePn   12 48.10   1.0
     S.D. = 0.9  on   5 of   5 obs.
-------------------------------------
?  OCT  22, 1993  14h 22m 49.80± 0.93s
   44.380 N ± 8.0km    7.325 E ±16.2km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                   (545)
      ML 1.8 (GEN).

STV      0.14 180 P     22 53.05  -0.1
                  S     22 55.24
ENR      0.17 156 P     22 53.73   0.0
                  S     22 56.07
PZZ      0.20 308 P     22 54.37   0.0
                  S     22 57.39
BHB      0.46 355 P     22 59.22   0.0
                  S     23 05.36
     S.D. = 0.1  on   4 of   4 obs.
-------------------------------------
%  OCT  22, 1993  14h 44m 22.45± 2.73s
   41.678 N ±15.7km   27.409 E ±19.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 3.0 (ISK).

DMK      0.30  61 iPg   44 28.50  -0.2
                  eSg   44 33.50
MFT      0.90 186 ePg   44 40.00   0.3
CTT      0.93 124 ePg   44 39.90  -0.4
EDC      1.37 165 ePn   44 47.00  -0.6
ISK      1.38 116 ePn   44 48.90   1.1
HRT      1.91 116 ePn   44 55.00  -0.3
     S.D. = 0.8  on   6 of   6 obs.
-------------------------------------
%  OCT  22, 1993  14h 53m 24.16± 1.08s
   39.532 N ±11.6km   28.996 E ± 7.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 2.8 (ISK).

DST      0.29 285 iPg   53 29.50  -0.8
                  eSg   53 36.00
IZI      0.88  24 ePn   53 40.90  -0.3
ALT      0.99 119 ePn   53 43.10   0.1
EYL      1.36  40 ePn   53 49.00  -0.3
MFT      1.82 314 ePn   53 57.00   1.2
     S.D. = 1.1  on   5 of   5 obs.
-------------------------------------
*  OCT  22, 1993  14h 59m 57.36± 0.93s
    5.936 S ± 7.6km  146.053 E ±11.3km
   DEPTH =  10.0km  (geophysicist)
   3.7mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY     0.31 195 eP    00 04.70   0.7
MDG      0.73 338 ePc   00 11.90   0.2
LAT      1.19 128 eP    00 19.80   0.3
MNDI     2.39 265 eP    00 41.50   4.1X
WWKK     3.34 313 eP    00 56.10   5.4X
PMG      3.62 162 eP    00 54.00  -0.6
```

```
WR2    17.98 218 iPd   04 08.60  -0.5
       0.6s     2.50nm          3.5mb
ASPA   21.16 212 iPc   04 48.20   3.1X
       0.7s     4.10nm          3.9mb
     S.D. = 0.8  on   5 of   8 obs.
-----------------------------------
&  OCT  22, 1993  15h 15m 07.79s
   63.960 N          149.494 W
   DEPTH = 142.7km
   4.0mb (  3 obs.)
 CENTRAL ALASKA                  (  1)
      <AEIC>.

BWN     0.21   3 ePd   15 27.17   1.6
MCK     0.34 132 iPc   15 27.57   1.5
                eS     15 42.43
TRF     0.62 215 iPc   15 29.07  -0.4
                eS     15 44.74
RND     0.63 153 iPc   15 28.69  -0.7
                eS     15 45.34
NEA     0.65  16 iPd   15 28.77  -0.6
                eS     15 45.02
KTH     0.75 238 iPd   15 29.87  -0.4
                eS     15 46.13
WRH     0.80  49 ePd   15 30.05  -0.4
HUR     0.99 184 iPc   15 31.42  -0.6
CCB     1.01  46 iPd   15 31.69  -0.5
MDM     1.14  28 iPd   15 32.96  -0.5
FBA     1.20  37 eP    15 32.99  -1.0
HDA     1.20  67 ePd   15 33.46  -0.6
                eS     15 52.91
MLY     1.20 334 iPd   15 33.31  -0.8
                eS     15 52.60
DHY     1.30 132 iPc   15 34.75  -0.5
GLM     1.38  41 iPd   15 35.34  -0.5
                eS     15 55.97
ILB     1.40  53 iPd   15 35.32  -0.7
                eS     15 55.96
IL1     1.40  53 iPd   15 35.32  -0.7
CUT     1.60 193 iPc   15 37.47  -0.7
DJE     1.68  86 eP    15 38.54  -0.6
                eS     16 01.80
THY     1.75 106 eP    15 40.46   0.4
PAX     2.06 117 eP    15 43.45  -0.3
SKT     2.19 206 eP    15 44.09  -1.2
                eS     16 11.88
GHO     2.21 173 iPc   15 44.91  -0.6
SML     2.22 166 iPc   15 44.81  -0.8
                eS     16 13.92
SDG     2.29 127 eP    15 45.82  -0.7
PRP     2.31  46 ePd   15 46.10  -0.7
                eS     16 14.78
PWA     2.32 185 P     15 46.50  -0.3
SCM     2.35 154 ePc   15 46.32  -1.0
                eS     16 17.27
PLRM    2.38 176 ePc   15 46.58  -0.9
                eS     16 18.27
PMR     2.38 176 ePc   15 46.22  -1.3
                eS     16 14.75
TOA     2.40 139 P     15 47.20  -0.6
DOT     2.43  95 ePd   15 47.16  -1.0
SUA     2.57 193 eP    15 49.44  -0.6
                eS     16 20.89
KNK     2.60 169 ePc   15 49.42  -0.9
TZL     2.67 134 eP    15 51.57   0.4
IM3     2.72 320 iPd   15 50.85  -1.0
IMA     2.76 322 ePd   15 51.16  -1.3
NCG     2.84 207 eP    15 52.28  -1.3
CFI     2.90 163 eP    15 52.97  -1.1
CGLM    2.90 205 eP    15 53.16  -1.1
TMW     2.97  99 eP    15 54.00  -1.0
CRP     2.97 206 eP    15 53.76  -1.4
                eS     16 28.97
KLU     2.97 145 eP    15 53.70  -1.5
CP2     2.99 206 ePc   15 54.12  -1.4
CKN     3.01 206 eP    15 55.88   0.2
BGL     3.02 208 eP    15 55.27  -0.5
SPU     3.03 204 eP    15 55.61  -0.3
CKT     3.04 206 eP    15 56.00   0.0
CKL     3.07 207 eP    15 55.63  -0.8
TTA     3.10 253 ePd   15 55.44  -1.4
PWL     3.16 170 eP    15 56.52  -1.0
FYU     3.17  33 eP    15 56.66  -0.9
BKG     3.17 205 eP    15 57.77   0.0
VLZ     3.19 151 eP    15 55.97  -1.9
                eS     16 33.30
VZW     3.22 154 eP    15 56.62  -1.6
NKA     3.33 195 eP    16 00.54   0.9
SLKM    3.48 186 eP    16 00.69  -1.1
MPA     3.48 179 iPc   16 00.41  -1.3
FID     3.51 155 eP    16 00.81  -1.3
BC3     3.57 101 iPd   16 01.56  -1.4
GLB     3.64 131 eP    16 03.34  -0.5
RDT     3.66 203 eP    16 03.27  -0.9
DFR     3.69 205 eP    16 03.79  -0.8
KNIM    3.72 166 eP    16 02.84  -2.0
NCT     3.77 207 eP    16 05.11  -0.5
REF     3.79 205 eP    16 05.08  -0.9
RDW     3.82 205 eP    16 05.47  -0.9
RS2     3.83 205 eP    16 05.58  -0.9
RSO     3.83 205 eP    16 05.58  -0.9
HIN     3.84 157 eP    16 04.95  -1.5
CVA     3.85 151 eP    16 05.13  -1.4
SEW     3.87 180 eP    16 05.62  -1.2
RED     3.87 205 eP    16 06.65  -0.3
LTI     4.01 168 eP    16 06.78  -1.9
SGAM    4.01 148 eP    16 07.20  -1.5
BM3     4.02  28 iPc   16 07.79  -1.1
NNL     4.02 193 eP    16 09.10   0.2
SVW     4.03 228 eP    16 07.06  -1.9
MTU     4.08 167 eP    16 09.46  -0.2
ILIM    4.22 204 eP    16 10.40  -1.2
RAGM    4.24 146 eP    16 11.37  -0.4
INE     4.26 205 eP    16 11.16  -1.0
INW     4.27 205 eP    16 13.08   0.9
CRQM    4.37 134 eP    16 12.40  -1.3
HMT     4.39 144 eP    16 12.91  -0.8
BALM    4.43 128 eP    16 13.54  -0.8
HOM     4.44 194 eP    16 11.50  -2.8
TGL     4.47 133 eP    16 13.41  -1.5
CNPM    4.53 191 eP    16 13.99  -1.6
OPT     4.67 204 eP    16 16.50  -1.0
WAX     4.70 136 eP    16 15.90  -2.0
PDB     4.74 210 eP    16 17.34  -1.1
CTGM    4.83 125 eP    16 20.41   0.6
YAH     5.12 131 eP    16 22.78  -1.0
CDD     5.43 203 eP    16 26.45  -1.2
SYI     5.55 196 eP    16 27.80  -1.4
INK     7.79  49 eP    16 58.50  -1.0
        0.6s     3.00nm          4.1mb X
YKA    15.67  80 eP    18 41.20  -0.4
        0.7s     4.90nm          3.9mb
EKA    58.23  22 Pc    24 47.60  -1.0
        0.4s     1.90nm          4.4mb
GEC2   66.77  12 P     25 43.80  -1.4
        0.4s     0.50nm          3.7mb
                  e    25 44.80
     100 obs. associated
-----------------------------------
&  OCT  22, 1993  15h 18m 42.93s
   61.844 N          149.719 W
   DEPTH =  13.4km
 SOUTHERN ALASKA                 (  2)
      <AEIC>. ML 2.8 (AEIC).

PWA     0.21 201 P     18 48.50   0.8
PLRM    0.38 132 iPd   18 50.63  -0.2
                eS     18 56.35
GHO     0.38 100 iPd   18 50.71  -0.3
                eS     18 56.68
PMS     0.61 173 P     18 54.00  -0.9
CUT     0.62 336 iPd   18 54.39  -0.7
SUA     0.62 232 iPd   18 54.65  -0.5
                eS     19 04.13
SML     0.66  93 iPd   18 54.99  -0.8
                eS     19 04.36
KNK     0.74 125 ePd   18 56.69  -0.5
                eS     19 06.77
SKT     0.87 280 iPd   18 58.52  -0.8
                eS     19 11.02
SCM     1.13  89 eP    19 02.59  -1.3
HUR     1.14   2 eP    19 03.41  -0.5
CFI     1.15 124 eP    19 02.68  -1.4
PWL     1.19 145 eP    19 03.95  -0.9
CGLM    1.22 245 iPd   19 04.87  -0.5
NCG     1.25 250 eP    19 05.09  -0.7
CRP     1.30 245 ePd   19 05.67  -1.2
                eS     19 22.68
SPU     1.30 240 eP    19 06.43  -0.3
                eS     19 23.84
NKA     1.33 214 eP    19 08.90   1.9
CKN     1.33 243 eP    19 07.45   0.3
CP2     1.34 245 ePd   19 06.74  -0.7
CKT     1.36 243 eP    19 07.19  -0.3
SLKM    1.36 191 eP    19 06.54  -1.0
MPA     1.37 173 eP    19 07.45  -0.2
BKG     1.45 239 eP    19 08.74  -0.1
                eS     19 28.82
RND     1.62  14 eP    19 10.47  -0.8
TRF     1.63 351 eP    19 11.34  -0.2
TOA     1.70  80 P     19 12.30  -0.1
VZW     1.71 116 eP    19 12.76   0.2
SEW     1.75 176 eP    19 13.72   0.7
VLZ     1.78 112 eP    19 12.75  -0.7
KNIM    1.78 146 eP    19 13.37  -0.2
KTH     1.80 343 eP    19 13.79  -0.1
RDT     1.82 227 eP    19 13.98  -0.2
KLU     1.85  99 eP    19 13.53  -1.0
                eS     19 37.02
DFR     1.91 230 eP    19 15.69   0.2
                eS     19 40.00
FID     1.91 124 ePc   19 15.34  -0.1
REF     1.98 228 eP    19 16.99   0.3
                eS     19 42.21
NCT     2.02 232 eP    19 17.36   0.3
LTI     2.03 152 eP    19 16.59  -0.5
RDW     2.03 229 eP    19 17.66   0.4
RED     2.06 227 eP    19 17.79   0.1
SDG     2.07  69 eP    19 17.75  -0.1
HIN     2.13 132 eP    19 19.15   0.5
PAX     2.28  58 eP    19 20.52  -0.3
CVA     2.32 122 eP    19 21.53   0.2
ILIM    2.37 223 eP    19 23.43   1.3
INE     2.42 224 eP    19 24.68   1.8
CNPM    2.44 198 eP    19 23.20   0.1
SGAM    2.57 120 eP    19 25.08   0.2
OPT     2.79 220 P     19 28.70   0.6
GLB     2.85  96 eP    19 28.84   0.0
RAGM    2.85 119 P     19 29.70   0.8
HDA     2.86  25 eP    19 28.80  -0.2
SVW     2.93 258 (P)   19 30.25   0.3
CCB     2.94  16 eP    19 29.67  -0.4
HMT     3.05 117 eP    19 31.65   0.0
FBA     3.19  15 eP    19 31.94  -1.7
CRQM    3.36 106 eP    19 37.06   0.9
TGL     3.50 105 eP    19 38.05  -0.1
BALM    3.63 100 eP    19 39.33  -0.8
CTGM    4.13  99 P     19 47.50   0.4
YAH     4.15 107 eP    19 47.43   0.0
     62 obs. associated
-----------------------------------
   OCT  22, 1993  15h 30m 30.93± 0.26s
    0.157 S ± 4.1km  123.047 E ± 5.5km
   DEPTH = 156.2km  (  3 depth phases)
   5.0mb ( 26 obs.)
 MINAHASSA PENINSULA, SULAWESI   (265)

AAI     6.23 124 eP    32 02.50   0.9
                eS     33 16.50
TSM     6.80 311 ePd   32 09.00  -0.4
        0.3s   116.60nm          5.7mb
                  e    33 24.50
CTB     7.40   9 iPd   32 19.00   1.6
DAV     7.63  19 eP    32 22.90   2.4
BIP     8.92  21 ePd   32 39.00   1.4
KKM     9.19 312 ePd   32 48.50   7.2X
                  e    34 32.00
TLE    11.11 120 ePd   33 07.20   0.7
PLP    11.41  10 ePd   33 11.50   1.1
TGY    14.32 352 ePc   33 42.00  -5.9X
QCP    14.83 353 eP    33 47.00  -7.1X
KNA    16.49 160 eP    34 15.50   0.8
        0.7s    56.00nm          5.0mb
BAG    16.64 352 eP    34 15.50  -1.3
LEM    16.76 246 iPd   34 20.50   2.3
KLI    18.76 255 eP    34 41.00   0.4
                  e    35 37.00
WWKK   20.85 100 eP    35 02.70   0.7
IPM    22.50 282 ePd   35 20.30   2.2
        0.7s    18.10nm          4.6mb
WR2    22.58 151 iPc   35 19.00   0.1
        0.4s   172.30nm          5.9mb
                  i    39 18.80
QIZ    23.05 327 eP    35 24.80   1.3
SNG    23.53 288 eP    35 31.50   3.4X
        1.0s    80.00nm          5.2mb
LAT    24.76 106 eP    35 40.40   0.6
ASPA   25.64 156 iPc   35 47.60  -0.2
        0.5s    48.40nm          5.4mb
                 ipP   36 20.30 160km
                 iPcP  39 13.80
```

22d 15h

```
QIS     25.95 142 iPc   35 50.30   -0.4
WARB    26.11 173 iPc   35 52.40    0.3
                e       36 23.60
NST     27.56 306 eP    36 06.00    0.7
KHT     28.38 303 eP    36 13.50    0.8
MRWA    29.67 193 iPc   36 23.60   -0.5
        0.4s    22.00nm          5.2mb
CHTO    30.26 310 iPd   36 29.60    0.2
        0.7s    13.34nm          4.8mb
GYA     30.81 330 P     36 34.80    0.5
        0.8s    18.00nm          4.9mb
                pP      37 07.00 152km
FORT    30.82 172 eP    36 33.60   -0.6
        0.6s    63.00nm          5.5mb
BAL     30.88 191 iPc   36 33.80   -0.8
        0.5s    59.00nm          5.6mb
KLB     31.66 189 iPc   36 40.70   -0.8
        0.4s    11.00nm          5.0mb
KMI     31.90 323 Pc    36 34.50   -9.4X
        1.4s    50.00nm          5.1mb
MUN     32.30 191 eP    36 46.30   -0.8
NWAO    33.05 189 iPc   36 53.20   -0.3
RKG     34.70 189 iPd   37 08.90    1.3
        0.6s    15.00nm          4.9mb
CD2     35.92 331 P     37 18.20    0.2
        0.8s    23.00nm          4.9mb
STK     36.10 153 iPc   37 19.50    0.1
                iPcP    39 41.40
XAN     36.51 340 Pc    37 22.50   -0.4
        1.0s     8.90nm          4.4mb
ADE     37.59 159 eP    37 32.90    0.9
TIY     38.94 347 eP    37 42.00   -1.2
CHJJ    38.96  21 eP    37 40.00   -3.3X
MTMJ    39.04  19 eP    37 41.60   -2.5
MAT     39.13  19 eP    37 41.00   -3.8X
        0.8s     8.96nm          4.5mb
LZH     40.24 336 eP    37 54.00   -0.1
        1.0s    24.00nm          4.8mb
      Z 15s      0.29um          4.3MszX
ARMA    40.54 141 iPc   37 57.30    0.7
        0.7s    46.00nm          5.2mb
LSA     42.49 317 P     38 14.50    1.5
        1.0s     9.00nm          4.3mb
TOO     42.61 153 eP    38 05.00   -8.2X
                ipP     38 14.00   30kmX
CNB     42.72 148 eP    38 15.70    1.4
        0.6s    26.00nm          5.0mb
GTA     44.75 334 eP    38 30.00   -0.6
        1.5s    23.00nm          4.6mb
                pP      39 05.00 157km
                PcP     40 08.50
                ScP     43 45.00
                PcS     44 02.00
                ScS     48 06.50
MDJ     44.96   7 eP    38 30.10   -1.8
GUN     45.26 311 P     38 35.40    0.4
PKI     45.44 310 P     38 36.00   -0.4
KKN     45.65 311 P     38 38.00    0.1
DMN     45.69 310 P     38 38.60    0.3
        1.0s    71.00nm          5.[illegible]mb
GKN     46.24 310 P     38 42.60    0.0
GBA     47.19 289 Pd    38 48.10   -1.9
        0.7s     2.00nm          3.8mbX
DZM     47.55 120 iPc   38 52.70   -0.1
NDI     52.34 307 eP    39 27.50   -1.6
WMQ     53.95 329 eP    39 39.00    [illegible]
KHZ     61.78 140 P     40 34.00    [illegible]
YAK     62.22   4 eP    40 35.30    [illegible]
        1.3s    26.00nm          [illegible]
                e       41 11.00
URZ     62.37 134 P     40 36.00    [illegible]
PUZ     63.13 133 P     40 42.90    [illegible]
CSY     66.59 185 iPd   41 13.00    [illegible]
        0.6s    21.40nm          [illegible]
BUL     94.11 250 iPd   43 33.40    [illegible]
        0.9s    13.87nm          [illegible]
PEL    144.44 160 iPKPc 49 4[illegible]  [illegible]
        0.8s    93.28nm
CNCB   159.94 148 PKP   50 1[illegible]  [illegible]
LPAZ   160.29 147 PKP   50 1[illegible]  [illegible]
     S.D. = 1.2  on  57 of  66 obs
-----------------------------------------
*  OCT  22, 1993  15h 43m 4[illegible]  [illegible]s
   5.931 S ± 7.5km  146.06[illegible] E ±[illegible]km
   DEPTH =  10.0km  (geophysic[illegible]
   3.6mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G.  [illegible]
```

```
YYYY    0.32 196 eP     43 49.00    0.7
                eS      43 54.20
MDG     0.73 338 iPc    43 56.10    0.2
LAT     1.19 128 eP     44 03.80    0.1
MNDI    2.40 265 eP     44 25.50    3.8X
WWKK    3.34 313 eP     44 40.00    5.1X
PMG     3.62 163 eP     44 38.50   -0.4
WR2    17.98 218 iPd    47 52.80   -0.6
        1.0s     2.80nm          3.3mb
ASPA   21.16 212 iPc    48 32.50    3.1X
        0.8s     4.60nm          3.9mb
     S.D. = 0.7  on   5 of   8 obs.
-----------------------------------------
   OCT  22, 1993  15h 51m 42.71± 0.57s
   42.264 N ± 4.3km  122.126 W ± 5.9km
   DEPTH =   5.0km  (geophysicist)
 OREGON                              ( 32)
     ML 3.5 (GS).

LHEM    0.64 186 P      51 55.90    0.4
YBH     0.69 220 ePc    51 56.36   -0.1
                eS      52 06.26
LGMM    0.70 162 P      51 56.93    0.2
LMPM    0.78 182 P      51 58.38    0.0
LASM    0.78 148 P      51 57.70   -0.8
LGBM    0.92 183 P      52 01.06    0.1
LBFM    0.93 169 eP     52 01.12    0.0
                S       52 14.65
LBKM    1.25 199 P      52 06.03   -0.4
KSXM    1.37 252 P      52 08.26   -0.3
KOMM    1.40 226 P      52 08.59   -0.4
LGPM    1.45 202 eP     52 08.69   -1.1
                eS      52 26.86
WDC     1.71 191 eP     52 12.52   -0.8
                eS      52 37.01
LMEM    1.77 166 (P)    52 07.85   -6.6X
FHC     2.02 224 eP     52 19.50    1.6
KMPM    2.38 220 eP     52 24.05    1.0
                S       53 09.21
ORV     2.75 170 eP     52 27.79   -0.5
VGB     3.39  16 eP     52 38.48    1.0
                S       53 27.70
LON     4.49   3 (P)    52 51.85   -1.2
BONR    5.21 144 eP     53 04.64    1.2
     S.D. = 0.8  on  18 of  19 obs.
-----------------------------------------
*  OCT  22, 1993  15h 54m 54.05± 2.38s
   16.578 N ±10.5km  121.830 E ±23.2km
   DEPTH =  22.5 ± 11.6 km
   4.4mb (  3 obs.)
 LUZON, PHILIPPINE ISLANDS          (249)

CVP     1.12 360 iPd    55 14.50    0.1
                eS      55 29.00
BAG     1.21 262 iPc+   55 16.10    0.3
                iS      55 30.50
CCP     2.06 201 eP     55 27.50   -0.4
PIP     2.09 327 eP     55 27.30   -1.0
TGY     2.61 199 ePd    55 50.00   14.2X
                iS      56 30.00
GCP     2.72 167 ePd    55 48.00   10.7X
                eS      56 24.00
KMI    19.75 299 eP     59 29.50    3.7X
        1.4s    60.00nm          4.7mb
      Z 16s      1.20um          4.2Msz
      E 15s      0.80um
XAN    20.90 329 eP     59 35.50   -2.0
      Z 16s      0.29um          3.7MszX
[illegible]  21.80 314 iPd    59 48.80    2.2
                S       03 28.00
[illegible]  21.91 279 eP     59 48.80    1.1
[illegible]  23.89 349 eP     00 08.00    1.1
        1.4s    12.00nm          4.2mb
      Z 16s      0.29um          3.8MszX
[illegible]  25.16 324 eP     00 16.50   -3.0X
        1.8s    15.00nm          4.3mb
      Z 15s      0.29um          3.9MszX
[illegible]  35.01 295 P      01 47.40   -0.2
[illegible]  35.36 294 P      01 49.60   -0.9
[illegible]  35.63 294 P      01 52.10   -0.6
[illegible]  36.11 295 P      01 56.00   -0.6
[illegible]  42.90 272 P      03 07.00   14.1X
     S.D. = 1.3  on  12 of  17 obs.
-----------------------------------------
*  OCT  22, 1993  16h 18m 16.48± 2.86s
   23.338 S ±24.8km  179.508 E ±19.7km
   DEPTH = 680.9 ± 33.1 km
```

```
   4.5mb (  8 obs.)
 SOUTH OF FIJI ISLANDS                (171)

KUZ     13.76 193 P     21 11.80    0.1
PUZ     14.73 184 P     21 22.20    1.4
WLZ     14.87 192 P     21 23.90    1.9
URZ     15.02 187 P     21 21.10   -2.3
NOZ     15.28 184 eP    21 25.70   -0.2
MNG     17.56 190 eP    21 43.10   -3.8X
QRZ     18.40 197 P     21 56.10    1.6
THZ     19.19 195 eP    22 02.30    0.6
DSZ     19.46 198 eP    22 04.50    0.4
KHZ     19.67 193 P     22 05.20   -0.7
LTZ     20.30 196 eP    22 09.90   -1.9
BWZ     22.57 198 eP    22 31.00   -0.8
ODZ     22.83 196 eP    22 34.30    0.1
LRCZ    23.21 198 P     22 37.40   -0.3
MSCZ    23.21 198 P     22 37.30   -0.3
MHZ     23.22 199 P     22 37.60   -0.1
SBCZ    23.24 199 P     22 37.90    0.0
LSCZ    23.25 198 P     22 37.50   -0.4
CMCZ    23.31 199 P     22 38.40    0.0
TLC     23.40 199 P     22 39.30   -0.1
ARMA    25.81 248 iPc   23 00.10   -0.3
        0.6s    18.00nm          4.8mb
CNB     28.75 239 iPd   23 26.60    1.0
        0.4s    20.00nm          5.0mb
CTA     31.02 270 iPd   23 44.10   -0.7
TOO     32.38 236 iPc   23 56.90    0.9
        0.4s    16.00nm          5.0mb
STK     34.52 247 iPc   24 14.30    0.7
ASPA    41.69 260 iPc   25 11.30   -0.1
        0.6s     8.40nm          4.4mb
WR2     41.97 266 iPc   25 12.70   -1.0
        0.5s     4.40nm          4.2mb
WRA     41.99 266 P     25 13.60   -0.3
        0.6s     1.30nm          3.6mb
FORT    46.09 249 iPd   25 45.50    0.5
        0.5s     9.00nm          4.5mb
WARB    47.82 255 iPc   25 58.10    0.0
        0.4s     6.00nm          4.4mb
CSY     60.42 206 eP    27 36.70   11.7X
        0.5s    10.40nm
NB2    141.46 351 PKP   36 34.00    0.5
        0.6s     1.80nm
KSP    149.60 339 iPKP  36 59.20   12.2X
CLL    150.19 343 iPKP  37 00.50   12.7X
        0.9s    17.00nm
BRG    150.31 341 iPKP  37 00.40   12.4X
     S.D. = 0.9  on  30 of  35 obs.
-----------------------------------------
*  OCT  22, 1993  16h 19m 53.37± 0.43s
   56.273 S ±13.5km   24.370 W ±10.5km
   DEPTH =  33.0km  (normal)
   4.8mb (  4 obs.)
 SOUTH SANDWICH ISLANDS REGION        (153)

NVL     21.22 147 iPc   24 39.50    1.5
        1.0s    23.00nm          4.5mb
SPA     33.91 180 iPd   26 33.50   -1.6
        1.1s   119.05nm          5.7mb
PPD     39.56 319 (P)   27 23.00    0.1
BLF     44.62  74 e(P)  28 09.00    4.7X
SEK     46.01  75 eP    28 08.50   -6.9X
SLR     48.42  73 eP    28 32.50   -1.8
BFT     49.41  75 eP    28 43.00    1.0
CCH     49.93 304 P     28 45.60   -0.6
CNCB    51.29 302 P     28 57.00    0.2
LPB     51.58 302 P     29 00.30    1.4
LPAZ    51.81 302 P     29 00.30   -0.6
CSY     53.14 159 iPd   29 19.30    9.8X
        0.7s    15.60nm          5.1mb
BUL     53.15  70 iP    29 10.20   -0.1
        0.8s     5.22nm          4.6mb
NNA     59.75 296 eP    29 56.50   -0.8
DMN    123.21  89 PKP   38 48.00   -0.1
GKN    123.25  89 PKP   38 48.00    0.0
PKI    123.35  89 PKP   38 48.40   -0.1
KKN    123.44  89 PKP   38 48.50    0.0
GUN    123.87  90 PKP   38 48.80   -0.8
SSE    145.20 122 PKPd  39 29.00    0.5
        1.0s    21.00nm
INK    146.98 320 ePKP  39 32.00    1.7
        1.0s     5.00nm
BJI    149.60 105 ePKP  39 40.50    5.2X
        1.6s    17.00nm
     S.D. = 1.0  on  18 of  22 obs.
```

```
-------------------------------------
%  OCT  22, 1993  16h 29m 02.83± 1.10s
   26.469 S ±14.9km   27.426 E ±14.2km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA          (584)
      ML 2.7 (PRE).

BFS     0.72 233 eP    29 18.00   0.8
SLR     1.06  47 iPc   29 23.60   0.2
                 S     29 36.80
SEK     1.86 175 eP    29 36.80   1.1
BFT     2.48  72 eP    29 44.50  -0.2
BLF     2.85 202 eP    29 49.50  -0.5
                 S     30 24.50
FRS     3.76 209 eP    30 01.30  -1.4
     S.D. = 1.2  on   6 of   6 obs.
-------------------------------------
&  OCT  22, 1993  16h 30m 53.41s
   36.054 N          117.968 W
   DEPTH =   0.0km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      <PAS-P>. ML 3.7 (PAS), 3.9
      (BRK), 3.6 (GS). MD 3.6 (GM).

ISA     0.57 227 iPd   31 04.36  -0.4
                 S     31 12.38
GSC     1.21 128 ePc   31 15.96  -1.0
MTUM    1.38 340 iPc   31 19.13  -0.8
                 eS    31 37.95
ABL     1.58 221 ePnd  31 22.22  -0.7
TPNV    1.65  57 iPd   31 22.97  -0.9
MRCM    1.67 345 iPc   31 24.36   0.1
                 eS    31 48.25
FRI     1.69 304 iP    31 23.69  -0.6
                 iS    31 45.56
PKEM    1.73 271 ePn   31 25.38   0.4
                 eS    31 48.16
MMPM    1.77 332 iPc   31 26.15   0.3
                 eS    31 49.54
MEMM    1.79 334 iPc   31 26.68   1.0
SSK     1.85 173 ePn   31 25.79  -1.1
                 eS    31 51.77
BONR    1.92 352 iPc   31 27.93   0.0
BCH     1.93 244 ePn   31 27.96   0.0
PHAM    1.98 264 eP    31 28.35  -0.3
TNP     2.11  16 eP    31 29.78  -0.9
PEC     2.26 163 eP    31 31.19  -1.4
CMB     2.77 316 eP    31 41.65   1.8
                 eS    32 18.06
PRS     2.77 277 iP    31 40.70   0.8
PLM     2.84 161 eP    31 39.87  -1.3
SAO     2.89 285 eP    31 41.67   0.0
ARN     3.14 295 eP    31 44.78  -0.4
COE     3.21 293 eP    31 46.61   0.5
MHC     3.22 295 eP    31 50.64   4.3
JEGM    3.89 293 eP    31 56.38   0.6
GLA     3.96 138 ePn   31 54.32  -2.5
                 ePg   32 07.57
ARUT    4.02  63 ePnd  31 56.31  -1.5
                 ePg   32 08.16
ORV     4.48 322 ePn   32 04.14   0.0
MSU     5.23  60 ePn   32 13.27  -1.8
                 ePg   32 29.96
DUG     5.80  43 ePn   32 21.49  -1.4
                 ePg   32 41.51
                 eS    34 00.21
SRU     6.65  60 ePn   32 33.46  -1.6
HVU     7.00  34 (P)   32 40.31   0.4
       31 obs. associated
-------------------------------------
   OCT  22, 1993  17h 00m 05.71± 0.59s
   38.566 N ± 4.6km   23.543 E ± 9.7km
   DEPTH =  10.0km  (geophysicist)
 GREECE                            (364)
      ML 3.2 (ATH).

ATH     0.61 167 iPbc  00 18.00   0.0
                 eSb   00 29.00
AGG     1.05 296 ePg   00 25.64   0.1
                 eSg   00 39.76
PAIG    1.36   4 ePb   00 30.62  -0.1
                 eSb   00 47.88
LIT     1.74 332 ePb   00 35.72  -0.4
                 eSb   00 56.68
OUR     1.80  11 ePb   00 36.82  -0.1
VLI     1.91 195 ePn   00 38.50   0.0
SRS     2.55   1 ePn   00 47.84   0.1
                 eSn   01 17.04
KNT     2.64 349 ePn   00 49.48   0.4
                 eSn   01 20.32
     S.D. = 0.3  on   8 of   8 obs.
-------------------------------------
&  OCT  22, 1993  17h 06m 39.27s
   36.052 N          117.964 W
   DEPTH =   0.1km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      <PAS-P>. ML 3.1 (PAS).

ISA     0.57 227 eP    06 49.97  -0.6
GSC     1.20 128 eP    07 01.44  -1.3
BHPR    1.31 341 P     07 03.87  -0.8
MTUM    1.39 340 eP    07 05.02  -0.8
                 eS    07 23.64
CWCR    1.47 349 P     07 06.57  -0.6
ABL     1.58 221 eP    07 08.17  -0.6
CASR    1.59 343 P     07 09.15   0.2
HTCR    1.61 337 P     07 09.19  -0.2
TPNV    1.65  57 ePd   07 08.85  -0.9
MRCM    1.67 345 ePc   07 10.23   0.1
ORC     1.67 341 P     07 10.48   0.3
CLKR    1.68 336 P     07 10.52   0.1
FRI     1.69 304 P     07 09.81  -0.3
PHBM    1.73 277 P     07 11.78   1.1
PKEM    1.74 271 (Pn)  07 10.78  -0.1
MCSM    1.77 335 P     07 12.23   0.6
MMPM    1.77 332 iPc   07 12.04   0.3
MEMM    1.79 334 ePd   07 12.47   0.9
SSK     1.85 173 ePn   07 12.78   0.1
BONR    1.92 352 ePn   07 13.73  -0.1
                 ePg   07 15.17
CTM     1.93 267 P     07 14.85   1.1
BCH     1.93 244 ePnd  07 13.81   0.0
PARM    1.93 277 P     07 14.80   1.0
PDRM    1.97 279 P     07 14.96   0.7
PHAM    1.99 264 ePn   07 15.06   0.5
PCRM    2.00 272 P     07 15.30   0.6
WKR     2.08 264 P     07 16.62   0.7
TNP     2.11  16 ePnc  07 16.07  -0.4
                 ePg   07 18.76
BMSM    2.36 286 P     07 20.62   0.6
BRMM    2.43 290 P     07 22.28   1.3
MSTM    2.69 314 P     07 26.95   2.3
CMB     2.77 316 (Pn)  07 26.30   0.5
                 ePg   07 27.86
PLM     2.84 161 ePn   07 25.88  -1.1
SAO     2.90 285 ePn   07 26.72  -0.8
HSPM    3.05 291 P     07 36.27   6.5
MNHM    3.09 313 P     07 33.47   3.2
ARN     3.15 295 ePn   07 29.94  -1.1
JELM    3.23 287 P     07 38.61   6.4
GLA     3.96 138 ePn   07 40.39  -2.2
ARUT    4.02  63 ePn   07 43.32  -0.3
                 ePg   07 54.04
MSU     5.23  60 (Pn)  08 03.16   2.3
                 ePg   08 16.25
       41 obs. associated
-------------------------------------
&  OCT  22, 1993  17h 33m 09.58s
   36.055 N          117.968 W
   DEPTH =   0.1km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      <PAS-P>. ML 3.0 (PAS).

ISA     0.57 227 eP    33 20.29  -0.6
                 eS    33 28.15
WASM    0.57 237 P     33 20.84  -0.2
WJPM    0.77 213 P     33 24.22  -0.7
WOFM    0.80 230 P     33 24.87  -0.6
BMTC    1.05 209 P     33 29.25  -1.2
GSC     1.21 128 iPc   33 32.19  -0.9
BHPR    1.31 342 P     33 34.25  -0.7
MTUM    1.38 340 eP    33 35.32  -0.8
CWCR    1.46 349 P     33 37.02  -0.4
MARC    1.53 227 P     33 38.32   0.0
ABL     1.58 221 ePc   33 38.66  -0.4
HTCR    1.61 337 P     33 39.45  -0.2
CRGC    1.64 241 P     33 40.22   0.3
TPNV    1.65  57 eP    33 39.02  -1.0
MRCM    1.67 345 eP    33 39.97  -0.5
ORC     1.67 341 P     33 40.77   0.3
FRI     1.68 304 P     33 40.09  -0.3
YEG     1.73 250 P     33 41.81   0.6
PKEM    1.73 271 (Pn)  33 42.09   0.9
MCSM    1.76 335 P     33 42.45   0.6
MMPM    1.77 332 eP    33 42.23   0.3
                 eS    34 04.43
MEMM    1.79 334 eP    33 42.61   0.7
                 eS    34 06.00
SSK     1.85 173 ePn   33 42.92  -0.1
BONR    1.92 352 ePn   33 44.00  -0.1
CTM     1.93 267 P     33 45.24   1.2
BCH     1.93 244 ePn   33 43.85  -0.2
PDRM    1.96 279 P     33 45.29   0.8
TNP     2.11  16 ePn   33 46.40  -0.4
                 ePg   33 49.04
SCCM    2.11 239 P     33 48.15   1.5
PEC     2.26 163 ePn   33 48.42  -0.4
HVC     2.33 279 P     33 50.38   0.6
BMSM    2.36 286 P     33 51.06   0.8
PADM    2.39 261 P     33 51.36   0.7
QSR     2.73 287 P     34 04.42   8.9
CMB     2.76 316 ePn   33 55.50  -0.5
                 ePg   33 58.11
PLM     2.85 161 ePn   33 57.02  -0.3
MNHM    3.09 313 P     34 03.67   3.2
HCOM    3.13 287 P     34 08.80   7.7
ARN     3.14 295 ePn   34 01.67   0.3
GLA     3.96 138 (Pn)  34 13.09   0.1
       40 obs. associated
-------------------------------------
?  OCT  22, 1993  17h 58m 52.75± 3.27s
   31.584 S ±28.8km   68.913 W ±30.9km
   DEPTH = 104.4 ± 22.4 km
 SAN JUAN PROVINCE, ARGENTINA      (137)

RTCB    0.14  45 ePc   59 07.50  -0.4
                 S     59 18.50
RTCV    0.42 131 iPd   59 09.00   0.2
                 S     59 21.50
RTLL    0.46  56 iPd   59 09.00   0.0
                 S     59 20.20
CFA     0.58  92 ePc   59 10.00   0.2
                 S     59 23.20
RTRS    1.49 341 eP    59 19.50   0.1
                 S     59 40.10
MRA     2.84 108 ePc   59 37.10  -0.1
     S.D. = 0.4  on   6 of   6 obs.
-------------------------------------
   OCT  22, 1993  18h 18m 35.40± 1.18s
   51.498 N ±11.7km   16.162 E ± 5.6km
   DEPTH =  10.0km  (geophysicist)
 POLAND                            (548)
      ML 3.7 (GRF), 3.5 (VIE).

KSP     0.66 173 iP    18 47.70  -0.9
       0.4s   161.00nm
                 iS    18 56.40
                 i     19 02.60
BRG     1.53 247 ePn   19 02.90   0.2
                 iPg   19 03.80
                 iSg   19 23.70
PRU     1.83 215 ePn   19 06.50  -0.6
       0.4s   107.00nm
                 Pg    19 08.80
                 i     19 10.90
                 Sg    19 31.50
CLL     1.99 266 ePn   19 09.00  -0.4
                 iPg   19 12.30
                 eSg   19 39.00
VRAC    2.21 173 Pn    19 13.60   1.0
                 eSg   19 45.20
OJC     2.64 118 eP    19 17.60  -1.1
                 iPg   19 24.70
                 iS    19 46.30
                 iSg   20 01.20
KHC     2.89 216 Pn    19 22.40   0.0
                 ePg   19 28.00
                 e     19 47.00
                 Sn    19 55.50
                 eSg   20 05.50
HOF     2.96 248 iPd   19 31.30   8.0X
MOX     2.99 255 ePn   19 24.00   0.3
                 iPg   19 32.30
                 iSg   20 11.20
GEC2    3.09 212 Pn    19 25.50   0.3
                 Pg    19 32.30
                 Sg    20 02.00
WET     3.16 223 iPnc  19 26.00  -0.1
VKA     3.24 178 iPgc  19 35.70   8.4X
                 iSg   20 16.90
ZST     3.36 169 eP    19 37.00   8.0X
```

22d 18h

```
                 i      19 48.40
                 e      20 10.20
                 Lg     20 35.00
SPC     3.49 130 e(Pn)  19 32.20   1.2
                 e      19 40.80
                 i      20 24.00
GRF     3.63 242 ePn    19 33.20   0.4
                 ePg    19 45.50
                 e(Sn)  20 25.10
                 eSg    20 30.70
SQTA    5.37 219 iPnd   19 57.30  -0.2
                 i      20 04.70
                 iSn    20 56.70
                 i      21 03.90
                 iSg    21 23.30
     S.D. = 0.7  on  13 of  16 obs.
-------------------------------------
?  OCT  22, 1993  18h 26m 10.85± 0.77s
   54.054 S ±110.km  120.791 W ±40.5km
   DEPTH =  10.0km  (geophysicist)
   4.6mb (  4 obs.)
 SOUTHERN EAST PACIFIC RISE       (684)

TCA    45.68  84 ePc   34 32.00  -1.5
CNCB   55.00  69 P     35 46.00   0.8
LPAZ   55.35  68 P     35 47.70  -0.1
TOO    62.61 243 eP    36 36.80  -0.6
       1.0s     38.00nm          5.5mb
ARMA   64.63 253 eP    36 51.00   0.2
                 eTT   54 38.00
STK    69.02 245 iPc   37 18.80   0.4
       0.7s     1.10nm          4.2mb
ASPA   79.65 244 eP    38 19.40  -0.5
WR2    82.43 247 eP    38 33.80  -0.7
       0.8s     5.20nm          4.7mb
                 e     38 45.50
WRA    82.44 247 P     38 33.80  -0.8
       1.0s     3.10nm          4.4mb
LZH   144.44 258 ePKP  45 46.20  -2.4
       2.0s    33.00nm
                 pP    45 59.50
EKA   144.99  62 PKPc  46 01.00  12.4X
       1.3s    17.80nm
PKI   147.30 227 PKP   45 54.80   1.0
GUN   147.39 227 PKP   45 56.00   2.1
KKN   147.54 227 PKP   45 56.00   2.0
GKN   148.00 226 PKP   45 57.60   3.0X
MOX   151.16  77 ePKP  45 54.00  -4.6X
                 e     46 09.00
GEC2  151.56  82 PKP   46 05.10   5.7X
       0.8s     1.36nm
                 e     46 11.50
                 e     46 16.40
                 e     46 21.40
MLR   157.05  98 ePKP  46 22.00  15.0X
MAIO  162.24 181 ePKP  46 19.00   6.2X
     S.D. = 1.4  on  13 of  19 obs.
-------------------------------------
%  OCT  22, 1993  18h 29m 33.98± 1.08s
   40.000 N ± 9.6km   23.204 E ± 6.2km
   DEPTH =  10.0km  (geophysicist)
 GREECE                           (364)
     ML 2.1 (THE).

PAIG    0.37 101 ePg   29 41.76   0.1
                 eSg   29 47.16
LIT     0.56 281 ePg   29 45.28   0.0
                 eSg   29 53.40
THE     0.66 344 ePg   29 46.76  -0.3
                 eSg   29 56.36
OUR     0.68  61 ePg   29 47.28  -0.2
                 eSg   29 57.80
SOH     0.83   8 ePg   29 50.16   0.1
                 eSg   30 01.52
KNT     1.18 349 ePb   29 56.36   0.3
                 eSb   30 12.92
     S.D. = 0.3  on   6 of   6 obs.
-------------------------------------
   OCT  22, 1993  18h 33m 18.13± 0.64s
   45.197 S ± 7.7km  166.749 E ± 5.5km
   DEPTH =  33.0km  (normal)
   3.9mb (  2 obs.)
 OFF W. COAST OF S. ISLAND, N.Z. (161)

MSZ     0.99  58 P     33 35.70   0.1
                 S     33 53.30
TLC     1.64  91 P     33 45.70   0.5
MMCZ    1.70  84 P     33 46.90   0.9
CMCZ    1.79  89 eP    33 47.40   0.1
MHZ     1.80  87 P     33 48.20   0.8
SBCZ    1.82  88 P     33 48.80   1.2
LRCZ    1.84  87 P     33 49.10   1.0
LSCZ    1.86  88 P     33 49.00   0.8
MSCZ    1.89  88 P     33 49.70   1.0
SIZ     1.94 151 eP    33 48.40  -0.9
TUZ     2.16 112 P     33 51.80  -0.7
BWZ     2.33  74 Pc    33 55.80   1.0
LMZ     2.33  52 P     33 57.10   2.2
ODZ     2.76  88 Pd    34 00.70  -0.3
WVZ     3.57  55 eP    34 12.10  -0.4
MQZ     4.48  73 P     34 23.20  -2.3
                 S     35 15.90
LTZ     4.66  61 P     34 26.50  -1.5
DSZ     5.04  49 P     34 32.50  -1.0
THZ     5.64  55 eP    34 41.40  -0.5
KHZ     5.64  63 eP    34 40.60  -1.3
QRZ     6.08  46 eP    34 46.70  -1.4
SNZO    6.99  59 eP    35 04.00   3.3X
                 e(S)  36 31.00
MOZ     8.99  45 eP    35 26.70  -1.8X
CNB    16.51 301 eP    37 09.00   0.2
                 eTT   52 05.00
DZM    23.07 359 iPc   38 26.10   4.4X
WR2    36.72 303 eP    40 25.00   0.9
       0.9s     2.20nm          4.0mb
                 e     40 35.90
WRA    36.74 303 P     40 24.50   0.3
       0.6s     0.80nm          3.8mb
NVL    62.94 189 (P)   43 42.00  -1.0
LKO   143.87 193 PKP   52 47.51  -4.4X
       0.6s     7.00nm
     S.D. = 1.1  on  25 of  29 obs.
-------------------------------------
%  OCT  22, 1993  18h 55m 42.71± 2.17s
   36.810 N ±22.3km    2.534 W ± 8.5km
   DEPTH =  10.0km  (geophysicist)
 STRAIT OF GIBRALTAR              (385)
     mbLg 2.5 (MDD).

ENIJ    0.31  58 iPd   55 49.00  -0.1
                 e     55 52.40
EGUA    0.83 272 eP    55 59.00   0.3
                 e     56 11.00
ECOG    0.95 300 eP    56 00.00  -0.9
                 e     56 12.30
EBAN    1.68 324 eP    56 13.00   0.7
                 e     56 33.00
EVIA    1.83   1 eP    56 14.50   0.0
                 e     56 36.30
     S.D. = 0.8  on   5 of   5 obs.
-------------------------------------
   OCT  22, 1993  19h 16m 02.78± 0.85s
   16.782 N ± 5.7km  121.677 E ± 7.1km
   DEPTH =  25.1 ±  4.9 km
   4.7mb ( 19 obs.)
 LUZON, PHILIPPINE ISLANDS        (249)

CVP     0.93   9 iPd   16 21.00   0.9
                 iS    16 30.00
BCP     1.09 251 eP    16 22.40  -0.2
                 eS    16 36.00
BAG     1.12 251 iPd-  16 22.00  -1.0
                 iS    16 36.50
PIP     1.84 327 iPd   16 33.40   0.2
QCP     2.21 195 eP    16 56.00  17.5X
TGY     2.76 195 iPc   16 51.00   4.6X
                 iS    17 32.00
GQP     2.95 165 ePd   16 54.30   5.2X
                 eS    17 32.00
DAV    10.36 158 eP    18 14.50 -18.5X
QIZ    11.48 283 eP    18 46.30  -2.0
                 S     20 53.80
GYA    16.94 307 P     20 01.40   1.4
     Z  18s     0.61um
LOE    19.08 275 eP    20 26.50   0.2
KMI    19.52 298 eP    20 33.50   1.8
       1.0s    60.00nm          4.8mb
     Z  16s     1.10um          3.9MszX
     E  12s     0.40um
TIA    19.77 349 eP    20 33.90  -0.1
NST    20.72 270 eP    20 45.00   1.0
CD2    21.55 314 Pd    20 52.60   0.1
       1.0s    39.00nm          4.8mb
     Z  13s     0.91um          4.4MszX
NNT    21.63 262 eP    20 51.10  -2.2
CHTO   21.74 279 iPc   20 55.00   0.6
       1.0s    15.50nm          4.4mb
KHT    22.30 268 iPd   21 01.70   1.7
TIY    22.39 340 eP    21 00.10  -0.7
     Z  18s     0.73um          4.1Msz
     N  16s     0.60um
                 S     25 03.00
SNG    22.68 248 eP    21 06.00   2.2
IPM    23.61 241 ePc   21 14.10   1.3
BJI    23.66 349 eP    21 12.50  -0.6
       1.4s    37.00nm          4.7mb
     Z  12s     0.30um          4.0MszX
LZH    24.91 324 eP    21 25.50   0.0
       1.2s    30.00nm          4.8mb
     Z  14s     0.29um          3.9MszX
HHC    25.53 342 P     21 31.00  -0.2
       1.2s    36.00nm          4.9mb
BTO    25.79 339 eP    21 34.00   0.4
LSA    30.75 300 P     22 19.20   0.2
       1.0s    11.00nm          4.6mb
GUN    34.79 295 P     22 53.40  -0.7
PKI    35.14 294 P     22 55.90  -1.1
       0.9s    34.00nm          5.3mb
KKN    35.29 295 P     22 57.00  -1.2
       1.0s    70.00nm          5.5mb
DMN    35.41 294 P     22 58.30  -1.0
       1.0s    59.00nm          5.5mb
GKN    35.89 295 P     23 02.10  -1.1
WR2    38.57 161 iPc   23 25.00  -0.5
       0.8s    12.80nm          4.7mb
WMQ    39.38 320 eP    23 32.50   0.3
     Z  14s     0.52um          4.5MszX
HYB    41.16 277 eP    23 47.00  -0.1
       1.0s    35.00nm          5.0mb
ASPA   41.94 163 iPc   23 53.40   0.1
       0.6s     4.90nm          4.4mb
GBA    42.75 272 P     24 00.00  -0.1
POO    45.50 280 eP    24 23.50   1.1
STK    52.02 158 iPc   25 12.00  -0.5
INK    79.90  21 eP    28 11.00   0.4
       1.0s     2.00nm          4.1mb
MBC    80.35  12 eP    28 13.50   0.6
       1.0s     3.00nm          4.3mb
VRI    81.52 315 ePd   28 20.50   0.9
DAG    83.74 352 iPc   28 39.80   9.3X
       0.7s     6.16nm          4.9mb
HFS    84.24 331 eP    28 32.30  -1.0
       0.5s     1.90nm          4.6mb
NB2    84.97 333 P     28 36.40  -0.6
       1.1s     5.10nm          4.7mb
GEC2   88.85 321 P     28 55.90  -0.4
       0.8s     1.10nm          4.2mb
                 PcP   29 04.50
     S.D. = 1.0  on  40 of  45 obs.
-------------------------------------
%  OCT  22, 1993  20h 56m 59.72± 1.24s
   18.206 N ± 6.4km   67.111 W ± 9.9km
   DEPTH =  10.0km  (geophysicist)
 MONA PASSAGE                     ( 89)

MGP     0.20 174 P     57 04.00  -0.1
MCP     0.21   0 P     57 04.40   0.1
PNP     0.43 110 P     57 09.00   0.5
APR     0.44  56 P     57 08.50  -0.1
CLLP    0.52 104 P     57 10.00  -0.3
     S.D. = 0.4  on   5 of   5 obs.
-------------------------------------
   OCT  22, 1993  20h 59m 38.82± 0.74s
   40.105 N ±12.1km   24.905 E ± 4.7km
   DEPTH =  22.3 ±  7.6 km
 AEGEAN SEA                       (365)
     ML 2.7 (THE).

OUR     0.74 288 ePg   59 52.76  -0.2
                 eSg   00 02.32
PAIG    0.96 260 ePg   59 56.70   0.1
                 eSg   00 10.72
EZN     1.13 104 iPn   59 59.20   0.0
ALN     1.18  47 ePg   59 59.88   0.0
                 eSg   00 16.72
SOH     1.38 302 ePb   00 03.00   0.1
                 eSb   00 23.04
SRS     1.42 316 ePb   00 03.36  -0.1
                 eSb   00 23.72
KNT     1.86 305 ePb   00 09.84   0.1
                 eSb   00 36.72
```

```
MFT      1.94  69 ePn    00 10.90  -0.1
     S.D. = 0.1  on   8 of   8 obs.
-------------------------------------
?  OCT  22, 1993  21h 21m 36.88± 3.70s
   18.251 N ±37.0km   67.874 W ±23.7km
   DEPTH = 137.6 ± 31.6 km
 MONA PASSAGE                      ( 89)

MCP      0.74  77 P      21 59.00   0.4
MGP      0.78 108 P      21 58.60  -0.3
APR      1.11  79 P      22 01.60  -0.1
PNP      1.15  99 P      22 02.00  -0.2
CLLP     1.25  98 P      22 03.30   0.2
SJG      1.64  95 (P)    22 07.70   0.2
CPD      1.87  96 (P)    22 10.00  -0.2
MORO     7.35 183 eP     23 23.40   0.4
SDV      9.69 196 eP     23 54.00  -0.3
     S.D. = 0.4  on   9 of   9 obs.
-------------------------------------
   OCT  22, 1993  21h 32m 47.17± 0.55s
   29.432 S ± 5.9km   67.791 W ±10.0km
   DEPTH = 156.9 ± 16.4 km
 LA RIOJA PROVINCE, ARGENTINA     (138)

RTPR     1.41 128 iPd    33 16.00  -0.6
RTLL     1.98 197 iPc    33 22.70  -0.2
                  (S)    33 47.50
CYA      2.01  61 iPd    33 22.70  -0.5
                  S      33 46.50
CFA      2.20 190 iPd    33 25.70   0.2
                  S      33 53.00
RTCB     2.22 203 iPc    33 26.00   0.2
                  (S)    33 52.50
ZON      2.24 200 iPc    33 17.00  -9.0X
                  eS     33 41.00
RTCV     2.50 195 iPc    33 29.50   0.3
TCA      3.36 125 iPd    33 39.80  -0.2
                  (S)    34 11.00
MRA      3.47 149 ePc    33 42.20   0.9
                  (S)    34 12.00
FSA      3.69  26 iPc    33 44.90   0.7
SLA      5.11  24 iP     34 03.30   0.1
RFA      5.35 186 iPc    34 05.70  -0.6
                  S      35 36.50
YJA      7.52  16 ePc    34 36.00   0.3
CNCB    12.56 359 P      35 42.70   0.6
LPB     12.84 359 eP     35 56.00  10.4X
LPAZ    13.09 359 P      35 47.60  -1.3
     S.D. = 0.7  on  14 of  16 obs.
-------------------------------------
   OCT  22, 1993  22h 45m 53.04± 0.79s
   37.797 N ± 8.0km    2.014 W ± 6.2km
   DEPTH =  10.0km  (geophysicist)
 SPAIN                             (377)
     mbLg 3.1 (MDD).

EHUE     0.46 272 iPc    46 00.69  -1.7
                  e      46 07.60
EALH     0.47  82 eP     46 02.59  -0.1
                  e      46 10.90
ENIJ     0.84 191 iPd    46 08.49  -0.8
                  e      46 19.80
EVIA     0.92 336 iPc    46 11.02   0.3
                  e      46 23.90
ECOG     1.34 248 eP     46 18.87   1.1
                  e      46 35.90
EBAN     1.45 285 iPc    46 19.08  -0.2
                  e      46 38.30
EGUA     1.57 233 eP     46 21.67   0.7
                  e      46 39.80
ELUQ     1.80 263 eP     46 25.14   0.7
                  e      46 47.10
     S.D. = 1.1  on   8 of   8 obs.
-------------------------------------
   OCT  22, 1993  23h 15m 44.47± 0.39s
   47.682 N ± 3.8km    7.711 E ± 3.2km
   DEPTH =  10.0km  (geophysicist)
 SWITZERLAND                       (544)
     ML 3.0 (LDG), 2.4 (STR).

CHAF     0.17 319 Pg     15 49.25   0.9
                  Sg     15 52.06
BBS      0.26 212 Pg     15 50.63   0.7
                  Sg     15 53.93
FEL      0.28  46 ePg    15 50.70   0.3
MOF      0.43 294 Pg     15 53.35   0.2
                  Sg     15 59.37
LIBD     0.47 351 Pg     15 54.25   0.1
                  Sg     16 00.65
ZLA      0.50 113 iP+    15 54.70   0.1
SLE      0.54  81 iPc    15 55.10  -0.2
BSF      0.64 284 Pg     15 57.00  -0.3
                  Sg     16 04.80
ECH      0.65 325 Pg     15 57.10  -0.4
                  Sg     16 05.81
LOMF     0.68 241 Pg     15 57.92  -0.2
                  Sg     16 07.15
CDF      0.79 338 Pn     15 58.90  -0.9
                  Pg     15 59.40
                  Sg     16 09.20
HAU      0.97 290 Pn     16 01.70  -1.3
                  Pg     16 02.90
                  Sg     16 14.80
LLS      1.20 132 eP     16 06.40  -0.5
VDL      1.70 134 iPd    16 13.90  -0.5
TOD      2.06  20 ePg    16 04.70 -14.8X
RUP      2.07 348 ePg    16 23.60   3.9X
ABH      2.20 357 ePg    16 25.60   3.9X
LPL      2.27 198 Pn     16 20.40  -2.4X
                  Pg     16 26.80
LPG      2.28 197 Pn     16 20.80  -2.3X
                  Pg     16 27.20
                  Sg     16 57.30
LBF      2.63 256 Pn     16 24.00  -3.8X
                  Pg     16 33.60
                  Sg     17 06.20
LOR      2.65 262 Pn     16 25.30  -2.6X
                  Pg     16 34.00
                  Sg     17 07.30
SMF      2.84 250 Pn     16 27.80  -2.8X
                  Pg     16 37.80
                  Sg     17 12.80
SSF      2.92 259 Pn     16 29.50  -2.4X
                  Pg     16 39.00
                  Sg     17 15.40
GRF      3.08  48 ePg    16 42.30   8.3X
                  eSg    17 21.00
AVF      3.10 255 Pn     16 31.60  -2.7X
                  Pg     16 42.90
                  Sg     17 20.90
BGF      3.51 253 Pn     16 36.80  -3.3X
                  Pg     16 49.80
                  Sg     17 33.90
MAF      3.81 249 Pn     16 40.00  -4.5X
                  Pg     16 55.00
                  Sg     17 42.60
MOX      3.92  39 ePg    17 25.60  39.6X
                  iSg    17 49.90
KHC      4.17  67 ePn    16 52.00   2.5X
                  ePg    17 02.50
                  e      17 33.00
                  eSn    17 40.50
                  eSg    17 54.00
                  e      17 58.50
     S.D. = 0.6  on  14 of  29 obs.
-------------------------------------
?  OCT  22, 1993  23h 29m 46.95± 5.23s
   31.173 S ±19.7km   68.295 W ±32.0km
   DEPTH = 101.4 ± 52.0 km
 SAN JUAN PROVINCE, ARGENTINA     (137)

RTLL     0.22 224 ePd    30 01.80  -0.1
                  S      30 12.50
CFA      0.44 174 ePc    30 02.80   0.1
                  S      30 15.00
RTCB     0.53 234 ePd    30 03.50   0.0
                  S      30 14.50
RTPR     1.76  61 eP     30 17.00   0.0
                  S      30 40.00
MRA      2.52 120 e(P)d  30 27.00   0.0
     S.D. = 0.1  on   5 of   5 obs.
-------------------------------------
&  OCT  22, 1993  23h 38m 03.69s
   60.472 N          149.581 W
   DEPTH =  13.9km
 KENAI PENINSULA, ALASKA           ( 14)
     <AEIC>. ML 2.5 (AEIC).

SLKM     0.32 277 eP     38 10.00  -0.6
                  eS     38 17.00
SPU      1.41 302 iP     38 26.86  -2.0
                  eS     38 45.64
BKG      1.45 296 eP     38 27.30  -2.2
                  eS     38 46.25
CGLM     1.45 306 iP     38 27.72  -1.8
                  eS     38 46.63
CKN      1.48 302 eP     38 28.46  -1.5
                  eS     38 47.48
CRP      1.49 303 iP     38 28.69  -1.5
                  eS     38 47.81
CP2      1.53 303 eP     38 29.09  -1.6
CKL      1.53 299 eP     38 28.68  -2.1
                  eS     38 47.92
NCG      1.57 308 eP     38 29.48  -1.7
RED      1.58 269 eP     38 29.37  -2.1
BGL      1.59 301 eP     38 29.69  -1.8
                  eS     38 49.66
NCT      1.66 275 eP     38 30.08  -2.5
KLU      2.06  59 eP     38 40.00   1.7
                  eS     39 00.00
     13 obs. associated
-------------------------------------
?  OCT  23, 1993  01h 44m 39.34± 8.82s
   18.752 N ±26.6km   64.771 W ±71.3km
   DEPTH =  10.0km  (geophysicist)
 VIRGIN ISLANDS                    ( 91)

LPR      1.13 247 (P)    45 00.70   0.1
CPD      1.30 237 P      45 03.20  -0.2
SJG      1.46 244 P      45 05.60  -0.1
CLLP     1.84 249 P      45 11.70   0.5
APR      1.88 261 P      45 12.30   0.5
PNP      1.94 249 P      45 12.50  -0.2
MCP      2.24 262 P      45 16.40  -0.7
MGP      2.32 252 P      45 18.30   0.1
     S.D. = 0.5  on   8 of   8 obs.
-------------------------------------
   OCT  23, 1993  02h 32m 37.41± 0.44s
   40.750 N ± 3.8km   23.150 E ± 3.5km
   DEPTH =   5.0km  (geophysicist)
 GREECE                            (364)
     ML 2.3 (THE).

SOH      0.17  65 ePg    32 41.56   0.6
                  eSg    32 44.08
THE      0.18 230 ePg    32 41.66   0.5
                  eSg    32 44.20
KNT      0.45 335 ePg    32 46.36  -0.1
                  eSg    32 52.92
SRS      0.50  42 ePg    32 47.20  -0.2
                  eSg    32 54.36
GRG      0.60 290 ePg    32 49.54   0.0
                  eSg    32 58.44
VAY      0.72 323 ePn    32 51.60  -0.2
OUR      0.76 123 ePg    32 52.17  -0.4
                  eSg    33 02.44
LIT      0.82 218 ePg    32 53.48  -0.3
                  eSg    33 05.04
PAIG     0.92 154 ePg    32 55.36   0.0
                  eSg    33 07.84
FNA      1.35 272 ePb    33 03.00   0.2
                  eSb    33 22.00
     S.D. = 0.4  on  10 of  10 obs.
-------------------------------------
?  OCT  23, 1993  02h 52m 13.03± 2.59s
   10.830 N ±17.0km   62.024 W ±30.0km
   DEPTH =  70.0km  (geophysicist)
 NEAR COAST OF VENEZUELA           ( 97)
     MD 2.5 (TRN).

TCE      0.30 116 eP     52 24.06  -0.3
                  eS     52 35.01
TRN      0.64 106 eP     52 27.79   0.4
                  eS     52 40.24
BOT      1.33  75 eP     52 35.80  -0.2
GRW      1.37  15 eP     52 36.80   0.1
     S.D. = 0.5  on   4 of   4 obs.
-------------------------------------
   OCT  23, 1993  03h 58m 38.23± 0.71s
   21.540 N ± 8.6km  104.872 E ± 8.3km
   DEPTH =  33.0km  (normal)
   4.1mb (  2 obs.)
 SOUTHEAST ASIA                    (299)
     ML 4.2 (BJI).

KMI      4.07 332 ePn    59 40.00   0.1
                  Pg     59 52.50
                  Sg     00 46.00
LOE      5.07 216 eP     59 53.10  -0.9
GYA      5.16  18 Pn     59 56.40   1.0
                  Sn     00 53.00
```

23d 03h

```
QIZ      5.29 117 Pn    59 56.60  -0.5
                  Sn    00 56.60
CHTO     6.19 245 ePg   00 31.00  21.2X
                  eSg   01 40.60
GZH      7.99  77 P     00 35.00   0.0
XAN     12.96  15 P     01 41.00  -1.7
         0.7s      5.90nm          4.8mb
                  pP    01 43.50
                  sP    01 46.10
GUN     18.37 294 P     02 51.60  -1.0
GKN     19.46 293 P     03 07.00   1.6
WRA     50.30 143 P     07 35.20   1.3
         0.8s      0.40nm          3.5mb
     S.D. = 1.3  on   9 of  10 obs.
-----------------------------------
   OCT  23, 1993  04h 26m 42.18± 0.39s
   45.046 N ± 2.9km    7.361 E ± 4.8km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                    (545)
     ML 3.3 (GEN).

RSP      0.13 325 Pd    26 46.25   0.8
BHB      0.22 199 Pc    26 47.25   0.4
                  S     26 50.77
RRL      0.43 253 Pd    26 50.40  -0.6
                  S     26 55.04
LSD      0.44 341 Pc    26 51.38   0.2
                  S     26 56.74
PZZ      0.57 199 P     26 52.45  -1.4
                  S     26 58.88
LPL      0.65 317 Pg    26 54.70  -0.6
                  Sg    27 02.00
STV      0.80 182 P     26 56.04  -1.8
                  S     27 05.99
ENR      0.82 177 Pc    26 56.38  -1.7
                  S     27 07.02
ROB      0.83 154 P     26 58.09  -0.3
                  S     27 09.54
PCP      0.98 120 P     27 01.48   0.6
                  S     27 14.46
FIN      1.03 144 P     27 01.68   0.0
                  S     27 15.04
TOUF     1.04 184 Pg    27 03.84   2.0
                  Sg    27 25.00
AURF     1.16 181 Pg    27 06.66   2.8X
                  Sg    27 28.13
MVIF     1.16 187 Pg    27 04.58   0.6
                  Sg    27 25.03
SBF      1.18 177 Pg    27 04.20  -0.1
                  Sg    27 20.00
IMI      1.20 161 P     27 03.59  -0.9
FRF      1.57 199 Pg    27 10.60   0.5
                  Sg    27 32.00
LRG      1.75 205 Pg    27 14.40   1.7
                  Sg    27 35.40
LMR      1.82 200 Pg    27 15.40   1.7
                  Sg    27 37.80
BSF      2.81 352 Pn    27 28.90   0.8
                  Sn    27 59.30
                  Sg    28 10.80
SMF      2.93 304 Pn    27 30.00   0.3
                  Sn    28 02.10
HAU      3.04 347 Pn    27 30.20  -1.0
LBF      3.05 311 Pn    27 31.70   0.3
                  Sn    28 05.00
LOR      3.30 314 Pn    27 34.50  -0.4
                  Sn    28 10.80
AVF      3.30 303 Pn    27 34.60  -0.3
SSF      3.36 308 Pn    27 36.20   0.5
                  Sn    28 12.60
CDF      3.37 359 Pn    27 35.70  -0.3
BGF      3.50 297 Pn    27 37.70   0.0
                  Sn    28 14.10
MAF      3.56 291 Pn    27 38.20  -0.4
                  Sg    28 31.90
CAF      3.76 270 Pn    27 41.50   0.0
TCF      3.82 291 Pn    27 42.10  -0.2
RJF      4.14 276 Pn    27 46.70  -0.1
     S.D. = 0.9  on  31 of  32 obs.
-----------------------------------
%  OCT  23, 1993  04h 28m 14.44± 0.60s
   40.011 N ± 4.8km   23.204 E ± 4.3km
   DEPTH =   5.0km  (geophysicist)
 GREECE                            (364)
     ML 2.2 (THE).

PAIG     0.38 103 ePg   28 22.14   0.2
                  eSg   28 27.66
LIT      0.56 280 ePg   28 25.70   0.1
                  eSg   28 33.94
THE      0.65 344 ePg   28 27.21  -0.2
                  eSg   28 36.38
OUR      0.68  61 ePg   28 27.62  -0.4
                  eSg   28 38.18
SOH      0.82   8 ePg   28 30.62  -0.2
                  eSg   28 42.74
GRG      1.13 327 ePg   28 35.82  -0.2
                  eSg   28 51.46
SRS      1.14  15 ePg   28 37.02   0.7
                  eSg   28 52.50
KNT      1.17 349 ePg   28 36.74  -0.1
                  eSg   28 53.14
AGG      1.20 215 ePb   28 37.14  -0.1
                  eSb   28 55.46
     S.D. = 0.4  on   9 of   9 obs.
-----------------------------------
&  OCT  23, 1993  04h 44m 42.17s
   34.970 N          116.963 W
   DEPTH =   0.1km
 SOUTHERN CALIFORNIA               ( 43)
     <PAS-P>. ML 3.2 (PAS).

GSC      0.36  21 iPd   44 49.26   0.0
SSK      0.97 219 eP    45 00.30  -1.3
                  eS    45 12.96
PEC      1.09 189 iPd   45 02.54  -1.0
                  eS    45 17.41
ISA      1.42 300 ePc   45 07.82  -1.3
PLM      1.61 177 ePd   45 11.36  -0.8
ABL      1.86 267 eP    45 15.46  -0.3
TPNV     2.06  16 eP    45 17.70  -0.9
BCH      2.57 276 eP    45 23.85  -2.0
GLA      2.61 137 ePn   45 24.37  -2.0
                  ePg   45 30.82
MTUM     2.71 332 (P)   45 28.03   0.1
TNP      3.11 356 ePn   45 32.24  -1.4
                  ePg   45 39.51
MMPM     3.12 328 (P)   45 32.67  -1.2
BONR     3.17 340 ePn   45 31.50  -3.0
                  ePg   45 41.32
ARUT     4.00  44 ePn   45 44.98  -1.2
CMB      4.12 319 ePn   45 43.54  -4.2
     15 obs. associated
-----------------------------------
   OCT  23, 1993  05h 21m 42.10± 0.69s
   44.881 N ± 4.4km    9.583 E ± 7.0km
   DEPTH =  33.0km  (normal)
 NORTHERN ITALY                    (545)
     ML 2.9 (LDG).

PCP      0.81 246 P     21 58.16   1.0
                  S     22 09.01
FIN      1.19 236 P     22 02.69   0.2
                  S     22 16.78
TMA      1.32 338 iPc   22 05.50   0.9
ROB      1.36 245 P     22 05.71   0.8
IMI      1.55 232 P     22 08.14   0.3
VDL      1.61 357 iPc   22 10.40   1.7
BHB      1.65 269 P     22 08.73  -0.5
RSP      1.67 280 P     22 09.19  -0.4
PZZ      1.81 259 P     22 11.71   0.1
SBF      1.85 237 Pn    22 11.90  -0.2
                  Sn    22 33.90
LPG      2.10 288 Pn    22 15.90   0.1
LPL      2.11 289 Pn    22 16.50   0.5
PGF      2.37 190 Pn    22 19.40  -0.2
                  Sn    22 46.30
FRF      2.49 239 Pn    22 21.30   0.1
                  Sn    22 49.00
LMR      2.70 236 Pn    22 23.40  -0.7
                  Sn    22 53.60
LRG      2.72 240 Pn    22 24.30  -0.1
                  Sn    22 54.40
SLE      2.98 346 eP    22 27.90  -0.3
HAU      3.84 326 Pn    22 40.20  -0.2
                  Sn    23 22.70
CDF      3.87 337 Pn    22 40.10  -0.8
                  Sn    23 22.80
GEC2     4.87  34 Pn    22 54.20  -0.8
                  Sn    23 47.00
BGF      5.01 292 Pn    22 55.50  -1.4
     S.D. = 0.7  on  21 of  21 obs.
-----------------------------------
*  OCT  23, 1993  05h 46m 30.95± 2.21s
   14.151 N ±21.3km   92.740 W ±14.2km
   DEPTH =  36.0 ± 21.9 km
 NEAR COAST OF CHIAPAS, MEXICO     ( 69)
     MD 4.2 (GCG).

TPX      0.88  32 iPd   46 45.80  -1.2
                  iS    46 59.30
GCG      2.18  78 eP    47 06.54   0.8
                  eS    47 35.69
IXG      2.22  89 eP    47 05.70  -0.5
                  eS    47 35.88
SCX      2.57   2 iP    47 12.20   1.1
                  iS    47 43.00
YUP      2.85  89 eP    47 15.59   0.3
OXX      4.82 308 iP    47 48.80   5.5X
PPM      7.46 312 iP    48 20.50  -0.3
MBC     63.68 353 eP    57 00.50  -0.1
     S.D. = 1.1  on   7 of   8 obs.
-----------------------------------
%  OCT  23, 1993  05h 57m 41.80± 0.81s
   40.441 N ± 9.5km   29.262 E ± 6.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
     ML 2.7 (ISK).

HRT      0.49  39 iPg   57 51.70  -0.1
                  iSg   57 59.70
EYL      0.69  79 iPg   57 55.20  -0.4
DST      0.97 210 ePn   58 01.00   0.8
BNT      1.03 266 ePn   58 00.70  -0.5
EDC      1.07 265 ePn   58 01.10  -0.9
DMK      1.79 321 ePn   58 14.00   1.1
     S.D. = 1.0  on   6 of   6 obs.
-----------------------------------
%  OCT  23, 1993  06h 25m 45.26± 1.00s
   40.017 N ± 8.1km   23.216 E ± 5.9km
   DEPTH =   5.0km  (geophysicist)
 GREECE                            (364)
     ML 2.2 (THE).

PAIG     0.37 104 ePg   25 52.60  -0.1
                  eSg   25 58.12
LIT      0.56 279 ePg   25 56.72   0.2
                  eSg   26 04.88
THE      0.64 343 ePg   25 58.32   0.2
                  eSg   26 07.72
SOH      0.81   7 ePg   26 01.16  -0.3
                  eSg   26 13.36
GRG      1.13 327 ePg   26 06.24  -0.6
                  eSg   26 22.80
SRS      1.14  14 ePg   26 07.36   0.4
                  eSg   26 23.12
KNT      1.17 348 ePb   26 07.80   0.2
                  eSb   26 24.84
     S.D. = 0.4  on   7 of   7 obs.
-----------------------------------
%  OCT  23, 1993  06h 40m 15.09± 0.77s
   39.509 N ± 5.9km   26.862 E ± 6.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
     ML 3.1 (ISK).

EZN      0.52 308 iPg   40 25.50  -0.1
                  eSg   40 33.00
KGT      1.00  20 ePn   40 34.20   0.2
EDC      1.14  42 ePn   40 36.10  -0.3
IZM      1.15 164 iPn   40 36.80   0.1
MFT      1.32  14 iPn   40 39.70   0.2
DST      1.37  85 ePn   40 40.00  -0.2
IZI      2.17  67 ePn   40 52.00   0.1
     S.D. = 0.3  on   7 of   7 obs.
-----------------------------------
*  OCT  23, 1993  06h 57m 21.20± 1.39s
   31.664 S ±11.2km   68.145 W ± 9.4km
   DEPTH =  10.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA      (137)

CFA      0.10 305 ePc   57 24.90   1.0
                  S     57 29.50
RTCV     0.39 239 iPd   57 29.00  -0.2
RTLL     0.43 320 iPd   57 29.50  -0.6
                  S     57 38.00
RTCB     0.59 287 ePc   57 33.00  -0.1
                  S     57 43.50
RTPR     1.95  46 e(P)  57 54.60  -0.1
                  (S)   58 13.00
     S.D. = 0.8  on   5 of   5 obs.
```

```
---------------------------------------
&  OCT  23, 1993   06h 59m 33.82s
   39.104 N            119.582 W
   DEPTH =    6.7km
 NEVADA                                ( 37)
      <GM-P>. MD 3.0 (GM).

CMB     1.24 211 eP     59 55.21  -2.0
MEMM    1.52 160 eP     00 02.68   1.2
BONR    1.52 138 eP     00 02.61   0.8
                eS      00 21.52
ORV     1.55 287 eP     00 00.58  -1.4
                eS      00 19.81
HMR     1.98 242 eP     00 06.68  -1.4
ARN     2.33 222 (P)    00 14.42   1.2
MSU     5.82  93 (P)    01 02.60  -0.2
        7 obs. associated
---------------------------------------
%  OCT  23, 1993   07h 19m 33.99± 0.86s
   40.332 N ± 8.1km   29.393 E ± 6.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                                (366)
      ML 2.7 (ISK).

HRT     0.53  23 ePg    19 44.70  -0.1
                eSg     19 52.70
EYL     0.63  68 iPg    19 46.70   0.0
ISK     0.78 341 iPg    19 49.20   0.1
                iSg     20 00.70
DST     0.93 219 ePg    19 51.90   0.1
                eSg     20 03.90
BNT     1.13 272 ePn    19 55.70   0.6
EDC     1.17 271 ePn    19 55.10  -0.7
     S.D. = 0.6   on   6 of   6 obs.
---------------------------------------
   OCT  23, 1993   07h 22m 31.33± 0.20s
    1.873 N ± 3.8km  122.435 E ± 5.1km
   DEPTH =  52.8km  ( 17 depth phases)
   5.1mb ( 43 obs.)
 MINAHASSA PENINSULA, SULAWESI    (265)
      Mw 5.3 (HRV).
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 43S, 68C
      Centroid Location:
      Origin Time        07:22:33.4 0.3
      Lat  2.11N 0.02 Lon 122.43E 0.04
      Dep  47.9 2.6 Half-duration  1.1
      Moment Tensor;    Scale 10**16 Nm
        Mrr= 8.27 0.36  Mtt=-8.91 0.39
        Mff= 0.64 0.62  Mrt=-3.44 0.64
        Mrf=-0.98 0.56  Mtf= 0.22 0.38
       Principal Axes:
        T  Val=  9.06  Plg=77  Azm=148
        N        0.52       7       269
        P       -9.57      11         0
      Best Double Couple:Mo=9.3*10**16
       NP1:Strike= 98 Dip=35 Slip= 102
       NP2:        264      56        82

TSM     5.15 298 iPc    23 44.20  -3.7X
                iS      24 36.00
CTB     5.58  18 iPd    23 49.50  -4.3X
                iS      24 51.00
DAV     6.05  31 ePc    23 59.40  -1.1
                eS      25 09.10
BIP     7.36  31 ePc    24 17.00  -1.9
KKM     7.46 304 ePc    24 24.30   4.0X
MAP     8.53  10 iPc    24 32.00  -3.0X
PLP     9.57  15 ePc    24 46.00  -3.3X
TGY    12.24 353 ePd    25 25.00  -0.5
BCP    14.56 353 eP     25 38.00 -18.2X
CVP    15.74 358 ePd    26 15.00   3.7X
KNA    18.60 161 eP     26 45.00  -1.8
       0.7s    71.00nm          5.0mb
JAY    18.78 103 ePd    26 48.80  -0.3
QIZ    21.04 325 eP     27 12.00  -1.2
       1.4s   140.00nm          5.1mb
     N 16s     1.81um
                S       31 00.00
IPM    21.54 278 ePd    27 18.50   0.3
       1.2s    70.80nm          4.9mb
WWKK   21.87 104 eP     27 23.00   1.5
SNG    22.37 284 eP     27 29.50   3.1X
                eS      31 35.40
QZH    23.23 351 Pd     27 34.00  -0.8
     Z 18s     2.06um          4.6Msz
     N 18s     1.72um
                sP      27 46.00
WRA    24.63 152 P      27 48.20  -0.2
       1.1s    33.70nm          4.8mb
WB2    24.63 152 iPd    27 48.00  -0.4
       0.5s    85.10nm          5.5mb
                i       31 56.90
PJG    25.05  61 eP     27 29.30 -23.1X
NST    25.91 303 eP     28 01.00   0.6
LAT    25.95 109 eP     28 02.10   1.3
PMG    27.06 115 iPc    28 10.80  -0.2
       0.8s    77.61nm          5.4mb
ASPA   27.73 157 iPc    28 16.10  -0.9
       1.5s    48.90nm          4.9mb
                eS      32 54.60
QIS    27.93 144 eP     28 17.60  -1.2
                epP     28 33.60  68kmX
CHTO   28.52 308 eP     28 23.90  -0.3
GYA    28.76 330 P      28 26.60   0.2
       1.0s    18.00nm          4.7mb
     Z 22s     1.25um          4.5Msz
     N 12s     0.67um
     E 12s     0.46um
                S       33 12.00
SSE    29.09 358 P      28 29.00  -0.1
       1.4s    36.00nm          4.8mb
     Z 20s     1.83um          4.7Msz
     N 18s     1.40um
     E 18s     1.33um
                esP     28 46.00
                PP      29 28.00
                S       33 20.00
WHN    29.53 346 Pc     28 34.20   1.1
       0.9s    27.00nm          4.9mb
     N 17s     1.62um
                sP      28 47.50
                eS      33 22.00
KMI    29.92 322 eP     28 34.50  -2.4
       1.5s    60.00nm          5.1mb
     Z 24s     2.20um          4.7MszX
     E 13s     1.30um
                pP      28 44.00  33kmX
                S       33 34.00
NJ2    30.21 354 Pc     28 40.00   0.9
       1.2s    29.00nm          4.9mb
     Z 20s     0.89um          4.4Msz
     N 15s     1.03um
MRWA   31.52 191 eP     28 48.50  -2.2
       0.5s    11.00nm          4.9mb
CTA    31.97 134 iPc    28 55.50   0.7
                i       29 10.00  58km
FORT   32.91 171 eP     29 02.40  -0.4
KLB    33.58 187 eP     29 06.00  -2.6
CD2    33.86 330 eP     29 10.10  -1.0
       0.8s    27.00nm          5.2mb
     Z 18s     1.37um          4.7Msz
                S       34 30.00
XAN    34.40 340 P      29 15.50  -0.3
       0.6s     6.50nm          4.7mb
     Z 18s     2.35um          5.0Msz
     N 18s     1.62um
     E 16s     0.77um
                pP      29 28.00  47km
                PP      30 28.00
                S       34 40.00
TIA    34.52 352 eP     29 16.80   0.2
     Z 22s     1.23um          4.6Msz
     N 17s     1.25um
                eS      34 37.00
NWAO   34.96 188 eP     29 19.00  -1.4
       0.7s     5.00nm          4.6mb
TIY    36.83 347 Pc     29 37.00   0.7
                pP      29 50.60  51km
MAT    37.45  21 eP     29 54.00  12.5X
       1.1s    30.38nm
                eS      35 34.00
SHL    37.69 311 iP     29 44.50   0.7
                eS      35 32.00
LZH    38.15 335 eP     29 48.00   0.5
       2.0s    27.00nm          4.8mb
     Z 25s     1.12um          4.6MszX
     E 15s     0.73um
                PP      31 17.00
                eS      35 36.00
STK    38.17 153 eP     29 47.90   0.4
BJI    38.41 352 eP     29 50.00   0.6
       1.4s    24.00nm          4.9mb
     Z 22s     1.36um          4.7Msz
     N 19s     0.95um
                eS      35 40.00
ADE    39.70 159 eP     30 00.90   0.6
SNY    39.79   1 iPc    30 01.10   0.3
       1.2s    58.00nm          5.3mb
     Z 23s     1.78um          4.8MszX
     E 15s     0.80um
                pP      30 11.00  34kmX
HHC    40.03 347 P      30 04.00   1.0
       1.6s    37.00nm          5.0mb
     Z 26s     2.12um          4.9MszX
     N 20s     0.99um
     E 18s     1.22um
                pP      30 17.60  52km
                S       36 06.00
BTO    40.16 345 P      30 05.00   0.9
     N 17s     0.64um
     E 17s     0.68um
                PP      31 43.00
                S       36 10.00
LSA    40.61 316 P      30 10.10   1.8
                pP      30 23.70  52km
                S       36 17.00
CN2    41.83   3 eP     30 17.00  -0.6
       1.0s     7.00nm          4.4mb
     Z 20s     0.74um          4.6Msz
     N 15s     0.37um
     E 15s     0.38um
ARMA   42.49 141 iPd    30 24.30   0.9
       0.6s    28.00nm          5.2mb
                epP     30 39.00  57km
                e       34 33.00
GTA    42.67 334 eP     30 25.50   0.8
       1.5s    14.00nm          4.5mb
     Z 18s     1.60um          5.0Msz
     E 15s     0.66um
                pP      30 39.50  53km
                sP      30 46.20
                PP      32 05.00
                PcP     32 16.00
                ScP     36 03.00
                eS      36 46.00
                ScS     40 20.00
MDJ    43.03   7 Pc     30 27.80   0.4
       1.8s   110.00nm          5.3mb
GUN    43.48 310 P      30 31.20  -0.5
PKI    43.67 309 P      30 32.80  -0.5
       0.6s    15.00nm          4.9mb
KKN    43.88 309 P      30 34.10  -0.7
GKN    44.48 309 P      30 40.20   0.6
       0.7s    34.00nm          5.2mb
CAN    44.57 149 iPc    30 40.80   0.7
                i       30 49.50
                ipP     30 56.00  59km
                iPP     32 23.30
TOO    44.68 154 iPd    30 42.00   1.1
       0.8s    78.00nm          5.6mb
CNB    44.76 148 iPd    30 42.90   1.3
       0.6s    32.00nm          5.3mb
HYB    45.78 293 eP     30 50.50   0.6
       1.0s    30.00nm          5.2mb
                e       31 03.50  48km
GBA    45.99 287 P      30 52.00   0.5
DZM    49.11 122 iPc    31 16.30   0.3
POO    50.39 293 iP     31 27.80   2.0
CIT    50.50 353 eP     31 26.00  -0.1
NDI    50.65 306 iP     31 26.50  -1.0
WMQ    51.91 328 P      31 38.00   1.0
       1.0s    28.00nm          5.2mb
     Z 24s     1.14um          4.8MszX
IRK    52.46 346 ePc    31 40.80  -0.1
       1.4s    11.00nm          4.7mb
     Z 18s     0.97um          4.9Msz
     N 17s     0.60um
     E 15s     0.33um
                e       31 55.00  53km
UER    54.94 339 ePd    31 58.30  -0.8
       2.2s   100.00nm          5.5mb
                eS      39 40.50
KSH    56.38 318 eP     32 10.50   0.6
     Z 24s     1.21um          4.9MszX
     N 14s     0.64um
     E 14s     0.91um
                pP      32 20.00  31kmX
                sP      32 26.00
                PcP     33 04.00
```

23d 07h

```
                PP    34 19.00
                ScP   37 00.00
                PcS   37 05.00
                eS    40 03.00
                sS    40 20.00
                ScS   41 55.00
FRU    58.96 320 eP    32 27.00   -0.8
     Z  24s     0.50um          4.6MszX
                e     32 42.50   58km
                e     34 42.20
YAK    60.25   4 iPd   32 35.40   -0.8
       0.9s    51.00nm          5.7mb
     Z  17s     0.40um          4.6MszX
     N  18s     0.50um
                i     32 50.00   53km
                eS    40 43.00
MAIO   67.27 309 iPd   33 23.20    0.3
                eS    42 20.00
CSY    68.54 185 eP    33 39.30    9.2X
       0.7s    16.90nm          5.1mb
TIK    69.78   2 eP    33 33.00   -4.6X
       2.0s    41.00nm          5.0mb
     Z  18s     0.70um          5.0Msz
                i     33 51.00   67kmX
                ePPP  37 53.00
                eS    42 40.00
                e     43 25.00
NRI    71.19 348 ePd   33 45.00   -1.2
       2.6s    55.00nm          5.0mb
     Z  18s     2.40um          5.5Msz
                e     33 58.00   45km
                e     36 26.00
                eS    42 59.00
SVE    73.33 330 ePd   33 59.00   -0.1
       2.1s   100.00nm          5.4mb
     N  20s     0.40um
     E  20s     0.20um
ILT    76.96  19 eP    34 32.00   12.4X
GRO    79.09 314 eP    34 32.00    0.2
ERE    79.58 310 eP    34 41.00    6.3X
                i     44 40.00
MAW    80.56 200 eP    34 39.40    0.2
       1.6s    38.90nm          5.1mb
                ipP   34 53.70   50km
SVW    84.47  29 eP    35 01.62    2.1X
       0.9s     7.32nm          4.8mb
                epP   35 16.79   53km
TTA    84.49  27 eP    34 59.62    0.0
       1.1s    12.80nm          4.9mb
                epP   35 16.16   58km
IMA    85.81  24 e(P)  35 06.40    0.1
OBN    86.08 325 eP    35 06.00   -1.6
       1.2s    44.00nm          5.5mb
                e     35 21.00   52km
                e     45 40.00
FBA    88.22  25 e(P)  35 16.90   -0.9
TOA    89.01  28 eP    35 20.50   -1.2
       1.1s    34.50nm          5.6mb
BUL    94.23 250 iP    35 46.60   -0.1
       0.9s    10.50nm          5.3mb
MSU   115.72  45 ePKP  41 10.61    0.3
PV10  117.98  44 ePKP  41 14.39   -0.2
PV08  118.16  44 ePKP  41 14.75   -0.3
RFA   145.73 164 ePKPc 42 07.00    0.8X
PEL   146.55 160 iPKP  42 09.00    1.4
       1.0s   155.00nm
MRA   148.67 167 e(PKP)42 12.20    1.3
RTCB  148.69 161 ePKPc 42 14.50    3.4X
RTLL  148.94 162 ePKPc 42 15.20    3.8X
TCA   149.95 168 ePKP  42 18.00    5.0X
CNCB  161.96 146 PKP   42 31.80    2.6X
LPB   162.12 145 PKP   42 31.00    1.8
LPAZ  162.30 145 PKP   42 32.50    2.9X
CCH   162.44 152 PKP   42 31.30    2.0
     S.D. = 1.0  on  81 of 102 obs.
-----------------------------------
?  OCT  23, 1993  07h 47m 30.69± 5.57s
   31.441 S ±28.1km   69.503 W ±45.7km
   DEPTH = 127.1 ± 26.0 km
 SAN JUAN PROVINCE, ARGENTINA     (137)

RTCB    0.60  95 iPc   47 51.00    0.6
                S     48 03.00
ZON     0.71  99 iPd   47 48.90   -2.3
                eS    47 58.90
RTLL    0.89  83 iPc   47 53.00    0.3
                S     48 07.50
RTCV    0.92 117 iPc   47 53.90    0.9
                S     48 08.60
CFA     1.09  99 iPd   47 55.10    0.5
                S     48 11.10
RTPR    2.81  67 e(P)  48 16.00    0.7
                S     48 48.00
MRA     3.37 108 iPc   48 23.00    0.3
                S     49 00.50
RFA     3.43 166 iPc   48 23.70    0.0
                S     49 02.00
TCA     4.20  90 iP    48 33.00   -1.0
                (S)   49 18.00
     S.D. = 1.3  on   9 of   9 obs.
-----------------------------------
%  OCT  23, 1993  07h 58m 37.75± 0.56s
   40.338 N ± 5.5km   29.410 E ± 4.4km
   DEPTH =  13.2 ±  5.2 km
 TURKEY                           (366)
      ML 3.1 (ISK).

HRT     0.52  22 iPg   58 47.70   -0.6
EYL     0.61  68 iPg   58 50.10    0.2
GPA     0.69  94 iPg   58 50.50   -0.6
                eSg   59 01.00
ISK     0.77 340 iPg   58 52.40   -0.1
                iSg   59 04.50
DST     0.95 220 iPg   58 55.20   -0.3
                eSg   59 07.40
CTT     1.10 318 iPg   58 58.20    0.1
BNT     1.14 271 ePg   58 58.70   -0.1
EDC     1.18 271 ePg   58 59.10   -0.4
ALT     1.39 157 iPn   59 03.70    0.8
KGT     1.61 275 ePn   59 05.70   -0.2
MFT     1.68 286 ePn   59 06.00   -1.0
DMK     1.94 320 ePn   59 12.50    1.8
EZN     2.42 259 ePn   59 18.00    0.4
     S.D. = 0.8  on  13 of  13 obs.
-----------------------------------
%  OCT  23, 1993  08h 08m 49.65± 0.86s
   39.165 N ± 6.8km   27.621 E ± 8.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 2.8 (ISK).

IZM     0.82 200 ePg   09 05.50    0.0
                eSg   09 18.20
DST     0.90  60 ePn   09 06.80   -0.1
EDC     1.20   9 ePn   09 12.10    0.2
EZN     1.20 304 ePn   09 12.00    0.0
KGT     1.31 349 iPn   09 13.70   -0.1
     S.D. = 0.2  on   5 of   5 obs.
-----------------------------------
   OCT  23, 1993  08h 18m 15.95± 0.61s
   45.439 N ± 6.6km    6.792 E ± 7.8km
   DEPTH =   5.0km  (geophysicist)
 FRANCE                           (538)
      ML 2.3 (LDG), 2.3 (GEN).

LPG     0.07 334 Pg    18 16.70   -1.1
                Sg    18 19.10
LPL     0.09 332 Pg    18 16.30   -1.8
                Sg    18 18.40
LSD     0.26  86 P     18 21.60    0.4
                S     18 27.18
RSP     0.44 131 P     18 25.24    0.5
                S     18 33.13
RRL     0.52 181 P     18 25.85   -0.5
                S     18 34.79
BHB     0.68 151 P     18 29.53   -0.1
PZZ     0.96 167 P     18 34.11   -0.7
                S     18 48.13
SMF     2.38 301 Pg    18 55.50   -0.8
                Sg    19 24.40
LOR     2.73 313 Pg    19 02.00    0.7
AVF     2.75 301 Pg    19 03.90    2.4
                Sg    19 35.70
SSF     2.80 307 Pg    19 03.00    0.8
                Sg    19 35.80
     S.D. = 1.3  on  11 of  11 obs.
-----------------------------------
?  OCT  23, 1993  08h 35m 44.19± 2.60s
   31.213 S ±36.2km   68.206 W ±30.6km
   DEPTH =  92.8 ± 42.7 km
 SAN JUAN PROVINCE, ARGENTINA     (137)

RTLL    0.25 243 iPd   35 57.80   -0.2
                S     36 08.00
CFA     0.39 184 ePc   35 59.10    0.4
                S     36 10.50
RTCB    0.58 242 eP    36 00.00   -0.2
                S     36 12.00
RTRS    1.50 314 iPd   36 10.50    0.1
                S     36 32.00
MRA     2.44 120 ePc   36 22.80   -0.1
     S.D. = 0.5  on   5 of   5 obs.
-----------------------------------
   OCT  23, 1993  09h 03m 54.94± 0.82s
   39.139 N ± 6.4km   27.586 E ± 8.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 2.8 (ISK).

IZM     0.78 199 ePg   04 10.20    0.0
                eSg   04 22.70
DST     0.93  60 ePn   04 12.80    0.0
EZN     1.19 306 ePn   04 17.10   -0.1
EDC     1.23  10 ePn   04 17.10   -0.6
BNT     1.24  12 ePn   04 18.40    0.4
KGT     1.33 351 iPn   04 19.70    0.3
     S.D. = 0.4  on   6 of   6 obs.
-----------------------------------
?  OCT  23, 1993  09h 13m 43.08± 0.95s
   39.029 N ± 9.6km   27.558 E ±11.9km
   DEPTH =  33.0km  (normal)
 TURKEY                           (366)
      ML 2.7 (ISK).

IZM     0.67 200 ePg   13 56.20    0.0
                eSg   14 08.70
DST     1.01  55 ePn   14 00.90   -0.1
EZN     1.24 310 iPn   14 04.10   -0.1
BNT     1.35  12 ePn   14 06.00    0.2
     S.D. = 0.2  on   4 of   4 obs.
-----------------------------------
&  OCT  23, 1993  09h 46m 56.57s
   58.080 N          152.190 W
   DEPTH =  27.5km
 KODIAK ISLAND REGION             ( 13)
      <AEIC>. ML 3.0 (AEIC).

KDC     0.37 206 iPc   47 03.92   -0.9
                eS    47 10.37
SYI     0.54 349 iP    47 06.65   -0.9
                eS    47 15.05
CDD     1.14 319 iP    47 15.24   -1.6
                eS    47 29.47
XLV     1.40  10 eP    47 19.47   -1.0
AUI     1.41 333 eP    47 19.46   -1.2
                eS    47 38.22
AUE     1.42 335 eP    47 19.76   -1.0
AGU     1.44 334 eP    47 20.07   -1.0
AUP     1.44 334 eP    47 19.84   -1.2
AUH     1.44 334 iP    47 20.13   -1.0
AUW     1.46 333 eP    47 20.30   -0.9
AUL     1.46 334 eP    47 20.34   -0.9
CNPM    1.53  18 P     47 20.86   -1.5
                eS    47 39.31
MCNL    1.58 316 eP    47 21.49   -1.5
HOM     1.61  10 iP    47 22.18   -1.3
OPT     1.67 342 iP    47 23.07   -1.3
BRLK    1.82  21 eP    47 24.29   -2.3
                eS    47 45.60
PDB     2.00 330 iP    47 26.97   -2.2
NNL     2.02  13 eP    47 27.69   -1.8
INE     2.04 348 eP    47 27.85   -2.0
ILIM    2.05 349 iP    47 27.72   -2.1
RED     2.37 353 eP    47 32.21   -2.2
RS1     2.41 353 P     47 35.00   -0.1
RSO     2.41 353 eP    47 33.05   -2.1
RS2     2.41 353 eP    47 33.10   -2.0
RDW     2.43 353 eP    47 33.33   -2.1
REF     2.43 354 iP    47 33.28   -2.2
SEW     2.47  34 eP    47 32.44   -3.4
                eS    47 58.97
RDT     2.50 358 iP    47 33.74   -2.7
NCT     2.52 352 iP    47 34.35   -2.3
DFR     2.53 354 iP    47 34.45   -2.4
SLKM    2.64  22 iP    47 35.09   -3.1
NKA     2.72  10 eP    47 37.94   -1.3
MPA     2.82  30 eP    47 37.61   -3.1
LTI     2.98  47 eP    47 40.24   -2.8
BKG     3.00 359 eP    47 40.46   -3.0
SPU     3.11   1 eP    47 42.33   -2.7
CKL     3.13 359 eP    47 42.48   -2.8
```

```
CKT     3.13 360 eP     47 43.03  -2.3
CKN     3.15   0 eP     47 43.67  -1.9
CP2     3.19 360 eP     47 43.51  -2.8
BGL     3.20 358 eP     47 43.97  -2.2
CRP     3.20   0 eP     47 42.91  -3.4
KNIM    3.23  43 eP     47 43.38  -3.2
CGLM    3.24   2 P      47 44.45  -2.4
NCG     3.33   0 eP     47 45.32  -2.9
PWL     3.41  34 eP     47 45.56  -3.7
PMS     3.44  22 P      47 46.20  -3.5
SUA     3.47  12 eP     47 46.79  -3.4
SVW     3.50 332 eP     47 46.92  -3.6
HIN     3.73  49 eP     47 50.14  -3.6
PWA     3.77  17 P      47 51.40  -2.8
CFI     3.84  34 iP     47 51.05  -4.1
KNK     3.84  28 eP     47 51.24  -4.0
PLRM    3.85  22 eP     47 51.69  -3.6
SKT     3.93   5 eP     47 53.39  -3.1
FID     3.96  45 eP     47 52.39  -4.6
GHO     4.05  23 eP     47 54.43  -3.9
CVA     4.12  50 eP     47 55.46  -3.8
SML     4.21  26 eP     47 57.10  -3.5
VLZ     4.27  42 eP     47 57.67  -3.6
SGAM    4.33  53 eP     47 58.46  -3.7
BALM    5.82  55 eP     48 19.27  -4.1
        62 obs. associated
-----------------------------------
% OCT 23, 1993  09h 47m 09.79± 0.88s
  39.341 N ± 7.4km   27.718 E ± 8.5km
  DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
     ML 2.7 (ISK).

DST     0.75  69 ePg    47 24.80   0.3
IZM     1.01 201 ePg    47 28.70  -0.2
                 eSg    47 43.70
EDC     1.01   6 ePg    47 28.10  -0.8
BNT     1.03   9 ePn    47 29.60   0.4
EZN     1.18 295 ePn    47 32.10   0.3
     S.D. = 0.7  on   5 of   5 obs.
-----------------------------------
% OCT 23, 1993  10h 14m 43.79± 0.85s
  39.105 N ± 6.9km   27.562 E ± 8.9km
  DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
     ML 2.7 (ISK).

IZM     0.74 198 ePg    14 58.40   0.0
                 eSg    15 10.70
DST     0.97  59 ePn    15 02.20   0.0
EZN     1.20 307 ePn    15 06.10   0.0
EDC     1.26  11 ePn    15 07.10  -0.1
BNT     1.28  12 ePn    15 07.60   0.1
     S.D. = 0.1  on   5 of   5 obs.
-----------------------------------
% OCT 23, 1993  10h 44m 42.25± 0.87s
  39.271 N ± 7.3km   27.721 E ±8.6km
  DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
     ML 2.7 (ISK).

DST     0.78  64 ePg    44 57.70   0.3
IZM     0.94 202 ePg    45 00.10  -0.1
                 eSg    45 14.50
EDC     1.08   6 ePn    45 02.00  -0.6
BNT     1.09   8 ePn    45 03.00   0.2
EZN     1.21 298 iPn    45 05.10   0.3
     S.D. = 0.5  on   5 of   5 obs.
-----------------------------------
* OCT 23, 1993  10h 58m 18.96± 3.60s
  41.590 N ±12.6km   19.327 E ±28.4km
  DEPTH =  10.0km  (geophysicist)
 ALBANIA                         (391)
     ML 2.1 (TIR).

LACI    0.29  81 ePg    58 25.00   0.0
                 iSg    58 28.00
TIR     0.47 121 iPgc   58 27.00  -1.5
                 iSg    58 35.50
SDA     0.48  15 ePg    58 28.00  -0.7
OHR     1.21 113 ePn    58 41.20  -0.3
SKO     1.63  76 ePn    58 48.80   1.1
FNA     1.74 117 eP     58 50.76   1.3
                 eS     59 13.76
GRG     2.40 104 eP     58 59.12   0.1
     S.D. = 1.2  on   7 of   7 obs.
-----------------------------------
% OCT 23, 1993  11h 12m 40.48± 0.69s
  39.985 N ± 5.9km   23.204 E ± 4.8km
  DEPTH =   5.0km  (geophysicist)
 AEGEAN SEA                      (365)
     ML 1.8 (THE).

PAIG    0.37  99 ePg    12 48.26   0.3
                 eSg    12 54.14
LIT     0.56 282 ePg    12 52.38   0.7
                 eSg    13 00.46
THE     0.67 344 ePg    12 53.66  -0.3
                 eSg    13 02.74
OUR     0.69  59 ePg    12 54.38   0.1
                 eSg    13 04.18
SOH     0.84   8 ePg    12 56.94  -0.3
                 eSg    13 09.02
GRG     1.15 328 ePg    13 02.50   0.1
                 eSg    13 17.90
AGG     1.18 215 ePb    13 02.38  -0.5
                 eSb    13 19.94
     S.D. = 0.5  on   7 of   7 obs.
-----------------------------------
% OCT 23, 1993  11h 16m 18.15± 0.89s
  40.030 N ± 7.3km   23.217 E ± 4.7km
  DEPTH =   5.0km  (geophysicist)
 GREECE                          (364)
     ML 1.8 (THE).

PAIG    0.37 106 ePg    16 25.60   0.0
                 eSg    16 31.16
LIT     0.56 277 ePg    16 29.40   0.0
                 eSg    16 38.32
THE     0.63 342 ePg    16 30.96   0.2
                 eSg    16 40.08
OUR     0.66  62 ePg    16 31.36   0.0
                 eSg    16 40.96
SOH     0.80   7 ePg    16 34.24   0.1
                 eSg    16 45.96
GRG     1.12 326 ePg    16 39.68   0.1
                 eSg    16 55.04
SRS     1.12  15 ePg    16 39.68   0.0
                 eSg    16 55.28
KNT     1.16 348 ePb    16 39.80  -0.4
                 eSb    16 57.40
     S.D. = 0.2  on   8 of   8 obs.
-----------------------------------
   OCT 23, 1993  11h 54m 48.56± 0.56s
  40.019 N ± 4.5km   23.210 E ± 4.1km
  DEPTH =   5.0km  (geophysicist)
 GREECE                          (364)
     ML 2.1 (THE).

PAIG    0.37 104 ePg    54 56.22   0.2
                 eSg    55 01.74
LIT     0.56 279 ePg    54 59.94   0.2
                 eSg    55 08.22
THE     0.64 343 ePg    55 01.42   0.0
                 eSg    55 10.86
OUR     0.67  62 ePg    55 01.74  -0.2
                 eSg    55 12.18
SOH     0.81   8 ePg    55 04.38  -0.4
                 eSg    55 16.46
GRG     1.12 327 ePg    55 09.82  -0.2
                 eSg    55 26.18
SRS     1.14  15 ePg    55 10.74   0.5
                 eSg    55 26.50
KNT     1.17 348 ePg    55 11.06   0.2
                 eSg    55 28.30
AGG     1.21 215 ePb    55 11.38  -0.1
                 eSb    55 29.70
VAY     1.39 340 ePn    55 14.40  -0.2
     S.D. = 0.3  on  10 of  10 obs.
-----------------------------------
? OCT 23, 1993  12h 14m 07.05± 0.91s
  39.644 N ± 9.7km   29.448 E ± 7.9km
  DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
     ML 2.8 (ISK).

DST     0.63 267 ePg    14 19.50  -0.3
                 eSg    14 29.00
ALT     0.78 139 ePg    14 22.40   0.1
                 eSg    14 36.00
EYL     1.07  30 ePn    14 27.10  -0.2
EDC     1.41 300 ePn    14 33.10   0.4
     S.D. = 0.6  on   4 of   4 obs.
-----------------------------------
* OCT 23, 1993  12h 24m 51.04± 1.10s
  26.101 S ±11.0km   27.121 E ±14.2km
  DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA        (584)
     mbLg 3.4 (BUL). ML 3.3 (PRE).

BFS     0.85 201 eP     25 09.90   1.9
                 S      25 19.50
SLR     1.11  71 iPd    25 13.50   1.1
                 S      25 26.40
SEK     2.26 169 eP     25 28.10  -1.7
                 S      25 52.10
BFT     2.66  82 eP     25 35.50  -0.1
                 S      26 04.00
BLF     3.11 195 iPc    25 42.10   0.3
                 S      26 15.50
FRS     3.97 203 eP     25 53.90   0.0
                 S      26 36.00
HVD     4.71 197 e(P)   26 03.50  -1.1
                 S      26 51.10
BUL     6.09  13 iPn    26 28.90   4.9X
                 iSn    27 37.70
                 iSg    28 12.30
SUR     8.34 220 eP     27 03.00   7.4X
                 S      28 33.00
KRI     9.51  15 iPn    27 11.20  -0.7
                 iSn    28 53.00
                 iSg    29 47.00
WIN     9.79 289 eP     27 38.00  22.2X
                 S      29 24.50
CER     9.93 221 eP     27 14.90  -2.6X
                 S      28 55.50
TUH     9.97 222 eP     27 16.10  -1.9X
                 S      29 08.50
     S.D. = 1.4  on   8 of  13 obs.
-----------------------------------
   OCT 23, 1993  12h 26m 46.06± 0.65s
  41.449 S ± 5.9km  172.275 E ± 6.3km
  DEPTH =  20.7 ±  5.6 km
 SOUTH ISLAND, NEW ZEALAND       (162)
     ML 4.1 (WEL).

DSZ     0.46 230 Pc     26 55.80   0.3
THZ     0.57 124 Pd     26 55.30  -2.0
                 S      27 02.20
QRZ     0.65  17 Pd     26 58.20  -0.4
                 S      27 07.30
LTZ     1.33 180 P      27 10.80   1.2
                 S      27 29.70
KHZ     1.35 136 P      27 10.80   1.0
                 S      27 28.40
DIW     1.40  63 P      27 10.20  -0.3
TCW     1.53  82 P      27 12.00  -0.3
MRW     1.84  84 P      27 17.60   0.7
                 S      27 40.70
WEL     1.88  86 P      27 19.00   1.5
WVZ     1.99 215 P      27 19.40   0.4
KIW     2.07  75 P      27 21.30   1.0
CAW     2.13  82 P      27 22.20   1.1
MQZ     2.27 173 P      27 22.60  -0.5
                 eS     27 49.80
BLW     2.41  89 P      27 24.50  -0.5
MTW     2.45  84 P      27 25.50  -0.1
NRZ     2.46  32 eP     27 27.30   1.6
MNG     2.56  72 eP     27 27.50   0.2
PGZ     3.14  76 P      27 34.20  -1.1
MOZ     3.52  34 P      27 40.70  -0.1
ODZ     3.79 198 P      27 43.60  -1.0
MSZ     4.53 223 eP     27 54.50  -0.6
URZ     4.90  51 eP     27 57.90  -2.4
     S.D. = 1.1  on  22 of  22 obs.
-----------------------------------
% OCT 23, 1993  12h 39m 42.81± 2.29s
  13.915 N ±23.4km   92.931 W ±13.6km
  DEPTH =  33.0km  (normal)
 OFF COAST OF CHIAPAS, MEXICO    ( 68)

TPX     1.18  33 iPd    40 01.80  -1.2
                 iS     40 14.50
IXG     2.42  84 eP     40 21.21   0.2
                 eS     40 52.23
SCX     2.82   6 iP     40 27.70   1.2
                 iS     40 58.50
YUP     3.05  84 eP     40 30.18   0.2
OXX     4.82 311 (P)    41 05.50  10.3X
PPM     7.49 314 (P)    41 32.70  -0.3
     S.D. = 1.3  on   5 of   6 obs.
```

```
-------------------------------------
%  OCT  23, 1993  12h 50m 10.77± 3.23s
   39.125 N ±26.2km   27.514 E ± 9.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      ML 2.7 (ISK).

DST      0.99  61 ePn   50 29.50   0.0
EZN      1.16 308 ePn   50 32.10  -0.3
EDC      1.25  12 ePn   50 33.20  -0.8
BNT      1.27  14 ePn   50 34.60   0.3
MFT      1.67 354 ePn   50 41.00   0.8
     S.D. = 0.8  on   5 of   5 obs.
-------------------------------------
   OCT  23, 1993  13h 26m 42.12± 0.52s
   29.773 N ± 9.7km   51.103 E ± 6.8km
   DEPTH =  33.0km  (normal)
   4.3mb (  6 obs.)
 SOUTHERN IRAN                       (353)

RYD      6.43 220 eP    28 18.50   1.5
                  eS    29 27.00
MJMA     6.46 234 eP    28 16.67  -0.8
QASM     7.63 243 eP    28 32.33  -1.6
                  eS    29 58.00
UQSK     8.70 245 eP    28 49.00   0.3
MLR     25.22 315 eP    32 08.00   1.5
GKN     29.36  85 P     32 44.50   0.0
DMN     29.85  86 P     32 49.00   0.0
KKN     29.96  85 P     32 50.00   0.1
        0.6s    11.00nm          4.8mb
PKI     30.12  86 P     32 51.20  -0.3
GUN     30.45  85 P     32 54.50   0.0
GEC2    34.19 314 P     33 26.10  -0.5
        0.5s     0.57nm          3.7mb
LPG     37.96 307 eP    34 00.40   1.7
        0.8s     3.75nm          4.3mb
LPL     37.97 307 eP    34 00.30   1.5
HFS     39.34 331 eP    34 08.70  -1.0
        0.5s     2.80nm          4.3mb
SMF     40.13 308 eP    34 14.60  -1.8
        1.4s    19.15nm          4.7mb
NB2     40.86 332 P     34 21.50  -0.8
        0.9s     2.10nm          3.9mb
     S.D. = 1.2  on  16 of  16 obs.
-------------------------------------
?  OCT  23, 1993  14h 20m 19.64± 4.40s
   40.757 N ±63.3km   29.998 E ±50.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      ML 2.8 (ISK).

EYL      0.23 148 iPg   20 24.50  -0.1
HRT      0.26 285 iPg   20 25.00  -0.1
ISK      0.78 294 iPg   20 34.60  -0.1
                  iSg   20 44.60
CTT      1.25 289 iPn   20 43.10   0.2
     S.D. = 0.3  on   4 of   4 obs.
-------------------------------------
*  OCT  23, 1993  14h 27m 54.07± 3.00s
   41.699 N ±24.4km    7.691 E ± 8.4km
   DEPTH =  10.0km  (geophysicist)
 WESTERN MEDITERRANEAN SEA           (387)
      ML 3.3 (LDG).

PGF      1.29  48 Pn    28 18.60   0.5
                  Sn    28 33.10
LMR      1.85 332 Pn    28 26.50   0.4
                  Sn    28 47.20
LRG      2.01 331 Pn    28 29.10   0.7
                  Sn    28 51.40
FRF      2.01 338 Pn    28 28.70   0.2
                  Sn    28 51.00
SBF      2.17 355 Pn    28 31.00   0.2
                  Sn    28 54.10
AURF     2.20 353 Pn    28 30.81  -0.5
IMI      2.21   4 P     28 30.80  -0.6
AUTN     2.30 355 Pn    28 32.46  -0.4
                  Sg    28 57.74
TOUF     2.34 352 Pn    28 32.40  -0.9
                  Sg    28 59.82
ENR      2.53 356 P     28 36.13   0.1
FIN      2.54   8 P     28 35.47  -0.5
STV      2.56 354 P     28 36.90   0.6
ROB      2.60   3 P     28 37.08   0.2
PZZ      2.84 351 P     28 41.58   1.2
PCP      2.91  12 P     28 40.78  -0.5
BHB      3.16 354 P     28 45.01   0.3
RRL      3.29 349 P     28 48.79   2.0
RSP      3.47 355 P     28 49.17  -0.1
LPG      3.86 350 Pn    28 57.50   2.5X
LPL      3.88 350 Pn    28 57.80   2.6X
CAF      5.22 310 Pn    29 13.90  -0.2
LPO      5.61 304 Pn    29 19.30  -0.3
BGF      5.98 326 Pn    29 24.40  -0.3
HAU      6.38 352 Pn    29 28.20  -2.2
     S.D. = 0.9  on  22 of  24 obs.
-------------------------------------
?  OCT  23, 1993  14h 53m 22.26± 5.72s
   28.463 S ±35.3km   68.246 W ±23.7km
   DEPTH = 154.5 ± 59.7 km
 LA RIOJA PROVINCE, ARGENTINA        (138)

CYA      2.16  90 iPc   54 00.00   0.0
                  S     54 26.00
RTPR     2.38 141 eP    54 02.50   0.0
                  S     54 31.00
RTLL     2.86 184 iPd   54 08.50  -0.1
                  S     54 43.00
RTCB     3.05 189 ePd   54 11.00  -0.1
                  (S)   54 48.00
CFA      3.13 180 ePc   54 12.20   0.1
RTCV     3.40 184 eP    54 15.50   0.0
TCA      4.28 133 eP    54 26.80  -0.2
                  (S)   55 14.00
MRA      4.50 152 ePc   54 30.10   0.2
                  S     55 20.10
     S.D. = 0.2  on   8 of   8 obs.
-------------------------------------
%  OCT  23, 1993  16h 02m 50.87± 0.84s
   39.657 N ± 8.7km   29.470 E ± 7.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      ML 2.7 (ISK).

DST      0.65 266 ePg   03 03.30  -0.6
                  eSg   03 13.80
ALT      0.78 140 ePg   03 06.40   0.3
                  eSg   03 17.40
EYL      1.05  30 ePn   03 10.00  -0.7
BNT      1.38 301 ePn   03 16.60   0.4
EDC      1.41 300 ePn   03 16.20  -0.4
CTT      1.69 332 ePn   03 21.60   1.1
     S.D. = 0.9  on   6 of   6 obs.
-------------------------------------
&  OCT  23, 1993  16h 08m 13.86s
   61.488 N          146.774 W
   DEPTH =  24.0km
 SOUTHERN ALASKA                     (  2)
      <AEIC>. ML 2.7 (AEIC).

KLU      0.41  89 iPc   08 22.09  -0.5
                  iS    08 29.17
VLZ      0.42 149 iPc   08 21.93  -0.7
                  eS    08 28.96
SCM      0.44 323 iPd   08 22.70  -0.3
                  eS    08 30.47
VZW      0.44 166 iPc   08 22.45  -0.7
                  eS    08 30.27
CFI      0.57 238 iPd   08 24.52  -0.6
                  eS    08 33.69
TOA      0.68  25 P     08 26.10  -1.0
FID      0.75 169 iPc   08 27.06  -1.2
                  eS    08 38.63
KNK      0.81 265 iPd   08 28.11  -1.1
SML      0.81 294 iPd   08 27.52  -1.7
                  eS    08 39.09
TZL      0.85  48 iPc   08 28.53  -1.4
                  eS    08 41.55
PWL      0.98 231 iPc   08 30.45  -1.7
GHO      1.07 286 iPc   08 31.61  -1.8
CVA      1.07 152 iPc   08 31.91  -1.4
HIN      1.10 173 eP    08 32.40  -1.4
PLRM     1.13 276 iPc   08 32.64  -1.6
                  eS    08 47.71
PMR      1.13 276 iPc   08 32.31  -1.9
                  eS    08 47.41
SDG      1.19  29 eP    08 33.24  -1.9
                  eS    08 48.38
KNIM     1.24 203 iPc   08 33.96  -1.7
                  eS    08 49.74
SGAM     1.25 142 eP    08 33.82  -2.1
GLB      1.42  91 iPc   08 36.12  -2.3
                  eS    08 54.61
RAGM     1.51 136 eP    08 38.38  -1.2
LTI      1.55 201 eP    08 38.23  -1.9
MTU      1.57 196 eP    08 39.48  -0.9
PAX      1.61  22 eP    08 39.12  -2.0
MPA      1.61 233 eP    08 39.68  -1.4
DHY      1.62 350 eP    08 39.55  -1.8
                  eS    08 59.92
HMT      1.69 132 eP    08 40.25  -1.9
CUT      1.89 301 eP    08 43.95  -1.2
                  eS    09 07.87
SUA      1.91 271 eP    08 44.26  -1.2
CRQM     1.91 111 eP    08 43.65  -1.9
SEW      1.91 225 eP    08 44.57  -0.8
                  eS    09 09.02
SLKM     1.95 241 eP    08 44.60  -1.4
HUR      2.01 319 eP    08 46.18  -0.7
TGL      2.05 109 eP    08 44.71  -2.8
                  eS    09 10.38
RND      2.15 334 eP    08 47.64  -1.4
BALM     2.19 100 ePd   08 46.65  -2.9
NKA      2.29 253 P     08 50.20  -0.6
SKT      2.32 284 eP    08 49.04  -2.2
CGLM     2.52 268 eP    08 52.44  -1.8
TRF      2.56 322 eP    08 53.10  -1.8
SPU      2.56 265 eP    08 52.28  -2.5
NCG      2.59 270 eP    08 53.34  -1.9
CRP      2.60 267 eP    08 52.14  -3.3
CRP      2.60 267 eP    08 55.38  -0.1
CKN      2.62 267 eP    08 55.25  -0.3
CKT      2.63 266 P     08 56.40   0.6
CP2      2.64 268 eP    08 54.33  -1.7
NNL      2.65 239 eP    08 54.95  -1.0
BKG      2.68 263 eP    08 54.42  -2.1
CTGM     2.68  99 eP    08 54.32  -2.3
CKL      2.70 266 eP    08 54.13  -2.6
BGL      2.71 268 eP    08 55.27  -1.7
BC3      2.82  54 eP    08 56.81  -1.6
KTH      2.83 319 eP    08 56.84  -1.7
HDA      2.93 358 eP    08 57.91  -2.0
CNPM     2.96 230 eP    08 58.15  -2.2
BWN      2.96 337 eP    08 59.21  -1.2
DFR      3.01 255 eP    08 58.54  -2.6
REF      3.06 253 eP    09 00.15  -1.8
RED      3.12 253 eP    09 00.27  -2.4
NCT      3.14 255 eP    09 00.30  -2.7
IL1      3.30 359 eP    09 02.33  -2.8
ILB      3.30 359 eP    09 04.01  -1.1
IM3      5.47 329 eP    09 32.22  -3.7
        64 obs. associated
-------------------------------------
?  OCT  23, 1993  16h 23m 22.70± 1.04s
    5.902 S ± 8.4km  146.074 E ±13.6km
   DEPTH =  10.0km  (geophysicist)
   2.8mb (  1 obs.)
 EASTERN NEW GUINEA REG., P.N.G.  (207)

YYYY     0.35 197 iPc   23 30.40   0.4
MDG      0.71 336 eP    23 36.70   0.0
LAT      1.19 129 eP    23 45.40   0.4
MNDI     2.42 264 eP    24 07.50   4.4X
WWKK     3.33 313 eP    24 23.50   7.6X
PMG      3.64 163 eP    24 19.50  -0.8
WRA     18.03 218 P     27 44.50   9.4X
        0.7s     0.50nm          2.8mb
     S.D. = 1.0  on   4 of   7 obs.
-------------------------------------
?  OCT  23, 1993  16h 24m 07.50± 9.04s
   30.848 S ±119.km   68.750 W ±24.6km
   DEPTH = 100.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA        (137)

RTLL     0.54 153 iPd   24 24.00   0.2
                  S     24 35.50
RTCB     0.64 184 ePd   24 24.50  -0.2
                  S     24 35.50
CFA      0.87 150 ePd   24 27.10   0.2
                  S     24 41.00
MRA      3.03 122 e(P)d 24 54.20  -0.1
     S.D. = 0.4  on   4 of   4 obs.
-------------------------------------
?  OCT  23, 1993  16h 55m 38.25± 1.95s
   31.215 S ±37.3km   68.698 W ±18.0km
   DEPTH = 100.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA        (137)

RTLL     0.23 120 iPd   55 53.00  -0.1
                  S     56 04.50
```

```
RTCB     0.28 198 iPd     55 53.00   -0.1
                  S       56 05.00
CFA      0.55 135 ePc     55 55.10    0.4
                  S       56 08.30
RTCV     0.66 168 eP      55 55.50   -0.1
                  S       56 08.60
MRA      2.81 116 e(P)c   56 22.00   -0.2
     S.D. = 0.3  on   5 of   5 obs.
-----------------------------------
   OCT  23, 1993  17h 03m 14.17± 1.25s
   51.542 N ±11.5km   16.151 E ± 6.3km
   DEPTH =  10.0km  (geophysicist)
 POLAND                              (548)
     ML 3.4 (GRF), 3.1 (VIE).

KSP      0.71 173 iP      03 28.40    0.3
       0.4s    76.00nm
                  iS      03 37.50
                  i       03 41.60
BRG      1.54 245 iPg     03 42.70    1.0
                  iSg     04 02.00
PRU      1.86 214 Pn      03 46.30    0.0
       0.4s    24.90nm
                  Pg      03 48.00
                  eSn     04 05.00
                  Sg      04 09.10
CLL      1.98 265 ePn     03 48.00   -0.1
                  iPg     03 50.70
                  iSg     04 15.70
OJC      2.66 118 eP      03 57.80   -0.1
                  iPg     04 06.50
                  iS      04 28.50
                  iSg     04 42.40
KHC      2.92 215 Pn      04 01.40   -0.2
                  e       04 07.00
HOF      2.97 247 eP      04 02.00   -0.2
MOX      3.00 254 iPg     04 10.20    7.6X
                  iSg     04 49.50
WET      3.19 222 iPc     04 05.40    0.1
VKA      3.28 178 iPgc    04 17.00   10.3X
                  iSg     05 01.00
ZST      3.41 169 e(P)    05 01.30   52.9X
GRF      3.65 241 ePn     04 11.70   -0.1
                  e(Pg)   04 23.90
                  eSg     05 08.90
KBA      4.83 203 iPc     04 28.90    0.1
                  iSg     05 49.10
WATA     5.16 217 iPnd    04 33.50    0.1
                  iSg     05 55.50
MOTA     5.34 220 iPnc    04 35.00   -0.9
                  i       05 54.10
                  i       05 56.90
     S.D. = 0.5  on  12 of  15 obs
-----------------------------------
?  OCT  23, 1993  17h 24m 24.05±11.84s
   45.238 S ±26.9km  165.998 E ±97.4km
   DEPTH =  67.6 ± 46.2 km
 OFF W. COAST OF S. ISLAND, N.Z.   (161)

MSZ      1.48  68 P       24 48 30   -0.5
TUZ      2.65 107 P       25 05 51    0.2
BWZ      2.85  77 P       25 08 [illegible]
ODZ      3.29  88 P       25 13 9[illegible]
WVZ      4.04  59 eP      25 26 3[illegible]
MQZ      5.00  75 P       25 3[illegible]
LTZ      5.15  64 P       25 39 [illegible]
DSZ      5.48  52 P       25 44 [illegible]
THZ      6.10  58 P       25 54 [illegible]
QRZ      6.50  50 P       25 58 [illegible]
     S.D. = 1.0  on  10 of  1[illegible]
-----------------------------------
   OCT  23, 1993  17h 42m 4[illegible]
   58.182 N ±11.6km  142 6[illegible]
   DEPTH =  10.0km  (geophys[illegible]
 GULF OF ALASKA
     ML 2.9 (AEIC).

CHX      2.05  23 eP      43 [illegible]
                  eS      43 [illegible]
YKU      2.06  47 P       43 [illegible]
YAH      2.24  12 eP      43 28 [illegible]
PNL      2.26  47 eP      43 2[illegible]
MID      2.28 305 P       43 29 [illegible]
WAX      2.28 358 eP      43 28 [illegible]
PCA      2.29  32 eP      43 28 [illegible]
HMT      2.31 340 eP      43 28 [illegible]
BCPM     2.37  40 eP      43 28 [illegible]

RAGM     2.44 336 eP      43 31.63    1.2
TGL      2.58 358 eP      43 32.31   -0.3
CRQM     2.59 355 eP      43 32.52   -0.3
SGAM     2.66 332 eP      43 34.15    0.5
CVA      2.84 328 eP      43 35.29   -0.9
BALM     2.87   3 eP      43 36.49   -0.2
                  eS      44 09.12
CTGM     2.88  13 eP      43 36.69   -0.1
                  eS      44 09.98
HIN      2.96 320 eP      43 37.91    0.0
                  eS      44 12.41
MTU      3.14 307 eP      43 40.03   -0.3
                  eS      44 15.80
FID      3.22 325 eP      43 42.34    0.7
LTI      3.25 307 eP      43 41.35   -0.7
GLB      3.32 351 iP      43 42.61   -0.4
                  eS      44 19.79
KNIM     3.38 312 eP      43 42.96   -0.9
VZW      3.49 327 eP      43 45.40    0.0
KLU      3.70 335 eP      43 47.75   -0.7
PWL      3.94 315 eP      43 51.36   -0.4
CFI      3.96 322 eP      43 51.84   -0.2
MPA      4.13 307 eP      43 53.40   -1.0
TOA      4.30 338 P       43 56.70   -0.3
SCM      4.34 330 eP      43 58.51    0.9
KNK      4.36 320 eP      43 57.51   -0.2
SML      4.61 324 eP      44 01.55    0.2
CNPM     4.64 290 eP      44 02.44    0.7
PLRM     4.72 319 eP      44 03.57    0.8
PMR      4.72 319 eP      44 02.80    0.0
GHO      4.77 322 eP      44 04.16    0.4
BC3      4.92   5 eP      44 05.59   -0.2
BGL      5.80 306 eP      44 17.24   -0.9
     S.D. = 0.6  on  37 of  37 obs.
-----------------------------------
*  OCT  23, 1993  18h 11m 03.81± 1.08s
   20.237 S ±14.1km  177.771 W ±11.5km
   DEPTH = 509.3 ± 10.2 km
   4.6mb ( 23 obs.)
 FIJI ISLANDS REGION                 (181)

SVA      4.14 300 eP      12 24.20   -0.5
VUN      4.19 301 eP      12 24.90   -0.2
AFI      8.51  43 eP      13 00.00   -6.9X
BKM     13.48 279 iP      14 02.00    3.3X
DZM     14.84 260 iPc     14 13.30    0.7
ARMA    29.38 244 eP      16 27.40    0.6
CNB     32.55 236 iPc     16 54.80    1.1
         0.4s    19.00nm          5.0mb
CTA     33.73 264 iP      17 05.00    1.3
         1.0s    10.00nm          4.3mb
TOC     36.22 234 iPd     17 25.00    0.7
         0.5s    37.00nm          5.2mb
STK     38.10 244 eP      17 40.90    1.2
         0.7s     5.00nm          4.2mb
ASPA    44.79 256 eP      18 32.90   -0.4
         0.9s    16.70nm          4.6mb
                   i      20 04.60
                   eS     24 32.30
WB2     44.84 262 iPc     18 33.10   -0.6
         0.6s    11.80nm          4.6mb
WRA     44.85 262 P       18 33.50   -0.3
         0.6s     3.90nm          4.1mb
FORT    49.60 246 eP      19 09.00   -0.7
WAPB    51.11 252 eP      19 20.20   -0.8
FLB     58.36 245 eP      20 11.00   -0.8
         0.8s    23.00nm          4.6mb
WAAC    58.68 243 eP      20 13.00   -1.0
         0.7s     6.00nm          4.1mb
BAL     59.36 246 iPd     20 17.60   -1.0
         0.7s    21.00nm          4.7mb
[illegible]  59.63 244 eP      20 20.00   -0.4
         0.8s    17.00nm          4.5mb
[illegible]  60.14 247 iPd     20 23.00   -0.8
         0.6s     9.00nm          4.4mb
[illegible]  69.89 180 iPd     21 21.10   -3.4X
         0.7s    12.50nm          4.6mb
[illegible]  71.81   1 eP      21 33.55   -1.9
         0.5s    16.79nm          4.8mb
[illegible]  77.65  45 eP      22 09.23    0.6
FLM     78.82  48 iPd     22 15.45    0.5
ISA     79.00  46 iPd     22 16.19    0.5
         0.8s     6.87nm          4.1mb
[illegible]  79.34  41 iPd     22 17.55    0.2
LGPM    79.37  39 iPd     22 18.25    0.6
[illegible]  79.92  47 eP      22 21.00    0.4
LEFM    80.20  39 eP      22 22.55    0.5

MDJ     80.43 325 eP      22 23.50    0.7
CN2     82.22 322 P       22 33.00    1.0
         1.0s     7.00nm          4.1mb
ARUT    83.54  46 eP      22 40.39    1.4
GMW     83.56  34 eP      22 38.97    0.3
CRP     83.79  12 ePd     22 38.06   -1.7
RMW     84.03  34 eP      22 41.46    0.4
PMR     84.71  13 iPd     22 43.05   -1.0
         0.4s    13.99nm          4.9mb
MSU     84.77  46 eP      22 45.87    0.7
BJI     85.86 315 eP      22 50.00    0.0
         1.2s     8.00nm          4.3mb
BALM    85.87  16 iPd     22 49.04   -0.7
PV09    86.83  47 ePd     22 55.38    0.2
PV10    86.84  47 iPd     22 54.75   -0.4
FBA     87.94  12 iPd     22 58.12   -1.3
         0.6s    16.68nm          5.0mb
                  epP     24 52.06 511kmX
XAN     88.14 307 P       23 02.40    1.3
         0.7s    16.00nm          5.0mb
LRM     88.37  39 eP      23 03.20    1.1
NVL     88.99 183 iPd     23 04.00   -0.3
         1.0s    14.00nm          4.8mb
HHC     89.32 314 P       23 07.70    1.3
         1.0s     6.80nm          4.5mb
CHTO    90.36 290 ePd     23 13.10    1.6
         0.9s    12.57nm          4.9mb
MEO     92.88  54 iPd     23 22.70   -0.1
NB2    138.75 353 PKP     29 21.80 -10.8X
         0.8s     2.30nm
HFS    139.31 351 ePKP    29 23.50 -10.1X
         0.5s     3.20nm
EDR    143.20   4 ePKPd   29 37.00   -3.5X
MUD    143.46 354 iPKPc   29 36.30   -4.6X
         0.6s    18.00nm
EDU    143.53   5 ePKPd   29 38.40   -2.7X
ELO    143.55   6 ePKPd   29 38.50   -2.6X
EAB    143.77   6 ePKPd   29 39.30   -2.2
EBH    143.79   5 ePKPd   29 39.50   -2.0
ESY    144.19   5 ePKPd   29 40.50   -1.7
EAU    144.19   5 ePKP    29 40.30   -1.9
EBL    144.30   5 ePKP    29 41.10   -1.3
EKA    144.72   5 PKPc    29 42.40   -0.7
         1.0s    15.40nm
WIM    145.74   7 ePKP    29 45.70    0.8
KAS    145.97 315 ePKP    29 48.00    2.3
DCN    146.15  10 ePKP    29 46.80    1.3
DLF    146.32   9 ePKP    29 47.30    1.5
WIT    147.30 355 ePKP    29 51.50    4.2X
KSP    147.50 343 iPKPd   29 51.20    3.4X
         0.7s    36.00nm
                   i      29 55.20
HCG    147.65   7 ePKPd   29 50.60    2.6X
CLL    147.85 347 iPKPd   29 51.90    3.6X
         0.9s    49.00nm
                   i      29 55.40
HTR    147.93   6 ePKP    29 51.40    3.0X
BRG    148.06 346 iPKPd   29 52.00    3.3X
         1.0s    30.00nm
                   i      29 57.20
WTS    148.10 355 ePKP    29 52.50    3.8X
         0.8s    32.60nm
PRU    148.74 345 iPKPd   29 54.10    4.4X
         0.6s   130.00nm
                  pP      29 59.70
MOX    148.76 348 ePKP    29 53.80    4.0X
         1.6s    41.00nm
                   e      30 20.70
PSZ    148.90 337 ePKPd   29 54.60    4.4X
ENN    149.39 355 ePKP    29 56.00    5.3X
         0.8s    13.10nm
SRO    149.56 338 ePKP    29 55.90    4.9X
ZST    149.63 340 ePKP    29 56.00    4.9X
SNF    149.75 357 PKP     29 56.70    5.5X
                   e      30 03.60
GRF    149.75 348 iPKPd   29 57.20    5.9X
     Z  21s     0.50um          5.3Msz
                   e      30 04.30
KHC    149.77 345 PKPd    29 57.20    5.8X
         0.9s    15.00nm
                   i      30 04.80
GEC2   150.01 345 e(PKP)  29 57.30    5.5X
         0.7s     9.70nm
DOU    150.15 357 PKPd    29 57.70    5.9X
         0.7s    35.50nm
WLF    150.47 355 iPKPd   29 58.74    6.4X
         1.0s    13.00nm
```

23d 18h

```
                ic    30 07.17
FLN   151.46    4 ePKP  30 00.20    6.3X
       0.5s    10.80nm
CDF   151.60  353 ePKP  30 01.00    6.8X
       0.8s     9.25nm
LDF   151.65    3 ePKP  30 00.10    6.0X
GRR   151.81    4 iPKPd 30 01.10    6.7X
       0.6s    15.60nm
WATA  151.92  346 iPKPc 30 01.40    6.6X
WTTA  151.97  346 iPKPd 30 01.60    6.7X
       0.7s    11.10nm
                i     30 13.80
HAU   152.10  354 ePKP  30 01.30    6.5X
       0.6s     5.30nm
SQTA  152.11  347 iPKPd 30 02.00    7.0X
LPF   152.15    5 iPKPd 30 02.00    7.2X
       0.6s    22.30nm
BSF   152.23  353 ePKP  30 02.10    7.0X
       0.5s     3.05nm
LOR   153.00  358 ePKP  30 03.40    7.3X
       1.0s    11.00nm
SSF   153.22  358 ePKP  30 04.50    8.1X
LBF   153.28  357 ePKP  30 04.70    8.1X
       0.7s     3.10nm
MFF   153.63    4 ePKP  30 05.20    8.3X
       0.6s     3.50nm
LSF   154.05    1 ePKP  30 05.20    7.7X
       0.8s     5.50nm
     S.D. = 1.1  on  55 of  98 obs.
-----------------------------------
   OCT  23, 1993  18h 45m 54.12± 0.31s
   40.404 N ± 3.1km  126.359 W ± 4.0km
   DEPTH =  10.0km  (geophysicist)
   5.1mb ( 62 obs.)  5.0Msz ( 14 obs.)
 OFF COAST OF NORTHERN CALIFORNIA( 34)
      Mw 5.4 (HRV). ML 5.2 (BRK). MD
      4.9 (GM).
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 25S, 43C
      Centroid Location:
      Origin Time        18:45:56.0 0.4
      Lat 40.54N 0.04 Lon 126.58W 0.05
      Dep  15.0 FIX Half-duration  1.2
      Moment Tensor;   Scale 10**17 Nm
        Mrr=-0.02 0.03  Mtt=-1.17 0.04
        Mff= 1.19 0.04  Mrt= 0.49 0.14
        Mrf=-0.25 0.11  Mtf=-0.48 0.04
       Principal Axes:
        T  Val=  1.37  Plg=15  Azm= 76
        N        0.03      67      309
        P       -1.40      18      171
      Best Double Couple:Mo=1.4*10**17
       NP1:Strike=213 Dip=67 Slip=  -2
       NP2:        304     88     -157

KSMM    1.69  97 P     46 23.71  -0.1
KMPM    1.71  89 iPc   46 24.45   0.3
EKR     1.72  80 iP    46 23.49  -0.7
ARC     1.80  74 eP    46 24.21  -1.2
                eS    46 45.85
FOX     1.81  86 iP    46 25.78   0.2
FHC     1.85  77 iP    46 25.31  -0.9
KOMM    2.37  67 P     46 32.63  -1.2
KBNM    2.48 101 P     46 36.00   0.7
KRKM    2.58 108 P     46 37.40   0.6
LGPM    2.73  78 iPc   46 37.83  -1.1
WDC     2.92  85 eP    46 40.87  -0.6
GMCM    2.97 122 P     46 41.95  -0.2
YBH     3.06  63 eP    46 42.89  -0.6
FTR     3.11 126 P     46 44.00  -0.1
GGPM    3.17 120 P     46 45.77   0.7
GRTM    3.20 116 P     46 47.52   2.0
NTYM    3.50 124 eP    46 49.56  -0.1
LBFM    3.52  73 ePc   46 50.02  -0.1
NPRM    3.54 132 P     46 50.56   0.3
MIN     3.63  89 ePc   46 50.85  -0.9
                eS    47 34.14
LMEM    3.66  86 eP    46 51.96  -0.2
LSLM    3.68  88 P     46 52.06  -0.4
LCMM    3.71  92 P     46 52.90   0.0
ORV     3.83 101 eP    46 53.22  -1.2
OBHM    3.83 100 P     46 54.70   0.2
JPRM    3.99 130 P     46 56.93   0.3
ZSP     4.02 126 iP    46 57.81   0.7
AOHM    4.06 103 P     46 59.49   1.9
BKS     4.08 127 eP    46 58.08   0.2
                eS    47 44.63
JSBM    4.11 130 P     46 58.54   0.2
DUC     4.13 124 P     47 01.56   2.9X
JEGM    4.19 132 eP    46 59.10  -0.4
HMR     4.19 121 eP    47 01.38   1.9
PCC     4.25 132 iP    46 59.93  -0.3
AARM    4.26 104 P     47 01.19   0.6
BGH     4.38 133 P     47 02.45   0.3
STAN    4.43 131 ePd   47 02.65  -0.2
                eS    47 51.79
ARJM    4.52 111 P     47 05.11   1.0
SJH     4.53 131 P     47 04.36   0.1
JSMM    4.57 133 P     47 04.50  -0.4
JBLM    4.63 134 P     47 05.15  -0.6
LXR     4.68 132 P     47 06.05  -0.4
CSTL    4.69 125 P     47 08.63   2.1
LT15    4.69 132 P     47 06.32  -0.3
SOS     4.73 132 P     47 06.73  -0.6
MHC     4.79 128 ePd   47 07.43  -0.7
                eS    48 01.85
AMC     4.79 131 P     47 07.23  -0.8
GCC     4.79 133 iP    47 07.54  -0.5
COE     4.82 129 eP    47 08.27  -0.2
JHLM    4.83 131 P     47 07.94  -0.8
ARN     4.85 127 eP    47 08.67  -0.2
JBZM    4.92 132 P     47 09.56  -0.3
PEV     4.92 133 P     47 09.56  -0.3
JELM    4.96 133 P     47 10.22  -0.2
CBC     5.05 132 P     47 10.73  -1.0
HCOM    5.06 132 P     47 11.42  -0.4
GHS     5.06 129 P     47 11.84  -0.1
CSR     5.08 131 P     47 11.52  -0.6
CDC     5.09 130 P     47 12.27   0.0
DIL     5.13 132 P     47 11.93  -0.9
OCR     5.15 131 P     47 12.53  -0.6
MTR     5.15 136 P     47 12.26  -0.9
SFL     5.17 130 P     47 12.92  -0.4
PCL     5.19 129 P     47 13.22  -0.4
CMB     5.21 115 eP    47 15.35   1.4
PKH     5.25 131 P     47 14.56   0.0
SAO     5.29 132 ePd   47 13.83  -1.3
                eS    48 15.59
BSRM    5.32 133 P     47 14.76  -0.8
BVYM    5.32 132 P     47 14.53  -1.1
BSLM    5.34 131 P     47 15.21  -0.6
HJSM    5.34 131 P     47 15.01  -0.8
EKH     5.52 131 P     47 17.57  -0.8
PRS     5.65 134 iP    47 18.89  -1.3
SHG     5.65 133 P     47 19.02  -1.2
LRC     5.89 133 P     47 22.57  -1.0
BTW     5.90 132 P     47 22.98  -0.8
HVC     5.93 131 P     47 20.98  -3.1
MOP     6.05 132 P     47 25.60  -0.3
PRCM    6.12 131 P     47 27.95   1.1
PSAM    6.14 134 P     47 25.69  -1.3
PTV     6.17 132 P     47 26.51  -1.0
PDRM    6.22 129 P     47 28.36   0.2
FRI     6.22 121 iP    47 29.15   1.0
                eS    48 39.76
PSMM    6.27 132 P     47 28.63  -0.4
PARM    6.29 129 P     47 29.77   0.5
PANM    6.31 135 P     47 28.40  -1.1
MMPM    6.35 114 eP    47 32.23   1.8
MEMM    6.39 113 eP    47 32.49   1.9
PSTM    6.42 132 P     47 29.61  -1.5
PADM    6.44 136 P     47 30.96  -0.3
BMW     6.48  20 eP    47 29.56  -2.4
WKR     6.50 133 P     47 31.87  -0.3
CTM     6.51 131 P     47 32.32  -0.2
SHW     6.52  26 eP    47 30.37  -2.2
VGB     6.55  37 ePc   47 30.75  -2.1
PHAM    6.55 132 eP    47 31.35  -1.5
GHC     6.58 132 P     47 32.11  -1.2
PSRM    6.60 132 P     47 32.56  -1.0
PMCM    6.64 133 P     47 33.59  -0.6
MRCM    6.69 112 (P)   47 36.20   1.1
PAGM    6.71 132 P     47 34.34  -0.8
BONR    6.72 109 eP    47 36.27   0.7
PMGM    6.78 135 P     47 35.09  -1.0
MTUM    6.80 114 eP    47 38.27   1.7
YEG     7.08 132 P     47 39.29  -1.1
LON     7.15  26 eP    47 38.68  -2.6
BCH     7.20 134 ePc   47 40.24  -1.8
TNP     7.46 105 eP    47 45.12  -0.8
GMW     7.59  19 eP    47 44.77  -2.6
RMW     7.78  23 eP    47 47.96  -2.2
ISA     7.82 125 eP    47 50.75   0.1
ABL     7.92 132 eP    47 50.25  -2.1
TPNV    8.63 110 eP    48 04.22   2.1
MCW     8.65  16 eP    48 00.69  -1.5
GSC     9.11 121 eP    48 09.04   0.4
SSK     9.26 129 eP    48 09.73  -1.1
DPW     9.49  35 eP    48 10.43  -3.3
PEC     9.80 129 eP    48 16.37  -1.8
NEW    10.27  37 eP    48 21.58  -2.9
HVU    10.35  78 ePc   48 25.82   0.0
DUG    10.35  87 eP    48 26.58   0.7
PLM    10.36 130 eP    48 24.06  -1.9
ARUT   10.38 100 eP    48 27.14   0.9
MSU    11.13  95 eP    48 36.65   0.1
LRM    11.51  57 ePc   48 39.60  -2.2
DAU    11.52  85 ePc   48 42.81   0.9
GLA    11.80 125 eP    48 43.96  -1.5
EMUT   11.92  88 ePc   48 48.89   1.6
SRU    12.26  91 ePc   48 53.85   2.0
PV09   13.45  93 eP    49 09.55   1.8
PV10   13.55  93 ePc   49 10.92   1.8
PV08   13.80  92 eP    49 13.65   1.2
TUC    14.91 118 eP    49 27.98   1.3
        0.9s    20.22nm          4.6mb
GOL    16.09  86 eP    49 42.45   0.3
        1.1s    78.82nm          4.8mb
GLD    16.19  85 eP    49 44.13   0.7
        1.1s    99.87nm          4.9mb
ALQ    16.66 103 eP    49 51.74   2.3
        0.9s    44.96nm          4.6mb
RSSD   16.93  70 eP    49 49.37  -3.4
        1.2s   139.60nm          5.0mb
ACO    21.57  91 iPc   50 46.10   0.3
LTX    21.59 114 eP    50 48.34   2.2
WMOK   22.53  96 ePc   50 56.31   0.9
        0.8s    50.63nm          5.1mb
MEO    22.66  95 iPd   50 58.30   1.6
BALM   22.88 340 eP    50 57.50  -1.2
YKA    23.23  14 eP    51 00.70  -1.2
        1.0s    49.80nm          5.0mb
OCO    23.24  93 iPd   51 04.70   2.4
ULM    23.44  55 eP    51 06.50   2.4
KLU    24.26 337 ePd   51 11.95  -0.1
TUL    24.39  91 iPc   51 15.90   2.5
TOA    24.81 338 eP    51 18.20   0.8
SLKM   24.96 332 eP    51 17.70  -1.1
PMR    25.34 334 ePd   51 21.03  -1.3
        1.1s    95.94nm          5.4mb
UYO    26.04  94 iPc   51 30.20   1.0
CP2    26.20 331 eP    51 28.97  -1.6
SVW    27.39 329 eP    51 38.68  -2.6
        1.1s    47.58nm          5.1mb
FBA    27.48 340 eP    51 40.16  -1.9
        1.0s    16.49nm          4.7mb
FVM    27.84  83 eP    51 44.87  -0.7
        0.9s    36.26nm          5.1mb
INK    28.23 354 eP    51 50.00   1.3
        1.0s     4.00nm          4.2mb
TTA    28.63 332 ePd   51 50.27  -2.3
        0.9s    11.30nm          4.7mb
ELC    28.95  84 eP    51 55.88   0.3
OXF    29.76  89 eP    52 03.96   1.1
IMA    29.97 338 eP    52 01.98  -2.7
        0.8s     8.54nm          4.6mb
PWLA   30.62  88 eP    52 10.80   0.4
GBTN   33.30  84 eP    52 34.44   0.5
MYNC   33.58  85 eP    52 36.96   0.5
        1.1s    78.82nm          5.6mb
NAV    35.32  80 eP    52 51.11  -0.2
YSNY   35.54  71 ePd   52 53.60   0.4
        0.9s   156.41nm          5.9mb
MBC    36.07   3 eP    52 57.50   0.3
        1.0s     9.00nm          4.6mb
JAQ    36.19  51 eP    52 57.50  -1.0
GAC    37.04  65 eP    53 05.50  -0.2
CEH    37.10  81 eP    53 06.54   0.2
        1.0s    49.90nm          5.2mb
RES    37.29  13 eP    53 07.00  -0.5
        1.0s     9.00nm          4.5mb
CBN    37.58  77 Pd    53 12.00   1.7
        1.1s    40.00nm          5.1mb
RSNY   37.93  66 ePc   53 12.63  -0.6
        1.0s    23.07nm          4.9mb
TBR    39.00  71 eP    53 22.14  -0.1
ILT    39.27 332 eP    53 24.00  -0.1
     Z  16s     0.80um          4.6MszX
     E  14s     0.40um
                iS    59 28.00
```

```
LSCT    39.57  70 (P)    53 27.29   0.4
        0.9s    26.74nm          4.9mb
LBNH    39.81  66 eP     53 29.06   0.1
        1.0s    41.56nm          5.1mb
FRB     40.61  35 eP     53 35.00  -0.2
        1.0s    16.00nm          4.7mb
LMN     44.28  62 eP     54 06.00   0.6
DAG     54.89  16 eP     55 25.00  -1.5
TIK     56.59 338 ePd    55 35.00  -3.8X
        1.8s    40.00nm          5.1mb
      Z 20s      0.80um          4.8Msz
                  e     56 43.00
                  e     57 50.00
YAK     61.14 328 eP     56 05.60  -4.9X
        1.2s    45.00nm          5.5mb
                 eS     04 35.00
NRI     67.60 347 ePd    56 49.50  -3.0X
        1.7s    25.00nm          5.1mb
      Z 20s      1.60um          5.2Msz
      E 22s      1.20um
DCN     72.89  33 eP     57 27.40   2.5
NB2     73.16  20 P      57 25.70  -0.7
        1.0s    16.10nm          5.1mb
DLF     73.24  33 eP     57 29.30   2.4
CIT     74.27 326 eP     57 32.00  -1.0
HFS     74.58  19 eP     57 33.20  -1.4
        0.9s    26.20nm          5.3mb
UPP     75.78  18 iP     57 43.80   2.4
ARE     76.12 126 eP     57 46.00   1.7
IRK     77.76 331 eP     57 51.80  -0.9
      Z 16s      0.51um          4.9MszX
      N 18s      0.39um
      E 20s      0.38um
LPAZ    78.10 123 P      57 55.40  -0.3
CNCB    78.59 124 P      57 59.20   0.9
ZAK     79.66 330 eP     58 02.80  -0.2
        1.1s    22.00nm          5.1mb
LSF     81.98  34 eP     58 18.60   3.2X
        1.3s    30.35nm          5.2mb
CLL     82.02  24 iP     58 16.00   0.6
        1.0s    16.00nm          5.1mb
                  i     58 23.70
LOR     82.13  32 eP     58 19.80   3.7X
        1.1s    23.20nm          5.2mb
      Z 19s      0.65um          5.0Msz
MOX     82.14  25 eP     58 16.90   0.8
        1.2s    17.00nm          5.0mb
      Z 21s      0.70um          5.0Msz
SSF     82.15  32 eP     58 18.90   2.7
        1.2s    20.85nm          5.1mb
TCF     82.24  33 eP     58 19.10   2.4
        1.5s    36.05nm          5.3mb
BGF     82.29  33 eP     58 20.50   3.5X
        1.2s    25.00nm          5.2mb
AVF     82.31  32 eP     58 19.40   2.4
        1.2s    18.45nm          5.1mb
LBF     82.41  32 eP     58 21.10   3.5X
        1.1s     7.35nm          4.7mb
HAU     82.50  30 eP     58 21.60   3.6X
        1.1s    12.20nm          5.0mb
      Z 21s      0.60um          4.9Msz
CDF     82.51  29 eP     58 20.90   2.7
        1.5s    25.05nm          5.1mb
SMF     82.62  32 eP     58 21.00   2.3
        1.3s    20.95nm          5.1mb
LFF     82.68  35 eP     58 21.70   2.7
        1.1s    17.85nm          5.1mb
BRG     82.69  24 eP     58 20.60   1.6
RJF     82.73  34 eP     58 22.40   3.1X
      Z 20s      0.95um          5.2Msz
BSF     82.81  30 eP     58 23.20   3.4X
        1.1s    10.75nm          4.9mb
GRF     82.83  26 eP     58 23.60   3.9X
SVE     82.97 356 ePd    58 20.00  -0.3
      Z 17s      0.60um          5.0MszX
      N 17s      0.50um
      E 17s      0.50um
EPLA    83.20  42 eP     58 23.00   1.2
KSP     83.43  23 eP     58 23.00   0.2
                  e     58 26.00
ARU     83.47 357 eP     58 25.00   2.2
HHC     83.51 320 eP     58 23.00  -0.5
        1.4s    15.00nm          5.0mb
PRU     83.65  24 P      58 28.10   4.2X
        1.3s    18.30nm          5.1mb
GUD     83.73  40 eP     58 27.00   2.3
OBN     83.76  10 eP     58 27.00   2.7
        1.6s    80.00nm          5.7mb
      Z 19s      0.60um          5.0Msz
KHC     84.09  25 P      58 27.30   1.1
        1.2s    12.00nm          5.0mb
      Z 20s      1.10um          5.2Msz
      N 20s      0.60um
      E 20s      0.10um
                  e     58 30.50
EGRA    84.37  37 eP     58 47.00  19.4X
GEC2    84.38  25 P      58 28.30   0.5
        1.2s    10.17nm          4.9mb
                  e     58 36.30
                  e     58 39.10
GEC2    84.38  25 e(P)   58 36.40   8.6X
        1.0s     8.50nm          4.9mb
GEC2    84.38  25 e(P)   58 34.90   7.1X
        0.9s     4.90nm          4.7mb
GEC2    84.38  25 e(P)   58 30.50   2.7X
        1.1s     9.10nm          4.9mb
BTO     84.46 320 eP     58 31.00   2.7
ETOR    84.62  39 eP     58 31.00   1.9
EVAL    84.70  44 eP     58 34.00   4.6X
LPL     84.70  31 eP     58 33.10   3.5X
        1.3s    20.95nm          5.2mb
LPG     84.73  31 eP     58 33.60   3.8X
        1.3s    19.85nm          5.2mb
MOTA    84.80  27 iPc    58 33.80   3.9X
        0.9s    11.20nm          5.1mb
WTTA    85.05  27 iPd    58 34.90   3.7X
        1.0s    16.10nm          5.2mb
TIY     85.44 317 eP     58 33.70   0.5
      Z 20s      0.50um          4.9Msz
KBA     85.80  26 iPd    58 35.40   0.4
        1.5s    34.10nm          5.3mb
EBAN    85.80  42 eP     58 25.00  -9.9X
ZST     86.03  24 eP     58 38.90   3.1X
                  e     02 41.60
SPC     86.05  21 eP     58 36.80   0.6
EVIA    86.08  41 eP     58 42.00   5.5X
EJIF    86.23  44 eP     58 23.00 -14.0X
ECOG    86.59  42 eP     58 23.20 -15.8X
SRO     86.73  23 eP     58 44.20   4.9X
PSZ     87.10  22 eP     58 43.90   2.7
UZH     87.11  20 eP     58 45.20   4.1X
        1.0s    27.00nm          5.4mb
GTA     90.08 326 eP     58 55.50  -0.2
        1.5s     9.00nm          4.8mb
      Z 18s      0.57um          5.0Msz
                 pP     59 03.00  23kmX
                 sP     59 06.00
XAN     90.08 317 eP     58 54.50  -1.1
        1.3s     8.30nm          4.8mb
      Z 22s      0.31um          4.7Msz
WMQ     90.72 336 eP     58 58.50   0.1
        1.0s    21.00nm          5.4mb
      Z 20s      0.80um          5.2Msz
LZH     90.99 322 eP     59 02.00   2.1
        1.5s    27.00nm          5.4mb
      Z 20s      0.50um          4.9Msz
                 pP     59 07.00  16kmX
VAY     93.90  23 eP     59 16.20   3.2X
FRU     95.00 345 eP     59 21.00   2.9X
      Z 20s      0.50um          5.0Msz
SOC     95.46  10 eP     59 23.00   2.9X
GUN    105.72 331 PKP    04 00.00 -19.9X
LSZ    146.57  49 iPKPc  05 38.50   2.2X
KRI    148.62  48 iPKPc  05 41.30   1.7X
BUL    150.59  54 iPKP   05 49.20   6.7X
        1.0s    15.00nm
     S.D. = 1.3  on 217 of 253 obs.
-----------------------------------
?  OCT  23, 1993  18h 54m 08.04± 8.73s
   32.050 S ±65.2km   71.687 W ±24.7km
   DEPTH =  15.5 ±  8.0 km
 NEAR COAST OF CENTRAL CHILE      (135)
      MD 3.6 (SAN).

ROCH    1.08 148 iPd    54 28.22   0.2
                 iS     54 38.56
JACH    1.12 125 iP     54 29.16   0.5
                 iS     54 40.78
PEL     1.38 142 iP     54 32.33  -0.3
                 iS     54 45.20
LCCH    1.42 176 eP     54 33.79   0.6
                 iS     54 48.24
LCCH    1.42 176 iP     54 33.81   0.6
TACH    1.72 159 iPd    54 37.25  -0.3
                 iS     54 54.37
PCH     1.85 148 iP     54 38.86  -0.7
                 iS     54 57.77
LNV     1.91 173 iP     54 39.73  -0.6
                 iS     55 00.52
     S.D. = 0.7  on   8 of   8 obs.
-----------------------------------
&  OCT  23, 1993  19h 03m 09.52s
   36.054 N          117.968 W
   DEPTH =   0.1km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      <PAS-P>. ML 3.2 (PAS), 3.2 (GS).

ISA     0.57 227 ePc    03 20.20  -0.6
WASM    0.57 237 P      03 20.79  -0.2
WOFM    0.80 230 P      03 24.80  -0.6
GSC     1.21 128 ePc    03 32.02  -1.0
BHPR    1.31 342 P      03 34.09  -0.8
MTUM    1.38 340 ePc    03 35.31  -0.8
                 eS     03 53.78
CWCR    1.46 349 P      03 36.86  -0.5
MARC    1.53 227 P      03 38.20   0.0
ABL     1.58 221 eP     03 38.28  -0.8
TPNV    1.65  57 eP     03 39.05  -0.9
MRCM    1.67 345 ePc    03 40.52   0.1
                 eS     04 02.04
ORC     1.67 341 P      03 40.72   0.3
CLKR    1.68 336 P      03 40.72   0.1
FRI     1.69 304 P      03 39.33  -0.4
PHBM    1.72 277 P      03 41.84   1.0
YEG     1.73 250 P      03 41.68   0.5
PKEM    1.73 271 eP     03 41.18   0.1
MCSM    1.77 335 P      03 42.45   0.6
MMPM    1.77 332 ePc    03 42.21   0.3
                 eS     04 04.77
MEMM    1.79 334 eP     03 42.64   0.8
SSK     1.85 173 eP     03 42.00  -1.0
PAGM    1.88 261 P      03 43.70   0.5
BONR    1.92 352 eP     03 43.91  -0.1
CTM     1.93 267 P      03 44.75   0.8
BCH     1.93 244 ePd    03 43.94  -0.1
PARM    1.93 276 P      03 44.95   1.0
PDRM    1.96 279 P      03 45.14   0.7
PHAM    1.98 264 eP     03 44.56  -0.2
WKR     2.08 264 P      03 46.59   0.5
TNP     2.11  16 ePn    03 45.68  -1.1
                 ePg    03 48.77
SCCM    2.11 239 P      03 48.10   1.5
PSMM    2.13 271 P      03 48.20   1.3
PRCM    2.16 276 P      03 48.14   0.9
PTV     2.23 272 P      03 48.64   0.3
PEC     2.26 163 eP     03 47.77  -0.9
HVC     2.33 279 P      03 50.14   0.4
BMSM    2.36 286 P      03 50.65   0.4
BRMM    2.43 290 P      03 52.40   1.2
CMB     2.77 316 eP     03 56.85   0.9
HJSM    2.79 287 P      03 57.34   1.0
PLM     2.84 161 eP     03 56.25  -1.0
SAO     2.89 285 eP     03 57.73   0.0
MNHM    3.09 313 P      04 03.67   3.2
ARN     3.14 295 eP     04 01.39   0.1
GLA     3.96 138 (Pn)   04 10.39  -2.5
                 ePg    04 24.21
ARUT    4.02  63 ePn    04 12.39  -1.5
                 ePg    04 24.23
ORV     4.48 322 ePn    04 20.74   0.5
MSU     5.23  60 ePn    04 28.73  -2.4
                 ePg    04 46.02
SRU     6.65  60 (Pn)   04 50.81  -0.4
PV10    7.49  69 (Pn)   05 02.79  -0.2
PV08    7.84  69 (Pn)   05 05.50  -2.5
        51 obs. associated
-----------------------------------
%  OCT  23, 1993  21h 59m 52.74± 1.75s
   39.884 N ±10.2km   23.841 E ±12.7km
   DEPTH =   5.0km  (geophysicist)
 AEGEAN SEA                       (365)
      ML 2.4 (THE).

PAIG    0.13 289 ePg    59 55.34  -0.1
                 eSg    59 57.30
OUR     0.46  13 ePg    00 02.18   0.2
                 eSg    00 07.50
SOH     1.01 338 ePg    00 11.74  -0.6
                 eSg    00 24.98
LIT     1.06 282 ePg    00 13.50   0.3
                 eSg    00 28.50
```

23d 22h

```
SRS      1.25 351 ePb   00 16.18  -0.2
                  eSb   00 32.78
AGG      1.45 234 ePb   00 19.54  -0.2
KNT      1.46 331 ePb   00 20.38   0.5
                  eSb   00 39.46
     S.D. = 0.4  on   7 of   7 obs.
-----------------------------------
?  OCT  23, 1993  22h 03m 29.30± 5.97s
   39.914 N ±38.0km   23.816 E ±30.5km
   DEPTH =   5.0km  (geophysicist)
 AEGEAN SEA                        (365)

PAIG     0.11 277 ePg   03 31.29  -0.3
                  eSg   03 33.18
OUR      0.44  17 ePg   03 38.06   0.0
                  eSg   03 43.50
SOH      0.97 339 ePg   03 48.10  -0.2
                  eSg   04 00.94
LIT      1.04 281 ePg   03 49.70   0.4
                  eSg   04 04.06
SRS      1.21 352 ePb   03 52.54   0.2
                  eSb   04 08.46
     S.D. = 0.4  on   5 of   5 obs.
-----------------------------------
?  OCT  23, 1993  23h 04m 56.34± 1.91s
    4.801 S ±17.7km  152.558 E ±19.7km
   DEPTH =  55.6 ± 27.9 km
   4.4mb (  2 obs.)
 NEW BRITAIN REGION, P.N.G.        (192)

RAB      0.72 327 iPd   05 10.30  -0.4
       0.5s  2084.51nm
KVG      2.80 322 ePd   05 40.20   0.5
PMG      7.04 229 eP    06 39.50   0.2
BKM     19.98 131 iPc   09 17.00 -10.0X
DZM     21.81 143 iPd   09 45.70   0.0
WB2     23.25 228 iPc   09 58.20  -1.6
       0.4s    10.70nm          4.6mb
ASPA    25.99 222 eP    10 27.10   1.2
       1.1s     6.30nm          4.1mb
GEC2   123.93 328 PKP   23 48.00  -2.1X
       0.6s     0.75nm
     S.D. = 1.5  on   6 of   8 obs.
-----------------------------------
?  OCT  23, 1993  23h 36m 56.50± 2.12s
   47.742 N ±15.0km    6.937 E ±13.8km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                            (538)
      ML 2.0 (LDG).

BSF      0.13 313 Pg    36 59.90   [illegible]
                  Sg    37 04.90
HAU      0.48 304 Pg    37 06.10   [illegible]
                  Sg    37 14.70
CDF      0.71  19 Pg    37 10.50   [illegible]
                  Sg    37 22.20
LBF      2.15 250 Pg    37 32.90   [illegible]
                  Sg    37 59.90
     S.D. = 0.1  on   4 of   4 obs
-----------------------------------
*  OCT  23, 1993  23h 42m 40.14± [illegible]
   29.064 N ±11.0km   34.967 E ±[illegible]
   DEPTH =  10.0km  (geophysicist
 EGYPT                             [illegible]

SRFA     0.24 124 iPc   42 45 [illegible]
AQBJ     0.67   6 Pc    42 53 [illegible]
MRSJ     0.69  27 Pd    42 53 [illegible]
MDRJ     0.84  63 Pd    42 56 [illegible]
AYN      0.93 102 eP    42 57 [illegible]
HITJ     1.02  48 Pc    42 59 [illegible]
SHWJ     1.39  19 Pc    43 06 [illegible]
     S.D. = 0.6  on   7 of   [illegible]
-----------------------------------
?  OCT  24, 1993  00h 50m [illegible]
   28.808 N ±33.5km   34 [illegible] E [illegible]
   DEPTH =  10.0km  (geophysicist
 EGYPT

SRFA     0.44  74 iPc   50 36 [illegible]
HSHJ     0.86  45 Pd    50 44 [illegible]
AYN      1.14  87 eP    50 49 [illegible]
NAQJ     1.38  30 P     50 52 [illegible]
JRDJ     2.09  23 P     51 02 [illegible]
MASJ     3.04  17 Pd    51 17 [illegible]
     S.D. = 0.7  on   6 of   [illegible]
-----------------------------------
   OCT  24, 1993  01h 41m 26.45± 0.72s
    6.794 S ± 7.4km  146.648 E ± 9.3km
   DEPTH =  33.0km  (normal)
   3.7mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G.   (207)
      ML 4.0 (PMG).

LAT      0.37  70 iPc   41 35.20   0.0
YYYY     0.87 309 eP    41 49.40   7.0X
MDG      1.76 331 ePd   41 54.40  -0.7
PMG      2.64 169 iPd   42 08.00   0.3
WWKK     4.36 316 eP    42 33.00   0.9
WR2     17.70 221 eP    45 32.20   0.0
       0.6s     2.30nm          3.5mb
ASPA    20.77 215 eP    46 06.80  -0.5
       0.4s     2.90nm          4.0mb
     S.D. = 0.7  on   6 of   7 obs.
-----------------------------------
*  OCT  24, 1993  01h 41m 43.26± 2.29s
   31.164 N ±17.7km    8.986 W ±11.5km
   DEPTH =  10.0km  (geophysicist)
 MOROCCO                           (395)
      MG 2.9 (RTC).

CIA      0.43  25 iP    41 52.50   0.4
                  iS    42 00.00
JHA      0.69 326 iP    41 57.00   0.1
                  iS    42 08.00
OUK      0.95  87 iP    42 01.50   0.1
                  iS    42 15.00
TZC      2.35  64 eP    42 23.00   0.5
                  iS    42 53.00
AVE      2.51  32 iPn   42 24.00  -0.8
                  i     42 28.20
                  iSn   42 55.50
                  i     42 58.50
KIB      2.88  60 eP    42 36.00   6.1X
                  eS    43 08.00
IFR      4.02  53 iPn   42 46.00  -0.4
                  i     42 52.00
                  iSn   43 45.50
     S.D. = 0.6  on   6 of   7 obs.
-----------------------------------
*  OCT  24, 1993  01h 44m 22.08± 0.71s
   53.568 N ±13.2km  159.915 E ±12.6km
   DEPTH =  33.0km  (normal)
   4.5mb ( 15 obs.)
 NEAR EAST COAST OF KAMCHATKA      (218)

MAT     22.76 230 eP    49 24.00   1.5
       0.7s    17.12nm          4.6mb
INK     33.56  38 eP    51 00.50   0.1
MBC     36.65  23 eP    51 27.50   0.8
YKA     42.89  43 eP    52 17.20  -1.2
       0.6s     2.20nm          4.1mb
RES     42.92  22 eP    52 19.00   0.4
ULM     58.57  47 eP    54 18.00   0.5
KAF     59.01 337 eP    54 19.50  -0.8
       0.3s     3.30nm          4.9mb
KKN     59.19 276 P     54 22.00  -0.3
PKI     59.27 276 P     54 22.60  -0.4
GKN     59.41 277 P     54 23.70  -0.1
DMN     59.42 276 P     54 23.40  -0.6
KUR     60.80 336 eP    54 32.60   0.0
NBI     63.06 344 P     54 47.00  -0.8
       0.4s     1.30nm          4.4mb
KFS     63.46 342 eP    54 49.00  -1.4
       0.5s     2.80nm          4.7mb
EKA     70.57 350 Pc    55 33.30  -2.0
       0.5s     2.50nm          4.5mb
[illegible]  71.87 339 iP    55 43.60   0.5
       1.5s    17.00nm          4.8mb
[illegible]  72.77 337 eP    55 49.20   0.7
[illegible]  73.79 338 P     55 55.50   1.0
       1.0s     3.50nm          4.3mb
[illegible]  74.03 338 P     55 56.50   0.5
       0.6s     1.34nm          4.1mb
[illegible]  74.72 272 P     56 00.00  -0.3
[illegible]  75.78 342 eP    56 05.60  -0.4
       0.9s     4.40nm          4.5mb
HAU     76.35 342 eP    56 09.40   0.3
       0.4s     2.20nm          4.5mb
BSF     76.43 342 eP    56 09.80   0.1
       1.0s     4.40nm          4.4mb
WRA     76.47 205 P     56 08.80  -1.2
       0.6s     1.00nm          4.0mb
LPL     78.67 341 eP    56 23.80   1.6
       0.8s     8.20nm          4.8mb
LPG     78.68 341 eP    56 24.00   1.6
       0.7s     6.50nm          4.7mb
     S.D. = 1.0  on  26 of  26 obs.
-----------------------------------
?  OCT  24, 1993  02h 17m 13.18± 6.29s
   28.924 N ±29.7km   34.847 E ±38.4km
   DEPTH =  10.0km  (geophysicist)
 EGYPT                             (553)

SRFA     0.30  89 eP    17 19.00  -0.4
HSHJ     0.69  44 P     17 27.10   0.2
AYN      1.01  93 eP    17 32.67   0.4
NAQJ     1.22  28 P     17 36.00   0.1
SHWJ     1.56  21 P     17 41.00  -0.2
JRDJ     1.93  21 Pc    17 50.10   3.5X
     S.D. = 0.4  on   5 of   6 obs.
-----------------------------------
   OCT  24, 1993  02h 19m 27.12± 1.20s
   45.885 S ± 6.0km  168.599 E ± 8.2km
   DEPTH =  65.3 ± 21.1 km
 SOUTH ISLAND, NEW ZEALAND         (162)

TUZ      0.73  96 Pc    19 42.00  -0.2
                  S     19 52.10
TLC      0.77  26 Pc    19 42.10  -0.8
CMCZ     0.88  33 P     19 43.90  -0.3
SBCZ     0.94  33 P     19 44.90   0.0
LSCZ     0.94  35 P     19 45.00   0.1
MHZ      0.95  30 P     19 45.30   0.2
MMCZ     0.96  23 Pc    19 45.50   0.3
LRCZ     0.97  33 P     19 45.60   0.1
MSCZ     0.98  36 Pc    19 45.70   0.3
SIZ      1.04 198 Pc    19 46.20   0.1
MSZ      1.30 338 P     19 49.60   0.0
                  S     20 05.60
BWZ      1.63  34 P     19 54.40   0.3
ODZ      1.67  60 Pc    19 55.30   0.7
MQZ      3.61  54 eP    20 21.10  -0.7
     S.D. = 0.4  on  14 of  14 obs.
-----------------------------------
&  OCT  24, 1993  02h 50m 26.63s
   61.701 N          147.414 W
   DEPTH =  31.5km
 SOUTHERN ALASKA                   (  2)
      <AEIC>. ML 2.8 (AEIC), 2.9
      (PMR).

SCM      0.14  17 iPd   50 32.29  -0.3
                  eS    50 36.80
SML      0.45 284 iPd   50 35.23  -1.2
                  eS    50 42.79
CFI      0.55 198 iPd   50 37.24  -0.6
                  eS    50 46.05
KNK      0.58 240 iPd   50 37.59  -0.8
                  eS    50 46.91
TOA      0.71  55 iPc   50 39.70  -0.8
GHO      0.72 276 iPd   50 39.18  -1.4
                  eS    50 49.41
KLU      0.74 106 ePc   50 39.51  -1.4
                  eS    50 49.58
VZW      0.77 147 ePc   50 39.70  -1.5
VLZ      0.77 137 iPc   50 39.51  -1.7
                  eS    50 50.46
PLRM     0.83 263 iPd   50 40.80  -1.1
                  eS    50 52.41
PMR      0.83 263 iPd   50 40.46  -1.5
                  eS    50 51.62
PWL      0.95 208 iPd   50 43.41  -0.4
                  eS    50 56.88
TZL      1.00  69 ePc   50 44.06  -0.5
                  eS    50 57.93
FID      1.06 154 eP    50 44.58  -0.7
PMS      1.13 247 iPd   50 45.20  -1.1
PWA      1.18 269 ePd   50 46.30  -0.6
SDG      1.21  46 ePd   50 46.63  -0.8
                  eS    51 01.78
KNIM     1.37 187 eP    50 49.41  -0.3
DHY      1.38   1 eP    50 49.00  -1.0
                  eS    51 06.20
HIN      1.38 161 eP    50 50.39   0.4
CVA      1.41 144 eP    50 50.42   0.1
CUT      1.52 299 ePc   50 51.49  -0.4
                  eS    51 10.69
MPA      1.54 219 eP    50 52.05  -0.1
PAX      1.56  35 eP    50 51.85  -0.8
                  eS    51 11.66
```

```
SUA      1.61 263 eP     50 53.39   0.1
SGAM     1.61 137 eP     50 53.61   0.4
HUR      1.65 322 eP     50 53.54  -0.3
LTI      1.68 188 eP     50 54.47   0.2
GLB      1.74  97 eP     50 54.33  -0.9
                  eS     51 15.97
SLKM     1.81 230 eP     50 56.68   0.5
RND      1.84 339 eP     50 56.56   0.0
                  eS     51 20.09
RAGM     1.87 133 eP     50 57.43   0.3
SEW      1.89 213 eP     50 57.03  -0.2
SKT      1.97 280 ePc    50 58.38  -0.1
                  eS     51 23.95
HMT      2.06 130 eP     50 59.71   0.0
MCK      2.16 342 eP     51 01.22   0.1
TRF      2.20 324 eP     51 01.47  -0.4
CGLM     2.24 262 ePc    51 02.21  -0.1
                  eS     51 28.04
CRQM     2.27 113 eP     51 03.06   0.1
SPU      2.29 259 ePc    51 02.69  -0.3
                  eS     51 30.96
NCG      2.29 265 ePc    51 03.02  -0.1
CRP      2.32 261 eP     51 02.54  -1.0
CKN      2.34 260 eP     51 03.99   0.3
CKT      2.36 260 eP     51 03.70  -0.3
CP2      2.36 261 eP     51 04.17   0.0
TGL      2.41 111 eP     51 04.60  -0.2
BKG      2.42 257 eP     51 04.42  -0.5
CKL      2.42 260 eP     51 04.40  -0.5
BGL      2.43 262 eP     51 04.71  -0.4
KTH      2.47 320 eP     51 05.42  -0.2
BALM     2.53 103 eP     51 05.63  -0.9
                  eS     51 36.84
WAX      2.55 118 eP     51 07.94   1.2
BWN      2.65 340 eP     51 07.54  -0.6
RDT      2.67 247 eP     51 07.65  -0.8
                  eS     51 40.20
HDA      2.72   4 eP     51 09.52   0.4
DFR      2.79 249 eP     51 09.60  -0.5
REF      2.84 247 eP     51 10.02  -0.9
CNPM     2.88 222 eP     51 11.35   0.0
BC3      2.96  60 eP     51 11.73  -0.8
CCB      2.96 357 eP     51 12.31  -0.2
CTGM     3.02 101 eP     51 14.06   0.5
YAH      3.07 113 eP     51 13.34  -0.9
IL1      3.09   4 eP     51 13.91  -0.5
                  eS     51 50.84
ILB      3.09   4 eP     51 14.16  -0.2
                  eS     51 51.00
FBA      3.22 357 eP     51 15.15  -0.9
MDM      3.29 354 eP     51 16.83  -0.4
SVW      3.99 265 eP     51 24.70  -2.5
TTA      4.20 291 (P)    51 27.77  -2.3
IMA      5.18 330 eP     51 42.00  -2.1
       69 obs. associated
-------------------------------------
*  OCT  24, 1993  03h 05m 06.99± 0.79s
   3.957 S ± 8.5km  152.384 E ±12.5km
   DEPTH = 180.4 ±  5.5 km
   4.7mb (  2 obs.)
 NEW IRELAND REGION, P.N.G.        (190)

RAB      0.32 223 iPd    05 31.80  -0.9
       0.5s  2281.69nm
                  iS     05 50.00
KVG      2.08 311 iPc    05 46.10   0.8
PMG      7.50 224 eP     06 55.00   0.4
DZM     22.59 144 iPd    09 54.00   0.9
WR2     23.69 226 iPc    10 04.00   0.3
       0.6s   115.80nm          5.6mb X
                  iScP   13 43.30
                  eS     14 04.50
WR2     23.69 226 eP     09 44.50 -19.2X
       0.3s     2.20nm
WRA     23.70 226 P      09 46.80 -17.0X
       0.4s     0.60nm
ASPA    26.50 221 eP     10 29.10  -0.6
       0.6s    10.20nm          4.7mb
                  eS     14 45.00
WARB    33.12 226 iPd    11 27.80  -0.2
       0.4s     7.00nm          4.7mb
GUN     71.33 301 P      16 10.00   0.3
PKI     71.65 301 P      16 11.20  -0.4
KKN     71.81 301 P      16 12.40   0.0
DMN     71.92 301 P      16 13.20   0.1
GKN     72.42 301 P      16 15.80  -0.1
GEC2   123.12 329 PKP    23 43.00  -0.7
       0.4s     0.67nm
                  e      32 38.40
     S.D. = 0.6  on  13 of  15 obs.
-------------------------------------
   OCT  24, 1993  03h 19m 42.98± 0.38s
    4.359 S ± 2.7km  129.086 E ± 3.8km
   DEPTH = 189.7 ±  4.0 km
   5.1mb ( 49 obs.)
 BANDA SEA                         (280)

AAI      1.11 307 eP     20 13.00   0.2
                  eS     20 34.00
SWI      4.09  32 iPc    20 44.50  -1.7
                  iS     21 30.00
SLKI     4.22 149 iPd    20 48.70   1.0
                  iS     21 34.00
MNI      7.16 324 ePc    21 25.70  -0.4
                  eS     22 46.70
KNA     11.32 182 eP     22 19.90  -0.6
       0.3s   244.00nm          6.1mb X
                  eS     24 20.50
JAY     11.74  81 ePc    22 26.50   0.6
       0.8s     7.00nm          4.2mb
                  eS     24 18.60
DAV     11.90 343 eP     22 34.00   6.1X
CTB     12.47 337 ePd    22 39.00   3.8X
BIP     12.82 347 ePd    22 42.50   2.9X
MAP     15.45 341 ePc    23 12.00  -0.4
PLP     15.95 345 ePd    23 19.70   1.1
WR2     16.33 162 eP     23 21.00  -2.2
                  i      23 22.10
                  eS     26 12.30
KKM     16.49 309 ePc    23 33.00   7.7X
       0.5s   167.80nm          5.7mb
MDG     16.66  94 eP     23 28.60   1.4
LAT     17.98  98 eP     23 41.10  -0.9
PMG     18.62 107 eP     23 48.50  -0.3
QIS     19.08 148 iPd    23 53.20  -0.3
                  eS     27 17.30
ASPA    19.75 167 iPc    24 00.60   0.3
     Z  22s     0.40um
                  i      24 05.50
                  iS     27 28.90
                  iScS   35 07.70
LEM     21.51 262 ePc    24 18.00   0.1
                  eS     24 30.00
WARB    21.83 186 iPc    24 22.30   1.4
       0.4s    59.00nm          5.4mb
BCP     22.28 338 eP     24 28.00   2.5X
BAG     22.28 338 ePd    24 26.00   0.5
       1.1s   227.85nm          5.6mb
                  eS     28 16.00
FORT    26.30 182 iPc    25 02.60  -0.2
       0.5s    65.00nm          5.6mb
KGM     26.52 283 ePd    25 02.00  -3.0X
       0.4s    60.20nm          5.7mb
COOL    27.43 195 eP     25 11.50  -1.6
       0.8s    36.00nm          5.1mb
MRWA    27.66 205 iPc    25 13.30  -1.9
       0.3s     8.00nm          5.0mb
BAL     28.60 203 eP     25 22.20  -1.4
KLB     29.11 200 iPc    25 26.80  -1.3
       0.3s    10.00nm          5.1mb
IPM     29.40 287 ePc    25 31.00   0.1
STK     29.79 158 eP     25 34.10   0.0
       0.4s    12.30nm          5.0mb
                  iPcS   30 13.00
                  iS     31 35.70
QIZ     29.99 321 P      25 36.80   0.9
                  S      30 20.00
MUN     30.02 202 eP     25 34.80  -1.2
       0.3s   200.00nm          6.3mb X
NWAO    30.50 200 eP     25 39.10  -1.2
       0.6s    12.00nm          4.8mb
SNG     30.64 292 eP     25 42.40   0.7
       1.1s   116.46nm          5.5mb
ADE     31.73 165 iPc    25 51.80   0.7
ARMA    33.53 143 iPd    26 07.10   0.3
       0.8s    13.00nm          4.6mb
                  iScP   32 10.70
LOE     34.60 309 eP     26 16.00   0.1
NST     34.89 305 iPc    26 19.00   0.7
KAGJ    35.39   3 eP     26 22.60   0.3
KHT     35.71 303 iPc    26 26.20   1.0
SSE     36.05 348 P      26 27.50  -0.4
       1.0s    11.00nm          4.5mb
CNB     36.06 151 eP     26 29.30   1.2
       0.8s    22.00nm          4.9mb
TOO     36.30 158 iPd    26 32.50   2.5
       0.4s    33.00nm          5.3mb
KUMJ    36.73   2 eP     26 33.30  -0.2
WHN     37.46 339 ePd    26 40.50   0.8
NJ2     37.49 346 Pc     26 41.00   1.0
       1.0s    26.00nm          4.8mb
                  S      32 13.00
                  ScP    32 24.50
GYA     37.55 326 iPc    26 41.80   1.1
       0.8s    36.00nm          5.1mb
                  PcP    28 56.40
                  S      32 15.00
                  ScP    32 25.00
CHTO    37.57 309 iPc    26 42.10   1.2
       0.7s    48.92nm          5.3mb
TKSJ    38.42   7 P      26 48.00   0.3
TKSJ    38.42   7 P      26 48.10   0.4
WKYJ    38.86   9 eP     26 50.70  -0.7
WKYJ    38.86   9 P      26 51.70   0.3
KMI     38.91 320 Pc     26 54.00   1.8
       1.5s   160.00nm          5.4mb
YONJ    39.55   6 P      26 57.60   0.6
TSRJ    40.21   9 eP     27 00.10  -2.3
DZM     40.23 119 iPd    27 03.50   0.5
IIDJ    40.48  11 P      27 04.00  -0.7
BKM     40.54 112 iPc    27 06.30   0.9
CHJJ    41.25  12 P      27 09.70  -1.3
MTMJ    41.54  11 P      27 12.80  -0.6
MAT     41.57  11 iPd    27 12.50  -1.1
       0.9s    60.50nm          5.1mb
                  eS     33 07.00
KAKJ    41.66  14 P      27 13.10  -1.2
TIA     41.88 345 Pc     27 16.00  -0.1
NIIJ    42.40  12 P      27 19.70  -0.6
CD2     42.60 327 iPc    27 21.20  -0.9
       0.8s    38.00nm          5.0mb
                  S      33 27.00
XAN     42.67 335 Pd     27 22.30  -0.3
       1.0s    36.00nm          4.9mb
                  PP     29 12.00
                  ScP    32 45.00
                  S      33 28.00
                  ScS    36 54.00
YAMJ    43.52  13 eP     27 30.20   0.8
TIY     44.63 341 iPc    27 38.60   0.3
     Z  20s     0.37um          4.3Msz
                  S      33 57.00
OFUJ    44.76  14 eP     27 39.60   0.4
BJI     45.75 346 eP     27 47.00   0.0
       1.1s    33.00nm          4.7mb
                  eS     34 12.00
SNY     46.24 354 Pd     27 50.40  -0.4
       1.0s    37.00nm          4.8mb
LZH     46.66 332 iPc    27 55.40   0.9
       1.6s   110.00nm          5.1mb
                  pP     28 37.50 192kmX
                  PcP    29 28.00
                  PP     29 46.50
                  ScP    33 02.00
                  PcS    33 21.50
                  S      34 27.50
                  esS    35 40.00
                  ScS    37 26.50
HHC     47.77 342 P      28 03.40   0.5
       1.2s    23.00nm          4.5mb
                  S      34 45.00
BTO     48.03 340 eP     28 04.00  -1.0
CN2     48.05 356 Pd     28 04.00  -0.9
       1.0s    14.00nm          4.4mb
MDJ     48.75   0 eP     28 10.00  -0.3
       1.7s   190.00nm          5.3mb
LSA     49.68 315 Pc     28 19.00   0.8
       0.8s    54.00nm          5.1mb
                  eS     35 10.00
GTA     51.24 331 iPc    28 30.00   0.6
       1.5s    52.00nm          4.9mb
                  ScP    33 21.50
                  S      35 31.00
                  ScS    37 58.50
GUN     52.55 310 P      28 39.60   0.0
YSS     52.55  12 (P)    28 37.10  -1.8
PKI     52.74 310 P      28 40.40  -0.6
KKN     52.95 310 P      28 42.20  -0.2
DMN     52.99 309 P      28 42.60  -0.2
QRZ     53.23 139 eP     28 44.50   0.5
KOD     53.41 286 iP     28 46.00  -0.1
```

24d 03h

```
GKN    53.55 310 P     28 46.50  -0.2
GBA    54.27 290 Pc    28 51.10  -0.9
       0.9s   999.90nm          6.5mb X
HYB    54.36 295 iP    28 51.70  -1.0
       1.0s   230.00nm          5.8mb
KHZ    54.70 141 P     28 54.30  -0.4
MNG    55.08 138 P     28 57.00  -0.5
HBZ    55.72 133 P     29 02.60   0.5
PUZ    55.88 134 P     29 03.20  -0.1
NOZ    55.95 135 P     29 04.00   0.2
CIT    57.67 349 eP    29 16.20   0.5
ZAK    58.89 341 eP    29 23.00  -1.0
       1.0s    19.00nm          4.8mb
                e      30 11.00
NDI    59.67 307 iP    29 28.00  -1.8
WMQ    60.70 327 P     29 37.00   0.4
       1.0s    42.00nm          5.2mb
     Z 14s      0.52um          4.8MszX
                PcP    30 19.00
                PP     31 53.50
                ScP    34 03.00
                S      37 38.00
CSY    63.17 188 iPd   30 02.20   9.7X
       1.0s    58.10nm          5.4mb
KSH    65.44 317 P     30 09.00   1.2
       0.7s    50.00nm          5.4mb
                PcP    30 39.00
                PP     32 36.00
                PcS    34 41.00
                S      38 38.00
                ScS    39 42.00
                SS     42 56.00
YAK    66.19   0 iPd+  30 11.80  -0.1
       1.0s   252.00nm          5.9mb
                eS     38 44.00
FRU    67.97 320 eP    30 24.00   0.5
       3.0s   180.00nm          5.3mb
                e      30 52.00
                e      31 12.80
MAIO   76.33 309 iPc   31 14.00   1.1
MAW    77.07 201 iP+   31 17.10   0.9
       1.0s    33.33nm          5.0mb
SDN    82.59  33 iPd   31 45.82   0.0
       0.8s   105.71nm          5.6mb
SPA    85.67 180 iPc   31 57.90  -3.4X
       0.4s    32.89nm          5.5mb
SVW    86.73  28 ePd   32 07.42   1.0
       0.9s    42.70nm          5.3mb
                epP    32 58.60 209kmX
TTA    87.04  26 iPd   32 08.25   0.4
       0.6s     5.49nm          4.6mb
                epP    32 59.55 209kmX
CRP    88.40  28 eP    32 14.59   0.0
IMA    88.80  23 eP    32 16.89   0.5
       1.2s    14.02nm          4.8mb
SLKM   89.19  29 ePd   32 17.30  -0.8
                epP    33 09.09 210kmX
PMR    89.89  28 eP    32 20.39  -0.9
       0.8s    13.71nm          5.0mb
FBA    90.99  25 eP    32 25.19  -1.1
       0.7s     2.79nm          4.4mb
INK    96.76  22 ePc   32 52.40  -0.3
       1.0s     5.00nm          4.8mb
BUL    98.31 249 eP    33 02.00   1.2
MBC    99.26  13 eP    33 05.00   1.1
KAF    99.81 332 iP    33 06.00  -0.6
       0.4s     3.80nm          5.2mb
HFS   106.22 332 ePdiff33 34.00  -1.1
       0.5s     1.80nm          5.5mb
GEC2  109.82 321 PKP   37 53.90   0.7
       0.6s     0.84nm
                e      41 10.90
PV10  117.42  49 ePKP  38 09.12   0.9
RSSD  118.90  41 ePKP  38 10.75  -0.1
KDS   140.90 285 ePKP  38 45.50  -7.5X
SLA   147.80 155 ePKP  39 10.00   5.4X
NNA   149.53 122 ePKP  39 12.50   5.1X
       1.0s    16.00nm
MOCB  150.74 151 PKP   39 17.20   7.6X
RSTA  151.11 184 ePKP  39 16.40   6.9X
VAO   152.54 188 ePKP  39 20.70   9.0X
CNCB  153.04 142 PKP   39 16.20   3.1X
                i      39 23.10
LPB   153.18 141 ePKP  39 21.00   7.8X
LPAZ  153.34 141 PKP   39 15.50   1.8
CCH   153.68 146 ePKP  39 25.00  11.3X
PPD   153.77 179 ePKP  39 22.90   9.5X
                e      39 35.40
     S.D. = 0.9  on 113 of 131 obs.
-----------------------------------
   OCT  24, 1993  03h 40m 58.34± 0.63s
   34.551 S ± 9.0km   69.579 W ± 5.7km
   DEPTH = 174.5 ±  7.4 km
 CHILE-ARGENTINA BORDER REGION    (127)
      MD 4.0 (SAN).

RFA    0.94 104 iPc   41 25.60   0.2
                S     41 44.00
PCH    1.21 320 iP    41 27.77   0.2
                iS    41 48.13
SAN    1.42 320 iP    41 29.49   0.1
TACH   1.44 308 iPd   41 29.28  -0.3
                iS    41 50.41
LNV    1.63 291 iPd   41 31.00  -0.4
                iS    41 53.75
PEL    1.68 326 iPd   41 32.42   0.4
                iS    41 55.09
LCCH   1.97 302 iPd   41 34.63  -0.4
                iS    41 59.69
ROCH   1.98 322 iP    41 35.50   0.1
                iS    42 00.41
JACH   2.05 335 iP    41 36.44   0.4
                iS    42 02.69
RTCB   3.13  12 iPd   41 49.00   0.1
                S     42 27.50
CFA    3.14  21 ePc   41 49.10   0.0
                S     42 25.00
RTLL   3.35  16 iPd   41 51.50  -0.1
                S     42 30.00
MRA    3.88  58 e(P)d 41 58.90   0.7
TCA    5.28  54 eP    42 15.50  -1.1
WRA  121.22 206 Pdiff 55 59.50   0.2
       0.9s     0.40nm
     S.D. = 0.5  on  15 of  15 obs.
-----------------------------------
&  OCT  24, 1993  04h 13m 24.77s
   36.500 N          121.071 W
   DEPTH =   2.5km
 CENTRAL CALIFORNIA                ( 39)
      <GM-P>. MD 2.5 (GM).

SAO    0.40 311 eP    13 32.53  -0.3
PHAM   0.86 140 eP    13 40.81  -1.1
COE    0.90 328 eP    13 40.95  -1.7
ARN    0.92 337 eP    13 43.09  -0.1
                eS    13 57.08
BCH    1.54 148 eP    13 51.19  -2.1
MMPM   1.97  55 (P)   13 59.23  -0.6
MEMM   2.06  55 (P)   13 59.95  -0.8
MTUM   2.18  66 (P)   14 02.00  -0.7
BONR   2.64  56 P     14 15.51   6.1
BONR   2.64  56 ePn   14 10.44   1.0
       10 obs. associated
-----------------------------------
?  OCT  24, 1993  05h 46m 09.14± 2.94s
   35.156 N ±17.0km    4.888 W ±31.3km
   DEPTH =  33.0km  (normal)
 STRAIT OF GIBRALTAR               (385)
      MD 2.8 (RBA).

NKM    0.52 304 iPnc  46 20.00   0.0
                iSg   46 27.00
                i     46 28.00
                i     46 29.00
ZER    1.05 190 iP    46 27.50   0.0
                iS    46 40.50
TGT    1.09 187 iP    46 28.50   0.4
                iS    46 42.00
TZK    1.21 151 iP    46 35.50   5.7X
                iS    46 52.50
IFR    1.65 187 iPg   46 36.00  -0.3
                i     46 37.00
                iSg   46 55.50
                i     46 57.00
CZD    2.11 184 iP    46 47.00   4.2X
                iS    47 13.00
AVE    2.80 229 iPg   46 52.50   0.0
                iSg   47 22.50
                i     47 25.00
     S.D. = 0.3  on   5 of   7 obs.
-----------------------------------
?  OCT  24, 1993  05h 47m 50.40± 0.84s
   31.493 S ±12.5km   67.967 W ± 7.1km
   DEPTH =  13.3 ±  7.7 km

 SAN JUAN PROVINCE, ARGENTINA     (137)

CFA    0.26 244 ePc   48 01.50   5.4X
                S     48 13.70
RTLL   0.46 291 iPd   48 00.20   0.4
                S     48 10.00
RTCV   0.61 233 eP    48 02.00  -0.4
                S     48 14.50
RTCB   0.71 270 iPd   48 01.00  -3.2X
                S     48 12.50
RTPR   1.72  47 eP    48 20.00  -0.2
                S     48 45.00
MRA    2.13 116 e(P)c 48 26.70   0.7
TCA    2.89  88 iP    48 36.50  -0.5
     S.D. = 1.0  on   5 of   7 obs.
-----------------------------------
   OCT  24, 1993  05h 48m 16.52± 0.32s
   21.203 S ± 6.5km   68.894 W ± 5.9km
   DEPTH = 101.8km  ( 24 depth phases)
   4.8mb ( 21 obs.)
 CHILE-BOLIVIA BORDER REGION       (124)

MOCB   3.04  91 P     49 10.30   6.2X
YJA    3.30 108 iPc   49 13.80   6.2X
CNCB   4.45  11 iPc   49 25.20   1.7
CCH    4.61  35 P     49 27.30   1.8
SLA    4.70 139 iPc   49 32.40   5.8X
LPB    4.71   9 iPd   49 30.00   3.1X
LPAZ   4.94   9 iPc   49 30.80   0.4
ARE    5.32 332 eP    49 31.00  -4.3X
                iS    50 27.50
FSA    5.53 152 ePc   49 43.10   5.3X
TCA   10.80 160 eP    50 51.00   1.3
NNA   11.91 319 eP    51 02.50  -1.9
       0.9s    14.29nm          4.7mb
                eS    53 19.80
RFA   13.52 178 ePc   51 24.00  -1.4
PPD   16.37  96 eP    52 02.50   0.9
                i     52 05.20
RSTA  18.61 104 eP    52 29.20   0.4
                e     52 32.20
VAO   20.39  99 eP    52 47.60   0.1
                e     52 48.30   3kmX
BDFB  20.56  78 ePc   52 48.13  -1.1
       0.5s    70.45nm          5.3mb
BAO   20.58  78 eP    52 48.50  -1.0
                i     52 51.70  12kmX
                i     52 54.80
                i     53 02.10
                i     53 04.80
CACB  20.63  95 ePd   52 49.70  -0.3
                e     52 50.70   4kmX
SOB1  29.47  70 eP    54 12.50  -0.7
PWLA  58.76 342 eP    58 03.58  -2.5X
UYO   60.20 336 iPd   58 14.40  -1.6
LTX   60.39 325 eP    58 14.53  -3.0X
ELC   61.25 342 eP    58 20.49  -2.6X
                epP   58 46.12 103km
TUL   62.25 335 iPc   58 28.80  -0.9
FVM   62.26 341 ePd   58 27.67  -2.1
       0.8s    60.57nm          5.7mb
                epP   58 53.92 106km
MEO   62.42 333 iPc   58 28.50  -2.4
BINY  63.42 354 ePd   58 36.52  -0.9
       1.9s    63.38nm          5.2mb
                epP   59 01.30  99km
ACO   64.29 333 iPd   58 41.30  -1.8
KDS   65.00  64 iPd   58 47.00  -1.1
RSNY  65.63 356 ePd   58 50.23  -1.4
       1.4s    60.13nm          5.3mb
                epP   59 17.30 109km
                esP   59 29.33
ALQ   66.26 327 ePd   58 55.64  -0.4
       0.8s     9.19nm          4.8mb
                epP   59 20.68  99km
                esP   59 34.63
TUC   66.61 322 ePd   58 59.01   0.8
       0.9s     6.76nm          4.6mb
GAC   66.85 355 eP    58 58.50  -0.8
LIC   68.29  74 P     59 08.99   0.0
       0.7s     6.50nm          4.6mb
TIC   68.48  73 P     59 09.77  -0.4
       1.0s    11.00nm          4.7mb
KIC   68.61  74 P     59 11.03   0.1
       0.7s    17.50nm          5.1mb
SPA   68.93 180 iPc   59 11.10  -1.3
       1.1s     5.95nm          4.3mb
```

```
LKO    69.25  70 P     59 13.18  -1.8
       0.5s     6.00nm          4.7mb
GOL    69.51 331 ePc   59 16.05  -0.2
       0.7s     8.95nm          4.7mb
                 epP   59 41.28  99km
                 esP   59 54.47
GLA    69.52 320 eP    59 16.87   0.6
PV08   70.18 328 eP    59 20.57   0.0
                 epP   59 46.40 101km
PV10   70.22 327 eP    59 19.47  -1.2
PV09   70.37 327 eP    59 21.40  -0.2
PEC    71.51 319 ePc   59 28.55   0.3
       0.8s     9.90nm          4.7mb
SRU    71.53 327 ePd   59 28.56   0.1
                 epP   59 53.76  98km
MSU    71.94 326 ePd   59 31.74   0.7
                 epP   59 57.76 101km
ARUT   72.09 324 ePd   59 32.90   1.1
                 epP   59 59.21 103km
GSC    72.26 320 eP    59 33.69   0.9
                 epP   59 59.03  98km
RSSD   72.54 334 ePd   59 33.87  -0.5
       1.0s    10.36nm          4.6mb
                 epP   59 59.80 101km
DAU    72.89 327 ePd   59 37.07   0.5
                 epP   00 03.17 101km
TPNV   73.07 322 eP    59 38.67   1.1
       0.6s     5.99nm          4.6mb
ABL    73.42 319 eP    59 40.15   0.5
                 epP   00 06.24 101km
ISA    73.50 320 ePd   59 40.83   0.9
       0.6s    14.25nm          5.0mb
                 epP   00 06.94 101km
DUG    73.52 326 ePd   59 40.60   0.5
       0.7s     7.56nm          4.6mb
                 epP   00 06.65 101km
BCH    74.17 318 ePd   59 44.84   0.9
                 epP   00 10.69 100km
HVU    74.67 327 eP    59 46.81   0.1
JAQ    74.92 356 eP    59 46.00  -1.7
BONR   74.95 322 eP    59 49.86   1.3
ULM    75.04 342 eP    59 50.00   1.6
                 pP    00 18.00 109km
MEMM   75.12 321 eP    59 50.38   1.2
                 epP   00 16.65 102km
LRM    77.53 330 eP    00 03.60   0.8
                 e     00 30.50 104km
NTYM   77.82 320 ePc   00 05.17   1.0
ORV    77.88 321 ePd   00 05.43   0.9
                 epP   00 31.84 102km
                 esP   00 42.19
LBFM   79.27 322 ePd   00 12.65   0.3
                 epP   00 38.40  99km
LGPM   79.53 321 eP    00 13.69   0.0
DPW    81.73 329 eP    00 25.81   0.8
                 epP   00 52.79 103km
BLF    84.16 119 eP    00 40.80   2.7
SLR    87.13 116 e(P)  00 46.00  -6.8X
       0.9s    41.00nm          5.5mb
     Z 20s      6.00um          6.0Msz
                 e     07 15.10
BUL    89.51 111 iPc   01 07.80   3.6X
       0.8s     5.97nm          4.8mb
                 i     01 35.80 106km
YKA    90.91 341 eP    01 09.40  -0.1
       0.8s     7.20nm          4.9mb
OJC   105.18  42 ePKP  06 30.20   1.9
       1.1s    71.00nm
                 e     06 56.10
CMP   107.44  48 ePKPd 06 32.00  -0.8
     S.D. = 1.1  on  61 of  72 obs.
-----------------------------------
   OCT  24, 1993  05h 53m 29.69± 0.12s
   11.327 N ± 2.6km  125.396 E ± 3.2km
   DEPTH =  48.6km  ( 14 depth phases)
   5.8mb (117 obs.)  5.2Msz ( 49 obs.)
 SAMAR, PHILIPPINE ISLANDS        (251)
      Mw 5.6 (HRV). Felt (III RF) at
      Palo, Leyte.
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 46S, 97C
      Centroid Location:
      Origin Time        05:53:34.2 0.2
      Lat 11.41N 0.02 Lon 125.78E 0.02
      Dep  47.2 1.8 Half-duration  1.6
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 2.59 0.05  Mtt= 0.11 0.08
        Mff=-2.70 0.09  Mrt= 0.83 0.09
        Mrf= 1.62 0.09  Mtf= 0.24 0.06
      Principal Axes:
        T  Val=  3.28  Plg=68  Azm=315
        N       -0.12      15      184
        P       -3.15      16       90
      Best Double Couple:Mo=3.2*10**17
       NP1:Strike=159 Dip=32 Slip=  61
       NP2:        12      62      107

PLP     0.44 249 iPc   53 43.00   2.8X
MAP     1.71 234 iPc   54 00.30   2.7X
                 iS    54 21.00
BIP     3.20 165 iPd   54 22.00   3.3X
GQP     3.85 312 iPc   54 31.00   3.0X
DAV     4.22 178 ePc+  54 37.50   4.4X
                 iS    55 39.00
CTB     4.27 196 ePc   54 39.50   5.7X
                 eS    55 30.00
QVP     5.39 308 eP    54 54.00   4.3X
                 eS    55 55.00
PPR     6.73 257 ePd   55 11.00   2.5X
BAG     6.88 318 ePc+  55 08.00  -2.8X
       0.9s   890.76nm          6.5mb
                 eS    56 29.50
CVP     7.22 332 ePd   55 16.00   0.7
MNI     9.83 183 ePc   55 54.50   3.1X
       1.0s     4.50nm          4.5mb X
TSM    10.21 227 eP    56 00.50   3.9X
KKM    10.48 241 ePc   56 10.50  10.1X
       0.8s   291.80nm
QZH    15.00 335 P     57 01.30   1.1
       1.3s   330.00nm          5.4mb
     Z 24s      7.14um          5.2Msz
     N 17s      2.48um
                 S     59 46.00
HKC    15.30 317 eP    57 04.50   0.3
GZH    16.40 317 iPc   57 20.00   1.9
       1.3s   290.00nm          5.2mb
     Z 23s      8.19um          4.7Msz
     N 11s      3.05um
     E 10s      1.27um
                 pP    57 34.00
QIZ    16.84 299 P     57 26.20   2.4
     N 17s      2.60um
     E 17s      4.91um
                 PP    57 40.00
GUMO   19.14  81 eP    57 52.30   0.3
       1.5s   870.80nm          5.8mb
                 e     58 07.40
                 eS    01 29.30
PJG    19.14  81 eP    57 52.50   0.5
                 TT    16 25.70
GUA    19.18  81 eP    57 52.50   0.0
       1.5s  1088.89nm          5.9mb
SSE    20.05 349 iPc   58 02.00   0.4
       1.2s   810.00nm          5.9mb
     Z 20s      3.70um          4.7Msz
     N 12s      1.40um
     E 12s      1.10um
                 sP    58 16.00
                 S     01 40.00
                 SS    02 12.00
SLKI   20.06 163 ePc   58 01.00  -0.8
KAGJ   20.41  14 eP    58 06.00   0.7
JAY    20.52 131 ePc   58 06.50  -0.1
       1.0s    14.00nm          4.2mb X
                 eS    00 08.00
NJ2    21.49 345 Pc    58 15.00  -1.3
       1.4s   680.00nm          5.8mb
     Z 22s      2.13um          4.5Msz
     E 13s      1.65um
KUMJ   21.69  12 eP    58 18.40   0.1
WHN    21.70 333 iPc   58 20.20   1.9
       1.2s   620.00nm          5.9mb
     E 18s      3.57um
                 sP    58 36.00
GYA    23.20 313 iPc   58 35.00   1.6
       1.0s   460.00nm          5.9mb
     Z 28s      6.00um          4.9MszX
     N 16s      4.53um
     E 16s      1.69um
                 pP    58 50.00  64kmX
                 ScS   09 35.00
WWKK   23.44 128 ePd   58 37.40   1.7
LOE    23.70 288 iPc   58 38.00  -0.1
KGM    23.78 249 ePd   58 40.30   1.4
       0.8s   689.80nm          6.2mb
TKSJ   23.90  18 eP    58 41.10   1.2
SHK    24.04  15 eP    58 41.60   0.4
WKYJ   24.62  21 P     58 47.60   0.6
YONJ   24.86  16 P     58 50.40   1.2
NST    24.93 283 iPc   58 50.80   0.8
IPM    25.04 256 ePc   58 53.00   2.0
NNT    25.13 275 eP    58 52.70   0.8
LEM    25.26 225 ePc   58 57.20   3.9X
       1.0s   100.00nm          5.3mb
                 eS    03 30.00
                 eLR   05 51.00
KMI    25.46 306 Pc    58 56.00   0.7
       1.5s   330.00nm          5.6mb
     Z 26s      8.60um          5.2MszX
     N 15s      2.70um
     E 15s      2.60um
                 pP    59 11.00  63kmX
TIA    25.88 345 Pc    58 59.00   0.3
       1.0s   200.00nm          5.6mb
     Z 25s      1.94um          4.5MszX
     N 13s      0.70um
                 sP    59 20.50
                 S     03 25.00
TSRJ   25.95  20 P     58 59.40   0.1
KHT    26.33 280 iPc   59 03.70   0.7
CHTO   26.58 289 iPc   59 05.50   0.1
       1.0s   150.00nm          5.5mb
                 eS    03 31.80
IIDJ   26.59  23 P     59 05.50   0.1
XAN    27.16 329 iPc   59 10.00  -0.6
       1.0s   240.00nm          5.8mb
     Z 28s      3.36um          4.8MszX
     N 15s      1.63um
     E 15s      1.22um
                 pP    59 26.00  68kmX
                 sP    59 33.00
                 PP    59 58.00
                 S     03 44.00
                 SS    04 58.00
                 ScP   06 03.00
CHJJ   27.52  24 P     59 12.80  -0.9
MTMJ   27.53  22 P     59 15.40   1.5
MAJO   27.64  23 eP    59 13.33  -1.5
       1.0s    28.82nm          4.9mb
MAT    27.64  23 eP    59 13.00  -1.9
       1.2s    25.00nm          4.7mb X
     Z 20s      3.55um          4.9Msz
                 eS    03 45.00
DL2    27.67 354 iPc   59 15.00   0.0
       1.5s   770.00nm          6.1mb
     Z 20s      1.26um          4.5Msz
     N 10s      0.34um
     E 15s      1.28um
                 pP    59 32.00  73kmX
                 S     03 43.00
                 sS    04 12.00
CD2    27.96 317 iPc   59 17.70  -0.1
       1.0s   350.00nm          5.9mb
     Z 22s      6.73um          5.2Msz
     E 12s      3.25um
                 sP    59 36.00
                 PP    00 15.00
                 eS    03 55.00
TIY    28.73 338 iPc   59 25.00   0.2
       1.0s   120.00nm          5.5mb
     Z 24s      2.70um          4.8MszX
     N 13s      0.88um
                 S     04 10.00
BJI    29.74 346 eP    59 33.50  -0.2
       1.2s   210.00nm          5.7mb
     Z 21s      1.52um          4.6Msz
     E 15s      1.58um
                 esP   59 53.00
                 eS    04 24.00
                 esS   04 48.00
                 eSS   06 06.00
SNY    30.42 357 iPc   59 40.00   0.3
       1.2s   650.00nm          6.2mb
     Z 25s      2.63um          4.8MszX
     E 12s      0.81um
                 S     04 36.00
                 sS    04 54.00
OFUJ   31.21  25 eP    59 47.20   0.6
LZH    31.42 325 iPc   59 49.20   0.4
       1.6s   450.00nm          6.0mb
```

24d 05h

```
     Z  26s     5.83um          5.1MszX
     N  14s     1.53um
                 PP    00 49.00
                 ScP   06 18.50
                 ScS   10 15.00
HHC    31.83 340 Pc    59 52.80   0.6
       1.2s   270.00nm         5.9mb
     Z  35s     2.90um          4.7MszX
     N  14s     0.63um
     E  13s     0.74um
                 sP    00 11.00
                 PP    01 01.00
BTO    32.16 338 iPd   59 55.00  -0.1
       1.0s    82.00nm         5.5mb
     N  15s     0.76um
     E  14s     0.76um
                 pP    00 10.00  61kmX
                 S     05 04.00
                 SS    07 03.00
WRA    32.30 164 P     59 54.79  -1.6
WR2    32.31 164 iPd   59 54.40  -2.0
       0.8s    54.90nm         5.4mb
                 ipP   00 06.30  45km
                 iPcP  02 43.60
                 eS    05 04.40
                 iScP  06 18.00
                 eScS  10 16.80
CN2    32.36   0 iPc   59 56.50  -0.1
       1.0s    35.00nm         5.1mb
     Z  22s     1.03um          4.5Msz
     N  14s     0.69um
     E  14s     0.89um
                 epP   00 10.00  53km
                 PcP   02 42.70
                 eS    05 05.00
                 ScP   06 21.00
MDJ    33.37   5 eP    00 05.10  -0.3
       1.5s   330.00nm         6.0mb
     Z  28s     3.04um          4.9MszX
                 sP    00 24.60
                 PcP   02 45.70
                 S     05 20.00
QIS    34.63 156 iPc   00 15.30  -1.2
                 iPcP  02 50.30
ASPA   35.76 167 eP    00 24.10  -2.0
     Z  22s     2.20um          4.9Msz
                 ipP   00 38.10  54km
                 iPcP  02 52.50
                 eS    05 53.20
                 iScP  06 32.10
                 iScS  10 35.20
GTA    36.03 325 iPc   00 29.50   1.1
       2.5s   620.00nm         6.1mb
     Z  22s     7.03um          5.4Msz
     N  16s     1.25um
                 PcP   02 54.00
                 S     06 03.00
                 sS    06 26.00
                 ScP   06 34.00
                 PcS   06 39.50
                 ScS   10 37.50
LSA    36.72 305 P     00 36.00   1.3
       1.2s   170.00nm         5.8mb
     Z  30s     3.29um          4.9MszX
     N  17s     1.60um
     E  16s     1.20um
                 pP    00 53.00  68kmX
                 PP    01 59.00
WARB   37.30 178 eP    00 40.00   0.9
       0.4s    32.00nm         5.6mb
CTA    37.36 147 P     00 40.59   0.9
CTAO   37.36 147 eP    00 39.88   0.2
       0.8s    28.84nm         5.3mb
                 epP   00 52.20  45km
YSS    38.47  19 eP    00 44.00  -4.6X
HNR    40.07 120 eP    01 15.00  12.7X
GUN    40.50 300 P     01 07.00   0.9
PKI    40.81 299 P     01 08.80   0.1
KKN    40.97 299 P     01 10.20   0.3
DMN    41.08 299 P     01 11.10   0.3
MRWA   41.32 192 iPc   01 11.90  -0.4
       0.6s    27.00nm         5.2mb
GKN    41.58 300 P     01 15.00   0.2
CIT    41.68 349 eP    01 17.00   1.9
FORT   41.94 177 eP    01 18.00   0.6
                 e     03 12.80
COOL   42.16 185 eP    01 19.00  -0.3
BAL    42.52 191 iPd   01 21.80  -0.4
       1.0s    73.00nm         5.4mb
ZAK    42.98 339 iPc   01 26.00   0.3
       1.1s   149.00nm         5.6mb
     Z  14s     0.78um          4.8MszX
     N  14s     0.48um
     E  13s     0.67um
                 eS    07 52.00
KLB    43.30 190 eP    01 28.80   0.3
       0.3s     5.00nm         4.7mb X
MUN    43.95 191 eP    01 33.00  -0.8
       0.3s   113.00nm         6.1mb
IRK    44.25 342 iP+   01 36.00  -0.1
       1.4s   190.00nm         5.7mb
     Z  18s     0.88um          4.7Msz
     N  16s     0.55um
     E  16s     0.72um
                 e     01 50.30
                 e     01 54.00
                 e     03 17.00
                 e     08 25.00
NWAO   44.69 190 eP    01 39.50  -0.2
       0.8s    29.00nm         5.1mb
STK    45.68 161 iPc   01 47.70   0.1
       0.6s    80.70nm         5.8mb
                 ipP   02 00.20  46km
                 iPcP  03 24.70
                 ePP   03 46.20
                 eScP  07 11.90
                 iS    08 24.40
WMQ    45.87 322 P     01 50.00   0.9
       2.0s   150.00nm         5.6mb
     Z  20s     3.48um          5.3Msz
     E  15s     1.69um
                 PcP   03 25.30
                 PP    03 40.00
                 ScP   07 12.00
                 PcS   07 19.20
                 S     08 28.50
                 ScS   11 36.00
RKG    46.33 190 iPd   01 53.50   0.8
       0.6s    19.00nm         5.2mb
GBA    46.83 278 Pc    01 57.20   0.3
       0.6s     9.00nm         4.9mb
KOD    47.06 273 iP    01 59.80   0.6
UER    47.51 334 iPc   02 02.80   1.0
       1.2s   500.00nm         6.4mb
                 e     03 32.00
                 e     04 00.00
ADE    47.74 165 eP    02 05.00   1.1
NDI    48.10 298 iP    02 05.50  -1.3
ARMA   48.57 149 eP    02 11.20   0.7
       1.1s    52.00nm         5.5mb
                 iScP  07 26.10
PET    49.38  26 ePc   02 17.00   0.7
       1.5s   210.00nm         5.9mb
                 e     02 35.00
                 eS    09 18.00
                 eSS   12 52.00
                 eSSS  14 20.00
YAK    50.70   3 iPc+  02 26.00  -0.2
       1.3s   688.00nm         6.5mb
     Z  20s     0.90um          4.8Msz
     N  20s     0.80um
     E  21s     0.60um
                 i     03 42.00
                 e     04 22.00
                 iS    09 37.00
                 i     12 07.00
RIV    51.16 152 iPd   02 32.00   2.0
       1.0s  4680.00nm         7.5mb X
                 ipP   02 44.00  43km
BKM    51.19 124 iP    02 33.50   2.9X
CNB    51.64 155 iPc   02 34.30   0.5
       1.0s   263.00nm         6.2mb
KSH    51.87 312 Pc    02 37.20   1.6
       1.8s   200.00nm         5.8mb
     Z  20s     3.73um          5.4Msz
     N  18s     3.84um
     E  18s     1.81um
                 pP    02 54.00  65kmX
                 sP    03 00.00
                 PP    04 31.00
TOO    52.17 160 iPc   02 38.20   0.5
       0.4s    86.00nm         6.1mb
DZM    52.18 130 iPc   02 38.10   0.0
FRU    53.96 315 iPc   02 51.00   0.1
       2.8s   350.00nm         5.9mb
     Z  20s     2.50um          5.3Msz
     N  24s     3.00um
     E  24s     4.30um
                 e     03 04.00
SMY    56.74  33 P     03 20.00   9.2X
     Z  19s     1.53um          5.1Msz
QUE    57.18 299 eP    03 13.50  -1.1
TIK    60.30   1 iPc+  03 34.00  -1.3
       1.5s   420.00nm         6.3mb
     Z  18s     0.80um          4.9Msz
                 i     03 48.00
                 i     05 47.00
                 iS    11 43.00
                 iPS   12 06.00
                 i     13 15.00
NRI    62.70 346 iPc+  03 50.00  -1.5
       1.4s   325.00nm         6.3mb
     Z  20s     5.60um          5.7Msz
     E  20s     3.80um
                 (pP)  04 04.00  50km
                 e     06 06.00
                 eS    12 13.00
                 ePS   12 36.00
MAIO   63.99 305 iPc   04 00.40  -0.3
       1.2s   111.11nm         5.8mb
ASH    65.05 307 iPd   04 08.00   0.6
       1.2s   840.00nm         6.7mb
SVE    66.86 327 iPc   04 18.00  -0.6
       2.0s   480.00nm         6.2mb
     Z  19s     2.00um          5.4Msz
     N  19s     0.80um
     E  19s     1.00um
                 eS    13 28.00
ILT    67.13  20 iPc   04 19.40  -0.7
       1.2s   211.00nm         6.1mb
                 i     04 34.50
                 i     04 39.00
                 iS    13 10.00
                 e     14 12.00
QRZ    67.71 143 eP    04 22.90  -1.4
ARU    67.85 327 iPc   04 24.00  -0.9
       2.2s   500.00nm         6.2mb
                 e     04 38.00
                 e     04 48.50
WVZ    68.14 146 eP    04 26.60  -0.2
THZ    68.52 144 eP    04 28.70  -0.7
BWZ    68.65 147 P     04 29.90  -0.1
URZ    69.02 139 eP    04 33.80   1.4
KHZ    69.30 144 eP    04 33.10  -0.9
MNG    69.36 141 eP    04 33.90  -0.6
SDN    71.72  35 ePd   04 48.04  -0.5
       1.1s   106.03nm         5.7mb
HON    73.60  71 P     05 10.00   9.9X
     Z  20s     1.09um          5.1Msz
TAB    74.54 306 iPc+  05 06.00   0.4
TTA    74.80  28 ePc   05 06.40  -0.1
       1.1s    29.37nm         5.1mb
                 epP   05 20.53  49km
SVW    74.83  30 ePc   05 07.37   0.7
       1.1s   106.15nm         5.7mb
GRO    74.86 312 iPc+  05 07.00  -0.1
       1.0s   600.00nm         6.5mb
     Z  20s     1.00um          5.1Msz
     N  20s     3.00um
     E  20s     2.50um
                 i     05 27.00
MTA    75.56 310 iPc+  05 11.00  -0.1
       0.8s   380.00nm         6.4mb
                 e     15 34.00
ERE    75.86 309 iPc   05 13.00   0.0
       0.8s    30.00nm         5.3mb
                 e     15 10.00
IMA    76.04  25 ePc   05 14.10   0.5
       1.1s    48.70nm         5.4mb
                 epP   05 28.17  49km
KDC    76.30  33 ePc   05 15.02   0.1
       1.2s    63.41nm         5.5mb
CP2    76.48  30 ePc   05 16.08  -0.1
CRP    76.52  30 eP    05 15.54  -0.8
PYA    76.73 313 iPc   05 17.00  -0.7
     Z  18s     1.00um          5.2Msz
                 i     05 30.00
                 eS    15 21.00
SLKM   77.46  30 ePc   05 19.96  -1.5
                 epP   05 34.84  52km
PMR    77.97  29 ePc   05 23.16  -1.0
```

```
        1.1s    89.09nm          5.7mb
    Z  20s      0.42um          4.8Msz
                 epP   05 37.41  50km
CSY   78.18 186 eP    05 33.70   8.6X
        0.7s    80.80nm          5.8mb
                 i     05 48.50
FBA   78.48  26 ePc   05 25.97  -0.9
        1.1s    19.54nm          5.0mb
                 epP   05 39.76  48km
DRV   78.52 174 iP    05 26.00  -0.9
                 S     15 35.00
                 SS    20 42.00
SOC   79.18 312 iPc+  05 30.00  -1.1
        2.0s   100.00nm          5.4mb
                 e     05 48.00
TOA   79.35  29 eP    05 32.70   0.9
MOS   79.48 325 iPc   05 32.00  -0.5
        1.6s   430.00nm          6.1mb
                 e     08 33.00
                 e     10 30.00
KLU   79.51  29 ePc   05 32.73   0.0
OBN   80.12 324 iPc+  05 35.30  -0.6
        1.2s   317.00nm          6.1mb
    Z  21s      1.20um          5.2Msz
    E  22s      1.50um
                 ipP   05 49.00  47km
                 isP   05 54.00
                 i     08 40.00
                 (PS)  16 20.00
ANN   80.77 314 iPc+  05 39.00  -0.6
        1.0s   120.00nm          5.8mb
    Z  19s      0.60um          5.0Msz
    E  19s      1.00um
                 e     05 53.00
BALM  81.28  29 ePc   05 42.06   0.0
PUL   82.86 329 ePc   05 50.00  -0.1
        1.2s   270.00nm          6.2mb
                 e     06 10.00
SIM   83.00 314 iP+   05 51.00  -0.2
    Z  28s      1.40um          5.2MszX
SDF   83.07 337 iP    05 50.10  -1.0
INK   83.62  22 ePc   05 54.50   0.6
        1.0s    14.00nm          5.0mb
KAS   83.83 311 iPc   05 55.80   0.2
KAF   84.30 332 iP    05 57.10  -0.3
        0.8s   127.40nm          6.0mb
FAM   84.73 304 eP    06 01.00   0.8
MBC   84.87  13 ePc   06 01.50   1.4
        0.9s    19.00nm          5.2mb
CSS   85.28 305 eP    06 03.00   0.0
NUR   85.46 331 iP    06 03.10  -0.2
        0.5s    51.70nm          6.0mb
MNK   85.51 324 eP    06 01.00  -2.6X
        1.0s   607.00nm          6.7mb
SIT   85.58  33 P     06 10.00   6.1X
    Z  19s      0.61um          5.0Msz
PPCY  86.09 305 eP    06 06.70  -0.2
KIS   86.22 317 iP    06 07.00  -0.3
    Z  22s      2.00um          5.5Msz
                 i     06 21.00
                 i     06 32.00
                 ePS   18 05.00
CFR   87.10 315 eP    06 10.00  -1.6
ITU   87.40 311 iPc   06 22.00   8.8X
VRI   87.92 316 ePc   06 16.00   0.4
AFR   88.51 108 eP    06 22.90   4.0X
        1.2s   163.00nm          6.2mb
MLR   88.54 316 eP    06 18.00  -0.8
PPT   88.71 108 eP    06 23.80   4.0X
        1.4s   235.30nm          6.3mb
PAE   88.72 108 eP    06 23.80   3.9X
        1.6s   385.60nm          6.5mb
PPN   88.83 108 eP    06 24.30   3.9X
        1.4s   181.20nm          6.2mb
JMB   88.85 313 iP    06 27.00   6.9X
CIN   88.89 308 eP    06 20.00  -0.4
UPP   89.00 331 iP    06 19.20  -1.2
TVO   89.06 108 eP    06 25.60   4.1X
        1.4s   524.50nm          6.7mb
PVL   89.55 314 iPc   06 23.00  -0.4
DAG   89.61 352 iPd   06 22.20  -0.9
        1.0s    54.00nm          5.8mb
PMO   89.76 105 eP    06 26.40   1.6
        1.6s   302.20nm          6.4mb
VAH   90.06 105 eP    06 27.00   0.9
        1.6s   318.40nm          6.4mb
UZH   90.08 320 iPc+  06 27.70   2.0
        1.0s   255.00nm          6.5mb
                 i     06 45.00
                 i     06 49.40
                 e     10 02.00
RUV   90.28 105 eP    06 27.40   0.2
        1.4s   108.00nm          6.0mb
RZN   90.39 313 iPc   06 26.00  -1.6
PGB   90.55 314 iPc   06 27.00  -1.2
RES   90.61  10 eP    06 28.00   0.3
        1.0s    12.00nm          5.2mb
HFS   90.72 332 eP    06 27.20  -1.3
        0.4s     6.70nm          5.4mb
    Z  20s      0.66um          5.1Msz
                 LR    41 16.00
MMB   91.13 313 iP    06 29.00  -1.8
SPC   91.20 321 eP    06 31.70   0.5
VTS   91.22 314 iPc   06 30.00  -1.4
NB2   91.44 334 P     06 30.40  -1.4
        1.1s    32.90nm          5.7mb
KKB   91.52 313 iP    06 31.00  -1.6
NAO   91.70 334 P     06 29.79  -3.2X
PSZ   91.83 320 iPc   06 33.60  -0.3
SBA   91.99 172 iPc   06 36.00   2.1
VAY   92.04 313 iP    06 33.30  -1.6
        1.3s    80.00nm          6.0mb
                 i     06 47.60
SKO   92.66 314 iP    06 36.00  -1.8
SRO   92.87 320 iP    06 37.70  -0.9
                 i     09 37.80
                 i(PP) 10 22.10
KSP   93.01 323 iPc   06 39.10  -0.1
        1.3s    51.00nm          5.8mb
                 e     06 52.40
                 e     10 21.20
YKA   93.14  24 P     06 40.40   0.8
        1.1s    25.00nm          5.6mb
ZST   93.49 320 eP    06 40.90  -0.6
                 ePcP  09 49.40
                 epP   09 56.20
                 e     38 17.60
VKA   93.96 321 iPc   06 43.80   0.2
BRG   94.37 324 iPc   06 46.30   0.8
        1.5s    50.00nm          5.7mb
                 i     07 00.40
PRU   94.38 323 iPc   06 45.00  -0.5
        1.4s   113.00nm          6.1mb
                 e     06 59.30
CLL   94.74 324 iP    06 46.30  -0.8
        2.0s    98.00nm          5.9mb
                 i     07 05.30
                 i     10 34.80
                 i     16 40.70
KHC   95.30 322 Pc    06 49.90   0.1
        1.2s    27.50nm          5.6mb
    Z  20s      1.20um          5.4Msz
    N  20s      0.80um
    E  20s      0.10um
                 e     07 04.00
                 e     09 49.00
GEC2  95.34 322 e(P)  06 50.10   0.0
        1.0s    14.30nm          5.4mb
WET   95.71 322 eP    06 51.30  -0.4
        1.3s    48.00nm          5.8mb
HOF   95.81 324 iPd   06 52.40   0.3
        1.2s    26.00nm          5.6mb
MOX   95.81 324 ePc   06 51.50  -0.7
        1.6s    47.00nm          5.7mb
    Z  22s      0.80um          5.1Msz
LJU   95.93 319 eP    06 52.50  -0.3
                 epP   07 11.00  66kmX
                 esP   07 18.20
BHG   96.30 321 eP    06 54.00  -0.4
        1.2s    79.00nm          6.1mb
GRF   96.46 323 iPc   06 55.00  -0.1
        1.7s    63.00nm          5.9mb
    Z  21s      1.00um          5.3Msz
                 epP   07 09.90  51km
                 esP   07 14.60
FUR   97.09 322 iPc   06 57.60  -0.4
WTTA  97.25 321 iPc   06 58.10  -0.8
        0.9s    60.00nm          6.1mb
                 iPP   10 56.60
WATA  97.26 321 iPc   06 58.00  -0.9
                 i     07 17.50
                 i     10 57.40
MOTA  97.55 321 iPc   06 59.20  -1.0
        1.0s    34.90nm          5.8mb
                 i     07 16.20
                 iPP   10 59.20
OGA   97.80 321 eP    07 00.80  -0.6
        1.0s    37.00nm          5.9mb
TNS   97.81 325 ePc   07 01.00  -0.2
OSS   98.42 321 eP    07 04.00  -0.2
WDC   98.87  46 P     07 20.00  13.9X
    Z  21s      1.00um          5.3Msz
CDF   99.35 323 eP    07 07.70  -0.6
        1.4s    48.35nm          5.8mb
WLF   99.38 325 iPc   07 08.29   0.1
        1.2s    20.00nm          5.5mb
                 i     07 17.24
TMA   99.47 321 eP    07 07.60  -1.4
BSF   99.91 323 eP    07 10.00  -0.9
        1.3s    22.40nm          5.5mb
SNF   99.98 326 P     07 13.10   2.1
DOU  100.03 326 Pdiffd07 11.10   0.0
        0.7s    18.90nm          5.7mb
MMK  100.06 321 iPdiff07 11.50  -0.2
BUL  100.12 251 iPdiff07 11.70  -0.7
        1.0s    24.00nm          5.7mb
DIX  100.38 321 ePdiff07 13.00  -0.2
LPG  101.07 321 ePdiff07 16.00  -0.3
        0.9s    19.65nm          5.7mb
LPL  101.07 321 ePdiff07 15.80  -0.4
        0.9s    23.10nm          5.8mb
SAO  101.15  49 Pdiff 07 30.00  13.5X
    Z  20s      0.82um          5.2Msz
SLR  101.18 246 iPdiff07 15.10  -1.9
        0.9s    21.01nm          5.8mb
    Z  20s      3.19um          5.8Msz
CMB  101.42  47 Pdiff 07 30.00  12.3X
    Z  20s      0.67um          5.2Msz
LOR  101.92 324 ePdiff07 19.00  -0.7
        1.4s    30.50nm          5.7mb
    Z  22s      0.55um          5.0Msz
LBF  101.99 323 ePdiff07 19.30  -0.7
        1.5s    30.80nm          5.7mb
BGF  102.88 323 ePdiff07 23.40  -0.5
TCF  103.40 323 ePdiff07 24.80  -1.5
        1.8s    29.35nm          5.8mb
ISA  103.80  49 Pdiff 07 40.00  11.6X
    Z  19s      1.03um          5.4Msz
FRS  104.21 242 e(Pdif07 40.70  10.5X
DUG  105.68  43 PKP   12 00.00  10.2X
    Z  21s      0.71um          5.2Msz
SRU  107.76  43 ePKP  11 54.28   0.5
SUR  108.24 240 iPdiff07 31.50 -16.9X
        0.9s    25.21nm
RSSD 108.91  35 ePKP  11 55.06  -0.8
PV10 109.13  43 ePKP  11 57.10   0.6
GOL  110.76  40 PKP   12 10.00  10.4X
    Z  21s      0.82um          5.3Msz
TUC  111.01  49 PKP   12 10.00  10.0X
    Z  20s      0.53um          5.1Msz
ALQ  112.73  44 PKP   12 10.00   6.6X
    Z  20s      0.60um          5.2Msz
LTX  117.78  48 ePKP  12 12.83  -0.3
WMOK 117.94  41 PKP   12 20.00   6.9X
    Z  20s      0.74um          5.3Msz
TUL  119.03  38 iPKPc 12 15.30   0.2
GAC  120.20  17 ePKP  12 16.00  -1.0
CBM  120.76  11 PKP   12 30.00  12.0X
    Z  21s      0.79um          5.3Msz
UYO  121.01  38 iPKPc 12 18.60  -0.3
MIAR 121.28  37 PKP   12 30.00  10.6X
    Z  20s      0.63um          5.3Msz
YSNY 122.14  21 PKP   12 30.00   9.1X
    Z  19s      0.81um          5.4Msz
LMN  122.35   8 ePKP  12 21.00  -0.1
LBNH 122.50  15 PKP   12 30.00   8.5X
    Z  21s      0.58um          5.2Msz
BINY 123.23  19 ePKP  12 22.51  -0.5
    Z  20s      0.79um          5.4Msz
PWLA 124.09  33 ePKP  12 23.77  -1.1
HRV  124.22  15 PKP   12 30.00   5.1X
    Z  19s      0.52um          5.2Msz
LSCT 124.54  17 PKP   12 40.00  14.5X
    Z  18s      0.37um          5.1Msz
MYNC 126.04  30 ePKP  12 28.45  -0.3
    Z  19s      0.42um          5.1Msz
LKO  127.04 291 PKP   12 28.77  -2.4
        1.1s    45.00nm
KIC  127.37 287 PKP   12 31.24  -0.5
        1.0s    68.50nm
TIC  127.53 287 PKP   12 31.44  -0.7
```

24d 06h

```
        0.8s    25.50nm
LIC   127.68 287 PKP   12 31.72  -0.7
        0.8s    36.00nm
KDS   131.68 298 ePKP  12 38.50  -1.4
RFA   153.47 154 ePKPc 13 17.20   0.4
PEL   153.75 148 iPKPd 13 18.00   0.7
        1.0s   110.00nm
TOV   154.15  36 ePKP  13 19.50   1.2
RTCB  156.03 149 iPKPc 13 21.00   0.5
CFA   156.21 150 e(PKP)13 21.10   0.5
RTLL  156.32 149 iPKPc 13 21.00   0.2
MRA   156.66 156 ePKPd 13 21.60   0.5
TCA   158.05 157 iPKPd 13 23.50   0.5
NNA   158.21  94 ePKP  13 24.30   0.8
        0.9s    12.60nm
FSA   161.79 145 ePKPd 13 29.50   2.6
ARE   162.83 109 ePKP  13 31.00   2.4X
SLA   163.14 144 ePKP  13 30.00   1.5
YJA   165.00 137 ePKPc 13 33.00   2.3
MOCB  165.53 134 PKP   13 32.70   1.5
LPB   165.92 113 iPKPc 13 33.50   2.0
CNCB  165.93 114 iPKPc 13 33.70   2.0
LPAZ  165.97 112 PKP   13 35.50   3.7X
CCH   167.31 120 PKP   13 34.80   2.3
PPD   168.90 196 ePKP  13 33.40   0.4
BDFB  172.29 235 ePKP  13 34.64  -0.3
     S.D. = 1.0  on 236 of 284 obs.
-------------------------------------
%  OCT  24, 1993  06h 58m 28.91± 0.62s
   39.985 N ± 5.1km   23.207 E ± 4.8km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                        (365)
      ML 2.1 (THE).

PAIG    0.37  99 ePg   58 36.62   0.1
                 eSg   58 42.18
LIT     0.56 282 ePg   58 40.30   0.0
                 eSg   58 48.82
THE     0.67 344 ePg   58 41.85  -0.4
                 eSg   58 51.18
OUR     0.69  59 ePg   58 42.18  -0.3
                 eSg   58 52.54
SOH     0.84   8 ePg   58 44.66  -0.6
                 eSg   58 56.78
GRG     1.15 328 ePg   58 50.50   0.1
                 eSg   59 06.42
SRS     1.17  14 ePg   58 51.46   0.7
                 eSg   59 06.94
AGG     1.18 215 ePb   58 50.90   0.0
                 eSb   59 08.14
KNT     1.20 349 ePb   58 51.62   0.4
                 eSb   59 08.22
     S.D. = 0.5  on   9 of   9 obs.
-------------------------------------
?  OCT  24, 1993  07h 08m 15.19± 1.85s
   26.847 S ±12.7km   26.627 E ±14.9km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA          (584)
      ML 3.0 (PRE).

BFS     0.15 110 eP    08 18.50   0.1
                 S     08 19.30
SEK     1.72 149 eP    08 45.70  -0.3
                 S     09 05.70
SLR     1.85  54 iPc   08 48.00   0.0
                 S     09 11.00
BLF     2.29 190 eP    08 54.50   0.2
BFT     3.28  70 eP    09 26.50  18.0X
                 S     09 54.00
     S.D. = 0.4  on   4 of   5 obs.
-------------------------------------
   OCT  24, 1993  07h 15m 14.63± 1.21s
   57.517 N ±10.1km  143.062 W ± 4.8km
   DEPTH =  10.0km  (geophysicist)
 GULF OF ALASKA                    ( 15)
      ML 3.0 (AEIC).

MID     2.58 319 P     15 57.50   0.5
CHX     2.75  21 eP    16 00.08   0.5
PNL     2.89  40 eP    16 00.82  -0.7
HMT     2.90 348 eP    16 01.96   0.3
                 eS    16 35.92
YAH     2.94  13 eP    16 02.80   0.4
                 eS    16 35.46
WAX     2.94   2 eP    16 02.47   0.1
                 eS    16 35.74
PCA     2.97  28 eP    16 02.22  -0.5
RAGM    3.00 344 eP    16 02.95  -0.1
                 eS    16 38.17
SGAM    3.19 341 eP    16 06.62   0.8
                 eS    16 43.81
CRQM    3.25 359 eP    16 06.85   0.0
TGL     3.25   2 eP    16 06.89   0.1
CVA     3.34 337 eP    16 07.75  -0.2
                 eS    16 46.73
HIN     3.39 330 eP    16 08.94   0.2
                 eS    16 48.72
MTU     3.44 318 eP    16 09.36   0.0
                 eS    16 49.62
BALM    3.55   6 eP    16 10.99   0.0
                 eS    16 50.14
LTI     3.55 317 eP    16 10.69  -0.2
                 eS    16 52.12
CTGM    3.57  14 eP    16 11.34   0.0
FID     3.69 333 eP    16 13.01   0.1
                 eS    16 55.33
KNIM    3.73 322 eP    16 13.13  -0.4
                 eS    16 55.18
GLB     3.96 355 eP    16 17.88   1.2
SEW     4.21 311 eP    16 19.74  -0.5
KLU     4.25 341 eP    16 20.37  -0.5
CFI     4.39 329 eP    16 22.54  -0.3
MPA     4.41 315 eP    16 23.04  -0.1
CNPM    4.73 299 eP    16 27.58  -0.2
SLKM    4.76 312 eP    16 27.86  -0.3
KNK     4.78 327 eP    16 26.84  -1.5
SCM     4.84 335 eP    16 28.49  -0.8
HOM     4.98 299 eP    16 30.52  -0.6
SML     5.07 330 eP    16 33.92   1.5
SYI     5.07 286 eP    16 32.85   0.4
SUA     5.56 319 eP    16 38.62  -0.9
OPT     5.73 296 eP    16 42.30   0.4
ILIM    5.75 301 eP    16 42.08   0.0
CDD     5.77 289 eP    16 42.99   0.7
INE     5.79 300 eP    16 43.01   0.3
RED     5.80 304 eP    16 42.58  -0.3
REF     5.80 305 eP    16 43.43   0.5
RS2     5.82 305 eP    16 43.39   0.2
DFR     5.84 306 eP    16 42.99  -0.4
RDW     5.85 305 eP    16 44.22   0.6
SPU     5.89 312 eP    16 43.81  -0.2
CP2     6.01 313 eP    16 46.18   0.3
CKL     6.01 312 eP    16 45.41  -0.3
SKT     6.19 320 eP    16 48.06  -0.2
     S.D. = 0.6  on  45 of  45 obs.
-------------------------------------
?  OCT  24, 1993  07h 26m 48.87± 1.09s
    5.976 S ± 9.1km  146.188 E ±11.1km
   DEPTH =  10.0km  (geophysicist)
 EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY    0.34 220 iPd   26 55.60  -0.4
                 eS    27 01.00
MDG     0.83 331 ePc   27 04.90   0.0
LAT     1.06 130 eP    27 08.20  -0.6
WWKK    3.46 312 eP    27 48.50   4.5X
PMG     3.54 164 eP    27 46.00   1.0
     S.D. = 1.2  on   4 of   5 obs.
-------------------------------------
   OCT  24, 1993  07h 35m 01.54± 0.37s
    6.069 S ± 5.2km  146.066 E ± 7.6km
   DEPTH =  10.0km  (geophysicist)
   4.9mb ( 11 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

MDG     0.86 341 eP    35 17.90  -0.2
LAT     1.10 123 ePc   35 23.00   0.8
MNDI    2.40 268 eP    35 45.50   3.8X
WWKK    3.44 315 eP    36 04.90   8.6X
PMG     3.49 162 eP    35 57.00   0.1
KVG     5.86  54 eP    36 34.50   3.9X
JAY     6.41 303 ePc   36 39.90   1.5
                 eS    58 32.00
QIS    15.71 203 eP    38 46.00   1.4
WR2    17.88 218 iPd   39 12.20   0.1
        1.3s    24.50nm          4.2mb
                 i     39 21.00
                 eS    43 27.00
ASPA   21.05 213 eP    39 47.40  -0.9
        1.0s    33.30nm          4.7mb
      Z  23s     0.40um          3.7MszX
                 eS    43 40.50
ARMA   24.78 168 eP    40 26.20   1.1
STK    26.02 189 eP    40 34.20  -2.4
        1.2s     2.20nm          3.7mb X
WARB   27.27 221 eP    40 47.00  -1.2
        0.7s     6.00nm          4.4mb
SSE    43.95 329 eP    43 10.50   0.0
        1.0s    21.00nm          4.9mb
NST    50.35 296 eP    44 01.00  -0.1
CHTO   52.61 299 eP    44 19.00   0.8
XAN    53.15 321 P     44 21.00  -1.0
        1.0s    18.00nm          5.0mb
TIY    53.65 327 eP    44 19.80  -5.8X
CD2    54.66 315 Pc    44 33.00  -0.2
LZH    57.66 320 eP    44 54.50  -0.3
        1.2s    25.00nm          5.1mb
GTA    62.20 321 eP    45 26.00   0.1
        1.0s     6.00nm          4.7mb
                 pP    45 34.50  28kmX
                 sP    45 38.50
GUN    67.13 304 P     45 58.50   0.1
        0.8s    35.00nm          5.6mb
PKI    67.40 303 P     46 00.40   0.3
KKN    67.58 303 P     46 01.40   0.3
        0.9s    26.00nm          5.4mb
DMN    67.67 303 P     46 02.20   0.5
        0.9s    28.00nm          5.5mb
GKN    68.19 303 P     46 05.00   0.1
GBA    70.87 287 P     46 28.00   6.8X
NDI    74.63 302 eP    46 42.50  -0.7
SLKM   82.72  27 (P)   47 26.52  -0.2
FBA    85.61  23 eP    47 40.16  -1.0
        1.0s     3.61nm          4.5mb
CNCB  139.38 125 PKP   54 31.80  -0.8
LPB   139.43 124 ePKP  54 35.00   2.5X
LPAZ  139.52 124 PKP   54 29.80  -3.2X
PPD   147.29 149 (PKP) 54 47.00   1.6
KIC   150.98 272 PKP   54 57.89   6.6X
        0.9s    16.50nm
TIC   151.26 273 PKP   54 57.73   6.0X
        0.6s     4.50nm
LIC   151.26 272 PKP   54 58.09   6.4X
        0.7s    12.00nm
LKO   151.71 279 PKP   54 57.31   4.9X
        0.7s     6.00nm
     S.D. = 0.9  on  27 of  38 obs.
-------------------------------------
   OCT  24, 1993  07h 52m 15.63± 0.12s
   16.755 N ± 2.5km   98.717 W ± 2.4km
   DEPTH =  20.7km  (geophysicist)
   6.3mb (128 obs.)  6.7Msz ( 65 obs.)
 NEAR COAST OF GUERRERO, MEXICO  ( 58)
      Mw 6.7 (GS), 6.6 (HRV). Ms 6.5
      (BRK). Mo=1.4*10**19 Nm (PPT).
      Felt (VII) at Mexico City and
      (V) at Puebla. Depth from
      broadband displacement
      seismograms.
      FAULT PLANE SOLUTION: P-Waves
       NP1:Strike=123 Dip=75 Slip=  90
       NP2:        303     15        90
       Principal Axes:
        T               Plg=60  Azm= 33
        P                  30      213
      Comment: The focal mechanism is
        poorly controlled and
        corresponds to reverse
        faulting. The preferred fault
        plane is NP2.
      RADIATED ENERGY
       No. of sta:  16  Focal mech.  F
       Energy        1.1±0.2*10**14 Nm
      MOMENT TENSOR SOLUTION
      Dep  21          No. of sta: 13
      Moment Tensor;   Scale 10**19 Nm
        Mrr= 0.34       Mtt=-0.34
        Mff= 0.00       Mrt= 0.92
        Mrf=-0.72       Mtf=-0.10
       Principal axes:
        T  Val=  1.32  Plg=50  Azm= 45
        N       -0.21     10      303
        P       -1.10     38      206
      Best Double Couple:Mo=1.2*10**19
       NP1:Strike=245 Dip=11 Slip=  32
       NP2:       124     84       100
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 51S, **C  M.W.: 42S, 86C
      Centroid Location:
      Origin Time       07:52:22.6 0.1
```

```
      Lat 16.77N 0.01 Lon  98.61W 0.01
      Dep  21.8 0.4 Half-duration  5.0
      Moment Tensor;   Scale 10**18 Nm
        Mrr= 5.53 0.05  Mtt=-4.95 0.03
        Mff=-0.57 0.04  Mrt= 7.20 0.20
        Mrf=-4.60 0.15  Mtf= 1.47 0.03
       Principal Axes:
        T  Val= 10.33  Plg=60  Azm= 40
        N       -0.40      7      298
        P       -9.94     29      204
      Best Double Couple:Mo=1.0*10**19
       NP1:Strike=276 Dip=17 Slip=  67
       NP2:       120     74       97

ACX     1.10 276 iP     52 33.00  -2.8X
III     1.76 336 iP     52 47.13   1.6
OXX     1.94  80 iPd    52 51.38   3.4X
                iS      53 20.00
PPM     2.30   2 iPd    52 55.45   1.9
IIA     2.38   1 (P)    52 56.24   2.1
IISM    2.56  30 iP     52 59.25   2.5
CRX     2.79 341 (P)    53 02.70   2.4
LVVM    3.67  36 (P)    53 11.50  -1.0
MRX     3.76 322 iPd    53 15.47   1.7
CGX     5.38 304 (P)    53 38.20   1.3
SCX     5.83  89 (P)    53 46.99   3.9X
AGX     6.12 327 (P)    53 49.70   2.6X
TPX     6.48 106 (P)    53 55.36   3.0X
MZX     9.67 313 (P)    54 38.07   1.3
LTX    13.32 341 ePc    55 25.96  -0.2
BRU    17.61 115 iPd    56 26.56   4.5X
UYO    17.76  12 iPc    56 21.50  -1.7
DVD    17.89 116 iP     56 28.01   3.0X
WMOK   17.91 360 iPc    56 23.52  -1.6
       1.9s  3988.02nm          6.2mb
MEO    17.95   0 iPd    56 24.00  -1.7
FNO    18.46   3 iPc    56 30.70  -1.3
OCO    18.73   3 iPd    56 34.40  -0.8
TUC    18.96 327 eP     56 39.39   1.3
       1.8s  2442.34nm          6.1mb
TUL    19.26   7 iPd    56 59.80  18.1X
ALQ    19.39 341 ePc    56 42.77  -0.7
       1.2s   909.44nm          5.9mb
                e       00 16.52
                eS      00 24.50
ANMO   19.39 341 iPc    56 43.06  -0.5
OXF    19.55  24 iPc    56 42.63  -2.4
ACO    19.87 359 iPd    56 46.30  -2.2
ECO    19.92 109 iPd    56 50.02   0.8
UPA    20.22 110 iPd    56 50.65  -1.6
                eS      59 42.22
UPA    20.22 110 iPd    56 53.73   1.5
PWLA   20.50  26 eP     56 52.92  -2.1
PCJ    20.60  84 Pc     56 55.66  -0.6
STH    20.94  83 Pc     56 58.97  -0.7
HOJ    21.00  83 Pc     56 59.46  -0.8
GWJ    21.01  83 Pc     57 00.26  -0.3
LST    21.24  20 eP     57 00.89  -1.7
ELC    22.10  20 ePd    57 09.60  -1.6
CCM    22.21  16 ePc    57 20.42   8.1X
FVM    22.37  17 ePc    57 12.03  -1.9
       1.3s  2959.54nm          6.6mb
     Z  20s   233.83um          6.6Msz
MYNC   22.42  33 iPc    57 13.67  -0.8
       1.6s  4241.16nm          6.7mb
     Z  20s   100.43um          6.2Msz
                eS      01 27.71
SLM    23.03  17 P      57 30.00   9.6X
     Z  19s    82.46um          6.2Msz
TKL    23.06  32 eP     57 20.04  -0.7
PFO    23.16 320 iPc    57 23.33   1.4
PLM    23.25 319 ePc    57 24.12   1.3
PV10   23.37 339 ePc    57 23.47  -0.5
PV08   23.42 340 ePc    57 25.51   0.9
PV09   23.51 339 iPc    57 26.18   0.7
GOL    23.59 347 iPc    57 26.62   0.5
       1.3s  1288.98nm          6.3mb
     Z  21s   179.32um          6.5Msz
GLD    23.60 347 ePc    57 26.74   0.6
       1.6s  2062.72nm          6.4mb
     Z  19s   106.52um          6.3Msz
PEC    23.79 319 iPc    57 29.34   1.5
       1.3s  1484.79nm          6.4mb
SSK    24.33 319 eP     57 34.63   1.3
GSC    24.53 322 iPc    57 36.63   1.5
SRU    24.55 337 P      57 35.20  -0.2
ARUT   24.64 331 iPc    57 37.94   1.7
MSU    24.68 334 iPc    57 37.55   0.8
EMUT   25.27 338 iPc    57 42.80   0.4
TPNV   25.40 326 eP     57 44.54   1.1
       1.1s   654.31nm          6.2mb
     Z  20s    62.65um          6.1Msz
ABL    25.71 318 ePc    57 46.93   0.5
CEH    25.84  39 iPc    57 47.20  -0.2
DAU    25.96 338 ePc    57 49.25   0.4
DUG    26.37 335 iPc    57 53.34   0.9
       0.6s    31.61nm          5.1mb X
     Z  20s   188.66um          6.6Msz
BCH    26.47 318 ePc    57 53.68   0.3
TNP    26.75 326 ePc    57 56.07   0.0
       0.7s    28.95nm          5.0mb X
BMG    26.84 108 iPc    57 58.00   1.1
MTUM   26.97 323 ePc    57 58.56   0.5
PHAM   27.07 319 ePc    57 59.25   0.4
MRCM   27.16 324 ePc    58 00.22   0.4
BONR   27.25 325 ePc    58 01.11   0.4
FRI    27.40 321 iP     58 01.27  -0.4
MEMM   27.41 323 ePc    58 02.82   1.1
MMPM   27.42 323 ePc    58 02.89   0.6
PRI    27.43 319 iP     58 02.72   0.5
RSSD   27.65 352 ePc    58 03.94  -0.2
       1.7s  1126.43nm          6.3mb
HVU    27.71 337 ePc    58 04.74   0.0
PRS    28.00 319 iP     58 07.31   0.1
SAO    28.31 319 ePc    58 09.32  -0.7
       1.1s   152.41nm          5.7mb
     Z  19s   158.11um          6.6Msz
CBN    28.42  37 iPc    58 11.00   0.1
SDV    28.45 102 iPc    58 12.80   1.2
CMB    28.49 322 iPc    58 11.55  -0.1
       1.4s   190.67nm          5.7mb
     Z  19s    88.13um          6.4Msz
ARN    28.74 320 ePc    58 14.05   0.2
COE    28.76 320 ePc    58 14.42   0.3
MHC    28.80 320 eP     58 14.19  -0.3
       3.1s  9640.00nm          7.0mb X
     Z  19s   127.00um          6.5Msz
                eS      03 09.19
                eLQ     05 23.19
                eLR     07 01.19
TOV    28.97 100 ePc    58 16.60   0.5
STAN   29.17 319 ePc    58 18.35   0.7
       1.6s  1890.00nm          6.6mb
     Z  18s   145.00um          6.6Msz
                eS      03 09.71
                eLQ     05 43.71
                eLR     07 21.71
HMR    29.41 321 eP     58 21.17   1.3
JEGM   29.42 319 (P)    58 21.10   1.2
BKS    29.50 320 ePc    58 21.04   0.3
       3.7s  8840.00nm          6.9mb X
     Z  18s   114.00um          6.5Msz
                eS      03 17.09
                eLQ     05 27.09
                eLR     08 02.09
DLA    29.85  26 P      58 22.00  -1.7
LTMT   29.90 341 iPc    58 25.02   0.5
                e       58 35.36
NTYM   30.09 320 eP     58 26.09   0.2
LDN    30.16  26 P      58 23.90  -2.6
ORV    30.16 323 ePc    58 26.83   0.3
ELF    30.23  26 P      58 24.80  -2.3
MCMT   30.41 340 iPc    58 29.70   0.7
BGMT   30.51 341 iPc    58 30.57   0.7
MEMT   30.54 343 eP     58 29.90  -0.2
MIN    30.75 324 eP     58 30.71  -1.2
       3.9s  7580.00nm          6.9mb X
     Z  18s   131.00um          6.6Msz
                ePP     59 44.71
                eS      03 36.71
TYNO   30.77  28 P      58 30.11  -1.7
LMEM   30.87 325 eP     58 32.93  -0.1
YSNY   30.90  30 iPc    58 31.96  -1.1
                isPd    58 40.82
SJG    31.08  83 iPc    58 33.92  -1.0
                esPd    58 43.19
ACTO   31.10  27 P      58 32.85  -1.9
SXM    31.10 343 iPc    58 35.30   0.3
LRM    31.17 341 iPc    58 35.81   0.1
                e       01 30.50
STCO   31.17  28 P      58 33.67  -1.7
HBMT   31.19 341 iPc    58 36.01   0.1
BUT    31.38 341 iPc    58 37.52   0.1
                e       58 47.84
WDC    31.44 324 iPc    58 35.88  -1.9
       1.0s    33.25nm          5.2mb X
     Z  20s   106.66um          6.5Msz
                isPd    58 44.90
CAR    31.48  97 iPd    58 36.00  -2.6X
LBFM   31.60 326 ePc    58 39.15  -0.3
OLLA   31.73  98 iP     58 40.30  -0.4
HRY    31.79 343 ePc    58 40.89  -0.1
LGPM   31.82 324 ePc    58 39.18  -2.1
BINY   31.97  33 iPc    58 41.92  -0.5
       1.3s   638.21nm          6.4mb
                e       58 51.97
GMTN   32.04  36 iP     58 43.00   0.0
WLVO   32.08  28 P      58 41.94  -1.4
FOX    32.23 322 iP     58 45.81   1.1
KMPM   32.24 322 ePc    58 45.47   0.5
YBH    32.31 325 ePc    58 41.52  -4.0X
       4.2s  3370.00nm          6.6mb X
     Z  18s    96.00um          6.5Msz
                ePP     00 01.52
                eS      03 55.52
                eLQ     06 15.52
                eLR     08 33.52
FHC    32.41 323 ePc    58 46.98   0.6
       1.8s  3034.03nm          6.9mb
EKR    32.43 323 iP     58 47.23   0.8
ARC    32.51 323 eP     58 47.79   0.7
       1.9s  2970.00nm          6.9mb
     Z  18s   167.00um          6.8Msz
                ePP     59 59.89
                eS      04 02.89
                eLQ     06 41.89
                eLR     09 12.89
ULM    33.49   3 ePc    58 56.30   0.8
VGB    34.10 332 ePc    59 00.35  -0.6
RSNY   34.39  31 ePc    59 02.58  -0.8
       1.3s  1333.83nm          6.7mb
                epP     59 12.60  35kmX
HRV    34.59  36 iPc    59 04.66  -0.5
       1.4s   848.02nm          6.5mb
     Z  20s    43.45um          6.2Msz
                epP     59 14.30  33kmX
                isPd    59 14.35
                ed      59 15.92
COR    34.62 328 ePc    59 05.51   0.2
GAC    34.78  29 ePc    59 05.00  -1.7
NEW    34.85 338 ePc    59 05.89  -1.5
       1.0s   149.91nm          5.9mb
     Z  19s   176.08um          6.8Msz
DPW    34.92 337 ePc    59 07.51  -0.5
SHW    35.28 331 ePc    59 11.21   0.0
LON    35.51 332 ePc    59 12.65  -0.4
NNA    35.82 141 eP     59 16.70   0.7
       1.2s   132.81nm          5.7mb
BMW    35.95 331 ePc    59 16.93   0.2
RMW    36.05 333 eP     59 17.29  -0.3
GRW    36.14  92 eP     59 18.70   0.0
SVB    36.32  90 eP     59 19.76  -0.4
SLB    36.42  89 eP     59 21.05  -0.1
GMW    36.55 332 ePc    59 20.93  -0.8
TRN    36.71  95 eP     59 21.70  -1.7
TBH    37.07  95 eP     59 25.59  -0.9
MCW    37.43 334 ePc    59 28.78  -0.4
CBM    39.30  33 iPc    59 44.75   0.0
       1.8s   549.76nm          6.0mb
     Z  21s    24.83um          6.0Msz
                isPd    59 54.02
                epP     59 54.24  32kmX
LMN    40.48  37 ePd    59 54.70   0.2
JAQ    41.08  21 ePc    59 58.60  -0.8
ARE    42.54 140 eP     00 10.00  -2.1
LPAZ   44.58 136 iPc    00 28.99  -0.1
       0.8s    58.30nm          5.5mb
                epPd    00 35.78  23kmX
                e       07 03.70
                e       13 25.40
                e       15 59.30
LPB    44.78 136 iPc    00 31.00   0.6
     Z  20s    55.32um          6.5Msz
                S       07 09.00
                LR      16 04.00
CNCB   45.06 136 iPc    00 33.40   0.6
CCH    46.70 135 P      00 45.30  -0.2
YKA    47.03 350 eP     00 46.30  -0.9
       1.1s   270.30nm          6.2mb
SIT    48.69 334 P      01 10.00   9.8X
     Z  20s    46.01um          6.5Msz
```

24d 08h

```
YJA     50.54 139 ePc   01 15.00  -0.4
FRB     51.32  17 eP    01 20.00  -0.2
        1.0s   108.00nm          5.7mb
SLA     52.44 141 eP    01 29.90   0.5
FSA     53.15 143 ePc   01 35.10   0.7
BALM    54.00 335 ePc   01 40.47   0.1
MHA     54.13 283 eP    01 41.48  -0.3
RTRS    54.51 149 e(P)  01 46.00   1.7
CYA     55.08 144 ePc   01 48.00  -0.6
KLU     55.69 335 ePc   01 52.40  -0.3
RTCB    55.91 149 iPc   01 54.00  -0.6
RTLL    55.94 149 iPc   01 54.50  -0.3
HON     55.95 285 P     02 10.00  15.0X
      Z  19s    27.11um          6.3Msz
ZON     56.02 149 eP    01 49.60  -5.7X
INK     56.05 345 ePc   01 54.00  -1.1
        1.0s   152.00nm          6.0mb
TOA     56.12 335 ePc   01 56.30   0.6
RTPR    56.13 146 eP    01 56.00  -0.1
CFA     56.28 149 ePd   01 57.80   0.6
RTCV    56.34 149 e(P)  02 00.00   2.3
PEL     56.38 152 iPd   01 56.50  -1.5
        1.2s   562.50nm          6.5mb
KDC     56.95 329 ePc   02 00.65  -1.0
        1.5s   154.78nm          5.8mb
MDZ     57.02 150 eP    02 07.20   4.6X
                  e     06 22.80
                  (S)   10 15.60
                  LR    19 42.00
SLKM    57.04 333 ePc   02 01.17  -1.2
PMR     57.07 334 ePc   02 01.04  -1.4
        1.5s   535.66nm          6.4mb
      Z  20s    70.50um          6.8Msz
RUV     57.57 239 iPd   02 13.20   6.7X
        2.2s  5141.90nm          7.2mb
TPT     57.65 240 iPd   02 12.90   5.7X
        2.2s  3456.70nm          7.0mb
VAH     57.80 239 iPd   02 13.90   5.8X
        2.2s  4182.40nm          7.1mb
PMO     57.89 240 iPd   02 14.60   5.8X
        2.0s  3340.00nm          7.0mb
TCA     57.97 146 iP    02 08.50  -0.7
RES     57.98   1 ePc   02 07.00  -1.6
        1.0s    62.00nm          5.6mb
AUP     58.02 330 ePd   02 08.55  -0.7
COL     58.21 338 iPc   02 09.42  -1.0
                  isPd  02 18.77
FBA     58.21 338 ePc   02 08.90  -1.5
        1.0s   138.74nm          6.0mb
MRA     58.21 147 e(P)c 02 10.00  -0.8
CRP     58.22 333 ePc   02 09.09  -1.7
CP2     58.26 333 ePc   02 09.79  -1.3
RFA     58.76 151 ePc   02 14.00  -0.7
GDH     59.45  17 iPd   02 19.00   0.0
        1.2s   275.00nm          6.3mb
                  i     05 59.00
                  i     10 30.00
BDFB    59.48 120 iPc   02 19.51  -0.5
        0.9s   165.24nm          6.2mb
                  ipPd  02 26.30  22kmX
BAO     59.50 120 iPd   02 19.60  -0.6
                  i     02 22.90
                  e     02 26.20
                  i     02 28.30
                  i     02 32.10
BDF     59.58 120 iPd   02 20.00  -0.8
        2.2s     9.10nm          4.5mb X
                  i     02 45.00
                  i     03 04.40
                  i     03 25.20
SVW     59.70 332 ePc   02 19.06  -1.8
        1.2s   536.85nm          6.6mb
AGVB    59.87 125 iPc   02 21.70  -0.8
                  eS    10 31.00
                  e     21 48.60
PPD     60.34 128 eP    02 24.00  -1.8
SDN     60.40 325 eP    02 23.44  -2.2
        1.0s   129.46nm          6.0mb
TVO     60.44 238 iPd   02 32.10   5.5X
        1.8s  2858.80nm          7.1mb
PPN     60.46 238 iPd   02 32.00   5.4X
        2.0s  2817.50nm          7.0mb
MBC     60.48 354 iPc   02 26.60   0.7
        1.2s  2678.00nm          7.2mb X
                  PcP   02 53.20
                  PP    04 42.60
                  PPP   06 19.60
                  ScP   07 04.30
                  PcS   07 10.20
                  S     10 36.80
                  SP    10 52.50
                  PPS   11 04.30
                  ScS   12 19.70
                  SS    14 34.20
                  SSS   17 05.10
                  PKKP  23 20.50
TTA     60.55 334 iPc   02 25.10  -1.7
                  e     03 04.90
PPT     60.60 238 P     02 27.00  -0.5
PAE     60.65 238 iPd   02 33.40   5.6X
        2.0s  3032.10nm          7.1mb
AFR     60.74 238 iPd   02 34.00   5.5X
        2.1s  2266.90nm          6.9mb
IMA     60.92 338 ePc   02 26.98  -2.3
        1.3s    46.75nm          5.5mb
SOB1    62.73 110 eP    02 41.80  -0.2
                  e     02 50.70
RSTA    63.56 129 eP    02 44.60  -2.7X
                  e     02 52.50
CACB    63.67 125 eP    02 46.00  -2.2X
                  e     04 07.70
                  eS    11 20.60
VAO     64.20 127 eP    02 50.60  -1.0
                  e(pP) 03 04.00  47kmX
                  e(PcP)03 30.00
                  e(PP) 05 13.00
BRW     64.23 342 eP    02 49.35  -1.6
LPA     64.34 143 eP+   02 52.00  -0.2
      Z  20s    32.62um          6.5Msz
                  eS    11 30.00
CDCB    64.51 123 eP    02 51.60  -2.1
                  iS    11 32.30
                  e     12 47.80
                  e     23 25.30
PDA     66.67  56 iPd   03 08.00   0.7
REY     69.31  27 iP    03 18.40  -4.8X
ADK     69.60 320 iPc   03 23.42  -1.8
        1.0s   153.13nm          6.1mb
                  ec    03 24.66
                  epPd  03 30.21  22kmX
RAR     70.76 240 ePd   03 39.46   6.7X
ILT     70.84 337 iPc   03 32.00  -0.5
        1.4s   369.00nm          6.3mb
      Z  16s    72.00um          7.0MszX
      N  16s    58.00um
      E  16s    81.00um
                  i     03 42.50
                  i     03 49.30
                  i     06 12.00
                  iS    12 48.00
                  i     13 32.00
AKU     71.00  26 iPd   03 33.50   0.0
        2.5s  1600.00nm          6.7mb
      Z  18s    53.61um          6.8Msz
DAG     71.50  14 iPd   03 35.30  -1.1
        0.9s   167.23nm          6.1mb
TBT     74.26  64 iPc   03 53.75   0.3
                  esPd  04 02.19
                  ed    04 03.93
SMY     75.16 321 eP    03 56.71  -1.4
        1.2s   159.24nm          5.9mb
      Z  20s    16.67um          6.3Msz
VAL     76.07  40 iP    04 03.40   0.1
        1.1s     4.60nm          4.4mb X
                  S     14 00.00
KBS     77.54  11 iP    04 12.50   1.4
DCN     77.59  38 Pc    04 11.70  -0.1
        1.2s   340.00nm          6.3mb
DLF     78.04  38 iPc   04 14.30   0.1
        1.2s   306.00nm          6.2mb
MBO     78.24  78 iPc   04 18.00   2.0
                  iS    14 16.50
AFI     78.31 252 ePc   04 21.84   5.4X
EAB     78.66  35 ePc   04 17.50  -0.1
STS     78.92  49 iPc   04 19.41   0.1
ELO     78.93  34 iPc   04 19.10   0.0
WIM     78.93  37 iPc   04 19.40   0.2
EZAM    78.97  49 iPc   04 19.62   0.0
EBH     79.10  34 ePc   04 20.00   0.0
YRC     79.20  38 eP    04 19.40  -1.2
YRH     79.26  38 ePc   04 21.00   0.0
EDU     79.29  34 iPc   04 21.20   0.2
WME     79.32  37 iPc   04 21.00  -0.2
EDI     79.35  35 iPc   04 21.40   0.1
EBL     79.46  35 ePc   04 21.70  -0.3
ESK     79.49  35 ePc   04 22.00  -0.1
        1.0s   160.00nm          6.0mb
EKA     79.51  35 Pc    04 22.10  -0.1
        1.1s   127.00nm          5.9mb
ESY     79.66  35 ePc   04 22.90  -0.2
HCG     79.96  38 ePc   04 24.10  -0.7
ERUA    80.04  49 iPc   04 25.66   0.2
HTR     80.25  39 ePc   04 25.70  -0.6
HGH     80.64  39 iPc   04 28.50   0.1
HAE     80.69  38 iPc   04 28.70   0.1
JHA     80.78  60 iPc   04 30.50   1.0
CIA     81.38  60 iP    04 30.50  -2.1
EPLA    81.38  51 iPc   04 32.95   0.4
EVAL    81.50  53 iPc   04 33.41   0.2
FOO     81.80  28 iPc   04 35.37   1.2
SFS     82.20  54 eP    04 40.00   3.2X
OUK     82.20  60 iPc   04 38.00   1.1
GIBL    82.30  54 iP    04 40.00   2.6X
CNIL    82.35  54 eP    04 40.00   2.4
BER     82.35  29 eP    04 38.00   0.9
LOF     82.55  20 iPc   04 38.65   0.6
MOL     82.55  27 iPc   04 38.83   0.7
EHOR    82.59  53 iPc   04 39.24   0.4
ALJ     82.61  54 iP    04 41.00   1.9
PLAT    82.64  55 iP    04 41.00   1.8
GUD     82.65  50 iPc   04 39.90   0.6
LIJA    82.70  54 iP    04 41.00   1.4
KMY     82.72  30 iPc   04 37.53  -1.5
LPF     82.73  42 iPc   04 39.90   0.6
        1.3s   420.25nm          6.4mb
GRR     82.75  42 iPc   04 40.20   0.8
        1.3s   420.25nm          6.4mb
EJIF    82.78  54 iPd   04 40.19   0.3
PAB     82.80  51 iPc   04 40.66   0.6
                  isPd  04 49.85
OJEN    82.82  55 eP    04 42.00   1.8
EPRU    82.83  54 iPc   04 40.45   0.3
FLN     82.88  41 iPc   04 40.90   0.8
        1.3s   400.00nm          6.4mb
      Z  21s    45.00um          6.8Msz
NKM     83.09  55 iP    04 43.00   1.5
                  i     04 53.50
TZC     83.10  59 iP    04 43.00   1.4
ODD1    83.12  29 iPc   04 42.92   1.7
LDF     83.15  41 iPc   04 42.20   0.7
        1.3s   284.50nm          6.3mb
KDS     83.17  79 iPc   04 22.30 -19.9X
ECRI    83.29  48 eP    04 43.19   0.7
TRO     83.53  18 iPc   04 43.33   0.3
EBAN    83.61  52 iPc   04 44.61   0.5
MFF     83.74  43 iPc   04 45.10   0.5
ELIZ    83.82  47 eP    04 45.17   0.1
IFR     83.84  57 iPd   04 47.00   1.4
MENF    83.95  39 P     04 46.23   0.7
TNF     83.95  58 iP    04 47.50   1.6
ECOG    84.02  53 iPd   04 47.33   1.0
CZD     84.04  57 iPd   04 48.00   1.7
ETOR    84.13  49 iPc   04 47.46   0.7
EGUA    84.15  53 eP    04 47.48   0.6
PET     84.16 324 iPc+  04 47.00   0.5
        1.8s   600.00nm          6.5mb
                  e     08 00.00
                  iS    15 14.00
                  ePS   16 20.00
EVIA    84.44  51 iPc   04 49.17   0.8
EHUE    84.61  52 iPc   04 50.19   0.9
KONO    84.61  29 iPc   04 36.30 -12.3X
NAO     84.68  28 P     04 48.02  -1.0
NB2     84.76  27 P     04 49.70   0.2
        1.7s   393.60nm          6.4mb
LFF     84.84  45 iPc   04 50.90   0.8
        1.5s   597.55nm          6.6mb
LSF     84.95  43 iPc   04 51.10   0.4
        1.3s   274.40nm          6.3mb
EGRA    84.97  48 iPc   04 53.71   2.9X
NRA0    85.04  28 iPc   04 51.20   0.4
NRE0    85.04  28 P     04 56.40   5.6X
                  PP    08 08.80   -
                  PPP   10 08.20
                  SKS   14 45.10
                  S     15 39.80
                  SS    21 19.50
                  SSS   24 40.70
DOMF    85.12  39 P     04 52.13   0.7
ENIJ    85.15  53 eP    04 51.52  -0.3
EPF     85.17  47 iPc   04 52.70   0.8
```

	1.6s	701.50nm		6.6mb	
UCC	85.19	38 Pc+	04 52.90	1.2	
		ed-	05 03.00		
		e	09 03.00		
		S	15 27.00		
DBN	85.20	37 iP+	04 52.00	0.3	
	Z 20s	26.40um		6.6Msz	
		ePP	08 10.00		
		ePPP	10 07.00		
		eS	15 29.00		
		e	21 08.00		
LPO	85.23	45 iPc	04 52.80	0.7	
	1.7s	770.50nm		6.7mb	
ENSF	85.24	47 P	04 53.48	1.1	
SNF	85.25	39 iPc	04 52.50	0.5	
		id	05 02.85		
RJF	85.25	44 iPc	04 52.70	0.5	
	1.5s	756.30nm		6.7mb	
ECHE	85.29	50 eP	04 53.69	1.1	
HYF	85.34	42 eP	04 53.40	0.8	
TCF	85.38	43 iPc	04 53.30	0.4	
	1.5s	779.30nm		6.7mb	
PMSA	85.40	166 (P)	04 54.48	2.2	
		epPd	05 00.20	18kmX	
EALH	85.48	52 eP	04 54.21	0.7	
DOU	85.58	39 Pc	04 54.10	0.4	
		e	05 05.40		
TAF	85.62	55 iPc	04 55.00	0.6	
MAF	85.64	43 iPc	04 54.70	0.6	
	1.6s	975.10nm		6.8mb	
MUD	85.70	32 iPc	04 53.30	-0.8	
	1.2s	84.00nm		5.8mb	
BGF	85.71	43 iPc	04 54.80	0.4	
	1.5s	620.50nm		6.6mb	
CAF	85.74	44 iPc	04 55.20	0.5	
	1.8s	540.35nm		6.5mb	
KEV	85.76	16 ePc	04 53.57	-0.7	
		esPd	05 03.58		
WIT	85.79	36 ePc	04 56.50	1.8	
		e	05 07.00		
LESF	85.83	46 P	04 55.75	0.6	
SALF	85.85	47 P	04 56.35	1.0	
EROQ	85.91	49 iPc	04 56.34	0.8	
AVF	85.96	42 iPc	04 55.70	0.0	
	1.5s	330.10nm		6.3mb	
SSF	85.96	42 iPc	04 56.10	0.4	
	1.3s	402.90nm		6.5mb	
EBR	85.98	49 iPc	04 56.00	[illegible]	
		eS	15 25.00		
ACU	86.04	51 iPc	04 57.40	[illegible]	
GRBF	86.06	47 P	04 56.[illegible]	[illegible]	
PYM	86.09	43 P	04 56.73	[illegible]	
LOR	86.12	42 iPc	04 56.9[illegible]	[illegible]	
	1.5s	812.70nm		[illegible]	
	Z 19s	31.00um		[illegible]Msz	
ENN	86.13	38 iPc	04 57.10	[illegible]	
	0.9s	209.70nm		[illegible]	
		i	05 09.20		
		e	08 17.00		
TIK	86.17	346 iPc+	04 55.00	[illegible]	
	1.4s	485.00nm		[illegible]	
		i	05 07.00		
		i	08 14.00		
		iS	15 28.00		
PAND	86.17	47 P	04 58.[illegible]	[illegible]	
WTS	86.18	37 iPc	04 57.[illegible]	[illegible]	
	0.9s	84.00nm		[illegible]	
		e	05 08.[illegible]		
		e	08 16.[illegible]		
MEM	86.23	38 iPc	04 5[illegible]	[illegible]	
		id	04 5[illegible]		
		ic	05 0[illegible]		
HFS	86.26	28 eP	04 5[illegible]	[illegible]	
	0.9s	18.30nm		[illegible]	
	Z 17s	15.81um		[illegible]	
		LR	3[illegible]		
LBF	86.29	42 iPc	04 5[illegible]		
	1.6s	486.30nm		[illegible]	
SMF	86.32	42 iPc	04 5[illegible]		
	1.8s	410.85nm		[illegible]	
PLDF	86.41	43 P	04 59 [illegible]	[illegible]	
LBL	86.42	44 P	04 58 [illegible]	[illegible]	
TRGS	86.47	47 P	04 59 [illegible]	[illegible]	
COLF	86.62	43 P	04 59 [illegible]	[illegible]	
MTHF	86.72	46 P	05 00 [illegible]	[illegible]	
VDCF	86.72	47 P	04 59 [illegible]	[illegible]	
BNS	86.79	38 iPc	05 00 [illegible]	[illegible]	

	Z 20s	75.70um		7.1Msz	
		iPP	08 22.00		
		iS	15 34.00		
SDF	87.05	18 iP	05 00.50	-0.2	
PERF	87.11	47 P	05 01.91	0.5	
VITF	87.11	40 P	05 01.64	0.3	
ETER	87.16	47 eP	05 02.40	0.8	
SSB	87.26	43 P	05 02.33	0.2	
HAU	87.42	40 iPc	05 02.80	0.0	
	0.8s	51.45nm		5.9mb	
	Z 22s	31.00um		6.7Msz	
COP	87.69	32 iPc+	05 04.00	0.2	
	Z 24s	29.46um		6.6MszX	
		i	08 32.00		
		iSKS	15 44.00		
		i	16 01.00		
BSF	87.76	41 iPc	05 04.30	-0.3	
TNS	87.83	38 ePd	05 03.40	-1.4	
TNS	87.83	38 iPc	05 04.90	0.1	
CDF	87.84	40 iPc	05 04.80	-0.1	
	1.1s	48.85nm		5.7mb	
ECH	87.84	40 P	05 04.83	0.0	
WLS	87.88	40 P	05 05.05	0.0	
LANF	87.94	39 P	05 05.49	0.2	
MOF	87.96	40 P	05 05.38	-0.1	
LOMF	87.97	41 P	05 05.49	0.0	
HOFF	88.05	39 P	05 06.14	0.4	
ESEL	88.06	49 eP	05 06.55	0.6	
STR	88.07	40 P	05 06.48	0.6	
UPP	88.12	27 iP	05 05.70	-0.2	
	1.5s	300.00nm		6.4mb	
		iPP	08 31.10		
		iS	15 38.00		
LIBD	88.14	40 P	05 06.37	0.2	
BBS	88.35	41 P	05 07.13	-0.2	
FEL	88.50	40 P	05 08.00	-0.1	
EMS	88.52	42 iPc	05 08.80	0.4	
LPL	88.61	43 eP	05 09.40	0.6	
	1.4s	57.95nm		5.7mb	
LPG	88.63	43 eP	05 09.80	0.8	
	1.6s	165.40nm		6.1mb	
BNI	88.75	43 P	05 09.47	0.1	
	2.6s	372.60nm		6.2mb	
DIX	88.83	42 iPc	05 10.40	0.5	
SLE	88.84	40 iPc	05 09.30	-0.3	
RRL	88.87	43 P	05 10.52	0.4	
ZLA	88.89	40 iP+	05 10.00	0.1	
LSD	88.91	43 P	05 11.03	0.7	
LVZ	89.07	16 (P)	05 09.28	-1.1	
		esPd	05 19.13		
RSP	89.09	43 P	05 11.62	0.6	
LRG	89.15	45 eP	05 11.50	0.4	
	1.7s	192.65nm		6.1mb	
	Z 22s	22.00um		6.5Msz	
MMK	89.19	42 iPc	05 12.40	0.8	
BHB	89.22	43 P	05 11.53	0.0	
PCC	89.24	44 P	05 12.40	0.6	
LMR	89.29	45 eP	05 11.90	0.1	
	1.6s	133.10nm		6.0mb	
DCI	89.34	43 P	05 12.52	0.4	
	2.5s	599.50nm		6.4mb	
CRC	89.37	42 P	05 12.31	0.0	
	1.8s	241.80nm		6.2mb	
MCX	89.49	37 ePc	05 12.80	0.2	
	1.9s	195.00nm		6.1mb	
	Z 19s	32.00um		6.8Msz	
		eS	15 57.00		
[illegible]	89.49	44 P	05 13.09	0.2	
[illegible]	89.52	41 iPc	05 13.40	0.3	
[illegible]	89.56	44 P	05 13.59	0.4	
[illegible]	89.57	35 ePc	05 13.00	0.1	
		ec	08 46.00		
[illegible]	89.65	35 eP	05 13.00	-0.3	
[illegible]	89.67	38 iPc	05 14.40	0.9	
	1.4s	163.00nm		6.1mb	
		ipPd	05 24.30	31kmX	
		esP	05 29.70		
		iPP	08 44.50		
		eSKS	16 00.00		
[illegible]	89.71	44 eP	05 13.70	-0.2	
	1.5s	131.10nm		6.0mb	
THA	89.75	42 iPc	05 14.10	-0.1	
HLF	89.78	37 iPc	05 14.00	0.0	
	1.5s	92.00nm		5.8mb	
		i	05 24.60		
[illegible]	89.83	43 P	05 14.14	-0.3	
[illegible]	89.97	36 iPc	05 14.70	-0.1	

	1.8s	140.00nm		5.9mb	
	Z 19s	21.50um		6.6Msz	
		i	05 24.40		
		eSKS	15 44.00		
VDL	89.97	41 iPc	05 15.80	0.6	
IMI	89.99	44 P	05 14.37	-0.8	
CKI	90.05	43 P	05 15.92	0.6	
	2.1s	551.90nm		6.4mb	
FIN	90.09	43 P	05 14.78	-0.8	
PCP	90.17	43 P	05 15.56	-0.5	
LKO	90.25	80 Pc	05 14.68	-2.1	
	1.6s	232.50nm		6.2mb	
OSS	90.31	41 iPc	05 17.00	0.2	
KAF	90.33	23 iP	05 15.40	-0.9	
	0.9s	41.70nm		5.7mb	
FUR	90.37	39 iPc	05 17.30	0.5	
	1.7s	132.00nm		5.9mb	
	Z 22s	38.00um		6.8Msz	
		e	05 27.30		
		ePP	08 47.20		
		e	08 59.70		
		eS	16 03.80		
		e	16 52.00		
		e	17 28.00		
MDI	90.42	42 P	05 16.47	-0.5	
	1.5s	51.50nm		5.6mb	
BOB	90.67	43 P	05 19.13	0.8	
	1.9s	247.10nm		6.2mb	
NUR	90.67	24 eP	05 16.80	-1.1	
	0.9s	42.00nm		5.7mb	
BRG	90.70	36 iPc	05 19.00	0.8	
	1.4s	130.00nm		6.0mb	
		i	05 29.60		
SQTA	90.74	40 iPc	05 18.90	0.2	
	1.4s	104.00nm		5.9mb	
		ipP	05 29.70	34kmX	
		i	08 53.10		
		i	09 02.80		
OGA	90.78	40 iPc	05 19.80	0.8	
	1.0s	22.00nm		5.4mb	
WET	90.89	38 iPc	05 19.50	0.3	
	1.5s	200.00nm		6.2mb	
		i	05 30.40		
PGF	91.28	45 eP	05 20.90	-0.3	
KHC	91.30	37 iPc	05 21.70	0.6	
	1.4s	58.50nm		5.7mb	
	N 20s	11.10um			
	E 20s	28.60um			
		e	05 32.00		
		PP	08 58.00		
		S	15 44.00		
PRU	91.45	36 Pc	05 18.50	-3.2X	
	1.5s	398.00nm		6.6mb	
		ipP	05 31.80	44kmX	
		e	05 49.40		
		e	07 50.00		
		PP	08 56.80		
		i	09 09.90		
		PPP	11 17.00		
		SKS	15 41.30		
		SKKS	15 57.50		
		S	16 06.80		
		PS	17 35.00		
		SS	22 20.90		
GEC2	91.51	38 P	05 21.80	-0.3	
	0.8s	12.26nm		5.3mb	
		e	05 27.00		
		e	05 29.40		
		e	08 41.80		
		e	08 47.10		
		e	08 57.60		
		e	09 08.70		
		e	22 47.40		
BHG	91.53	39 eP	05 22.20	0.1	
	1.7s	219.00nm		6.3mb	
		i	05 33.30		
TIC	91.63	83 P	05 22.76	-0.4	
	1.9s	24.00nm		5.3mb	
MME	91.72	43 P	05 23.28	-0.1	
	1.8s	210.60nm		6.2mb	
LIC	91.74	83 P	05 23.56	-0.1	
	1.8s	291.00nm		6.4mb	
	Z 20s	23.50um		6.6Msz	
KIC	91.98	83 eP	05 24.60	-0.1	
	1.3s	99.50nm		6.1mb	
FVI	91.99	40 P	05 24.55	0.4	
	2.0s	232.50nm		6.2mb	

24d 08h

```
KSP    92.02  35 iPc   05 24.00  -0.3
                e      05 34.30
                e      09 01.50
                e      09 11.30
KBA    92.11  39 iPc   05 25.10   0.1
       1.5s  131.00nm          6.1mb
                ipP    05 35.70  33kmX
                iPP    09 04.50
KMR    92.13  38 iP+   05 25.30   0.4
                iPP    09 05.90
FIR    92.27  43 iPc   05 25.00  -0.5
                iPP    09 10.00
                iS     15 04.00
PGD    92.53  43 P     05 26.18  -0.8
       1.8s  221.00nm          6.3mb
SFI    92.59  43 P     05 26.84  -0.2
       1.7s  559.90nm          6.7mb
YAK    92.71 339 iPc+  05 26.50  -0.7
       1.5s  304.00nm          6.5mb
     Z  20s   40.70um          6.9Msz
     N  20s   35.00um
     E  22s   21.80um
                i      05 40.00
                ePPP   11 12.00
                e      15 51.00
VOY    92.93  40 e(P)  05 29.00   0.3
VRAC   92.95  36 iPc   05 28.90   0.3
       2.8s  517.60nm          6.5mb
                e      05 41.00
                e(PP)  09 10.40
RSM    92.98  42 P     05 29.70   0.9
       1.9s 1068.10nm          6.9mb
TRI    93.00  40 ePc   05 28.00  -0.9
                e      06 48.00
                ePP    09 12.00
                ePPP   11 16.00
                e      15 32.00
                eS     16 40.00
                eSP    17 40.00
                eLR    36 12.00
LJU    93.32  40 ePc   05 30.40   0.0
       2.5s  620.00nm          6.6mb
                epP    05 40.50  31kmX
                e      06 24.50
                ePP    09 14.00
                eSKSac16 08.00
                e      16 18.50
                eS     16 44.00
                ePS    17 56.00
PUL    93.34  23 ePc   05 30.00  -0.2
       1.0s  140.00nm          6.3mb
                e      05 39.00
                e      09 12.00
                e      16 02.00
                ePS    17 54.00
                eSS    22 54.00
RAC    93.45  35 iP+   05 31.90   1.0
                i      05 41.50
                e      08 40.00
                i      09 15.50
                e(S)   16 10.00
                i      16 19.00
ARV    93.49  43 P     05 31.34   0.1
       1.6s  264.60nm          6.4mb
ASS    93.50  43 P     05 30.65  -0.7
       1.5s  114.90nm          6.1mb
ZST    93.80  37 iPc   05 32.80   0.3
                iPP    09 15.30
                LR     51 00.00
KUR    93.80 319 eP    05 30.00  -2.6X
     Z  20s   18.90um          6.5Msz
     N  20s   15.80um
     E  20s   31.50um
                eS     16 44.00
MNS    93.82  44 P     05 32.70  -0.1
       1.8s  419.70nm          6.6mb
NRIL   93.82 357 iPc   05 31.85  -0.4
                esPd   05 39.13
                ed     05 42.03
NRI    93.94 358 iPc+  05 32.70  -0.1
       2.3s  526.00nm          6.5mb
                e      05 45.00
                e      16 00.00
                e      16 43.00
                (SSS)  23 12.00
VBY    94.02  40 iPc   05 33.90   0.3
PTJ    94.26  40 eP    05 35.10   0.3
OJC    94.26  34 eP    05 34.50  -0.1
       2.0s  146.00nm          6.1mb
     Z  18s    8.20um          6.2Msz
                iS     16 13.70
ZAG    94.31  40 iPc   05 35.50   0.6
SRO    94.69  37 iP    05 37.00   0.4
                iPP    09 06.00
SDI    94.88  44 P     05 38.08   0.4
       1.7s  132.20nm          6.1mb
SPC    95.06  35 iP    05 39.30   0.7
                iPP    09 27.80
UZD    95.48  38 eP    05 39.40  -0.9
PSZ    95.54  36 iPc   05 41.30   0.6
YSS    96.00 323 ePc   05 42.10  -0.6
     Z  18s   18.30um          6.6Msz
     N  18s   14.90um
                epPc   05 48.06  19kmX
                e      09 36.00
                (S)    17 01.00
                ePS    18 30.00
                eSS    23 36.00
                eSSS   27 18.00
MNK    96.00  29 eP    05 40.00  -2.5X
     Z  20s   34.20um          6.8Msz
     N  22s   17.50um
     E  22s   62.00um
                e      09 32.00
                e      16 20.00
                ePS    18 20.00
UZH    96.50  35 iPc   05 46.00   1.1
LVV    96.75  33 iP    05 47.00   1.0
     Z  18s   35.50um          6.9Msz
     N  19s   18.10um
                i      09 42.00
                iPS    18 30.00
PZI    97.79  48 P     05 52.00   1.0
       1.6s  298.40nm          6.6mb
SNZO   98.36 229 eP    06 08.00  14.8X
                PP     10 02.00
                S      16 28.00
                PS     18 50.00
                SS     23 41.00
MOS    98.96  23 eP    06 05.00   9.2X
       3.6s  850.00nm          6.7mb X
                i      10 02.00
                ePPP   12 11.00
OBN    99.04  24 iPc   05 55.00  -1.2
                iSKS   16 34.00
SKO    99.67  41 iP    05 59.80   0.4
       1.8s  150.00nm          6.2mb
     Z  20s   19.27um          6.6Msz
                i      06 10.20
                iPP    10 04.00
                iSKS   16 48.00
                iPS    19 02.00
                LR     55 22.00
OHR    99.73  42 iP    06 00.40   0.6
CMP    99.97  37 ePc   06 03.00   2.3
MLR   100.35  36 ePdiff06 02.00  -0.5
VTS   100.43  40 iPdiff06 03.00   0.1
VRI   100.56  35 ePdiff06 09.50   6.3X
VAY   100.74  41 ePdiff06 03.50  -0.6
KKB   100.75  40 ePdiff06 03.00  -1.2
MMB   101.31  40 iPdiff06 07.00   0.3
CFR   101.77  35 ePdiff06 07.00  -1.6
HNR   103.44 264 ePdiff06 22.00   5.3X
MAJO  104.55 316 ePdiff06 20.50  -0.7
                esPd   06 30.43
MAT   104.55 316 iPdiff06 20.80  -0.4
     Z  20s   14.89um          6.5Msz
                eS     18 19.00
ARU   104.67  13 ePdiff06 16.00  -5.3X
                e      10 38.00
                e      19 48.00
SVE   104.70  12 ePdiff06 20.50  -0.9
       5.2s  500.00nm          6.7mb X
                i      10 36.00
                ePPP   12 53.00
                iS     16 56.00
                iPS    20 00.00
                eSS    25 29.00
MDJ   104.75 327 Pdiff 06 25.00   3.1X
     Z  20s   21.50um          6.7Msz
     N  18s   17.40um
     E  17s   10.40um
                PP     10 42.00
                SKS    17 04.00
SIM   105.12  33 ePdiff06 24.00   0.5
     Z  24s   27.00um          6.7MszX
                i      10 44.00
                ePPP   12 59.00
                iPPS   20 00.00
                eSS    25 36.00
CIT   105.99 340 ePdiff06 27.00  -0.3
                e      10 54.00
                e      13 11.00
SPA   106.65 180 iPKPc 10 57.60  17.1X
ANN   106.77  31 ePdiff06 28.00  -2.8X
                ePPP   13 19.00
                e      17 12.00
                ePS    20 17.00
                eSS    25 58.00
KAS   107.36  36 ePKP  10 58.50  15.9X
CN2   107.46 328 Pdiff 06 33.00  -1.0
     Z  18s   13.30um          6.5Msz
     N  18s   12.30um
     E  18s    6.20um
                ePP    11 00.00
                eS     18 30.00
IRK   108.41 345 ePdiff06 36.00  -2.0
       3.5s  197.00nm          6.7mb X
                e      11 06.00
                e      20 32.00
                e      21 36.00
                eSS    26 22.00
SOC   108.91  31 ePdiff06 44.00   3.6X
                i      11 10.00
                ePS    20 34.00
TLY   109.12 345 iPdiff06 41.82   0.6
                esPd   06 51.75
SNY   109.83 328 Pdiffc06 45.00   0.4
     Z  19s   26.90um          6.8Msz
     E  19s   24.30um
                PP     11 17.50
PYA   110.15  28 iPdiff06 46.00   0.0
     Z  24s   22.40um          6.7MszX
     N  24s   28.00um
     E  24s   16.80um
                i      11 20.00
                iPS    20 48.00
                iSSS   30 56.00
GUMO  110.34 292 ePdiff06 51.10   3.7X
ZAK   110.40 345 ePdiff06 47.00   0.2
       1.5s   10.00nm
                e      11 20.60
                e      20 44.00
                eSS    27 00.00
GRO   111.86  27 iPdiff06 56.00   2.5X
     Z  24s   30.80um          6.8MszX
     N  24s   51.00um
     E  24s   44.80um
                e      17 25.00
                iPS    21 08.00
NVL   112.44 160 (Pdiff07 00.00   4.5X
NVL   112.44 160 ePKP  10 48.00  -3.1X
     Z  18s   17.00um          6.7Msz
     N  18s    9.50um
     E  18s    9.50um
                iPP    11 44.00
                e      12 03.00
                e      12 38.00
                e      13 03.00
                ePPP   14 08.00
                e      15 35.00
                eSKS   17 33.00
                e      18 20.00
                eSKS   18 38.00
                ePS    21 10.00
                e      21 32.00
                e      23 34.00
                eSS    27 10.00
                eSSS   31 35.00
DL2   112.99 327 Pdiff 07 00.00   1.3
     Z  20s   16.00um          6.6Msz
     N  17s   12.70um
     E  17s   15.00um
                PP     11 40.00
BJI   114.82 331 ePdiff07 07.00   0.2
BJI   114.82 331 ePKP  10 58.00   1.3
     Z  20s   19.80um          6.7Msz
     N  17s   15.10um
                ePP    11 56.00
                eSS    27 48.00
PMG   115.65 267 ePdiff07 11.97   0.9
```

```
BAK   116.10  26 ePKP  10 54.00  -5.1X
                 i     12 09.00
HHC   116.17 335 Pdiff 07 12.00  -1.0
HHC   116.17 335 ePKP  10 59.00  -0.4
      Z  24s    56.60um          7.1MszX
      N  17s    16.20um
      E  16s    17.50um
                 PP    12 03.00
TAB   116.35  30 iPdiff07 16.00   2.1
                 e     10 39.00
                 e     11 47.00
BTO   117.00 336 ePKP  10 59.40  -1.6
      N  18s    14.40um
      E  10s    11.80um
                 PP    12 08.00
TIA   117.36 328 Pdiff 07 21.00   2.8X
TIA   117.36 328 PKPd  11 01.20  -0.5
      Z  20s    16.70um          6.7Msz
      N  17s    12.30um
      E  17s     8.37um
                 PP    12 12.00
                 SKS   18 09.00
DRV   117.45 203 ePdiff07 25.00   7.2X
DRV   117.45 203 PKP   11 06.00   5.2X
                 PP    12 06.00
                 SKS   17 50.00
                 SP    22 15.00
                 SS    28 50.00
TIY   118.41 332 ePdiff07 21.00  -2.0
      Z  20s    57.70um          7.2Msz
      N  17s    29.30um
                 PP    12 19.00
CTAO  118.61 256 ePdiff07 21.09  -3.0X
SSE   118.90 321 Pdiff 07 20.00  -5.1X
SSE   118.90 321 PKPc  11 04.00  -0.7
      Z  20s    23.30um          6.8Msz
      N  18s     7.70um
      E  18s    12.50um
                 sPKP  11 16.70
                 eSKKS 19 16.00
                 iSS   28 40.00
WMQ   119.44 355 PKP   11 05.00  -0.5
      Z  20s    38.70um          7.0Msz
      E  21s    25.10um
                 PP    12 28.00
NJ2   119.57 323 ePKP  11 04.50  -1.5
      Z  18s    12.40um          6.6Msz
      N  16s    15.80um
      E  18s     6.92um
                 PP    12 25.00
FRU   120.39   6 ePdiff07 32.00   0.4
                 i     11 07.80
                 e     12 30.00
                 ePPP  15 14.00
                 e     18 11.00
                 i     22 28.00
                 eSS   29 26.00
AAK   120.57   6 iPdiff07 33.76   1.2
GTA   121.51 343 Pdiff 07 38.00   1.2
GTA   121.51 343 PKP   11 08.50  -1.1
      Z  22s    52.80um          7.1Msz
      N  17s    16.80um
                 PP    12 38.00
                 SKS   18 13.00
CER   122.23 119 ePKP  11 12.50   1.4
POF   122.75 114 e(PKP)11 13.00   0.9
       0.5s     12.00nm
XAN   123.04 333 Pdiff 07 40.00  -3.6X
XAN   123.04 333 PKP   11 10.70  -1.9
      Z  22s    29.40um          6.9Msz
      N  14s    11.60um
      E  16s     6.73um
UQSK  123.23  43 iPKPc 11 13.87   0.6
LZH   123.27 338 ePKPc 11 10.81  -2.4
LZH   123.27 338 Pdiffd07 45.00   0.2
MAIO  123.35  21 iPKPc 11 13.40   0.2
                 i     12 09.00
SUR   123.52 118 iPKPd 11 18.00   4.2X
       1.5s    138.89nm
STK   123.66 243 iPKPc 11 13.10  -0.8
       6.0s      3.00nm
                 iPP   13 00.80
QASM  123.77  41 ePKP  11 14.33   0.0
KSH   123.87   5 Pdiff 07 42.00  -5.3X
KSH   123.87   5 PKP   11 14.50   0.3
      Z  24s    53.20um          7.1MszX
      N  20s    29.30um
      E  20s    25.80um
                 SKS   18 21.00
QIS   124.85 256 ePKP  11 15.70  -0.8
QZH   124.86 318 ePKP  11 15.00  -1.3
      Z  19s    13.80um          6.6Msz
      N  19s     9.61um
                 ePP   13 00.00
                 SS    30 00.00
MJMA  125.04  40 ePKP  11 16.33  -0.4
ENH   125.93 330 ePKPc 11 17.05  -1.2
RYD   126.69  40 iPKPc 11 19.50  -0.5
FRS   127.43 115 iPKPd 11 20.00  -1.2
       1.0s     25.00nm
DHR   127.57  36 ePKP  11 21.50   0.0
MAW   127.81 171 iPKPd 11 20.30  -0.4
       1.3s     35.20nm
      Z  20s    26.10um          6.9Msz
                 iPP   13 26.00
                 iPKS  14 41.20
                 e     22 55.00
                 eSKP  24 27.90
                 eSS   30 34.30
CD2   127.91 335 PKP   11 21.80  -0.4
      Z  18s    31.10um          7.0Msz
      E  17s    23.90um
                 iPP   13 25.00
BLF   128.20 114 iPKPd 11 21.70  -1.2
       1.5s     60.00nm
GRM   128.32 119 e(PKP)11 19.00  -3.9X
      Z  20s    15.30um          6.7Msz
LSZ   129.07  96 iPKPd 11 21.50  -3.3X
BAG   129.14 308 ePKP  11 22.00  -3.0X
NIL   129.30   9 iPKP  11 26.60   1.9
SEK   129.48 113 ePKP  11 16.50  -8.9X
       1.0s     60.00nm
GZH   129.49 321 PKPd  11 28.00   2.7
      Z  30s    54.10um          7.1MszX
      N  18s     5.21um
      E  18s     9.49um
                 SS    30 58.00
HKC   129.56 319 PKP   11 26.00   0.6
WB5   129.67 258 iPKPc 11 24.90  -0.8
                 ipPKP 11 32.50
                 i     11 54.80
                 ePP   13 38.30
                 eSKP  14 48.20
WR2   129.69 258 iPKP  11 25.30  -0.5
                 i     11 33.20
                 ePP   13 39.90
WRA   129.71 258 PKP   11 08.90 -16.9X
       0.8s      0.80nm
SLR   130.07 110 iPKPc 11 24.00  -2.5X
       1.5s     55.56nm
      Z  20s    28.01um          7.0Msz
BUL   130.09 102 iPKP  11 24.50  -2.2
                 i     13 41.90
DAV   130.20 295 ePKP  11 27.00   0.1
ASPA  130.37 253 iPKP  11 26.60  -0.4
GYA   130.47 330 Pdiff 08 20.00   3.0X
GYA   130.47 330 PKP   11 26.00  -1.2
      Z  22s    18.00um          6.7Msz
      N  20s    18.50um
      E  20s     6.43um
                 PP    13 40.00
AAE   130.76  62 ePKP  11 29.70   1.4
BFT   131.66 110 ePKP  11 27.00  -2.6X
LSA   132.85 348 ePKPc 11 32.07   0.0
      Z  22s    25.70um          6.9Msz
      E  16s     5.04um
                 PP    13 56.00
KMI   133.42 333 ePKPc 11 32.36  -0.6
      Z  20s    31.10um          7.0Msz
      N  19s    13.50um
      E  20s    31.10um
                 sPKP  11 42.00
                 PP    14 00.00
                 PKS   15 00.00
                 SS    31 37.00
NDI   134.66   5 iPKP  11 34.00  -1.0
                 ePP   14 06.00
QIZ   134.69 320 PKP   11 35.00  -0.3
      N  21s     9.22um
      E  19s    12.50um
                 PP    14 04.00
GUN   135.38 354 PKP   11 21.40 -15.4X
GKN   135.39 356 PKP   11 21.60 -15.0X
KKN   135.55 355 PKP   11 21.50 -15.5X
DMN   135.75 355 PKP   11 23.00 -14.4X
PKI   135.76 355 PKP   11 22.60 -14.9X
LOE   140.53 328 ePKP  11 45.50  -0.6
CHTO  140.62 333 ePKP  11 41.00  -5.3X
       2.1s    230.16nm
COOL  141.13 241 ePKP  11 40.50  -6.4X
CRZF  141.64 147 iPKPd 11 48.00   0.7
NST   142.80 329 ePKP  11 43.00  -7.1X
KLB   143.78 239 ePKP  11 55.20   3.7X
       0.9s     47.00nm
NWAO  143.83 237 ePKP  11 52.40   0.9
       1.0s     56.00nm
POO   144.18  12 iPKP  12 01.00   8.5X
KHT   144.31 330 iPKPc 11 50.30  -2.4X
BAL   144.91 240 ePKP  11 51.60  -1.8
       0.9s    274.00nm
MUN   144.94 238 ePKP  11 51.90  -1.5
       1.0s    150.00nm
NNT   145.61 327 iPKPc 11 54.30  -0.7
MRWA  145.85 242 ePKP  11 54.00  -1.1
HYB   145.94   5 iPKPc 11 54.50  -1.0
       1.0s    610.00nm
PAF   146.27 167 iPKPc 12 01.00   6.0X
                 ePP   15 38.00
GBA   149.60   7 PKPc  12 00.90  -0.4
       1.1s    999.90nm
IPM   151.19 316 ePKPd 12 01.30  -2.5X
                 e     12 09.50
KGM   151.35 309 ePKPc 12 03.00  -1.0
KOD   152.92   8 iPKP  12 07.00   0.4
     S.D. = 1.0  on 506 of 588 obs.
-----------------------------------
%  OCT  24, 1993  08h 24m 20.19± 2.64s
   39.202 N ±20.8km   27.579 E ± 8.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.7 (ISK).

DST     0.91  63 ePn   24 37.70   0.1
EZN     1.15 303 iPn   24 41.60  -0.1
EDC     1.16  11 ePn   24 41.30  -0.6
BNT     1.18  13 ePn   24 42.30   0.0
KGT     1.27 350 iPn   24 44.30   0.6
     S.D. = 0.6  on   5 of   5 obs.
-----------------------------------
   OCT  24, 1993  08h 25m 35.16± 0.35s
    6.071 S ± 3.8km  146.015 E ± 6.3km
   DEPTH =  10.0km  (geophysicist)
   4.8mb (  8 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.8 (PMG).

YYYY    0.17 195 iPd   25 39.70   0.5
MDG     0.85 344 eP    25 51.40  -0.1
LAT     1.14 121 ePc   25 56.40  -0.2
MNDI    2.35 268 eP    26 19.00   4.4X
WWKK    3.40 315 eP    26 35.50   6.1X
PMG     3.50 161 eP    26 31.00   0.3
KVG     5.90  54 eP    27 09.50   4.7X
WR2    17.85 218 eP    29 45.10  -0.2
       0.9s     29.20nm          4.4mb
                 e     30 18.50
ASPA   21.02 212 eP    30 21.30  -0.3
       0.8s     41.40nm          4.9mb
                 i     30 25.90
                 eS    34 02.70
STK    26.01 189 eP    31 10.00  -0.1
       1.8s      2.40nm          3.6mb X
WARB   27.24 221 eP    31 21.00  -0.5
       0.6s      5.00nm          4.4mb
SSE    43.92 329 P     33 44.50   0.5
       1.0s      8.00nm          4.5mb
CHTO   52.56 299 eP    34 51.70   0.2
       1.1s     12.37nm          4.8mb
LZH    57.63 320 Pc    35 28.50   0.3
       1.5s     37.00nm          5.2mb
GUN    67.09 304 P     36 31.60  -0.2
PKI    67.36 303 P     36 33.20  -0.3
KKN    67.54 303 P     36 34.20  -0.3
       1.0s     50.00nm          5.7mb
DMN    67.63 303 P     36 35.00  -0.1
GKN    68.15 303 P     36 38.00  -0.2
       1.0s     36.00nm          5.5mb
GBA    70.82 287 P     36 55.00   0.5
     S.D. = 0.3  on  17 of  20 obs.
-----------------------------------
*  OCT  24, 1993  08h 40m 59.49± 1.50s
```

24d 08h

```
   40.417 N ±12.8km   21.805 E ± 9.5km
   DEPTH =  10.0km  (geophysicist)
 GREECE                                (364)
      ML 2.0 (THE).

FNA      0.49 318 ePg   41 09.61   0.1
                  eSg   41 17.01
LIT      0.61 121 ePg   41 11.53  -0.3
GRG      0.70  40 ePg   41 12.70  -0.7
                  eSg   41 24.82
THE      0.91  76 ePg   41 17.22   0.3
VAY      1.07  32 ePn   41 22.00   2.3X
SOH      1.25  71 ePb   41 23.26   0.6
     S.D. = 0.7  on   5 of   6 obs.
-------------------------------------
%  OCT  24, 1993  08h 43m 49.56± 3.03s
   39.091 N ±24.3km   27.644 E ± 8.5km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                                (366)
      ML 2.6 (ISK).

DST      0.92  56 ePn   44 07.20   0.0
EZN      1.26 306 ePn   44 13.00   0.1
EDC      1.27   8 ePn   44 13.30   0.2
BNT      1.28   9 ePn   44 13.30   0.0
KGT      1.38 349 iPn   44 14.80  -0.1
MFT      1.72 351 ePn   44 19.40  -0.3
     S.D. = 0.2  on   6 of   6 obs.
-------------------------------------
%  OCT  24, 1993  09h 16m 43.32± 1.57s
   26.856 S ±12.8km   26.630 E ±14.2km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA              (584)
      ML 3.4 (PRE).

BFS      0.14 107 eP    16 46.50   0.1
                  S     16 46.80
SEK      1.71 149 eP    17 14.50   0.5
                  S     17 36.20
SLR      1.86  53 iPd   17 16.60   0.4
                  S     17 38.50
BLF      2.28 190 iPd   17 23.70   1.4
                  S     17 51.50
FRS      3.11 202 iPc   17 33.70  -0.1
                  S     18 09.50
BFT      3.28  70 eP    17 36.00  -0.6
                  S     18 20.50
POF      6.41 245 eP    18 50.10  29.3X
                  S     19 58.00
GRM      6.44 180 eP    18 19.50  -1.6
                  S     19 45.00
SUR      7.48 221 eP    18 42.00   6.1X
                  S     20 15.50
     S.D. = 1.2  on   7 of   9 obs
-------------------------------------
%  OCT  24, 1993  09h 21m 10.23± 0.95s
   41.237 N ± 9.0km   22.733 E ± 5.8km
   DEPTH =   5.0km  (geophysicist)
 NORTHWESTERN BALKAN REGION            (383)
      ML 1.8 (THE).

KNT      0.15 121 ePg   21 13.36   0.1
                  eSg   21 15.88
VAY      0.15 304 iPg   21 13.00  -0.3
                  iSg   21 15.40
GRG      0.38 222 ePg   21 17.80   [illegible]
                  eSg   21 24.00
SOH      0.63 131 ePg   21 22.22   [illegible]
                  eSg   21 31.20
THE      0.63 164 ePg   21 22.24   [illegible]
                  eSg   21 31.34
FNA      1.12 247 ePg   21 32.27   [illegible]
                  eSg   21 46.64
OUR      1.31 133 ePb   21 35.[illegible]   [illegible]
                  eSb   21 5[illegible]
     S.D. = 0.7  on   7 of   [illegible]
-------------------------------------
   OCT  24, 1993  10h 11m 25.[illegible]
   38.495 S ± 6.3km  175.76[illegible] E [illegible]
   DEPTH = 195.7 ± 10.2 km
 NORTH ISLAND, NEW ZEALAND             [illegible]

PATZ     0.41  74 P     11 51.30  -0.[illegible]
UTU      0.46  47 P     11 51.70  -0.[illegible]
WLZ      0.64 348 P     11 53.10   0.[illegible]
                  S     12 10.90
NGZ      0.69 190 P     11 52.90  -0.[illegible]
CNZ      0.72 193 P     11 53.30   0.0
MOZ      0.75 269 P     11 53.70   0.4
                  S     12 12.20
PAHZ     1.08 110 P     11 55.30  -0.2
URZ      1.09  78 P     11 54.60  -0.9
                  S     12 12.50
WAHZ     1.29 159 Pc    11 57.30   0.2
TTH      1.33 142 P     11 57.30  -0.1
TEHZ     1.70 152 P     12 01.10   0.3
NOZ      1.79  95 P     12 02.20   0.6
PUZ      2.01  79 P     12 03.80  -0.2
                  S     12 28.60
MNG      2.13 186 P     12 05.50   0.3
                  S     12 31.20
PGZ      2.16 170 P     12 05.70   0.2
HBZ      2.20  67 P     12 06.30   0.4
KIW      2.46 195 P     12 08.90   0.1
CAW      2.66 191 P     12 11.20   0.0
MTW      2.67 184 P     12 11.00  -0.2
DIW      2.71 211 P     12 12.20   0.5
MRW      2.85 196 P     12 13.20  -0.2
                  S     12 46.20
BLW      2.88 184 P     12 13.60  -0.1
TCW      2.95 202 P     12 14.70   0.2
QRZ      3.41 226 P     12 20.10   0.0
                  S     13 00.60
KHZ      4.27 203 P     12 30.90   0.1
                  S     13 18.90
LTZ      5.04 211 eP    12 39.90  -0.9
     S.D. = 0.4  on  26 of  26 obs.
-------------------------------------
%  OCT  24, 1993  10h 26m 33.91± 1.37s
   16.863 N ±13.8km   99.119 W ± 8.0km
   DEPTH =  10.0km  (geophysicist)
 NEAR COAST OF GUERRERO, MEXICO        ( 58)

ACX      0.71 271 iPd   26 48.57   0.7
                  iS    27 00.11
III      1.54 348 iP    27 01.73   0.1
PPM      2.24  12 iP    27 13.06   1.0
OXX      2.30  84 iP    27 12.17  -0.5
                  iS    27 40.93
IIA      2.32  11 iP    27 12.73   0.1
CRX      2.58 348 (P)   27 29.00  12.2X
IISM     2.69  38 iP    27 18.31   0.4
                  iS    27 53.59
MRX      3.44 325 iP    27 27.00  -1.7
     S.D. = 1.1  on   7 of   8 obs.
-------------------------------------
   OCT  24, 1993  10h 39m 32.55± 0.46s
   41.020 N ± 4.8km   22.187 E ± 3.4km
   DEPTH =   5.0km  (geophysicist)
 NORTHWESTERN BALKAN REGION            (383)
      ML 1.9 (THE), 1.9 (SKO).

GRG      0.17 111 ePg   39 35.85  -0.3
                  eSg   39 38.88
VAY      0.42  44 iPg   39 41.40   0.5
                  iSg   39 47.80
KNT      0.56  75 ePg   39 43.66   0.0
                  eSg   39 51.88
FNA      0.66 249 ePg   39 45.60  -0.1
                  eSg   39 55.17
THE      0.71 123 ePg   39 45.92  -0.8
                  eSg   39 54.94
SOH      0.91 102 ePg   39 49.52  -0.9
                  eSg   40 02.52
LIT      0.95 166 ePg   39 51.60   0.5
                  eSg   40 05.80
[illegible]      1.05 275 ePn   39 52.80  -0.1
[illegible]      1.07  84 ePg   39 53.36   0.2
                  eSg   40 07.68
[illegible]      1.10 330 ePn   39 53.50  -0.2
[illegible]      1.53 116 ePb   40 01.24   0.7
                  eSb   40 21.33
[illegible]      1.58 133 ePb   40 01.68   0.5
                  eSb   40 21.92
     S.D. = 0.6  on  12 of  12 obs.
-------------------------------------
   OCT  24, 1993  10h 41m 37.00± 1.60s
   [illegible].378 N ±16.9km   16.112 W ±33.8km
   DEPTH =  10.0km  (geophysicist)
   4.3mb (  4 obs.)
 NORTH OF ASCENSION ISLAND             (407)

[illegible]      12.71  18 eP    44 40.80   0.1
                  iS    46 59.80
BUL      48.29 118 eP    50 20.90   0.0
         0.9s     7.14nm          4.7mb
GEC2     54.68  24 P     51 09.00   0.4
         0.7s     0.79nm          3.9mb
                  e     51 11.30
                  e     51 22.10
                  PP    53 11.80
                  e     53 14.80
ZST      55.62  26 e(P)  51 15.50   0.2
SPC      57.77  27 eP    51 31.30   0.5
MLR      58.20  34 eP    51 34.00   0.2
HFS      63.90  16 eP    52 10.30  -1.8
         0.4s     0.70nm          4.2mb
MBC      92.78 347 eP    54 51.00   0.6
         1.0s     2.00nm          4.5mb
WR2     145.16 126 ePKP  01 10.80  -6.6X
         1.4s     3.40nm
     S.D. = 0.9  on   8 of   9 obs.
-------------------------------------
?  OCT  24, 1993  10h 45m 02.88± 2.31s
   18.221 N ±14.9km   67.226 W ±21.0km
   DEPTH =  33.0km  (normal)
 MONA PASSAGE                          ( 89)

MCP      0.22  29 P     45 09.50  -0.2
MGP      0.25 149 P     45 10.00   0.0
APR      0.52  64 P     45 15.10   1.3
PNP      0.54 107 P     45 14.50   0.4
CLLP     0.63 103 P     45 15.80   0.5
CPD      1.26  98 P     45 24.50   0.2
LPR      1.29  86 P     45 22.40  -2.4
     S.D. = 1.4  on   7 of   7 obs.
-------------------------------------
%  OCT  24, 1993  10h 52m 19.09± 2.26s
   46.166 N ±20.2km    2.718 E ± 9.0km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                                (538)
      ML 1.7 (LDG).

MAF      0.12 298 Pg    52 22.00  -0.1
                  Sg    52 23.70
BGF      0.40  13 Pg    52 27.10  -0.2
                  Sg    52 32.50
AVF      0.76  35 Pg    52 33.60  -0.4
                  Sg    52 43.70
SMF      0.91  58 Pg    52 36.20  -0.4
                  Sg    52 48.50
SSF      1.05  31 Pg    52 39.20   0.4
                  Sg    52 52.30
LOR      1.35  35 Pg    52 44.70   0.7
                  Sg    53 01.90
     S.D. = 0.6  on   6 of   6 obs.
-------------------------------------
&  OCT  24, 1993  11h 05m 01.22s
   60.103 N          151.611 W
   DEPTH =  73.7km
 KENAI PENINSULA, ALASKA               ( 14)
      <AEIC>.

NNL      0.17 111 iPc   05 12.78   2.1
HOM      0.45 182 eP    05 13.94  -0.1
                  eS    05 24.07
BRLK     0.50 133 eP    05 14.09  -0.5
                  eS    05 24.12
CNPM     0.61 162 ePc   05 15.07  -0.6
                  eS    05 26.09
RDT      0.62 320 iPd   05 14.95  -0.8
                  eS    05 26.47
RED      0.66 299 ePd   05 15.44  -0.8
                  eS    05 27.23
REF      0.67 306 iPd   05 15.67  -0.8
                  eS    05 27.31
NKA      0.67  16 ePd   05 17.44   1.2
ILIM     0.68 269 eP    05 15.50  -0.9
                  eS    05 27.39
RS2      0.68 303 iPd   05 15.82  -0.8
                  eS    05 27.65
RDW      0.71 303 iPd   05 16.07  -0.8
                  eS    05 28.57
DFR      0.73 313 iPd   05 16.12  -0.9
                  eS    05 28.05
INE      0.73 267 eP    05 16.06  -1.0
                  eS    05 27.85
NCT      0.80 306 iPd   05 17.14  -0.7
                  eS    05 30.05
SLKM     0.80  59 eP    05 16.96  -0.9
OPT      0.93 242 eP    05 18.55  -0.8
```

```
                 eS    05 32.43
BKG     1.02 342 iPd   05 19.85  -0.7
                 eS    05 34.89
SEW     1.08  89 eP    05 19.83  -1.3
                 eS    05 35.50
SPU     1.10 349 iPd   05 20.86  -0.7
                 eS    05 36.97
CKT     1.14 345 iPd   05 21.44  -0.6
                 eS    05 38.01
CKL     1.15 342 eP    05 21.66  -0.6
CKN     1.16 346 eP    05 21.90  -0.4
AUE     1.16 231 eP    05 21.15  -1.1
AUL     1.17 233 eP    05 22.48   0.1
AUP     1.18 232 eP    05 21.98  -0.6
MPA     1.19  70 ePc   05 21.70  -0.8
AUW     1.19 233 eP    05 21.64  -1.0
CRP     1.20 347 eP    05 22.51  -0.4
                 eS    05 40.04
CP2     1.21 345 iPd   05 22.74  -0.3
CGLM    1.22 351 ePd   05 22.67  -0.5
BGL     1.23 342 iPd   05 22.77  -0.4
NCG     1.33 349 iPd   05 24.24  -0.3
PDB     1.34 257 eP    05 22.93  -1.6
                 eS    05 39.99
SUA     1.43  17 ePd   05 25.45  -0.4
                 eS    05 44.69
PMS     1.53  40 P     05 26.60  -0.5
                 S     05 45.20
SYI     1.55 195 eP    05 25.96  -1.4
                 eS    05 45.65
CDD     1.57 222 eP    05 26.33  -1.3
                 eS    05 45.45
PWA     1.77  28 P     05 29.80  -0.5
PWL     1.79  64 eP    05 28.92  -1.8
SKT     1.88   1 ePd   05 31.25  -0.7
                 eS    05 55.08
LTI     1.88  90 eP    05 30.22  -1.7
PLRM    1.93  38 eP    05 31.85  -0.6
KNIM    1.95  81 eP    05 30.42  -2.4
                 eS    05 53.31
KNK     2.03  48 eP    05 32.73  -1.2
                 eS    05 57.08
GHO     2.13  37 eP    05 35.33   0.0
CFI     2.18  59 eP    05 34.30  -1.7
                 eS    05 59.64
CUT     2.40  15 eP    05 38.10  -0.9
HIN     2.56  81 eP    05 38.82  -2.5
KLU     3.12  61 eP    05 47.01  -2.1
TRF     3.42  10 eP    05 52.91  -0.5
KTH     3.48   5 eP    05 53.97  -0.2
        51 obs. associated
-----------------------------------
%  OCT  24, 1993  11h 10m 34.71± 1.00s
   41.144 N ± 8.1km   23.399 E ± 4.9km
   DEPTH =   5.0km  (geophysicist)
 GREECE-BULGARIA BORDER REGION    (363)
      ML 2.1 (THE).

SRS     0.15 100 ePg   10 37.80   0.0
                 eSg   10 39.76
SOH     0.32 186 ePg   10 41.26   0.0
                 eSg   10 45.96
KNT     0.38 273 ePg   10 42.60   0.3
                 eSg   10 47.84
THE     0.61 213 ePg   10 46.64  -0.2
                 eSg   10 54.96
GRG     0.78 256 ePg   10 49.78  -0.5
                 eSg   11 01.04
OUR     0.92 151 ePg   10 52.72  -0.1
                 eSg   11 05.00
PAIG    1.23 170 ePb   10 58.00  -0.1
                 eSb   11 14.16
LIT     1.25 214 ePb   10 59.04   0.6
                 eSb   11 16.64
     S.D. = 0.4  on   8 of   8 obs.
-----------------------------------
   OCT  24, 1993  11h 12m 24.82± 0.85s
   41.309 S ± 7.6km  172.509 E ± 6.7km
   DEPTH = 222.0 ±  9.5 km
 SOUTH ISLAND, NEW ZEALAND        (162)

QRZ     0.48   2 Pc    12 54.60   0.3
                 S     13 14.40
THZ     0.54 147 P     12 54.90   0.3
                 S     13 15.10
DSZ     0.69 230 P     12 55.30  -0.2
DIW     1.18  65 P     12 58.30  -0.1
TCW     1.34  86 P     12 59.50   0.0
KHZ     1.35 146 P     12 59.60   0.1
                 S     13 23.30
LTZ     1.48 187 P     13 00.90   0.2
                 S     13 24.70
MRW     1.66  88 P     13 01.90  -0.2
                 S     13 27.30
WEL     1.70  90 P     13 02.40  -0.1
                 S     13 28.50
KIW     1.87  77 P     13 04.10   0.0
CAW     1.94  85 P     13 04.60  -0.2
WVZ     2.20 216 P     13 07.40   0.1
BLW     2.23  92 P     13 07.80   0.1
MTW     2.26  87 P     13 08.00   0.0
MNG     2.35  74 Pc    13 08.80  -0.2
                 S     13 39.70
BSZ     2.38  52 P     13 09.60   0.4
MQZ     2.40 178 P     13 09.00  -0.4
                 S     13 39.90
PGZ     2.93  78 P     13 15.60   0.3
CNZ     3.14  49 eP    13 16.50  -1.3
BWZ     3.75 210 P     13 24.70  -0.2
MSZ     4.75 223 eP    13 37.30   0.1
NOZ     5.03  59 eP    13 41.40   0.8
     S.D. = 0.4  on  22 of  22 obs.
-----------------------------------
   OCT  24, 1993  12h 28m 31.69± 0.78s
   38.516 S ± 5.1km  175.673 E ± 5.3km
   DEPTH = 210.9 ±  8.3 km
 NORTH ISLAND, NEW ZEALAND        (159)

WLZ     0.65 355 P     29 00.90   0.0
                 S     29 19.90
NGZ     0.66 185 P     29 00.40  -0.8
MOZ     0.68 271 P     29 00.80  -0.2
                 S     29 20.40
CNZ     0.69 188 P     29 00.70  -0.5
PAHZ    1.13 108 P     29 03.40  -0.4
URZ     1.16  78 P     29 02.70  -1.2
WAHZ    1.30 156 Pc    29 05.20   0.2
TTH     1.36 139 P     29 05.10  -0.4
BSZ     1.40 204 Pc    29 06.50   0.7
TEHZ    1.72 149 P     29 09.00   0.4
KUZ     1.77   1 Pc    29 09.80   0.8
MAHZ    1.85 112 P     29 10.50   0.6
NOZ     1.86  94 P     29 09.90   0.0
MNG     2.11 184 Pc    29 12.70   0.3
                 S     29 39.10
PGZ     2.15 168 P     29 13.20   0.4
HBZ     2.27  67 P     29 14.30   0.2
KIW     2.42 194 Pc    29 15.90   0.2
CAW     2.63 190 P     29 18.30   0.2
MTW     2.64 183 Pc    29 18.20   0.0
DIW     2.65 210 P     29 18.80   0.4
MRW     2.81 195 Pc    29 20.30   0.2
                 S     29 53.60
BLW     2.85 183 P     29 20.40  -0.2
WEL     2.85 194 P     29 20.60   0.0
TCW     2.90 201 P     29 21.50   0.4
QRZ     3.35 225 P     29 26.30  -0.1
KHZ     4.22 202 P     29 37.50   0.4
DSZ     4.38 221 P     29 39.50   0.3
LTZ     4.99 210 eP    29 46.50  -0.3
MQZ     5.67 203 P     29 54.30  -1.1
                 eS    30 54.60
BWZ     7.41 214 eP    30 17.70  -0.4
ODZ     7.53 208 eP    30 19.40  -0.2
     S.D. = 0.5  on  31 of  31 obs.
-----------------------------------
?  OCT  24, 1993  12h 32m 21.90± 3.03s
   16.393 N ±27.4km   99.125 W ±11.7km
   DEPTH =  10.0km  (geophysicist)
 NEAR COAST OF GUERRERO, MEXICO   ( 58)

ACX     0.85 304 iPc   32 38.10  -0.2
                 iS    32 50.00
III     2.00 351 iP    32 55.15  -1.1
                 iS    33 21.19
OXX     2.40  73 iP    33 02.00  -0.1
                 iS    33 33.00
PPM     2.70  10 iP    33 06.50  -0.1
                 iS    33 40.00
IIA     2.78   9 iP    33 05.81  -1.4
CRX     3.04 350 (P)   33 13.50   2.2
IISM    3.07  33 (P)   33 12.00   0.7
MRX     3.84 329 (P)   33 30.00   7.8X
                 (S)   34 16.62
LVVM    4.19  37 (P)   33 36.00   8.8X
TOO   119.82 236 ePdiff47 28.00  -9.2X
        0.3s    10.00nm
STK   123.15 242 iPdiff47 48.80  -3.3X
        0.4s     5.80nm
     S.D. = 1.5  on   7 of  11 obs.
-----------------------------------
?  OCT  24, 1993  12h 41m 43.11± 2.69s
   24.952 S ±19.8km  179.801 W ±21.9km
   DEPTH = 534.5 ± 25.7 km
   4.8mb (  5 obs.)
 SOUTH OF FIJI ISLANDS            (171)

KUZ    12.37 197 P     44 26.70   0.7
DZM    12.94 280 iPc   44 31.90  -0.1
PUZ    13.19 187 eP    44 35.00   0.7
URZ    13.52 190 eP    44 36.10  -1.6
NOZ    13.75 187 eP    44 40.10   0.1
PGZ    15.96 191 eP    45 02.00   0.0
MNG    16.11 193 eP    45 01.40  -2.1
QRZ    17.08 200 P     45 13.60   0.8
THZ    17.83 198 P     45 21.00   0.8
KHZ    18.27 196 P     45 24.80   0.5
LTZ    18.95 198 P     45 30.40  -0.5
WVZ    19.68 201 P     45 37.80   0.1
ARMA   25.84 251 iPc   46 34.50   0.7
        0.6s    13.00nm          4.7mb
ASPA   42.06 262 iPd   48 49.60   0.2
        0.7s    18.60nm          4.7mb
WR2    42.50 267 iPc   48 52.40  -0.5
        0.3s    38.40nm          5.4mb
                 eS    54 19.60
WRA    42.52 267 P     48 52.80  -0.3
        0.5s    10.00nm          4.6mb
FORT   46.12 251 eP    49 20.60  -0.3
WARB   48.04 256 iPd   49 35.30  -0.3
        0.4s    15.00nm          4.8mb
HFS   143.61 349 ePKP  00 18.00   0.3
        0.3s     1.00nm
     S.D. = 0.9  on  19 of  19 obs.
-----------------------------------
&  OCT  24, 1993  12h 47m 08.36s
   38.795 N          122.804 W
   DEPTH =   4.0km
 NORTHERN CALIFORNIA              ( 36)
      <GM-P>. MD 3.1 (GM). ML 3.0
      (BRK), 3.0 (GS).

GGPM    0.04 226 P     47 09.50  -0.2
GACM    0.09 330 P     47 10.34   0.0
GSGM    0.10  46 P     47 11.01   0.4
GMKM    0.17   4 P     47 12.46   0.5
GRTM    0.18  36 P     47 12.06   0.1
NMTM    0.28  88 P     47 14.18   0.2
NSHM    0.31 151 P     47 14.81   0.1
GHCM    0.36 239 P     47 15.81   0.2
NTYM    0.42 165 eP    47 16.69  -0.1
GBMM    0.42  35 P     47 17.57   0.7
GARM    0.46  69 P     47 19.45   1.9
NTBM    0.56 190 P     47 20.38   0.9
SNT     0.67 156 P     47 21.25  -0.5
GNAM    0.76 302 P     47 23.63   0.1
GCBM    0.81 317 P     47 24.60   0.1
ZSP     0.95 153 iP    47 26.68  -0.3
HMR     1.01 129 eP    47 28.04  -0.1
BKS     1.02 154 eP    47 27.79  -0.4
                 eS    47 42.94
JPRM    1.03 165 P     47 28.14  -0.3
BGC     1.14 149 P     47 28.77  -1.5
APRM    1.24  86 P     47 30.15  -1.8
SAC     1.25 166 P     47 33.41   1.3
ORV     1.27  53 eP    47 30.15  -2.3
JEGM    1.31 168 ePc   47 31.93  -1.2
PCC     1.34 165 iP    47 33.82   0.3
AHRM    1.36  87 P     47 31.90  -2.1
ARJM    1.45  94 P     47 33.43  -2.0
MHC     1.72 147 eP    47 38.46  -0.9
ARN     1.76 145 eP    47 38.46  -1.4
COE     1.78 149 eP    47 38.81  -1.3
WDC     1.79   6 eP    47 41.03   0.7
KMPM    1.91 328 (P)   47 42.01  -0.1
LMEM    1.98  28 eP    47 43.15  -0.1
CMB     2.05 111 ePc   47 42.74  -1.3
LGPM    2.11 359 eP    47 44.85  -0.2
FHC     2.20 336 (P)   47 45.86  -0.4
LBFM    2.64  15 (P)   47 51.75  -1.0
MMPM    3.20 111 eP    48 00.17  -0.6
```

24d 12h

```
MEMM    3.25 109 eP    48 01.12    0.1
BONR    3.64 102 eP    48 07.12    0.2
MTUM    3.64 112 (P)   48 06.30   -0.6
TNP     4.44  97 (P)   48 18.41    0.1
      42 obs. associated
-------------------------------------
?  OCT  24, 1993  13h 20m 23.14± 0.98s
   31.366 S ±26.2km   67.812 W ± 9.6km
   DEPTH =  70.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA     (137)

RTLL    0.56 274 iPd   20 37.00    0.2
                S      20 48.00
RTCB    0.85 262 iPd   20 40.00   -0.2
                S      20 53.00
RTPR    1.54  47 iPc   20 49.00    0.0
                S      21 09.00
TCA     2.76  90 eP    21 06.00    0.0
                (S)    21 38.00
     S.D. = 0.2  on   4 of   4 obs.
-------------------------------------
%  OCT  24, 1993  13h 27m 56.40± 2.32s
   16.403 N ±21.5km   99.215 W ±10.3km
   DEPTH =  33.0km  (normal)
 NEAR COAST OF GUERRERO, MEXICO   ( 58)

ACX     0.77 307 iP    28 11.08    0.2
                (S)    28 15.80
III     1.98 353 iP    28 27.87   -0.5
                (S)    28 52.00
OXX     2.48  74 iP    28 35.24   -0.3
                iS     29 04.94
PPM     2.71  12 iP    28 38.50   -0.5
IIA     2.78  11 iP    28 39.76    0.2
CRX     3.02 352 (P)   28 49.50    6.2X
IISM    3.11  34 (P)   28 45.24    1.0
MRX     3.78 331 (P)   28 59.28    5.5X
                (S)    29 47.19
     S.D. = 0.8  on   6 of   8 obs.
-------------------------------------
?  OCT  24, 1993  13h 42m 14.16± 3.13s
   16.309 N ±28.9km   99.169 W ±13.0km
   DEPTH =  33.0km  (normal)
 NEAR COAST OF GUERRERO, MEXICO   ( 58)

ACX     0.86 310 iP    42 30.18    0.2
                iS     42 42.26
III     2.08 352 iP    42 46.20   -1.3
                iS     43 12.30
OXX     2.47  72 iP    42 52.70   -0.4
                iS     43 25.04
PPM     2.79  11 iP    42 57.00   -0.9
CRX     3.12 351 (P)   43 03.50    1.0
IISM    3.17  32 iP    43 04.20    1.4
MRX     3.89 331 (P)   43 20.68    7.6X
                (S)    44 11.95
LVVM    4.28  37 (P)   43 28.50    9.9X
     S.D. = 1.4  on   6 of   8 obs.
-------------------------------------
*  OCT  24, 1993  13h 59m 35.06± 1.71s
   23.206 S ±17.0km   66.575 W ±25.6km
   DEPTH = 224.8 ± 14.6 km
 JUJUY PROVINCE, ARGENTINA        (128)

SLA     1.81 147 iPd   00 14.30    0.1
                S      00 43.60
MOCB    2.13  24 P     00 17.50   -0.1
CNCB    6.50 348 iPc   01 11.00    0.7
                S      02 25.00
LPB     6.79 348 eP    01 14.00    0.1
                S      02 32.00
LPAZ    7.04 348 iPc   01 16.50   -0.8
                S      02 33.30
VAO    18.04  93 eP    03 31.70   -0.5
BAO    19.06  70 eP    03 43.40    0.5
     S.D. = 0.8  on   7 of   7 obs.
-------------------------------------
%  OCT  24, 1993  14h 12m 35.32± 0.89s
   39.634 N ± 7.6km   29.409 E ± 8.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 2.8 (ISK).

DST     0.60 268 ePg   12 47.30   -0.2
                eSg    12 58.30
ALT     0.79 137 ePg   12 51.00    0.2
EYL     1.09  31 ePn   12 55.20   -0.7
HRT     1.20   9 ePn   12 58.20    0.4
ISK     1.45 350 ePn   13 02.00    0.4
     S.D. = 0.7  on   5 of   5 obs.
-------------------------------------
   OCT  24, 1993  14h 17m 59.80± 1.00s
   41.232 N ± 9.8km   28.963 E ± 6.5km
   DEPTH =   5.0km  (geophysicist)
 TURKEY                           (366)
      ML 3.0 (ISK).

ITU     0.13 163 iPgc  18 03.00    0.5
                iSg    18 07.00
ISK     0.18 156 iPg   18 03.50    0.0
                eSg    18 09.20
HRT     0.67 127 ePg   18 12.20   -1.1
IZI     0.97 156 ePn   18 18.00   -0.8
DMK     1.08 303 iPn   18 20.50   -0.1
EYL     1.12 126 iPn   18 20.70   -0.7
EDC     1.22 224 ePn   18 23.30    0.4
MFT     1.35 251 ePn   18 24.20   -1.0
GPA     1.39 132 ePn   18 27.10    1.2
     S.D. = 0.9  on   9 of   9 obs.
-------------------------------------
*  OCT  24, 1993  14h 28m 22.59± 1.25s
   14.057 S ±11.8km  167.491 E ±21.5km
   DEPTH =  33.0km  (normal)
   4.7mb (  6 obs.)
 VANUATU ISLANDS                  (186)

BKM     3.66 169 iPc   29 19.00    0.7
                iS     30 07.00
DZM     8.03 187 iPc   30 19.00   -1.0
                i      31 57.90
HNR     8.70 301 eP    30 29.00   -0.2
ARMA   21.88 219 eP    33 17.90    3.2X
       1.1s    21.00nm          4.5mb
STK    29.60 229 eP    34 28.00    1.0
       2.5s     4.50nm          3.8mb
ASPA   33.12 248 eP    34 56.70   -1.3
       1.1s     9.50nm          4.6mb
     Z  21s     0.60um          4.3Msz
WARB   40.05 246 eP    35 57.00    0.4
       0.8s    22.00nm          5.0mb
BJI    71.88 321 eP    39 45.00    0.6
LZH    78.03 312 eP    40 21.50    1.6
       1.5s    19.00nm          4.9mb
     Z  12s     0.26um          4.8MszX
                pP     40 28.00   21kmX
YAK    81.43 343 eP    40 35.50   -1.9
       1.5s    28.00nm          5.1mb
     S.D. = 1.3  on   9 of  10 obs.
-------------------------------------
   OCT  24, 1993  14h 39m 11.23± 0.77s
   58.364 N ± 6.4km  150.993 W ± 4.1km
   DEPTH =  10.0km  (geophysicist)
 GULF OF ALASKA                   ( 15)
      ML 2.5 (AEIC).

SYI     0.77 289 eP    39 25.91   -0.4
                eS     39 36.92
KDC     1.01 233 eP    39 29.90   -0.4
                eS     39 41.84
XLV     1.16 341 eP    39 33.84    1.0
CNPM    1.17 354 eP    39 34.22    1.1
HOM     1.34 346 eP    39 36.64    0.7
                eS     39 55.84
BRLK    1.41   2 eP    39 37.35    0.5
CDD     1.50 293 eP    39 37.73   -0.4
AUI     1.60 309 eP    39 41.01    1.4
                eS     40 01.62
AUP     1.61 309 eP    39 40.49    0.6
AUH     1.62 309 eP    39 40.96    1.0
AUL     1.63 310 eP    39 41.33    1.3
AUW     1.64 309 eP    39 40.76    0.6
NNL     1.69 355 eP    39 41.60    0.7
OPT     1.74 319 eP    39 41.95    0.3
SEW     1.92  24 eP    39 44.40    0.2
MCNL    1.93 297 eP    39 44.44    0.1
ILIM    2.00 330 eP    39 44.84   -0.6
                eS     40 13.51
PDB     2.18 312 eP    39 48.14    0.1
SLKM    2.19  10 eP    39 47.92   -0.3
RED     2.25 337 eP    39 48.14   -1.1
MPA     2.29  21 eP    39 49.77    0.2
RS2     2.29 338 eP    39 48.74   -1.1
REF     2.30 338 eP    39 48.98   -1.0
                eS     40 22.09
RDW     2.32 337 eP    39 49.17   -1.1
RDT     2.33 343 eP    39 49.29   -1.0
DFR     2.40 340 eP    39 50.11   -1.1
NCT     2.42 337 eP    39 50.44   -1.1
BKG     2.79 347 eP    39 55.38   -1.4
PWL     2.84  27 eP    39 57.48    0.0
CKT     2.91 348 eP    39 57.30   -1.2
CKL     2.92 347 eP    39 57.74   -0.9
CP2     2.98 348 eP    39 59.21   -0.3
PMS     2.98  13 P     39 59.20   -0.2
BGL     2.99 347 eP    39 59.57   -0.1
CGLM    3.00 351 eP    39 59.71    0.0
HIN     3.07  47 eP    40 01.12    0.4
NCG     3.11 350 eP    40 00.87   -0.4
CFI     3.26  29 eP    40 02.95   -0.5
KNK     3.31  22 eP    40 04.84    0.6
FID     3.32  42 eP    40 03.43   -0.8
PWA     3.34   9 P     40 05.10    0.5
SKT     3.64 356 eP    40 08.45   -0.3
KLU     4.04  37 eP    40 14.69    0.1
FBA     6.73  12 eP    40 54.35    1.8
     S.D. = 0.8  on  44 of  44 obs.
-------------------------------------
?  OCT  24, 1993  14h 54m 34.39± 0.92s
   39.703 N ± 8.4km   29.461 E ± 8.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 2.6 (ISK).

DST     0.65 262 ePg   54 47.30   -0.1
                eSg    54 58.30
ALT     0.82 142 ePg   54 50.10   -0.2
                eSg    55 01.60
EYL     1.01  32 ePn   54 53.70    0.0
KHL     1.38 178 ePn   55 00.00    0.3
     S.D. = 0.4  on   4 of   4 obs.
-------------------------------------
   OCT  24, 1993  15h 14m 35.39± 0.43s
   13.576 S ± 9.2km  167.989 E ± 8.5km
   DEPTH =  33.0km  (normal)
   4.7mb ( 11 obs.)  4.7Msz (  2 obs.)
 VANUATU ISLANDS                  (186)

BKM     4.08 177 iPc   15 36.50   -0.5
                iS     16 20.50
DZM     8.58 190 iPc   16 34.90   -5.4X
                iS     18 13.80
HNR     8.89 297 eP    16 45.00    0.4
                eS     18 27.00
PMG    20.82 279 eP    19 18.00    1.2
CTA    21.78 250 P     19 29.89    3.5X
ARMA   22.56 219 eP    19 35.20    1.0
       1.1s    37.00nm          4.8mb
STK    30.28 229 iPd   20 46.10    0.3
       0.6s     8.40nm          4.7mb
WR2    32.77 254 eP    21 06.50   -1.3
       0.7s     6.20nm          4.6mb
WRA    32.79 254 P     21 04.00   -4.0X
       1.2s     2.90nm          4.1mb
ASPA   33.75 248 eP    21 14.70   -1.6
       0.7s    11.60nm          4.9mb
     Z  20s     1.60um          4.7Msz
                eS     26 24.70
WARB   40.68 246 iPc   22 15.30    0.7
       0.4s     4.00nm          4.5mb
CHTO   75.25 294 eP    26 17.50    0.2
LZH    78.07 312 eP    26 29.00   -3.9X
       1.8s    18.00nm          4.8mb
     Z  20s     0.31um          4.6Msz
PMR    82.19  19 eP    26 52.63   -1.5
       1.0s    10.97nm          4.9mb
KLU    83.17  20 eP    26 58.73   -0.6
IMA    84.36  15 eP    27 04.45   -0.9
       1.1s     5.84nm          4.7mb
FBA    85.05  17 eP    27 07.01   -1.6
       1.2s    27.25nm          5.3mb
BONR   85.83  50 (P)   27 13.57    0.1
TNP    86.67  50 eP    27 18.42    0.9
       0.8s     3.01nm          4.6mb
ARUT   89.41  51 eP    27 30.10   -0.5
MSU    90.57  51 eP    27 36.42    0.4
HVU    91.09  47 (P)   27 39.57    1.3
PV09   92.87  51 (P)   27 48.31    1.6
PV08   93.25  51 (P)   27 49.03    0.5
     S.D. = 1.1  on  20 of  24 obs.
-------------------------------------
   OCT  24, 1993  15h 36m 08.67± 0.25s
```

```
   55.621 S ±10.3km  128.041 W ± 7.0km
   DEPTH =  10.0km  (geophysicist)
   5.3mb ( 16 obs.)  5.5Msz ( 35 obs.)
 PACIFIC-ANTARCTIC RIDGE          (691)
      Mw 5.8 (HRV).
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 51S, **C
      Centroid Location:
      Origin Time        15:36:16.1 0.2
      Lat 55.64S 0.02 Lon 127.73W 0.03
      Dep  15.0 FIX Half-duration  2.0
      Moment Tensor;   Scale 10**17 Nm
        Mrr=-0.92 0.08  Mtt= 4.50 0.10
        Mff=-3.58 0.08  Mrt= 1.99 0.28
        Mrf=-0.71 0.25  Mtf= 3.95 0.10
       Principal Axes:
        T  Val=  6.46  Plg=12  Azm=339
        N       -0.83      68      103
        P       -5.63      17      245
      Best Double Couple:Mo=6.1*10**17
       NP1:Strike= 23 Dip=69 Slip=-176
       NP2:       292      87      -21

SBA    31.21 202 iPc   42 30.20   0.6
                S      47 52.00
SPA    34.56 180 iPc   42 57.90  -1.3
DRV    41.61 217 eP    44 00.00   2.3X
                S      50 24.00
PEL    45.18  85 iPd   44 28.10   0.8
       1.0s    80.00nm          5.6mb
RFA    45.25  88 ePd   44 27.00  -0.8
RTCB   47.48  85 ePc   44 44.00  -1.5
CFA    47.71  86 e(P)  44 47.30   0.1
RTLL   47.78  85 ePd   44 46.50  -1.3
MRA    48.54  88 e(P)d 44 53.40  -0.2
TCA    49.97  88 eP    45 03.00  -1.7
NVL    50.71 164 iPc   45 10.00   0.3
       2.0s    37.00nm          5.0mb
     Z  17s     7.50um          5.8MszX
     N  17s     4.50um
                e      45 28.00
                e      45 45.00
                ePcP   46 23.00
                ePP    47 02.00
                ePPP   48 09.00
                eS     52 30.00
                eScS   54 52.00
                eSS    56 30.00
                eSSS   57 55.00
SLA    54.52  82 eP    45 38.50  -0.5
YJA    56.53  80 ePd   45 52.50  -1.4
MOCB   57.19  80 P     45 56.90  -1.7
CNB    57.74 254 eP    46 01.70  -0.2
       1.2s    53.00nm          5.4mb
ARE    57.86  71 eP    46 03.00  -0.1
TOO    58.14 249 iPc   46 04.60   0.0
       0.9s    55.00nm          5.6mb
DZM    58.28 277 iPc   46 09.00   3.2X
CNCB   59.48  74 P     46 15.00   0.3
LPB    59.64  74 P     46 16.80   1.1
       1.0s    80.00nm          5.8mb
     Z  24s     8.53um          5.8MszX
                S      54 30.00
                LR     04 14.00
LPAZ   59.82  74 P     46 16.00  -1.2
       1.2s    40.50nm          5.4mb
     Z  24s     0.27um          4.3MszX
                S      54 34.70
                LR     04 08.00
CCH    60.03  77 P     46 18.10  -0.1
ARMA   60.19 259 eP    46 22.20   3.3X
       0.9s    20.00nm          5.2mb
BKM    60.80 282 iP    46 17.00  -6.0X
RSTA   63.90  96 eP    46 44.40   0.7
STK    64.55 250 P     46 46.90  -1.0
PPD    64.66  92 eP    46 48.20  -0.5
VAO    66.35  96 eP    47 01.10   1.4
BDFB   71.62  91 eP    47 30.96  -1.4
       1.2s    18.90nm          5.1mb
QIS    74.59 256 eP    47 48.20  -1.3
ASPA   75.18 250 iPd   47 50.90  -2.0
       1.6s    17.30nm          4.8mb
     Z  20s     6.40um          5.9Msz
                i      47 55.60
                eS     57 33.90
WR2    77.95 252 eP    48 07.10  -1.3
       0.6s    11.10nm          5.1mb
                i      48 13.40
WRA    77.97 252 P     48 07.30  -1.2
       0.6s     7.00nm          4.9mb
HON    80.76 332 P     48 30.00   6.6X
     Z  20s     4.13um          5.8Msz
LTX    87.15  21 eP    48 53.93  -1.8
SUR    88.39 154 eP    49 06.50   4.4X
       1.0s    70.00nm          5.9mb
TUC    88.82  15 eP    49 04.42   0.8
       1.6s    51.30nm          5.6mb
     Z  20s     1.63um          5.4Msz
PLM    89.13   9 eP    49 05.14  -0.1
PEC    89.64   9 (P)   49 08.33   0.9
       1.8s    36.45nm          5.3mb
GSC    91.07   9 eP    49 14.10   0.0
ISA    91.29   8 P     49 30.00  15.0X
     Z  20s     3.70um          5.8Msz
ALQ    92.07  18 eP    49 17.92  -0.9
       0.8s     9.01nm          5.2mb
SAO    92.19   5 P     49 30.00  10.9X
     Z  18s     4.06um          5.9Msz
TPNV   92.75   9 P     49 30.00   8.1X
     Z  20s     4.92um          6.0Msz
WMOK   93.41  24 P     49 30.00   5.2X
     Z  19s     1.12um          5.3Msz
MEO    93.50  24 e(P)  49 24.00  -1.2
CMB    93.52   6 (P)   49 25.47   0.3
       1.1s     5.83nm          4.9mb
     Z  20s     2.24um          5.6Msz
ARUT   93.87  12 eP    49 28.41   1.4
MIAR   94.52  28 P     49 40.00  10.2X
     Z  21s     0.67um          5.1Msz
MSU    94.74  12 eP    49 31.73   0.7
PV10   95.03  15 eP    49 31.32  -1.1
PV09   95.13  15 eP    49 33.20   0.2
PV08   95.28  15 (P)   49 33.33  -0.4
SRU    95.54  14 eP    49 35.07   0.4
DUG    96.32  12 P     49 50.00  11.8X
     Z  20s     1.44um          5.4Msz
GOL    96.90  17 P     49 50.00   9.1X
     Z  21s     1.37um          5.4Msz
GLD    96.97  18 P     49 50.00   8.9X
     Z  19s     1.50um          5.5Msz
FVM    98.61  29 P     50 00.00  11.8X
     Z  19s     0.92um          5.3Msz
CEH   100.26  38 Pdiff 50 10.00  14.0X
     Z  20s     0.87um          5.3Msz
NEW   103.92   7 Pdiff 50 20.00   8.0X
     Z  22s     8.82um          6.3Msz
YSNY  106.35  36 PKP   54 40.00   5.8X
     Z  20s     0.65um          5.2Msz
BINY  106.97  38 PKP   54 40.00   4.6X
     Z  20s     0.90um          5.3Msz
LSCT  107.50  40 PKP   54 50.00  13.6X
     Z  19s     1.30um          5.5Msz
HRV   108.83  41 PKP   54 50.00  11.2X
     Z  21s     0.85um          5.3Msz
LBNH  110.20  39 PKP   54 50.00   8.6X
     Z  20s     1.13um          5.4Msz
SIT   112.48 356 PKP   54 50.00   4.8X
     Z  20s     2.45um          5.8Msz
CBM   113.88  40 PKP   55 00.00  11.6X
     Z  18s     0.85um          5.4Msz
PMR   118.04 349 PKP   55 10.00  14.2X
     Z  21s     2.45um          5.8Msz
SMY   118.05 324 PKP   55 10.00  14.0X
     Z  20s     1.56um          5.6Msz
FBA   121.14 350 ePKP  55 00.83  -0.8
IMA   122.91 348 ePKP  55 04.92  -0.2
CHTO  129.09 243 ePKP  55 18.10  -0.2
GYA   131.21 257 PKP   55 27.00   4.7X
     Z  28s     1.81um          5.6MszX
                PP     57 46.00
                PKS    58 54.00
MBC   131.71   3 ePKP  55 21.00  -0.6
       1.0s     3.00nm
CN2   133.22 288 ePKP  55 29.00   3.6X
     Z  20s     0.62um          5.3Msz
GBA   133.66 215 PKP   55 31.00   4.0X
XAN   135.70 265 ePKP  55 36.00   5.5X
BJI   135.82 277 ePKP  55 35.00   4.6X
CD2   136.26 258 ePKP  55 38.00   6.3X
TIY   136.33 272 ePKP  55 32.00   0.4
     Z  28s     1.78um          5.6MszX
HHC   138.96 275 ePKP  55 37.00   0.5
     Z  40s     2.01um          5.6MszX
BTO   139.67 273 ePKP  55 41.60   3.8X
LZH   140.04 263 ePKP  55 41.50   2.8
     Z  30s     1.49um          5.6MszX
                ePP    58 40.00
                eSS    17 00.00
LSA   142.04 243 PKP   55 42.50  -0.3
     Z  20s     1.25um          5.7Msz
     N  18s     0.94um
PKI   143.06 235 PKP   55 45.00   0.5
GUN   143.13 235 PKP   55 43.60  -1.0
DMN   143.24 234 PKP   55 45.20   0.5
KKN   143.31 235 PKP   55 46.00   1.3
GKN   143.79 234 PKP   55 41.80  -3.6X
CIT   144.48 291 ePKP  55 44.00  -1.7
GTA   144.65 263 PKP   55 45.00  -1.5
     Z  20s     0.86um          5.5Msz
     E  18s     0.68um
                PKPab  55 49.50
                pPKP   55 53.00
EPF   144.91  89 ePKP  55 45.80  -0.9
       1.9s   185.20nm
TIK   145.26 327 iPKPc 55 44.00  -2.4
                i      55 48.00
LFF   146.31  87 ePKP  55 49.80   0.8
       2.0s   236.75nm
LPO   146.41  87 ePKP  55 50.10   1.0
       2.1s   182.65nm
MFF   146.79  83 ePKP  55 51.00   1.3
       1.2s    47.30nm
RJF   146.97  87 ePKP  55 51.60   1.6
       1.2s    37.80nm
     Z  19s     0.77um          5.5Msz
CAF   147.06  88 ePKP  55 52.20   2.0
       1.5s    53.30nm
LPF   147.10  81 ePKP  55 51.60   1.5
       1.2s    57.70nm
LSF   147.54  85 ePKP  55 52.90   2.0
       1.5s    98.20nm
DAG   147.62  24 iPKPd 55 51.60   1.5
       0.8s     9.70nm
FLN   147.81  80 ePKP  55 52.10   0.9
       1.2s    38.10nm
     Z  21s     0.88um          5.5Msz
TCF   147.94  86 ePKP  55 54.30   2.7X
       1.4s    59.25nm
MAF   148.11  86 ePKP  55 54.70   2.9X
       2.0s    97.95nm
COLF  148.33  88 PKP   55 56.51   4.3X
BGF   148.46  86 ePKP  55 55.50   3.1X
       1.2s    44.05nm
LRG   148.59  93 ePKP  55 56.40   3.8X
       1.2s    54.45nm
     Z  20s     1.45um          5.8Msz
SSB   148.67  89 PKP   55 58.24   5.4X
FRF   148.82  93 ePKP  55 56.80   3.8X
       1.1s    35.40nm
AVF   148.88  86 ePKP  55 56.40   3.4X
       1.4s    43.55nm
SMF   149.07  86 ePKP  55 57.00   3.7X
       1.4s    75.35nm
SSF   149.12  85 ePKP  55 56.80   3.4X
       1.9s    77.50nm
ZAK   149.27 282 ePKP  55 57.00   3.6X
       1.2s     8.00nm
                e      56 00.50
                e      02 51.00
LBF   149.34  86 ePKP  55 57.50   3.7X
       1.6s    74.65nm
LOR   149.43  85 ePKP  55 57.80   3.9X
     Z  22s     1.13um          5.6Msz
EKA   149.45  67 PKPc  55 59.10   5.5X
       0.8s     9.30nm
PGF   149.50  97 ePKP  56 01.00   6.7X
IRK   149.61 286 ePKPc 55 53.00  -1.0
       1.8s    83.00nm
                e      59 28.00
LPG   150.06  91 ePKP  56 00.70   5.5X
       1.3s    44.05nm
LPL   150.06  91 ePKP  56 00.50   5.4X
       1.2s    29.15nm
HAU   151.25  86 ePKP  56 02.10   5.5X
       0.9s    12.80nm
     Z  22s     1.58um          5.8Msz
DOU   151.34  81 PKP   56 06.80  10.2X
SNF   151.37  80 PKP   56 06.60  10.0X
BSF   151.40  87 ePKP  56 02.60   5.7X
       1.0s    29.40nm
```

24d 15h

```
UCC   151.55  80 PKP   56 05.00   8.1X
CDF   151.99  86 ePKP  56 03.80   6.0X
       1.1s    12.95nm
WLF   152.00  83 PKP   56 11.00  13.5X
ENN   152.41  81 ePKP  56 09.50  11.4X
       1.0s    30.00nm
QUE   152.43 209 ePKP  55 57.00  -2.1
WTS   153.46  79 ePKP  56 08.00   8.5X
       1.0s    14.10nm
SQTA  153.57  91 i(PKP)56 09.50   9.4X
SHI   154.03 181 ePKP  56 06.00   4.7X
WMQ   154.36 258 ePKP  56 03.50   2.3
GRF   154.87  86 ePKP  56 04.10   2.5X
     Z  22s     0.60um          5.4Msz
                e     56 15.30
OHR   154.99 112 ePKP  55 56.00  -6.1X
MOX   155.55  85 ePKP  56 05.90   3.4X
       2.2s    58.00nm
     Z  21s     1.00um          5.6Msz
GEC2  155.86  90 PKP   56 01.80  -1.3
       1.5s     4.52nm
                e     56 07.40
KHC   155.93  89 ePKP  56 05.00   1.9
       1.0s     6.40nm
     Z  20s     1.10um          5.7Msz
     N  20s     0.70um
     E  20s     0.70um
                e     56 08.00
                e     56 36.00
                e     57 11.50
SKO   155.94 112 iPKP  56 05.50   2.2
                i     56 36.60
VAY   156.06 114 ePKP  55 57.00  -6.4X
CLL   156.63  84 ePKP  56 07.00   3.1X
       2.3s   100.00nm
                e     56 38.00
PRU   156.90  88 ePKP  56 09.00   4.7X
                e     56 40.00
BRG   156.97  86 iPKP  56 09.40   5.1X
KSH   157.28 235 ePKP  56 06.50   1.2
     Z  24s     1.34um          5.7MszX
     N  20s     2.04um
     E  20s     1.20um
                PP    00 19.00
ZST   157.44  95 ePKP  56 07.80   2.8X
                e     00 20.30
SRO   157.92  97 ePKP  56 06.20   0.7
KSP   158.29  88 ePKP  56 08.00   2.1
NRI   158.81 325 ePKP  56 05.00  -0.9
       3.0s   118.00nm
                i     56 47.00
                e     00 23.00
MAIO  160.00 198 ePKP  56 13.00   4.6X
FRU   160.55 238 ePKP  56 12.00   3.4X
     Z  28s     1.70um
                e     56 50.00
                e     00 33.00
MLR   160.73 111 ePKP  56 11.00   2.1
                e     00 33.00
                e     23 38.00
CFR   161.67 115 ePKP  56 12.00   2.4X
SVE   175.01 287 ePKPd 56 09.00  -9.0X
     Z  19s     1.50um          6.5Msz
     N  19s     1.00um
     E  19s     0.70um
     S.D. = 1.3  on  79 of 153 obs.
-------------------------------------
   OCT  24, 1993  15h 59m 30.36± 0.43s
    8.189 S ± 5.4km  149.317 E ± 6.6km
   DEPTH =  33.0km  (normal)
   4.7mb ( 18 obs.)  4.8Msz (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G.  (207)
      ML 4.9 (PMG).

PMG     2.45 240 iPd   00 11.20   2.3
                eS    00 42.50
LAT     2.75 303 eP    00 12.00  -1.1
YYYY    3.84 300 eP    00 30.40   1.6
MDG     4.57 310 ePc   00 39.90   0.9
RAB     4.87  36 eP    00 44.50   1.2
       0.7s   219.18nm
KVG     5.76  15 eP    00 57.50   1.7
MNDI    5.97 289 eP    01 00.00   1.0
WWKK    7.25 308 eP    01 16.90   0.0
JAY    10.26 303 ePd   01 49.90  -8.6X
                eS    03 43.00
HNR    10.58  97 eP    02 19.00  16.2X
                eS    04 22.00
QIS    15.47 216 eP    03 09.20   1.3
WR2    18.61 230 eP    03 47.10  -0.2
       0.5s    22.70nm          4.6mb
                eS    06 27.70
BKM    20.69 119 iPc   04 14.50   4.1X
ASPA   21.33 222 eP    04 14.60  -2.3
       0.6s    10.90nm          4.4mb
                i     04 17.80
                i     04 27.50
                eS    08 00.40
DZM    21.50 132 iPc   04 20.60   1.9
ARMA   22.22 175 eP    04 24.10  -1.8
       1.1s    27.00nm          4.6mb
STK    24.65 196 eP    04 50.30   1.0
       1.0s     5.30nm          4.1mb
WARB   28.01 228 eP    05 21.00   0.4
       0.4s     3.00nm          4.3mb
MAT    45.70 347 iPd   07 49.50  -0.6
       1.0s    17.00nm          4.9mb
     Z  20s     1.06um          4.8Msz
SSE    47.45 327 Pd    08 04.00   0.0
       1.0s    13.00nm          4.9mb
     Z  20s     0.90um          4.7Msz
NJ2    49.47 325 Pc    08 20.00   0.4
     Z  24s     0.63um          4.5MszX
TIA    53.54 328 Pd    08 49.30  -0.9
XAN    56.82 320 P     09 13.00  -1.2
       1.0s     8.90nm          4.7mb
     Z  34s     1.67um          4.9MszX
BJI    56.93 330 eP    09 14.00  -0.7
       1.5s    14.00nm          4.8mb
     Z  24s     0.64um          4.6MszX
BTO    60.55 326 eP    09 39.80  -0.3
LZH    61.36 319 Pd    09 45.50  -0.2
       1.5s    29.00nm          5.2mb
                pP    09 50.00  15kmX
                sP    09 52.50
GTA    65.88 320 eP    10 15.20  -0.1
       1.5s    12.00nm          4.8mb
LSA    67.38 307 P     10 25.50   0.0
       0.7s     7.00nm          4.9mb
GUN    70.98 303 P     10 47.20  -0.4
       0.6s    28.00nm          5.5mb
PKI    71.26 303 P     10 48.20  -1.0
KKN    71.44 303 P     10 49.60  -0.5
       0.6s    14.00nm          5.2mb
DMN    71.52 303 P     10 50.40  -0.3
       0.8s    23.00nm          5.3mb
GKN    72.05 303 P     10 53.20  -0.5
GBA    74.56 287 P     11 07.80  -0.5
       0.6s     2.00nm          4.3mb
SLKM   83.19  26 eP    11 54.04  -0.4
IMA    84.79  20 (P)   12 02.90   0.3
       1.0s     3.25nm          4.5mb
FBA    86.30  22 eP    12 08.98  -0.9
       0.6s     1.57nm          4.4mb
     S.D. = 1.1  on  34 of  37 obs.
-------------------------------------
%  OCT  24, 1993  16h 05m 42.00± 1.56s
   26.785 S ±12.8km   26.564 E ±12.1km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA         (584)
      ML 3.6 (PRE).

BFS     0.23 120 iPc   05 46.70   0.0
                S     05 47.90
SEK     1.80 149 eP    06 13.90  -0.2
                S     06 34.40
SLR     1.86  56 iPc   06 15.00   0.0
                S     06 36.50
BLF     2.34 188 iPc   06 23.00   1.1
                S     06 52.10
FRS     3.15 200 iPd   06 33.50   0.3
                S     07 10.00
HVD     3.92 194 eP    06 43.00  -1.3
                S     07 28.00
GRM     6.51 180 eP    07 32.50  11.7X
                S     08 42.00
SUR     7.49 221 eP    07 43.00   8.2X
                S     09 24.00
WIN     9.58 294 eP    07 53.00 -10.7X
                S     10 26.00
     S.D. = 1.0  on   6 of   9 obs.
-------------------------------------
   OCT  24, 1993  16h 21m 08.49± 1.05s
   35.168 N ± 9.6km   26.640 E ± 4.7km
   DEPTH =  41.7 ±  9.2 km
   4.3mb ( 16 obs.)
 CRETE                            (370)
      MD 4.2 (ATH).

NPS     0.85 277 iPnc  21 23.60  -0.5
CIN     2.69  25 eP    21 51.00   0.7
IZM     3.26   9 ePn   21 57.40  -1.0
VLI     3.38 298 ePn   22 00.00  -0.1
ATH     3.66 321 ePn   22 06.00   2.0
KHL     3.91  35 ePn   22 08.00   0.3
BCK     3.92  53 ePn   22 08.00   0.1
PRK     4.08 356 ePn   22 09.20  -0.8
EZN     4.66 357 iPn   22 16.30  -1.8
PPCY    4.69  92 eP    22 18.00  -0.6
DST     4.70  19 ePn   22 18.70  -0.2
ALT     4.77  35 ePn   22 19.60  -0.3
AGG     5.16 319 eP    22 26.94   1.6
EDC     5.26  10 ePn   22 26.00  -0.7
BNT     5.28  11 ePn   22 27.00   0.1
PAIG    5.30 335 eP    22 26.54  -0.7
CSS     5.49  90 eP    22 28.00  -2.0
                eS    23 31.50
OUR     5.57 339 eP    22 33.62   2.6
MFT     5.63   5 ePn   22 33.20   1.2
VLS     5.71 303 ePn   22 35.50   2.4
ALN     5.74 355 eP    22 33.46   0.0
LIT     5.92 327 eP    22 36.94   0.9
RDO     6.03 352 ePn   22 36.50  -1.0
FAM     6.04  90 eP    22 36.00  -1.6
HRT     6.13  22 eP    22 35.00  -3.9X
THE     6.18 333 eP    22 40.54   1.0
SOH     6.21 336 eP    22 42.98   2.9X
SRS     6.41 339 eP    22 45.82   3.0X
KZN     6.42 324 ePn   22 45.00   2.0
IGT     6.65 313 eP    22 45.66  -0.5
KNT     6.67 335 eP    22 47.10   0.6
VAY     6.93 334 ePn   22 53.00   3.0X
KEK     7.08 312 ePn   22 51.00  -1.3
OHR     7.51 324 ePn   22 55.00  -3.3
                e     22 55.50
SKO     7.92 331 ePn   23 07.00   3.1
PGF    15.58 303 eP    24 51.20   4.4X
GEC2   16.68 329 Pn    25 03.00   2.3X
KHC    16.95 329 eP    25 06.50   2.5X
       0.8s     4.10nm          3.6mb
                e     25 17.50
                e     26 04.00
PRU    17.25 333 eP    25 07.90   0.2
                e     25 12.50
BRG    18.19 334 e(P)  25 18.40  -1.0
LPG    18.29 310 eP    25 22.20   1.2
       0.8s    11.30nm          4.1mb
LPL    18.31 310 eP    25 22.30   1.1
       0.9s     9.50nm          4.0mb
GRF    18.39 327 eP    25 20.00  -1.8
BSF    19.45 317 eP    25 32.30  -2.2
HAU    19.80 317 eP    25 37.10  -1.0
SMF    20.62 311 eP    25 46.10  -0.6
       0.5s     7.30nm          4.3mb
LBF    20.68 312 eP    25 46.10  -1.3
       1.0s    27.20nm          4.6mb
LOR    20.89 312 eP    25 48.20  -1.2
       0.8s     8.60nm          4.2mb
AVF    20.98 311 eP    25 49.40  -1.0
       0.9s    12.80nm          4.3mb
SSF    21.01 311 eP    25 49.70  -0.9
       1.0s    41.20nm          4.7mb
BGF    21.20 310 eP    25 51.90  -0.7
       0.6s     7.60nm          4.2mb
RJF    21.61 306 eP    25 56.90   0.2
       0.9s    14.60nm          4.4mb
LPO    21.64 304 eP    25 57.20   0.2
       0.9s     7.85nm          4.1mb
DOU    21.92 320 P     25 59.20  -0.5
       0.5s     8.50nm          4.4mb
LDF    23.87 312 eP    26 18.60  -0.2
FLN    24.16 313 eP    26 21.60   0.0
       0.5s     6.65nm          4.4mb
LPF    24.22 311 eP    26 22.20   0.0
GRR    24.24 311 eP    26 22.30  -0.1
       0.4s     5.90nm          4.5mb
EKA    28.74 324 Pc    27 07.60   3.7X
       1.2s    10.50nm          4.4mb
GKN    49.33  81 P     29 57.40   1.6
DMN    49.87  82 P     30 01.80   1.7
KKN    49.93  81 P     30 02.00   1.5
```

```
PKI     50.13  82 P      30 03.60    1.4
GUN     50.37  81 P      30 05.60    1.6
GBA     50.39 102 P      30 09.00    5.2X
         0.5s     2.00nm          4.4mb
      S.D. = 1.3  on  56 of  65 obs.
-------------------------------------
&  OCT  24, 1993  16h 48m 37.40s
   32.320 N          115.065 W
   DEPTH =    6.0km  (geophysicist)
 CALIF.-BAJA CALIF. BORDER REGION( 45)
      <PAS-P>. ML 2.8 (PAS).

GLA      0.76  15 ePd   48 50.59   -2.0
PLM      1.83 305 ePn   49 07.88   -1.9
PEC      2.36 312 ePn   49 15.59   -1.7
SSK      2.90 311 (Pn)  49 21.72   -3.4
GSC      3.31 335 (Pn)  49 27.92   -2.9
TUC      3.62  89 (Pn)  49 33.48   -1.8
         6 obs. associated
-------------------------------------
   OCT  24, 1993  16h 55m 47.32± 0.57s
   41.389 S ± 5.9km  172.206 E ± 6.6km
   DEPTH =  33.0km  (normal)
 SOUTH ISLAND, NEW ZEALAND        (162)
      ML 4.3 (WEL).

DSZ      0.47 220 Pc     55 56.30   -1.2
                  eS     56 03.50
QRZ      0.61  24 Pc     55 58.70   -0.8
                  S      56 07.40
THZ      0.64 126 Pd     55 55.90   -4.1X
                  eS     56 02.70
LTZ      1.39 178 P      56 11.50    0.8
DIW      1.42  66 P      56 10.60   -0.5
KHZ      1.43 136 Pd     56 11.30    0.1
TCW      1.57  84 P      56 12.50   -0.7
MRW      1.89  86 P      56 17.90    0.1
WEL      1.93  88 P      56 19.30    0.8
KIW      2.11  76 P      56 21.90    0.9
CAW      2.18  84 P      56 22.70    0.8
BLW      2.46  91 eP     56 25.10   -0.9
MTW      2.49  86 P      56 26.00   -0.5
BSZ      2.61  53 eP     56 29.80    1.7
PGZ      3.17  77 eP     56 33.70   -2.3
CNZ      3.36  51 P      56 40.00    1.1
NGZ      3.41  51 eP     56 40.00    0.4
MOZ      3.50  36 P      56 41.10    0.3
BWZ      3.57 208 eP     56 42.80    1.1
ODZ      3.83 197 eP     56 44.20   -1.1
WLZ      4.38  38 eP     56 53.30    0.0
PAHZ     4.49  57 eP     56 51.70   -3.2X
MSZ      4.54 222 eP     56 56.20    0.7
KUZ      5.38  32 eP     57 06.60   -0.7
      S.D. = 1.0  on  22 of  24 obs.
-------------------------------------
*  OCT  24, 1993  17h 49m 56.28± 0.78s
   19.677 N ±10.9km   70.381 W ± 7.5km
   DEPTH =  33.0km  (normal)
   4.0mb (  1 obs.)
 DOMINICAN REPUBLIC REGION        ( 88)

MCP      3.34 111 P      50 47.80    0.4
MGP      3.53 118 P      50 52.00    1.8
APR      3.66 109 P      50 51.70   -0.3
PNP      3.85 114 P      50 56.50    1.8
CLLP     3.94 113 P      50 55.70   -0.2
SJG      4.30 111 P      51 00.50   -0.6
LPR      4.48 107 P      51 02.00   -1.7
CPD      4.53 110 P      51 03.50   -0.9
TOV      9.85 177 eP     52 19.50    0.7
SDV     10.73 181 eP     52 30.40   -0.6
TUL     27.57 311 iPc    55 42.90    0.5
MEO     29.12 307 iPc    55 56.20   -0.2
LPAZ    35.81 176 eP     57 03.00    7.6X
CNCB    36.34 176 eP     56 59.00   -0.8
GEC2    71.61  44 P      01 24.10    7.5X
         1.5s     2.33nm          4.0mb
      S.D. = 1.1  on  13 of  15 obs.
-------------------------------------
   OCT  24, 1993  18h 03m 50.29± 0.91s
   23.236 N ± 4.5km  121.686 E ± 6.3km
   DEPTH =  37.6 ±  8.1 km
   4.5mb ( 28 obs.)
 TAIWAN                           (244)
      ML 4.2 (BJI).

QZH      3.30 302 iPnd  04 40.20   -0.5
     Z  15s     3.31um
                  Sn    05 15.20
PIP      4.99 192 iPd   05 06.00    1.3
CVP      5.50 179 iPc   05 14.00    2.0
                  iS    05 24.00
HKC      7.00 264 iP    05 32.70   -0.3
                  iS    06 44.50
GZH      7.68 271 P     05 41.40   -1.1
SSE      7.84 357 eP    05 44.00   -0.8
     Z  16s     0.90um
                  S     07 14.50
                  sS    07 30.50
NJ2      9.13 345 Pd    06 01.50   -1.1
                  pP    06 08.80
WHN      9.79 320 ePd   06 09.70   -1.9
       0.7s    69.00nm          6.0mb X
                  sP    06 18.00
QIZ     11.82 251 eP    06 39.80    0.4
GYA     14.01 286 P     07 08.40   -0.2
       1.0s    24.00nm          4.9mb
     Z  14s     1.18um          4.7Msz
                  PP    07 18.40
XAN     15.52 317 eP    07 28.00   -0.2
       1.0s     8.90nm          3.9mb
     Z  16s     1.53um          5.8MszX
     N  20s     1.85um
     E  20s     2.40um
TIY     16.47 333 eP    07 45.60    5.4X
     Z  14s     1.66um
     N  11s     0.69um
BJI     17.39 346 eP    07 55.00    3.3X
       1.5s    23.00nm          4.1mb
     Z  16s     0.29um          4.6Msz
KMI     17.39 280 Pc    07 56.00    4.0X
       1.5s    50.00nm          4.4mb
     Z  16s     2.60um          5.2Msz
CD2     17.69 299 eP    07 57.20    1.7
       0.8s    19.00nm          4.3mb
     Z  14s     1.35um          4.4MszX
MAT     19.48  43 iPd   08 23.10    6.0X
       1.2s    26.56nm          4.4mb
HHC     19.52 336 P     08 13.80   -3.8X
       1.0s    20.00nm          4.4mb
BTO     19.91 333 eP    08 22.00    0.3
LZH     20.07 314 eP    08 24.00    0.5
       1.8s    24.00nm          4.2mb
     Z  16s     0.93um          4.2MszX
                  pP    08 29.00   19kmX
                  eS    12 04.00
CN2     20.75   8 eP    08 30.00   -0.2
       0.6s     5.70nm          4.1mb
NST     21.65 254 eP    08 42.70    3.1X
CHTO    21.67 263 ePd   08 41.60    1.8
       1.0s    20.75nm          4.5mb
MDJ     22.29  15 eP    08 47.00    1.3
GTA     24.58 316 eP    09 09.50    1.2
       1.2s     9.00nm          4.2mb
     Z  16s     1.14um          4.5MszX
     E  14s     0.56um
GUN     32.56 286 P     10 21.60    0.9
       0.6s    12.00nm          5.0mb
PKI     32.98 285 P     10 24.40    0.1
KKN     33.09 286 P     10 25.60    0.5
DMN     33.25 285 P     10 26.80    0.2
GKN     33.66 286 P     10 30.20    0.2
GBA     42.92 265 Pc    11 48.20    0.9
       0.6s     5.00nm          4.4mb
WRA     44.66 163 P     11 59.90   -1.4
       0.5s     4.30nm          4.6mb
WR2     44.67 163 eP    11 59.40   -2.0
       0.6s     8.70nm          4.8mb
QIS     46.90 157 eP    12 18.40   -0.7
ASPA    48.11 165 eP    12 27.20   -1.4
       0.3s     8.30nm          5.2mb
WARB    49.36 174 iPc   12 37.10   -1.1
       0.4s    14.00nm          5.3mb
MAIO    54.70 299 eP    13 19.00    0.7
STK     58.02 160 eP    13 40.50   -1.3
       0.6s     7.30nm          4.9mb
ARMA    60.60 150 eP    14 00.10    0.3
TOO     64.50 159 eP    14 25.00   -0.5
       0.9s    24.00nm          5.3mb
IMA     66.84  26 eP    14 42.09    1.7
       0.8s     3.79nm          4.5mb
CP2     68.05  31 eP    14 48.59    0.5
FBA     69.44  27 eP    14 58.70    2.3
       0.9s     5.00nm          4.5mb
KLU     70.99  30 (P)   15 06.65    0.7
KAF     72.20 331 eP    15 12.00   -1.1
       0.4s     1.80nm          4.4mb
NUR     73.43 329 eP    15 19.80   -0.5
INK     73.93  22 eP    15 24.00    0.9
MBC     74.08  13 eP    15 25.00    1.2
MLR     77.64 314 eP    15 44.00   -0.7
HFS     78.61 331 eP    15 47.90   -1.6
       0.5s     2.10nm          4.4mb
NB2     79.27 332 P     15 51.70   -1.5
       1.0s     7.00nm          4.6mb
KSP     81.46 322 iP    16 05.10    0.2
VAY     81.47 311 eP    16 04.60   -0.6
SKO     81.99 312 eP    16 07.70   -0.2
PRU     82.84 322 eP    16 11.80   -0.3
                  e     16 19.50
CLL     83.08 323 iP    16 12.10   -1.2
       1.2s    10.00nm          4.8mb
KHC     83.80 321 eP    16 17.50    0.4
                  e     16 23.30
GEC2    83.87 321 P     16 17.40   -0.1
       0.9s     3.26nm          4.5mb
                  e     16 21.50
                  e     16 27.90
GRF     84.87 322 eP    16 23.00    0.6
CDF     87.75 323 eP    16 37.20    0.5
       0.7s     1.55nm          4.4mb
HAU     88.49 323 eP    16 39.50   -0.7
LPG     89.65 320 eP    16 45.40   -0.7
LPL     89.65 320 eP    16 45.30   -0.7
SMF     90.67 322 eP    16 49.40   -1.0
       0.8s     3.65nm          4.8mb
LPAZ   168.46  55 PKP   23 56.60    1.2
CNCB   168.89  57 PKP   23 57.00    1.4
      S.D. = 1.1  on  59 of  65 obs.
-------------------------------------
   OCT  24, 1993  18h 16m 32.09± 0.38s
   41.955 S ± 5.6km  173.728 E ± 6.1km
   DEPTH =  77.1 ±  8.6 km
   3.7mb (  1 obs.)
 SOUTH ISLAND, NEW ZEALAND        (162)

CCW      0.42  61 Pc     16 45.60    0.6
KHZ      0.48 197 Pc     16 47.00    1.5
                  S      16 56.40
THZ      0.64 287 Pd     16 45.40   -1.8
                  S      16 53.20
TCW      0.85  29 P      16 48.90   -0.5
WEL      1.03  50 Pc     16 52.20    0.7
                  S      17 05.80
MRW      1.03  46 Pc     16 52.00    0.4
DIW      1.16   7 P      16 52.20   -1.1
CAW      1.31  50 Pc     16 55.80    0.6
LTZ      1.36 232 Pc     16 57.40    1.5
KIW      1.41  40 Pc     16 57.10    0.6
BLW      1.43  66 P      16 57.20    0.4
QRZ      1.44 321 P      16 56.70   -0.2
DSZ      1.45 278 Pc     16 57.70    0.6
MTW      1.55  60 Pc     16 58.50    0.1
MNG      1.88  45 Pc     17 02.90    0.1
MQZ      1.92 204 P      17 03.80    0.4
                  S      17 26.70
PGZ      2.34  56 P      17 08.20   -0.9
BSZ      2.34  23 P      17 10.50    1.4
WVZ      2.48 242 P      17 11.60    0.6
WAHZ     3.01  42 P      17 17.30   -1.2
NGZ      3.12  28 P      17 20.50    0.4
MOZ      3.54  14 P      17 26.70    0.9
                  S      18 04.50
BWZ      3.81 226 P      17 29.20   -0.3
ODZ      3.82 215 P      17 29.40   -0.2
MSCZ     4.44 224 P      17 37.80   -0.6
LRCZ     4.45 224 P      17 38.00   -0.7
LSCZ     4.47 224 P      17 38.20   -0.8
MHZ      4.48 225 P      17 38.00   -1.1
SBCZ     4.49 224 P      17 39.00   -0.2
URZ      4.51  36 P      17 36.40   -3.0
CMCZ     4.55 224 P      17 38.60   -1.4
TUZ      4.97 215 P      17 46.00    0.2
MSZ      5.03 235 eP     17 47.60    1.0
KUZ      5.43  17 eP     17 52.10   -0.1
HBZ      5.60  40 eP     17 49.90   -4.6X
WRA     39.81 291 P      24 01.50    2.2
       0.5s     0.50nm          3.7mb
      S.D. = 1.1  on  35 of  36 obs.
-------------------------------------
&  OCT  24, 1993  18h 25m 45.30s
```

24d 18h

```
   60.088 N          151.776 W
   DEPTH =  47.0km
 KENAI PENINSULA, ALASKA                ( 14)
      <AEIC>. ML 2.6 (AEIC).

NNL     0.24 101 iPc    25 54.67   1.0
HOM     0.44 171 eP     25 55.55  -0.1
                 eS     26 03.94
BRLK    0.55 126 eP     25 56.53  -0.6
                 eS     26 05.79
RDT     0.58 328 iPd    25 56.92  -0.6
                 eS     26 07.10
ILIM    0.59 270 iPd    25 56.84  -0.8
                 eS     26 06.52
RED     0.60 304 iPd    25 57.21  -0.6
                 eS     26 07.18
REF     0.61 312 iPd    25 57.53  -0.5
                 iS     26 07.93
RSO     0.62 308 eP     25 57.54  -0.6
RS2     0.62 308 iPd    25 57.64  -0.5
CNPM    0.63 154 ePc    25 57.26  -0.8
                 eS     26 07.55
INE     0.65 268 iPd    25 57.45  -1.0
                 eS     26 07.75
RDW     0.65 308 iPd    25 57.97  -0.6
DFR     0.68 319 iPd    25 58.08  -0.8
NKA     0.71  22 eP     26 00.36   1.2
NCT     0.75 310 iPd    25 59.06  -0.7
                 eS     26 10.12
OPT     0.85 240 eP     26 00.18  -1.0
                 eS     26 13.10
SLKM    0.88  61 eP     26 00.43  -1.1
AUE     1.09 229 eP     26 03.39  -1.0
AUL     1.10 231 eP     26 04.02  -0.5
AUP     1.11 230 eP     26 03.52  -1.2
                 eS     26 18.76
AUH     1.11 230 eP     26 04.02  -0.8
AUW     1.12 231 eP     26 03.89  -0.9
CKT     1.14 349 iPd    26 04.36  -0.8
                 eS     26 19.99
CKL     1.15 346 ePd    26 04.54  -0.8
CKN     1.16 350 ePd    26 04.91  -0.5
SEW     1.17  88 eP     26 05.11  -0.3
                 eS     26 21.07
CRP     1.20 351 ePd    26 04.93  -1.2
                 eS     26 20.87
CP2     1.20 349 ePd    26 05.42  -0.8
                 eS     26 20.84
BGL     1.22 346 eP     26 05.76  -0.5
CGLM    1.23 355 iPd    26 05.86  -0.6
PDB     1.25 257 eP     26 05.16  -1.5
                 eS     26 21.64
MPA     1.27  70 eP     26 07.00   0.1
NCG     1.33 352 ePd    26 07.44  -0.5
                 eS     26 25.58
SUA     1.47  20 eP     26 10.00   0.1
                 eS     26 28.44
CDD     1.50 220 eP     26 08.91  -1.3
                 eS     26 28.78
SYI     1.52 192 eP     26 09.26  -1.1
                 eS     26 29.58
MCNL    1.58 236 eP     26 09.36  -2.0
                 eS     26 29.19
PWL     1.87  64 eP     26 13.77  -1.7
SKT     1.90   4 eP     26 15.64  -0.3
LTI     1.97  90 eP     26 14.97  -1.8
PMR     1.99  39 eP     26 14.78  -2.3
KNIM    2.03  81 eP     26 14.71  -3.0
KNK     2.10  49 eP     26 17.38  -1.4
SVW     2.16 300 eP     26 16.52  -3.0
GHO     2.19  38 eP     26 20.98   1.0
CFI     2.26  59 eP     26 18.80  -2.1
KDC     2.38 189 (P)    26 18.59  -3.9
SML     2.41  43 P      26 24.70   1.6
FID     2.71  74 eP     26 25.57  -1.9
KLU     3.20  61 eP     26 31.80  -2.6
        50 obs. associated
-------------------------------------
   OCT  24, 1993  18h 37m 57.37± 0.57s
   37.700 N ± 4.8km   14.754 E ± 6.1km
   DEPTH =  10.0km  (geophysicist)
 SICILY                                 (398)
      ML 2.4 (ROM).

MNO     0.24 349 P      38 02.31  -0.2
MEU     0.61 167 P      38 09.47  -0.3
PZI     0.68 169 P      38 11.02   0.1
ATN     0.73  50 P      38 11.76   0.1
MSI     0.81  51 P      38 13.35   0.3
FAI     0.96 244 P      38 15.81   0.2
SOI     1.09  70 P      38 18.04   0.1
GRI     1.72  49 P      38 27.18  -0.4
      S.D. = 0.3  on   8 of   8 obs.
-------------------------------------
   OCT  24, 1993  19h 14m 52.24± 0.46s
   40.723 N ± 3.8km   22.739 E ± 3.8km
   DEPTH =   5.0km  (geophysicist)
 GREECE                                 (364)
      ML 2.1 (SKO), 2.0 (THE).

THE     0.19 118 ePg    14 56.30   0.1
                 eSg    14 59.14
GRG     0.35 312 ePg    14 59.18  -0.1
                 eSg    15 03.34
KNT     0.45  15 ePg    15 01.54   0.2
                 eSg    15 08.42
SOH     0.48  78 ePg    15 01.82   0.0
                 eSg    15 08.74
VAY     0.61 348 iPg    15 04.40  -0.1
                 iSg    15 13.40
LIT     0.65 197 ePg    15 04.74  -0.5
                 eSg    15 14.82
SRS     0.76  58 ePg    15 06.89  -0.5
                 eSg    15 17.18
OUR     1.02 112 ePg    15 12.18   0.1
                 eSg    15 27.34
FNA     1.04 274 ePg    15 12.66   0.3
PAIG    1.07 138 ePg    15 13.26   0.4
                 eSg    15 28.42
      S.D. = 0.4  on  10 of  10 obs.
-------------------------------------
?  OCT  24, 1993  19h 52m 22.48± 2.08s
   18.545 N ±42.2km   67.083 W ±20.8km
   DEPTH = 120.0km  (geophysicist)
 MONA PASSAGE                           ( 89)

MCP     0.13 192 (P)    52 40.00  -0.1
APR     0.35 105 P      52 44.50   4.7X
MGP     0.53 181 P      52 41.00   0.2
PNP     0.61 142 P      52 41.50   0.1
CLLP    0.67 134 P      52 41.50  -0.3
LPR     1.18 101 P      52 46.80   0.1
CPD     1.22 114 P      52 49.00   1.9X
      S.D. = 0.3  on   5 of   7 obs.
-------------------------------------
   OCT  24, 1993  20h 12m 37.04± 0.54s
   39.512 N ± 4.7km   27.926 E ± 4.7km
   DEPTH =   5.0km  (geophysicist)
 TURKEY                                 (366)
      ML 3.2 (ISK).

DST     0.55  80 ePg    12 47.40  -0.7
                 eSg    12 56.40
EDC     0.84 357 iPg    12 52.30  -1.4
                 eSg    13 05.30
BNT     0.84 360 ePn    12 53.20  -0.6
KGT     1.05 333 iPg    12 58.10   0.8
                 iSg    13 13.10
EZN     1.27 285 iPn    13 01.00  -0.1
MFT     1.37 339 ePn    13 03.60   0.8
IZI     1.45  55 ePn    13 04.00   0.0
CTT     1.68  13 ePn    13 07.10  -0.1
KHL     1.72 133 ePn    13 08.00   0.1
ALT     1.76 104 ePn    13 09.10   0.7
ISK     1.78  29 ePn    13 09.00   0.4
HRT     1.87  45 ePn    13 10.10   0.1
CIN     1.91 176 ePn    13 10.00  -0.6
                 iSg    13 35.00
EYL     2.01  58 ePn    13 12.60   0.5
      S.D. = 0.7  on  14 of  14 obs.
-------------------------------------
?  OCT  24, 1993  20h 19m 48.54± 1.08s
    6.135 S ±10.9km  146.450 E ± 9.8km
   DEPTH =  10.0km  (geophysicist)
 EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY    0.49 258 eP     19 58.60   0.1
                 eS     20 06.80
LAT     0.76 134 ePd    20 03.50   0.1
MDG     1.10 323 eP     20 09.20   0.0
PMG     3.33 168 eP     20 41.50  -0.2
      S.D. = 0.2  on   4 of   4 obs.
-------------------------------------
   OCT  24, 1993  20h 31m 56.64± 0.29s
    3.502 S ± 6.0km  126.428 E ± 7.1km
   DEPTH =  33.0km  (normal)
   5.0mb ( 20 obs.)
 BURU, INDONESIA                        (271)

MNI     5.16 342 ePd    33 11.50  -2.2
SWI     5.49  62 ePc    33 17.50  -0.8
BIP    11.65 359 ePd    34 40.00  -3.7X
KNA    12.39 169 iPd    34 52.00  -1.6
       1.2s   125.00nm          5.9mb
KKM    13.93 313 eP     35 18.00   3.9X
JAY    14.29  86 ePc    35 11.50  -7.3X
                 eS     36 48.00
PLP    14.64 354 ePd    35 20.70  -2.7
WR2    18.09 155 eP     36 05.30  -1.9
       1.1s   102.90nm          4.9mb
                 e      36 10.20
MDG    19.37  96 eP     36 23.70   1.0
QIS    21.26 144 eP     36 45.00   2.5
                 e      38 14.30
ASPA   21.31 161 iPd    36 43.60   0.6
       1.0s   144.90nm          5.3mb
     Z  21s     1.00um          4.2Msz
                 ipP    36 48.60  18kmX
                 iS     40 39.50
                 iScS   47 55.10
CVP    21.56 348 ePc    36 46.50   1.1
WARB   22.55 179 eP     36 51.50  -3.9X
       0.8s    52.00nm          5.1mb
                 i      38 28.20
IPM    26.62 287 ePc    37 34.50   0.2
FORT   27.17 177 eP     37 28.60 -10.5X
                 e      39 08.50
QIZ    27.71 324 eP     37 48.50   4.4X
STK    31.63 155 eP     38 17.30  -1.6
       1.0s     8.40nm          4.6mb
                 ePP    38 54.70
                 eS     44 52.20
NST    32.25 307 eP     38 24.60   0.1
HNR    33.80 102 P      38 38.00  -0.1
CHTO   34.98 310 iPc    38 48.90   0.7
       1.1s    24.15nm          5.0mb
GYA    35.39 328 iPc    38 53.80   2.1X
       1.0s    22.00nm          5.0mb
ARMA   35.83 141 eP     38 54.80  -0.6
       0.7s     9.00nm          4.8mb
NJ2    36.08 349 Pd     38 58.60   1.3
KMI    36.59 322 eP     39 00.50  -1.4
       1.8s    50.00nm          5.1mb
TOO    38.14 155 eP     39 15.60   0.9
       1.2s    69.00nm          5.4mb
                 e      40 45.10
TIA    40.45 348 eP     39 37.00   3.2X
CD2    40.48 329 eP     39 36.00   1.8
       0.9s    24.00nm          4.9mb
XAN    40.83 338 P      39 37.30   0.3
       1.0s    22.00nm          4.8mb
                 pP     39 44.50  24kmX
                 sP     39 49.00
DZM    42.97 119 iPc    39 54.90   0.2
TIY    43.02 344 eP     39 55.40   0.5
BJI    44.34 349 eP     40 08.00   2.5X
       1.5s    14.00nm          4.6mb
LZH    44.69 334 Pd     40 09.50   0.9
       1.8s    38.00nm          5.0mb
     Z  20s     0.30um          4.2Msz
SNY    45.19 357 eP     40 12.00  -0.2
HHC    46.18 344 P      40 20.80   0.5
       1.2s    13.00nm          4.7mb
LSA    47.23 317 P      40 30.90   1.8
       0.9s    35.00nm          5.4mb
GTA    49.23 333 Pd     40 45.00   0.8
       1.2s    14.00nm          4.9mb
GUN    49.99 311 P      40 51.00   0.6
PKI    50.16 311 P      40 51.80   0.1
KKN    50.37 311 P      40 53.60   0.4
DMN    50.41 311 P      40 54.00   0.4
       0.8s    65.00nm          5.7mb
KOD    50.63 286 eP     40 55.50   0.1
GKN    50.97 311 P      40 58.00   0.3
GBA    51.49 290 P      41 00.40  -1.2
       1.0s     3.00nm          4.2mb
HYB    51.60 295 eP     41 02.00  -0.4
NDI    57.05 308 eP     41 40.00  -2.1
WMQ    58.55 328 P      41 52.50   0.0
YAK    65.38   2 eP     42 36.80  -1.0
       0.8s    42.00nm          5.6mb
```

```
                  e     44 07.00
QUE    65.89 305 eP    42 40.60  -1.3
MAIO   73.73 309 iPc   43 29.80   0.2
GEC2  107.48 320 PKP   50 21.60  -0.3
        0.8s     0.50nm
PV10  118.83  48 ePKP  50 44.52   0.5
RSSD  119.98  40 ePKP  50 45.30  -0.7
GOL   120.99  45 ePKP  50 48.27   0.2
ALQ   121.96  51 ePKP  50 50.52   0.5
MOCB  152.71 155 PKP   51 52.20   6.5X
CNCB  155.30 145 PKP   51 50.20   0.8
                  e     53 29.00
LPB   155.46 145 ePKP  51 50.00   0.6
LPAZ  155.63 144 PKP   51 46.90  -3.1X
     S.D. = 1.1  on  47 of  58 obs.
-----------------------------------
   OCT  24, 1993  21h 35m 32.77± 0.70s
   40.014 S ± 5.0km  176.723 E ± 7.4km
   DEPTH =  95.3 ± 10.2 km
 NORTH ISLAND, NEW ZEALAND        (159)

TEHZ    0.07  70 Pc    35 44.80  -1.2
WAHZ    0.42 318 P     35 44.70  -3.1
TTH     0.48  10 Pd    35 46.80  -1.3
PGZ     0.70 209 Pd    35 51.00   1.1
TAHZ    0.88   1 P     35 51.50  -0.4
                S     36 03.60
MNG     1.12 237 Pc    35 55.40   0.8
                S     36 09.40
PAHZ    1.18  13 Pc    35 55.40   0.1
NGZ     1.20 314 Pc    35 55.60  -0.1
MAHZ    1.22  48 P     35 57.30   1.6
CNZ     1.22 311 P     35 55.70  -0.1
BSZ     1.39 278 P     35 59.30   1.5
MTW     1.47 219 Pc    35 59.90   1.1
KIW     1.62 238 P     36 01.80   1.1
BLW     1.65 215 iP    36 02.20   1.1
CAW     1.67 229 Pc    36 02.20   0.9
PATZ    1.67 347 P     36 01.60   0.2
NOZ     1.73  37 P     36 02.80   0.7
URZ     1.78  10 Pc    36 02.60  -0.1
                S     36 22.70
TAZ     1.79 355 P     36 03.10   0.3
WEL     1.96 229 P     36 05.70   0.6
                S     36 29.10
MRW     1.96 231 P     36 05.70   0.6
MOZ     2.12 315 P     36 07.30   0.1
TCW     2.21 236 P     36 08.60   0.1
PUZ     2.28  32 Pc    36 09.50   0.1
DIW     2.28 249 P     36 09.90   0.5
WLZ     2.31 337 P     36 10.30   0.4
WIZ     2.51   9 P     36 12.00  -0.5
CCW     2.57 227 P     36 14.40   1.0
HBZ     2.71  28 P     36 15.20   0.0
QRZ     3.30 254 P     36 23.30  -0.1
KUZ     3.36 346 P     36 24.30   0.2
THZ     3.38 238 P     36 24.30  -0.2
KHZ     3.40 224 P     36 23.70  -0.9
DSZ     4.11 244 eP    36 34.10  -0.5
LTZ     4.34 229 P     36 36.50  -1.3
MQZ     4.78 218 eP    36 42.10  -1.6
ODZ     6.74 220 eP    37 08.10  -2.7
                S     38 20.80
     S.D. = 1.1  on  37 of  37 obs.
-----------------------------------
?  OCT  24, 1993  21h 43m 37.63± 1.72s
   31.353 S ±34.7km   68.921 W ±42.3km
   DEPTH = 100.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA     (137)

RTCB    0.17 142 ePd   43 52.20  -0.1
                S     44 04.00
RTLL    0.39  87 ePd   43 52.50  -0.4
                S     44 04.50
CFA     0.64 114 eP    43 55.20   0.4
                S     44 09.00
RTRS    1.27 338 eP    44 01.50   0.1
                S     44 19.00
     S.D. = 0.7  on   4 of   4 obs.
-----------------------------------
%  OCT  24, 1993  21h 53m 01.42± 2.99s
   28.999 S ±20.9km   67.238 W ±14.4km
   DEPTH = 165.0 ± 32.5 km
 LA RIOJA PROVINCE, ARGENTINA     (138)

CYA     1.38  67 iPc   53 31.30  -0.1
                S     53 51.50
RTPR    1.44 154 iPc   53 31.50  -0.4
RTLL    2.56 204 iPd   53 44.50   0.0
                S     54 15.00
CFA     2.74 198 ePc   53 46.80   0.1
                S     54 18.90
RTCB    2.82 208 iPd   53 48.00   0.2
                S     54 20.50
RTCV    3.06 201 iPd   53 51.00   0.2
                S     54 28.00
TCA     3.27 136 iPc   53 53.80   0.4
RFA     5.85 190 eP    54 26.60  -0.5
     S.D. = 0.4  on   8 of   8 obs.
-----------------------------------
%  OCT  24, 1993  22h 06m 35.92± 1.08s
   44.216 N ± 4.9km    6.266 E ±15.8km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                           (538)
     ML 2.1 (LDG).

FRF     0.71 157 Pg    06 49.70  -0.2
                Sg    06 59.80
LRG     0.76 175 Pg    06 50.60  -0.2
                Sg    07 01.60
LMR     0.90 169 Pg    06 53.60   0.5
                Sg    07 05.40
SBF     0.91 112 Pg    06 53.50   0.0
                Sg    07 04.40
LPG     1.33  15 Pg    07 00.10  -0.5
LPL     1.34  14 Pg    07 01.30   0.5
     S.D. = 0.5  on   6 of   6 obs.
-----------------------------------
   OCT  24, 1993  22h 49m 35.63± 0.33s
    5.736 S ± 4.4km  146.070 E ± 6.0km
   DEPTH =  10.0km  (geophysicist)
   4.7mb ( 12 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
     ML 4.6 (PMG).

YYYY    0.51 191 eP    49 45.80  -0.3
LAT     1.31 135 eP    49 59.70  -0.1
MNDI    2.44 260 eP    50 23.00   6.7X
WWKK    3.22 311 eP    50 33.60   6.4X
PMG     3.80 164 eP    50 36.00   0.5
KVG     5.67  57 eP    51 03.00   1.0
JAY     6.23 301 ePd   51 16.00   6.0X
        0.8s     5.00nm          4.4mb
                eS    53 03.50
QIS    16.01 202 eP    53 23.00   0.3
MTN    16.34 243 eP    53 27.50   0.6
        0.5s    43.00nm          4.8mb
WR2    18.14 218 eP    53 48.90  -0.6
        0.6s    14.70nm          4.3mb
                eScP  58 28.40
                eS    59 10.30
ASPA   21.33 212 eP    54 23.30  -1.9
        1.3s    20.20nm          4.4mb
     Z  19s      0.80um          4.1Msz
                eS    58 27.50
BKM    24.70 121 iP    55 01.50   3.1X
ARMA   25.11 169 eP    55 03.10   0.9
        0.7s     9.00nm          4.6mb
DZM    25.53 131 iPc   55 06.50   0.2
STK    26.35 189 eP    55 12.70  -1.0
        4.2s     3.90nm          3.4mb X
WARB   27.53 220 eP    55 26.00   1.4
        0.6s     6.00nm          4.5mb
TOO    31.69 181 eP    56 07.40   5.8X
NST    50.21 296 eP    58 35.50   1.4
CHTO   52.45 299 eP    58 51.30   0.2
XAN    52.89 321 eP    58 53.00  -1.2
        1.2s    13.00nm          4.7mb
BJI    53.23 331 eP    58 56.00  -0.5
     Z  20s      0.30um          4.3Msz
CD2    54.43 315 P     59 06.60   1.0
HHC    56.13 329 eP    59 16.40  -1.4
GTA    61.95 321 eP    59 58.00  -0.3
        1.5s    12.00nm          4.9mb
GUN    66.95 303 P     00 31.00  -0.4
        0.4s     9.00nm          5.3mb
PKI    67.23 303 P     00 33.20   0.1
KKN    67.41 303 P     00 34.80   0.7
DMN    67.49 303 P     00 35.20   0.5
GKN    68.01 303 P     00 38.40   0.6
SVW    80.38  25 (P)   01 47.52  -1.1
        1.5s    43.53nm          5.2mb
SPA    84.30 180 iPc   02 04.90  -4.0X
        0.5s    13.89nm          5.4mb
FBA    85.30  23 eP    02 13.11  -0.6
        0.9s     5.39nm          4.8mb
MOCB  138.93 132 PKP   09 05.40  -0.3
CNCB  139.56 124 PKP   09 01.00  -6.0X
LPB   139.61 124 ePKP  08 58.00  -8.9X
LPAZ  139.70 123 PKP   09 15.80   8.4X
PPD   147.57 149 ePKP  09 25.00   5.1X
VAO   148.72 156 (PKP) 09 27.00   5.2X
BAO   154.61 147 ePKP  09 42.70  12.1X
     S.D. = 0.9  on  27 of  39 obs.
-----------------------------------
   OCT  25, 1993  00h 16m 04.13± 0.50s
   40.686 N ± 4.8km    1.576 W ± 5.9km
   DEPTH =  10.0km  (geophysicist)
 SPAIN                            (377)
     mbLg 3.2 (MDD). ML 3.1 (LDG).
     Felt (III) in the Orihuela de
     Tremedal area.

ETOR    0.39 290 iPc   16 13.05   0.9
                e     16 19.40
ECHE    1.19 157 iPc   16 25.31  -1.0
                e     16 40.90
EROQ    1.51  84 iPc   16 32.87   1.6
                e     16 52.20
EBR     1.58  84 ePg   16 34.00   1.8
                iSg   16 56.00
EGRA    1.78  32 iPc   16 41.35   6.3X
                e     17 07.90
GUD     1.96 270 iPc   16 38.08   0.2
                e     17 04.50
ECRI    2.04 340 iPc   16 41.47   2.4
                e     17 07.80
EVIA    2.17 200 iPd   16 41.53   0.7
                e     17 06.40
ELIZ    2.48   1 eP    16 47.51   2.4
                e     17 17.60
EPF     2.75  31 Pn    16 51.40   2.3
                Pg    16 58.50
                Sn    17 23.50
                Sg    17 34.60
EHUE    2.97 196 eP    16 52.90   0.6
                e     17 25.80
EBAN    3.04 215 eP    16 51.08  -2.1
                e     17 26.00
ETER    3.70  63 eP    17 03.32   0.8
                e     17 48.00
LPO     4.48  26 Pn    17 14.60   1.0
                Sn    18 05.50
CAF     5.01  31 Pn    17 22.00   0.9
                Sn    18 17.40
RJF     5.14  25 Pn    17 22.90  -0.1
                Sn    18 20.10
LSF     6.00  21 Pn    17 34.40  -0.7
                Sn    18 40.70
MFF     6.00   9 Pn    17 34.60  -0.5
                Sn    18 40.30
TCF     6.24  25 Pn    17 37.40  -1.0
                Sn    18 46.20
MAF     6.30  27 Pn    17 37.50  -1.8
BGF     6.69  27 Pn    17 43.60  -1.2
AVF     7.07  29 Pn    17 48.80  -1.3
SMF     7.13  32 Pn    17 50.00  -1.0
SSF     7.35  28 Pn    17 53.00  -1.1
LPF     7.35   3 Pn    17 53.30  -0.8
LOR     7.66  29 Pn    17 58.10  -0.2
GRR     7.72   4 Pn    17 58.70  -0.5
LPG     7.76  49 Pn    18 00.20   0.1
LPL     7.76  49 Pn    17 59.80  -0.2
LDF     7.97   7 Pn    18 01.50  -1.2
FLN     8.11   5 Pn    18 03.90  -0.8
     S.D. = 1.3  on  30 of  31 obs.
-----------------------------------
&  OCT  25, 1993  00h 18m 49.44s
   34.942 N          116.791 W
   DEPTH =   3.1km
 SOUTHERN CALIFORNIA              ( 43)
     <PAS-P>. ML 3.6 (PAS), 3.6 (GS).
     Felt (IV) at Newberry Springs
     and (III) at Hinkley.

GSC     0.36 358 iPd   18 56.53  -0.1
SSK     1.04 226 iPd   19 08.56  -1.3
                eS    19 22.99
PEC     1.09 196 iPd   19 09.49  -1.1
                eS    19 23.74
WORM    1.41 303 P     19 15.31  -0.7
```

25d 00h

```
WJPM    1.46 289 P      19 15.22  -1.6
BMTC    1.49 278 P      19 15.52  -1.8
ISA     1.55 298 ePn    19 16.37  -1.7
                 eS     19 38.57
PLM     1.59 182 eP     19 17.37  -1.3
                 eS     19 38.36
WASM    1.65 299 P      19 18.04  -1.5
WOFM    1.68 291 P      19 18.38  -1.6
ARVC    1.68 277 P      19 20.61   0.7
FTC     1.73 268 P      19 19.38  -1.2
ABL     2.00 268 ePn    19 20.95  -3.7
                 ePg    19 26.15
TPNV    2.05  12 ePn    19 23.69  -1.7
                 eS     19 54.86
RYS     2.13 263 P      19 29.30   2.8
TMB     2.26 274 P      19 32.09   3.8
CRGC    2.42 278 P      19 34.18   3.5
GLA     2.49 139 ePn    19 28.04  -3.6
BCH     2.71 276 ePn    19 32.80  -2.0
                 ePg    19 38.36
SCCM    2.78 271 P      19 40.24   4.5
MTUM    2.80 330 (Pn)   19 36.44   0.3
                 ePg    19 41.77
CWCR    2.83 335 P      19 41.47   4.9
MRCM    3.06 334 ePn    19 39.33  -0.4
PHAM    3.08 288 ePn    19 38.85  -1.1
TNP     3.15 354 ePn    19 39.63  -1.5
MMPM    3.22 326 ePg    19 48.43   6.3
MEMM    3.23 328 ePg    19 48.74   6.8
BONR    3.24 338 ePn    19 42.05  -0.5
                 ePg    19 50.42
PANM    3.47 285 P      19 51.52   6.1
BMSM    3.68 299 P      19 46.84  -1.6
ARUT    3.92  43 ePn    19 50.23  -1.8
CMB     4.23 318 (Pn)   19 55.42  -0.9
ARN     4.53 303 ePn    19 58.38  -2.1
JTGM    4.62 298 P      19 58.52  -3.2
MSU     5.14  45 ePg    20 23.45  14.0
NTYM    5.84 308 (P)    20 18.27  -0.7
DUG     6.12  30 ePg    20 44.23  21.1
SRU     6.51  48 ePg    20 48.74  20.0
PV10    7.11  59 ePg    21 00.59  23.4
PV08    7.47  59 ePg    21 09.89  27.5
        40 obs. associated
-----------------------------------------
   OCT  25, 1993  00h 38m 37.06± 0.24s
   26.647 N ± 4.7km  127.690 E ± 3.9km
   DEPTH =  45.2km  ( 11 depth phases)
   5.1mb ( 58 obs.)
 RYUKYU ISLANDS                    (238)
     Felt on Okinawa.

NAH     0.43 181 iP     38 48.60   1.4
                 iS     38 55.50
SSE     7.22 309 Pd     40 23.50   0.8
        0.7s    32.00nm          5.2mb
     Z  20s     1.09um           5.9MszX
     E  10s     0.65um
                 pP     40 34.00
NJ2     9.40 307 Pc     40 53.00   0.1
     Z  26s     0.71um
CVP    10.43 213 eP     41 05.00  -1.9
TIA    13.12 319 eP     41 45.50   2.5
     Z  20s     0.77um
MAT    13.32  40 eP     41 55.00   9.3X
        0.7s    13.70nm          5.0mb
                 eS     44 38.00
SNY    15.52 348 Pd     42 17.30   3.0X
BJI    16.44 327 eP     42 29.50   3.5X
        1.0s    22.00nm          4.2mb
     N  15s     0.68um
TIY    16.96 314 eP     42 35.00   2.3
     Z  20s     1.50um
     E  18s     0.88um
                 sP     42 54.00
CN2    17.21 355 eP     42 36.70   1.0
        0.8s    11.00nm          4.0mb X
     Z  20s     0.37um           4.7Msz
XAN    17.78 299 Pc     42 43.80   0.9
        0.6s    29.00nm          4.6mb
QIZ    18.10 249 P      42 47.40   0.5
GYA    18.81 274 P      42 57.00   1.3
HHC    19.46 321 P      43 02.80  -0.2
        1.0s    23.00nm          4.4mb
     Z  30s     1.09um           5.2Msz
BTO    20.20 318 eP     43 10.00  -0.8
CD2    21.39 287 iPd    43 21.60  -1.4
        1.0s   100.00nm          5.2mb
                 sP     43 44.00
                 S      47 10.00
                 sS     47 36.00
LZH    22.38 301 eP     43 31.50  -1.5
        1.5s    45.00nm          4.7mb
     Z  20s     0.69um           4.1Msz
                 eS     47 29.00
KMI    22.49 272 eP     43 33.50  -0.7
        1.0s    40.00nm          4.8mb
                 pP     43 45.00  46km
LOE    25.72 254 iPc    44 05.00   0.0
GTA    26.50 306 Pc     44 10.50  -1.7
        1.0s    49.00nm          5.0mb
     Z  20s     0.69um           4.2Msz
                 pP     44 25.00  60kmX
CHTO   27.59 260 iPc    44 22.30   0.1
        0.9s    45.82nm          5.1mb
NST    27.86 252 eP     44 26.00   1.4
ZAK    30.18 328 eP     45 00.50  15.4X
        1.0s    10.00nm
WMQ    36.48 309 P      45 38.50  -1.2
GUN    37.05 282 P      45 44.80  -0.3
YYYY   37.19 149 eP     45 39.10  -6.9X
PKI    37.52 281 P      45 48.20  -0.7
KKN    37.60 282 P      45 49.00  -0.5
DMN    37.78 281 P      45 50.60  -0.4
GKN    38.13 282 P      45 53.40  -0.5
NDI    44.48 285 eP     46 45.00  -0.8
KSH    44.63 300 eP     46 48.00   0.9
FRU    45.76 305 iP     46 55.80  -0.1
        1.5s    40.00nm          5.1mb
                 e      48 33.00 522kmX
HYB    46.23 269 eP     46 59.50  -0.4
        0.8s    46.20nm          5.5mb
WRA    46.76 171 P      47 03.50  -0.4
WR2    46.77 171 eP     47 03.40  -0.5
        0.8s     4.70nm          4.5mb
                 epP    47 12.60  31kmX
GBA    48.65 265 P      47 19.00   0.2
CTA    49.82 157 P      47 41.00  13.3X
KOD    50.03 261 eP     47 30.50   0.7
POO    50.06 272 iPc    47 28.70  -1.0
        0.8s    34.33nm          5.4mb
ASPA   50.38 173 eP     47 32.20   0.3
        0.6s     4.90nm          4.7mb
     Z  23s     0.20um           4.1MszX
ILT    52.13  23 eP     47 43.00  -1.7
SVE    55.63 322 ePc    48 09.00  -1.5
     Z  20s     0.50um           4.6Msz
     N  20s     0.20um
     E  20s     0.60um
MAIO   57.89 298 iPc    48 27.00   0.0
ASH    58.48 300 eP     48 31.00   0.1
STK    59.69 166 P      48 36.29  -3.0X
SVW    60.66  33 eP     48 45.86   0.2
        0.8s    23.22nm          5.4mb
                 epP    48 57.91  42km
IMA    61.36  27 eP     48 49.61  -0.9
        1.0s     6.46nm          4.7mb
                 e      49 06.91  65kmX
CP2    62.28  33 eP     48 56.11  -0.7
CRP    62.32  33 eP     48 56.40  -0.6
PWA    63.37  32 eP     49 02.30  -1.4
        0.6s    23.60nm          5.5mb
FBA    63.90  28 ePc    49 06.31  -0.9
        0.6s     5.84nm          4.8mb
TOA    65.04  31 eP     49 14.60  -0.1
KLU    65.26  32 eP     49 15.38  -0.8
BALM   67.05  32 (P)    49 26.73  -0.9
PYA    68.32 309 iPd    49 35.00  -0.8
ERE    68.41 305 iP     49 36.00  -0.4
        1.0s    90.00nm          5.7mb
INK    68.70  23 ePc    49 37.30  -0.3
        0.6s     6.00nm          4.8mb
OBN    69.19 322 iPd    49 39.50  -1.3
        0.8s    26.00nm          5.3mb
MBC    69.54  14 ePc    49 42.70   0.0
        0.7s     7.00nm          4.7mb
SDF    69.89 336 iP     49 43.80  -1.2
KAF    71.90 331 iP     49 55.70  -1.4
        0.4s    11.40nm          5.2mb
NUR    73.28 330 iP     50 04.60  -0.6
        0.3s    17.10nm          5.5mb
DAG    74.80 352 iPc    50 12.50  -1.3
        0.6s    11.33nm          5.0mb
RES    75.23  11 eP     50 16.00  -0.3
        1.0s    11.00nm          4.8mb
KAS    75.66 309 iPc    50 19.80   0.3
UPP    76.69 331 iP     50 23.90  -0.8
YKA    78.35  25 eP     50 32.90  -1.0
        0.9s     9.00nm          4.8mb
VRI    78.45 316 ePd    50 35.50   0.7
NB2    78.73 334 P      50 34.90  -1.1
        0.8s    22.60nm          5.2mb
NAO    79.00 334 P      50 33.57  -3.9X
MLR    79.11 315 eP     50 38.00  -0.6
UZH    79.85 319 eP     50 44.00   1.7
        1.1s    29.00nm          5.1mb
BSD    80.45 328 iPd    50 45.00  -0.3
        0.8s    42.00nm          5.4mb
OJC    80.49 322 eP     50 44.90  -0.8
CIN    81.23 308 eP     50 50.00   0.2
KSP    82.07 323 iPc    50 54.20   0.3
        1.0s    31.00nm          5.3mb
                 i      51 08.60  50km
SRO    82.57 320 eP     50 57.70   1.2
ZST    83.05 321 eP     51 00.50   1.5
                 e      02 28.10
                 e      03 09.20
VAY    83.25 313 iP     51 00.50   0.3
BRG    83.29 324 iPc    51 18.10  17.9X
        1.0s    16.00nm
RMW    83.40  40 ePc    51 02.10   1.1
                 epP    51 15.09  44km
PRU    83.48 323 eP     51 01.50   0.3
CLL    83.53 325 iPc    51 01.50   0.1
        1.1s    35.00nm          5.3mb
                 i      51 14.70  45km
SKO    83.66 314 iP     51 03.00   0.7
        1.1s    60.00nm          5.6mb
KHC    84.48 323 Pc     51 07.00   0.7
        1.0s    50.00nm          5.6mb
                 i      51 20.60  46km
                 e      51 35.00
OHR    84.51 313 iP     51 05.70  -1.0
GEC2   84.58 323 e(P)   51 07.30   0.4
        0.6s     7.40nm          5.0mb
MOX    84.63 325 ePc    51 07.30   0.3
        1.1s    20.00nm          5.1mb
HOF    84.69 325 eP     51 07.80   0.4
        0.8s    19.00nm          5.3mb
GRF    85.40 324 iPc    51 12.10   1.2
        1.4s    69.00nm          5.6mb
     Z  19s     0.30um           4.7Msz
NEW    85.56  37 eP     51 12.26   0.5
        0.8s    22.92nm          5.4mb
                 epP    51 25.70  45km
BHG    85.67 322 eP     51 13.10   0.8
        0.7s    50.00nm          5.8mb
KBA    85.79 321 iPc    51 13.00  -0.1
        0.5s     6.90nm          5.1mb
FUR    86.28 323 iPc    51 16.30   1.0
        0.7s    41.00nm          5.8mb
LGPM   86.29  46 ePc    51 16.83   1.2
                 epP    51 30.09  44km
WATA   86.61 322 iPd    51 17.20   0.1
WTTA   86.62 322 iPc    51 17.30   0.1
MOTA   86.87 322 iPd    51 17.90  -0.5
        0.8s     9.80nm          5.1mb
SQTA   86.88 322 iPc    51 18.40   0.0
        0.8s     9.60nm          5.1mb
KAC    87.36 337 eP     51 19.40  -1.0
KPL    87.61 337 eP     51 20.40  -1.1
KSB    87.63 337 eP     51 20.90  -0.7
ORV    87.87  46 eP     51 23.15   0.0
                 epP    51 36.86  46km
WLF    88.00 326 iPc    51 24.21   0.7
EKA    88.19 334 Pc     51 24.70   0.3
        0.6s     2.60nm          4.7mb
CDF    88.24 325 eP     51 25.30   0.5
        0.8s     4.45nm          4.8mb
SNF    88.35 328 P      51 24.40  -0.8
DOU    88.48 327 P      51 26.40   0.6
        0.7s    12.20nm          5.3mb
BSF    88.86 325 eP     51 26.80  -1.1
        1.0s     6.00nm          4.9mb
HAU    88.97 325 eP     51 27.50  -0.8
        1.1s    12.70nm          5.2mb
     Z  22s     0.10um           4.2Msz
LRM    89.58  37 eP     51 32.40   0.9
LPL    90.37 323 eP     51 34.70  -0.4
        0.6s     3.25nm          4.9mb
LPG    90.37 323 eP     51 34.90  -0.3
```

```
BONR   90.84  46 eP    51 38.66   1.1
SBF    91.04 321 eP    51 35.30  -2.7X
SSF    91.05 326 eP    51 38.00   1.1
       1.1s      6.85nm          5.0mb
SMF    91.15 325 eP    51 38.00  -0.4
       0.7s      3.10nm          4.8mb
LDF    91.76 328 eP    51 41.70   0.6
       0.9s      8.50nm          5.2mb
HVU    91.94  41 eP    51 43.80   1.4
ABL    92.00  49 eP    51 40.21  -2.6
TCF    92.23 326 eP    51 44.50   1.1
       0.9s      5.10nm          5.0mb
LPF    92.59 328 eP    51 46.40   1.4
       0.8s      9.25nm          5.3mb
RJF    93.25 325 eP    51 48.60   0.5
     Z  21s      0.20um          4.5Msz
GSC    93.36  48 eP    51 49.98   1.1
                epP    52 03.42  45km
DAU    93.70  41 eP    51 51.72   1.0
PEC    93.95  49 eP    51 51.84   0.3
       0.7s      6.95nm          5.2mb
                ipP    52 05.46  45km
ULM    94.26  26 eP    51 55.00   2.3
RSSD   95.15  35 eP    51 57.40   0.2
       1.6s     14.08nm          5.2mb
PV10   96.32  41 ePd   52 03.77   1.1
LPAZ  162.05  58 ePKP  58 29.00  -6.7X
CNCB  162.47  59 ePKP  58 24.00 -12.0X
                i      59 25.00
MOCB  166.69  69 PKP   58 41.30   1.7
     S.D. = 1.0  on 121 of 133 obs.
-----------------------------------
*  OCT  25, 1993  01h 29m 38.25± 0.68s
   72.218 N ± 8.7km    0.977 W ± 8.8km
   DEPTH =  10.0km  (geophysicist)
   4.5mb ( 14 obs.)
 JAN MAYEN ISLAND REGION          (639)

DAG     6.57 322 iPd   31 17.30   0.1
       0.8s     11.19nm          4.9mb
ARA0    9.05  94 Pn    31 51.79   0.0
                Sn     33 28.47
NSS     9.05 142 eP    31 22.80 -28.9X
NB2    12.18 151 P     32 31.60  -3.0X
       0.9s      5.20nm          4.8mb
NRA0   12.52 151 Pn    32 35.86  -3.2X
                Sn     34 47.13
HFS    13.44 147 eP    32 47.70  -3.5X
       0.6s      4.90nm          4.7mb
     Z  17s      0.32um          4.3Msz
                LR     35 58.00
KAF    14.47 120 iP    33 03.40  -1.3
NUR    15.41 126 eP    33 16.90   0.0
CLL    21.88 156 e(P)  34 27.00  -5.6X
                e      34 48.00
MOX    22.37 159 eP    34 38.50   1.0
BRG    22.43 155 eP    34 39.50   1.4
KSP    22.79 151 eP    34 41.70   0.1
OBN    23.26 117 iPd   34 52.70   6.5X
       1.4s     36.00nm          4.7mb
PRU    23.37 154 P     34 48.50   1.2
                e      34 54.50
FLN    23.54 179 eP    34 47.60  -1.3
     Z  22s      0.10um          3.2MszX
LDF    23.71 179 eP    34 50.00  -0.6
       1.0s     18.40nm          4.6mb
KHC    24.09 156 eP    34 57.00   2.7X
                e      35 08.00
CDF    24.18 166 eP    34 56.30   1.0
       1.3s     11.90nm          4.3mb
GEC2   24.39 156 P     34 58.60   1.3
       0.7s      1.15nm          3.6mb
                e      35 02.50
                e      35 09.50
LOR    25.13 172 eP    35 03.80  -0.6
       1.1s      5.60nm          4.2mb
     Z  22s      0.10um          3.3MszX
SSF    25.32 173 eP    35 05.50  -0.7
       1.1s     12.95nm          4.5mb
LBF    25.42 172 eP    35 06.50  -0.6
       1.4s     17.85nm          4.6mb
ZST    25.49 151 eP    35 07.60  -0.1
AVF    25.59 173 eP    35 09.10   0.5
       1.1s     11.50nm          4.5mb
BGF    25.80 174 eP    35 10.10  -0.6
       0.8s      5.10nm          4.3mb
TCF    26.05 175 eP    35 12.20  -0.8
       1.2s     13.10nm          4.5mb
MAF    26.13 174 eP    35 14.40   0.7
       1.2s     15.45nm          4.6mb
MBC    27.25 333 eP    35 30.00   6.3X
OHR    32.97 149 e(P)  36 14.00  -0.9
INK    36.28 332 eP    36 50.00   7.2X
WRA   121.88  51 PKP   48 36.50   3.0X
       0.7s      0.30nm
     S.D. = 0.9  on  21 of  31 obs.
-----------------------------------
   OCT  25, 1993  01h 57m 20.57± 0.35s
   40.332 S ± 3.3km  174.550 E ± 4.0km
   DEPTH = 141.1 ±  5.6 km
 COOK STRAIT, NEW ZEALAND         (163)

KIW     0.60 153 Pc    57 40.80  -0.9
BSZ     0.61  29 Pd    57 41.10  -0.6
DIW     0.67 225 P     57 40.90  -1.3
MNG     0.77 112 Pd    57 42.60  -0.3
                S      57 55.10
CAW     0.87 153 Pc    57 43.60  -0.1
TCW     0.90 193 Pc    57 43.80  -0.1
MRW     0.91 173 Pc    57 43.90  -0.1
                S      57 57.90
WEL     0.97 170 Pc    57 44.40  -0.1
                S      57 58.50
MTW     1.10 139 Pc    57 45.80   0.1
NRZ     1.10 334 Pc    57 45.80   0.1
BLW     1.25 146 Pc    57 47.70   0.5
DRZ     1.31  37 eP    57 48.30   0.1
PGZ     1.35 103 Pc    57 48.40   0.3
CNZ     1.37  35 Pc    57 48.60   0.1
NGZ     1.41  35 Pd    57 49.00   0.0
CCW     1.44 190 P     57 50.30   1.2
WAHZ    1.52  66 Pd    57 50.10   0.0
QRZ     1.62 252 P     57 50.50  -0.6
                eS     58 10.30
TEHZ    1.77  80 P     57 53.10   0.3
MOZ     1.83   6 P     57 54.20   0.6
                eS     58 16.70
THZ     1.90 221 P     57 55.00   0.6
                eS     58 18.60
TTH     1.92  66 eP    57 55.30   0.7
KHZ     2.22 200 Pc    57 59.30   1.1
                eS     58 23.80
PAHZ    2.43  54 P     58 01.10   0.2
DSZ     2.51 235 Pd    58 02.30   0.3
WLZ     2.59  19 eP    58 04.00   1.1
MAHZ    2.81  67 P     58 06.00   0.3
URZ     2.87  45 P     58 05.60  -0.8
                S      58 38.80
LTZ     2.99 214 Pd    58 08.30   0.3
                S      58 40.90
NOZ     3.20  59 P     58 10.30  -0.4
MQZ     3.66 202 P     58 16.10  -0.6
                S      58 54.40
PUZ     3.66  53 P     58 16.00  -0.8
                eS     58 57.70
KUZ     3.70  15 eP    58 17.80   0.5
                S      59 01.30
WVZ     3.96 225 P     58 21.50   0.8
HBZ     4.00  48 P     58 20.20  -1.1
BWZ     5.43 218 eP    58 40.40  -0.1
ODZ     5.52 210 P     58 42.00   0.3
MSCZ    6.08 217 P     58 48.90  -0.4
LRCZ    6.09 217 P     58 49.00  -0.5
LSCZ    6.12 217 P     58 49.10  -0.7
CMCZ    6.18 217 P     58 50.20  -0.6
TUZ     6.67 211 eP    58 57.40   0.1
     S.D. = 0.6  on  42 of  42 obs.
-----------------------------------
?  OCT  25, 1993  02h 05m 42.93± 2.39s
    6.320 S ±22.1km  132.089 E ±43.1km
   DEPTH =  33.0km  (normal)
 TANIMBAR ISLANDS REG., INDONESIA(281)

TLE     0.94  44 iPc   05 59.80   0.0
                iS     06 14.20
MTN     6.55 188 iPd   07 23.20   3.6X
       0.3s    197.00nm          6.4mb X
                eS     08 45.50
KNA     9.92 199 eP    08 06.20  -0.2
       0.3s     45.00nm          6.3mb X
WR2    13.73 171 iPc   08 56.80  -0.9
                ipP    09 10.50
                eS     11 35.00
ASPA   17.34 174 eP    09 45.20   1.1
                iS     13 01.80
     S.D. = 1.4  on   4 of   5 obs.
-----------------------------------
*  OCT  25, 1993  02h 16m 39.56± 1.60s
    6.999 S ± 8.3km  129.250 E ±12.7km
   DEPTH =  16.6 ± 13.0 km
   5.0mb ( 10 obs.)
 BANDA SEA                        (280)

SLKI    2.25 116 iPc   17 17.80   1.1
TLE     3.73  69 ePc   17 37.10  -0.6
MTN     6.10 162 eP    18 13.00   1.8
       0.3s    201.00nm          6.4mb X
WR2    13.80 159 iPd   19 52.10  -4.7X
       0.4s     57.70nm          5.8mb
                iS     22 26.20
QIS    16.80 144 eP    20 34.00  -1.8
                eS     23 28.00
ASPA   17.16 165 iPc   20 38.60  -1.7
     Z  20s      1.30um
                eS     23 41.00
WARB   19.24 187 eP    21 06.00   0.1
       0.5s     16.00nm          4.5mb
CTA    21.01 130 iPc   21 25.00   0.1
       0.8s      3.73nm          3.8mb X
                e      21 29.00
                ipP    21 36.50  47kmX
FORT   23.68 183 iPd   21 54.00   2.7X
STK    27.30 157 eP    22 25.20  -0.2
       0.8s      4.20nm          4.2mb
                eS     27 12.60
TOO    33.82 156 eP    23 24.80   1.7
       0.4s     14.00nm          5.2mb
CHTO   39.38 311 eP    24 10.70   0.4
MAT    44.12  10 (P)   24 50.00   1.1
       1.7s     50.00nm          5.1mb
BJI    48.34 347 eP    25 26.00   3.8X
       1.0s      6.00nm          4.6mb
LZH    49.06 333 eP    25 30.00   2.0
       2.0s     30.00nm          5.0mb
LSA    51.69 317 P     25 48.70   0.1
GTA    53.62 332 eP    25 59.20  -3.2X
       1.0s      4.00nm          4.4mb
GUN    54.39 312 P     26 08.00  -0.6
       0.8s     44.00nm          5.5mb
PKI    54.56 311 P     26 09.00  -0.8
KKN    54.77 311 P     26 11.20  -0.1
DMN    54.81 311 P     26 10.80  -0.8
GKN    55.37 311 P     26 14.40  -1.1
       0.8s     21.00nm          5.2mb
WMQ    62.99 327 eP    27 05.80  -2.1
MAIO   78.10 309 eP    28 41.00   1.4
MOCB  148.35 153 PKP   36 28.10   3.6X
VAO   149.96 187 (PKP) 36 21.00  -5.5X
CNCB  150.84 144 PKP   36 35.20   6.6X
LPB   151.00 144 PKP   36 36.00   7.4X
PPD   151.15 179 ePKP  36 36.80   8.6X
LPAZ  151.17 143 PKP   36 35.20   6.0X
CCH   151.40 148 ePKP  36 38.00   8.9X
     S.D. = 1.3  on  20 of  31 obs.
-----------------------------------
?  OCT  25, 1993  02h 18m 56.98± 2.43s
   34.521 S ±14.4km  179.854 E ±31.3km
   DEPTH = 327.5 ± 10.6 km
   4.8mb (  3 obs.)
 SOUTH OF KERMADEC ISLANDS        (179)

HBZ     3.32 202 P     19 57.40  -0.7
WIZ     3.70 215 eP    20 02.50   0.6
PUZ     3.77 200 P     20 02.50  -0.2
                eS     20 54.30
KUZ     4.03 235 P     20 03.50  -2.0
URZ     4.34 210 eP    20 07.90  -0.8
                eS     21 06.40
NOZ     4.34 199 P     20 09.10   0.3
TAZ     4.58 215 eP    20 14.00   2.6X
WLZ     4.80 225 P     20 14.90   1.1
                eS     21 19.40
PATZ    4.82 216 eP    20 16.20   2.0
PAHZ    4.88 207 eP    20 15.20   0.4
MAHZ    4.92 198 P     20 16.00   0.8
MOZ     5.69 224 P     20 25.60   1.6
NGZ     5.76 215 P     20 25.20   0.2
CNZ     5.81 215 eP    20 26.10   0.6
WAHZ    5.88 207 eP    20 25.90  -0.3
BSZ     6.57 215 eP    20 34.60   0.2
PGZ     6.72 204 eP    20 38.10   2.0
```

25d 02h

```
NRZ      6.75 223 eP     20 39.00   2.5
MNG      7.01 208 P      20 38.30  -1.3
                  eS     22 02.00
KIW      7.44 210 P      20 43.20  -1.6
MTW      7.47 206 P      20 44.10  -1.0
CAW      7.59 209 P      20 45.30  -1.2
MRW      7.84 210 eP     20 48.70  -0.8
                  eS     22 22.10
WEL      7.86 209 P      20 49.20  -0.6
SNZO     7.90 209 P      20 51.00   0.7
                  eS     22 25.00
TCW      8.00 212 P      20 49.90  -1.6
CCW      8.47 210 P      20 57.60   0.4
QRZ      8.56 221 P      20 56.60  -1.7
                  eS     22 36.80
THZ      9.07 215 P      21 04.30  -0.2
KHZ      9.31 210 P      21 06.50  -0.8
DSZ      9.60 219 P      21 09.20  -1.8
LTZ     10.16 213 P      21 16.90  -0.9
MQZ     10.74 209 P      21 24.00  -0.8
                  eS     23 23.70
BWZ     12.61 215 P      21 47.50   0.2
ODZ     12.66 211 P      21 50.90   2.9
MSCZ    13.25 214 P      21 55.60   0.5
LRCZ    13.26 214 P      21 55.90   0.5
LSCZ    13.29 214 P      21 55.50  -0.1
MHZ     13.29 214 P      21 55.70   0.0
SBCZ    13.30 214 P      21 55.90   0.2
CMCZ    13.36 214 P      21 57.00   0.5
TUZ     13.82 211 P      22 05.40   3.5X
ARMA    24.13 272 eP     23 49.50   3.7X
CTA     32.96 287 iP     25 03.00  -0.7
         0.9s    18.91nm          4.5mb
ASPA    41.28 273 eP     26 13.40   0.6
         0.7s    46.80nm          4.8mb
WR2     42.62 278 iPd    26 23.70   0.1
         0.6s    39.80nm          4.8mb
KAF    147.72 337 ePKP   38 05.60   5.3X
NB2    152.47 348 PKP    38 17.40   9.8X
         0.7s     2.60nm
      S.D. = 1.2  on  43 of  48 obs.
-----------------------------------
   OCT  25, 1993  03h 08m 00.16± 0.74s
   40.737 N ± 5.6km   19.847 E ± 7.1km
   DEPTH =  10.0km  (geophysicist)
 ALBANIA                          (391)
      ML 2.3 (TIR).

BERA     0.09 114 iPgd   08 03.30   0.6
                  iSg    08 06.00
VLO      0.38 225 ePg    08 08.50   0.6
                  iSg    08 16.50
TPE      0.46 164 ePg    08 08.50  -1.0
TIR      0.61   1 ePg    08 11.60  -0.8
                  iSg    08 21.20
KBN      0.72  99 ePg    08 13.70  -0.7
                  iSg    08 24.50
OHR      0.81  62 iPg    08 15.20  -0.7
         0.5s   120.00nm
                  iSg    08 28.80
SRN      0.86 172 ePg    08 19.50   2.7X
LACI     0.90 353 ePg    08 17.00  -0.4
SKO      1.72  44 iPn    08 31.80   1.5
VAY      2.14  73 ePn    08 37.40   1.0
      S.D. = 1.1  on   9 of  10 obs.
-----------------------------------
&  OCT  25, 1993  03h 30m 05.29s
   63.428 N          149.631 W
   DEPTH =   8.6km
 CENTRAL ALASKA                   (  1)
      <AEIC>. ML 3.0 (AEIC), 3.4
      (PMR).

TRF      0.30 275 iP     30 11.13  -0.3
RND      0.35  93 iP     30 12.04  -0.4
MCK      0.44  45 iP     30 13.76  -0.4
                  eS     30 20.33
HUR      0.45 180 eP     30 13.92  -0.5
                  eS     30 19.98
KTH      0.59 283 iP     30 16.47  -0.8
                  eS     30 24.94
BWN      0.75   6 eP     30 20.26   0.2
CUT      1.07 196 eP     30 25.60   0.1
DHY      1.08 108 eP     30 25.38  -0.5
                  eS     30 39.98
NEA      1.18  12 eP     30 27.41   0.0
                  eS     30 43.08
WRH      1.25  32 eP     30 28.21  -0.4
                  eS     30 45.83
CCB      1.46  32 eP     30 32.03   0.1
                  eS     30 51.71
HDA      1.54  49 eP     30 33.53   0.6
                  eS     30 54.42
MDM      1.66  21 eP     30 33.96  -0.7
                  eS     30 57.16
MLY      1.68 344 eP     30 33.94  -1.1
                  eS     30 57.41
FBA      1.68  28 P      30 36.50   1.5
                  S      30 58.10
GHO      1.69 169 eP     30 34.34  -1.0
                  eS     30 57.07
SKT      1.70 212 eP     30 35.53   0.3
                  eS     30 58.37
SML      1.73 159 eP     30 35.00  -0.8
                  eS     30 58.70
THY      1.74  89 eP     30 37.42   1.4
                  eS     30 59.93
PWA      1.79 184 eP     30 37.00   0.4
IL1      1.81  41 eP     30 35.96  -0.9
                  eS     31 01.22
ILB      1.81  41 eP     30 36.03  -0.9
                  eS     31 01.94
GLM      1.85  31 eP     30 38.52   1.0
                  eS     31 02.69
PLRM     1.86 173 eP     30 37.28  -0.3
                  eS     31 01.54
PMR      1.86 173 eP     30 37.40  -0.2
DJE      1.86  69 eP     30 38.64   1.0
                  eS     31 04.87
SCM      1.92 145 eP     30 38.07  -0.5
                  eS     31 04.46
PAX      1.94 102 eP     30 39.65   0.8
                  eS     31 05.00
SUA      2.04 195 eP     30 40.58   0.3
TOA      2.07 128 P      30 41.20   0.4
SDG      2.07 114 eP     30 41.25   0.5
                  eS     31 08.15
KNK      2.10 164 eP     30 41.28   0.2
PMS      2.19 179 P      30 43.90   1.4
NCG      2.35 211 eP     30 44.65  -0.1
TZL      2.38 124 eP     30 47.45   2.3
CGLM     2.40 209 eP     30 45.23  -0.3
CFI      2.42 158 eP     30 46.45   0.9
CRP      2.47 210 eP     30 47.61   1.1
CP2      2.49 210 eP     30 47.38   0.5
DOT      2.50  82 eP     30 48.07   1.2
CKN      2.51 209 eP     30 48.43   1.4
SPU      2.52 208 eP     30 47.82   0.6
BGL      2.53 212 eP     30 48.64   1.4
CKT      2.54 209 eP     30 48.27   0.8
CKL      2.57 211 eP     30 48.18   0.2
KLU      2.60 137 eP     30 49.17   0.9
                  eS     31 23.65
BKG      2.67 209 eP     30 49.81   0.5
PRP      2.75  38 eP     30 49.95  -0.6
VLZ      2.77 145 eP     30 51.08   0.4
TTA      2.94 263 P      30 58.20   5.1
SLKM     2.94 186 eP     30 54.98   1.8
MPA      2.95 177 eP     30 54.88   1.7
TMW      2.99  89 eP     30 56.10   2.3
FID      3.07 150 eP     30 55.46   0.6
IM3      3.12 327 eP     30 54.93  -0.6
IMA      3.17 329 P      30 56.50   0.1
DFR      3.19 208 eP     30 56.98   0.3
RDW      3.32 208 eP     30 59.54   0.9
GLB      3.36 124 eP     31 00.34   1.2
CVA      3.42 146 eP     31 00.61   0.7
LTI      3.50 165 eP     31 01.83   0.8
BC3      3.57  92 eP     31 01.32  -0.7
SVW      3.64 233 e(P)   31 03.30   0.2
                  e      31 11.50
FYU      3.66  29 P      31 08.80   5.5
CNPM     3.99 192 P      31 09.80   1.8
CRQM     4.06 128 eP     31 10.29   1.2
BALM     4.17 122 P      31 11.80   1.2
TGL      4.17 127 eP     31 12.95   2.3
WAX      4.38 130 eP     31 14.50   0.9
BM3      4.52  25 eP     31 13.66  -1.9
CDD      4.91 205 P      31 22.70   1.6
        71 obs. associated
-----------------------------------
?  OCT  25, 1993  03h 53m 37.28± 2.07s
     7.009 S ±21.7km  129.478 E ±19.0km
   DEPTH =  10.0km  (geophysicist)
 BANDA SEA                        (280)

SLKI     2.05 118 ePc    54 12.00  -0.2
MTN      6.02 164 eP     55 12.00   3.4X
         0.3s    46.00nm          5.7mb X
                  eS     56 22.50
KNA      8.71 185 eP     55 45.30  -1.1
                  eS     57 20.90
WR2     13.71 160 iPc    56 50.50  -3.7X
                  eS     59 19.50
ASPA    17.10 166 eP     57 38.60   0.5
                  eS     00 35.90
FORT    23.68 183 eP     58 51.00   1.0
MOCB   148.24 152 PKP    13 22.90  -0.3
CNCB   150.70 144 PKP    13 30.00   2.8X
LPB    150.85 144 PKP    13 30.80   3.5X
LPAZ   151.03 143 PKP    13 30.90   3.1X
      S.D. = 1.1  on   5 of  10 obs.
-----------------------------------
*  OCT  25, 1993  04h 05m 53.35± 2.39s
   21.399 S ±21.1km   68.908 W ±19.1km
   DEPTH = 152.1 ± 17.8 km
 CHILE-BOLIVIA BORDER REGION      (124)

MOCB     3.05  88 P      06 42.60   0.1
CNCB     4.65  11 P      07 04.00   0.5
CCH      4.78  34 P      07 04.10  -0.9
LPB      4.90   9 P      07 08.00   1.3
      Z  18s     1.37um
                  LR     24 28.00
LPAZ     5.14   8 P      07 09.50  -0.6
                  LR     24 27.00
ARE      5.49 333 eP     07 14.00  -0.4
                  iS     08 14.00
PPD     16.37  95 eP     09 35.60  -0.2
VAO     20.38  99 eP     10 20.40   0.4
BAO     20.64  77 eP     10 22.50  -0.2
                  e      10 25.90
                  i      10 27.90
      S.D. = 0.8  on   9 of   9 obs.
-----------------------------------
   OCT  25, 1993  04h 34m 09.57± 0.95s
   43.810 N ± 6.0km   16.935 E ± 8.5km
   DEPTH =  33.0km  (normal)
 NORTHWESTERN BALKAN REGION       (383)
      ML 3.4 (ZAG), 3.2 (VIE). MD 3.4
      (TRI).

HVAR     0.72 209 iPgc   34 23.60   0.3
                  iSg    34 36.90
VBY      2.08 325 ePn    34 42.30  -0.4
                  iSn    35 06.40
ZAG      2.12 342 ePn    34 44.00   0.7
                  iSg    35 11.00
PTJ      2.20 342 iPn    34 44.80   0.2
                  iSg    35 12.40
RIY      2.38 311 ePn    34 47.20   0.1
                  iSn    35 18.00
CEY      2.63 318 ePn    34 51.70   1.1
                  i      34 52.80
                  eSn    35 21.90
LJU      2.81 323 e(Pn)  34 54.00   0.9
                  i      34 55.90
                  eSn    35 23.00
TRI      2.95 311 e(Pn)  34 55.70   0.5
                  e(Pg)  35 00.30
                  e(RRPg35 16.50
                  e      35 35.00
                  e(Sg)  35 41.00
UZD      3.02  22 e(Pn)  35 06.50  10.4X
VOY      3.10 317 iPn    34 57.70   0.3
                  e(Pg)  35 03.20
                  eSn    35 33.80
                  e(Sg)  35 43.00
SRO      4.12  13 e(P)   35 11.60  -0.1
                  e      36 15.50
                  e      36 22.20
ZST      4.39   1 eP     35 15.00  -0.6
WTTA     5.08 315 iPnc   35 22.00  -3.5X
                  iSn    36 22.90
                  i      36 46.80
WATA     5.16 315 iPnc   35 26.10  -0.5
                  i      35 26.40
                  i      35 32.50
                  iSn    36 25.90
OGA      5.17 308 eP     35 39.20  12.4X
SQTA     5.27 312 iPnc   35 27.80  -0.4
```

```
                iSn   36 28.90
                iSg   36 59.60
MOTA    5.41 313 iPnc 35 29.80  -0.3
                iSn   36 28.80
GEC2    5.51 337 Pn   35 31.10  -0.4
                Sn    36 28.80
KHC     5.81 338 ePn  35 35.50  -0.1
                e     35 48.00
                e     35 50.40
                eSg   36 35.50
LPG     7.46 287 Pg   35 58.80  -0.3
                Sg    37 14.50
LPL     7.47 287 Pg   35 58.40  -0.8
                Sg    37 14.10
     S.D. = 0.6  on  18 of  21 obs.
-------------------------------------
?  OCT  25, 1993  05h 02m 26.93± 2.72s
   43.709 N ±17.3km    6.498 E ±17.7km
   DEPTH =  10.0km  (geophysicist)
 NEAR SOUTH COAST OF FRANCE       (379)
     ML 2.0 (LDG).

FRF     0.18 144 Pg   02 31.20   0.2
                Sg    02 35.10
LRG     0.27 201 Pg   02 32.80   0.1
                Sg    02 37.60
LMR     0.38 179 Pg   02 34.40  -0.2
                Sg    02 40.90
SBF     0.70  77 Pg   02 40.70   0.0
                Sg    02 50.30
     S.D. = 0.3  on   4 of   4 obs.
-------------------------------------
*  OCT  25, 1993  05h 08m 49.40± 1.51s
   44.735 S ± 6.2km  167.303 E ±12.2km
   DEPTH =  10.0km  (geophysicist)
 SOUTH ISLAND, NEW ZEALAND        (162)
     ML 4.7 (WEL).

MSZ     0.45  82 Pc   08 58.60   0.1
                eS    09 03.40
MMCZ    1.33 102 P    09 13.70  -0.3
TLC     1.34 111 P    09 13.30  -0.8
MHZ     1.44 104 P    09 15.60  -0.1
CMCZ    1.46 107 Pc   09 15.60  -0.3
SBCZ    1.47 105 Pc   09 16.10   0.1
LRCZ    1.49 104 P    09 16.50   0.2
LSCZ    1.52 105 Pc   09 16.80   0.2
MSCZ    1.54 104 Pc   09 17.30   0.3
LMZ     1.74  55 P    09 21.20   1.4
BWZ     1.85  85 P    09 22.80   1.4
TUZ     2.05 127 P    09 24.00  -0.2
                eS    09 49.10
SIZ     2.22 165 P    09 26.90   0.2
ODZ     2.40  99 P    09 29.60   0.3
WVZ     2.98  57 eP   09 37.30  -0.3
MQZ     3.98  77 eP   09 50.80  -0.9
LTZ     4.09  63 P    09 52.70  -0.7
DSZ     4.44  49 eP   09 57.70  -0.7
     S.D. = 0.7  on  18 of  18 obs.
-------------------------------------
   OCT  25, 1993  05h 19m 16.57± 0.73s
   41.337 N ± 5.8km  139.348 E ± 9.2km
   DEPTH =  32.0 ±  5.4 km
   4.4mb (  5 obs.)
 HOKKAIDO, JAPAN  REGION          (224)

AOMJ    1.10 135 eP   19 35.60  -0.1
                S     19 52.10
MRRJ    1.68  49 eP   19 43.20  -1.0
HOOJ    3.12  69 eP   20 05.60   0.9
                eS    20 45.10
YAMJ    3.20 170 eP   20 06.00   0.2
ASAJ    3.69  40 eP   20 12.90   0.2
NIIJ    4.10 184 P    20 17.50  -1.1
                S     21 02.00
KUSJ    4.35  64 eP   20 22.50   0.3
MAT     4.87 191 iPd  20 29.10  -0.4
                eS    21 23.00
KAKJ    5.16 173 eP   20 34.90   1.2
BJI    17.62 273 eP   23 22.00   0.9
SVW    43.15  40 eP   27 16.50   1.0
IMA    43.87  33 eP   27 20.50  -0.9
       0.9s     6.70nm          4.4mb
FBA    46.39  34 eP   27 41.00  -0.3
INK    51.33  28 eP   28 19.00  -0.4
       0.5s     3.00nm          4.5mb
MBC    52.88  17 eP   28 31.00   0.0
       1.0s     2.00nm          4.0mb
RES    58.84  15 eP   29 12.50  -1.4
       0.9s     2.00nm          4.2mb
WR2    61.15 185 iPc  29 29.00  -1.1
       0.6s     5.30nm          4.8mb
LPAZ  145.59  52 PKP  39 07.20  12.9X
LPB   145.80  52 PKP  38 56.00   1.7
CNCB  146.09  52 iPKPd 38 57.20  2.2X
MOCB  150.90  54 PKP  39 09.10   6.8X
     S.D. = 1.0  on  18 of  21 obs.
-------------------------------------
%  OCT  25, 1993  06h 24m 20.48± 0.65s
   47.555 N ± 6.7km    0.305 E ± 9.8km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                           (538)
     ML 2.0 (LDG).

MFF     1.00 198 Pg   24 39.50   0.0
                Sg    24 52.50
LDF     1.08 345 Pg   24 40.40  -0.4
                Sg    24 55.20
GRR     1.14 317 Pg   24 41.80  -0.1
                Sg    24 57.80
FLN     1.32 337 Pg   24 45.20   0.4
                Sg    25 03.10
TCF     1.82 133 Pg   24 51.70  -0.4
                Sg    25 13.90
BGF     2.00 119 Pg   24 55.10   0.4
                Sg    25 18.10
     S.D. = 0.4  on   6 of   6 obs.
-------------------------------------
*  OCT  25, 1993  06h 44m 25.96± 1.61s
    5.455 S ±19.3km  135.735 E ±17.3km
   DEPTH =  33.0km  (normal)
   3.9mb (  2 obs.)
 IRIAN JAYA REGION, INDONESIA     (196)

WWKK    8.07  77 eP   46 24.30   0.4
MTN     8.64 211 eP   46 32.70   1.0
       0.7s   292.00nm          6.5mb X
                eS    48 13.50
KNA    12.31 213 eP   47 21.10  -0.7
                eS    49 40.30
WR2    14.47 185 iPc  47 48.90  -1.5
                eS    50 31.30
QIS    15.48 166 eP   48 04.50   0.9
                eS    50 59.00
ASPA   18.19 185 eP   48 38.40   0.6
                i     48 40.70
                eS    52 00.70
WARB   22.37 202 eP   49 24.00   1.1
       0.4s     6.00nm          4.4mb
STK    26.86 169 eP   50 04.20  -1.3
       2.0s     2.10nm          3.4mb
MOCB  146.18 142 PKP  04 02.10  -2.9X
CNCB  147.76 134 PKP  04 07.20  -0.5
LPB   147.86 133 PKP  04 04.00  -3.7X
LPAZ  148.00 133 PKP  04 01.20  -7.0X
     S.D. = 1.2  on   9 of  12 obs.
-------------------------------------
&  OCT  25, 1993  06h 44m 50.38s
   60.019 N          152.063 W
   DEPTH =  79.2km
 SOUTHERN ALASKA                  (  2)
     <AEIC>.

NNL     0.39  86 iPc  45 03.79   0.5
HOM     0.42 149 eP   45 03.59   0.1
                eS    45 13.83
ILIM    0.45 278 iPc  45 03.26  -0.7
                eS    45 13.84
INE     0.50 275 ePc  45 03.59  -0.9
                eS    45 14.54
RED     0.54 319 eP   45 03.93  -0.7
                eS    45 15.12
RSO     0.56 323 eP   45 04.49  -0.6
RS2     0.56 322 iPd  45 04.52  -0.6
REF     0.57 326 iPd  45 04.53  -0.6
                eS    45 15.86
RDT     0.58 343 iPd  45 04.41  -0.7
                eS    45 16.04
XLV     0.59 163 eP   45 04.41  -0.7
                eS    45 15.65
RDW     0.60 322 iPd  45 04.78  -0.6
                eS    45 16.03
BRLK    0.65 113 eP   45 05.21  -0.5
                eS    45 16.67
CNPM    0.65 139 iPc  45 05.20  -0.5
                eS    45 17.05
DFR     0.65 332 iPd  45 05.10  -0.7
OPT     0.69 239 iPc  45 05.44  -0.7
                eS    45 17.53
NCT     0.69 322 eP   45 05.40  -0.9
NKA     0.83  29 ePd  45 08.84   1.2
AUE     0.94 226 eP   45 08.13  -0.7
AUL     0.94 228 eP   45 08.19  -0.8
AUP     0.95 227 eP   45 08.03  -1.1
                eS    45 23.26
AGU     0.96 227 eP   45 08.55  -0.7
AUH     0.96 227 eP   45 08.84  -0.4
AUW     0.97 228 eP   45 08.44  -0.8
AUI     0.97 226 ePd  45 08.42  -0.9
                eS    45 22.12
SLKM    1.04  61 eP   45 08.99  -1.2
PDB     1.10 259 iPc  45 09.43  -1.4
                eS    45 24.70
SPU     1.17   0 iPd  45 11.10  -0.7
                eS    45 27.82
CKT     1.19 357 iPd  45 11.33  -0.8
                eS    45 28.33
CKL     1.19 354 iPd  45 11.42  -0.7
CKN     1.21 357 eP   45 11.81  -0.5
CP2     1.25 356 iPd  45 12.13  -0.9
CRP     1.25 358 iPd  45 11.83  -1.2
                eS    45 29.84
BGL     1.26 353 iPd  45 12.39  -0.6
CGLM    1.29   1 iPd  45 12.91  -0.5
SEW     1.31  85 eP   45 11.96  -1.6
CDD     1.36 217 eP   45 12.82  -1.4
                eS    45 30.66
NCG     1.39 358 iPd  45 14.07  -0.7
SYI     1.42 187 iPd  45 13.82  -1.2
                eS    45 32.56
MCNL    1.43 235 ePc  45 13.22  -1.9
                eS    45 31.32
MPA     1.43  70 eP   45 13.91  -1.2
                eS    45 33.08
SUA     1.59  24 iPd  45 16.73  -0.6
                eS    45 37.12
PMS     1.74  44 P    45 18.50  -0.8
PWA     1.96  32 P    45 21.60  -0.6
                S     45 45.70
SKT     1.99   7 ePd  45 21.43  -1.2
                eS    45 47.05
PWL     2.03  64 eP   45 21.12  -2.1
SVW     2.07 303 iPc  45 21.39  -2.4
LTI     2.11  88 eP   45 22.36  -2.0
PLRM    2.13  41 eP   45 22.72  -1.9
PMR     2.13  41 eP   45 22.49  -2.1
KNIM    2.19  79 eP   45 22.64  -2.7
KNK     2.26  50 eP   45 24.33  -2.0
KDC     2.29 186 eP   45 23.60  -3.1
GHO     2.33  40 eP   45 25.96  -1.5
                eS    45 52.60
CFI     2.42  59 eP   45 26.70  -1.8
CUT     2.55  19 eP   45 28.91  -1.4
SML     2.56  44 eP   45 28.59  -1.9
HIN     2.80  80 eP   45 32.05  -1.8
FID     2.87  73 eP   45 31.00  -3.8
VZW     2.92  67 eP   45 32.70  -2.8
SCM     2.94  50 eP   45 33.77  -2.1
MID     2.96  99 P    45 34.70  -1.3
VLZ     3.04  66 eP   45 34.52  -2.6
                eS    46 08.67
CVA     3.19  78 eP   45 36.95  -2.2
HUR     3.19  20 eP   45 38.38  -0.8
KLU     3.36  61 eP   45 39.03  -2.6
TTA     3.48 329 (P)  45 42.37  -1.0
TOA     3.55  51 eP   45 42.20  -2.0
TRF     3.55  13 eP   45 42.89  -1.5
KTH     3.59   8 eP   45 44.14  -0.7
RND     3.73  23 eP   45 45.12  -1.6
DHY     3.80  34 eP   45 46.07  -1.8
MCK     4.01  20 eP   45 48.98  -1.7
GLB     4.30  67 eP   45 52.52  -2.2
CRQM    4.49  77 eP   45 55.56  -2.0
WAX     4.61  81 eP   45 56.16  -3.0
TGL     4.64  77 eP   45 57.49  -2.1
NEA     4.78  16 eP   45 58.90  -2.6
WRH     4.84  21 eP   45 59.55  -2.7
BALM    4.91  74 eP   46 00.60  -2.7
HDA     5.01  26 eP   46 02.29  -2.3
DJE     5.02  34 eP   46 03.69  -1.1
CCB     5.05  21 eP   46 02.44  -2.7
```

25d 06h

```
MLY     5.07   6 eP    46 03.18  -2.3
YAH     5.16  82 eP    46 04.66  -2.3
MDM     5.27  18 eP    46 05.40  -2.8
FBA     5.28  20 eP    46 05.12  -3.3
ILB     5.34  25 eP    46 06.22  -3.0
IL1     5.34  25 eP    46 06.29  -3.0
                eS    47 04.55
CTGM    5.39  75 eP    46 07.88  -2.2
GLM     5.44  21 eP    46 07.68  -2.9
BC3     5.79  54 eP    46 12.28  -3.2
IM3     6.04 353 eP    46 15.82  -3.1
IMA     6.12 354 eP    46 17.28  -2.9
PRP     6.28  26 eP    46 19.45  -3.0
      94 obs. associated
-----------------------------------
?  OCT  25, 1993  07h 30m 23.09± 3.23s
   35.713 N ±20.3km  140.695 E ±29.3km
   DEPTH =  65.1 ± 21.0 km
   4.1mb (  3 obs.)
 NEAR EAST COAST OF HONSHU, JAPAN(228)

MAT     2.18 293 iPd   30 57.70   0.0
                eS    31 25.00
GUN    46.72 277 P     38 48.60   0.8
KKN    47.25 277 P     38 51.60  -0.3
GKN    47.69 277 P     38 54.80  -0.4
WRA    55.68 187 P     39 53.80  -1.1
       0.7s     1.00nm          4.0mb
WR2    55.68 187 eP    39 56.00   1.1
       0.4s     2.20nm          4.5mb
GBA    60.54 266 P     40 29.00  -0.1
NB2    75.18 337 P     41 59.90   0.0
       0.7s     1.50nm          4.0mb
LPAZ  147.85  60 PKP   50 04.60   4.2X
LPB   148.04  61 ePKP  50 04.00   3.6X
CNCB  148.31  61 PKP   50 07.50   6.5X
     S.D. = 0.9  on   8 of  11 obs.
-----------------------------------
   OCT  25, 1993  08h 18m 14.25± 0.54s
   38.970 S ± 4.8km  174.958 E ± 5.9km
   DEPTH = 232.5 ±  6.7 km
 NORTH ISLAND, NEW ZEALAND        (159)

MOZ     0.48 345 P     18 45.00  -0.1
                S     19 07.20
CNZ     0.51 117 Pd    18 45.80   0.5
NGZ     0.54 113 Pc    18 45.90   0.4
DRZ     0.56 123 P     18 46.10   0.3
BSZ     0.83 181 P     18 47.40   0.7
NRZ     0.88 245 P     18 47.60   0.6
PATZ    1.18  60 P     18 48.70  -0.2
WLZ     1.21  25 P     18 48.90  -0.1
                S     19 14.60
UTU     1.25  51 P     18 49.20  -0.1
WAHZ    1.31 124 P     18 50.10   0.3
TAZ     1.42  59 P     18 50.50   0.0
TTH     1.56 112 P     18 52.80   1.2
PAHZ    1.64  87 P     18 52.50   0.1
MNG     1.69 166 Pc    18 53.30   0.5
                S     19 20.40
TEHZ    1.76 126 P     18 54.00   0.6
URZ     1.83  68 P     18 52.90   1.1
                S     19 19.50
KIW     1.89 181 Pc    18 54.80   [illegible]
PGZ     1.93 149 P     18 55.40   [illegible]
DIW     2.00 203 P     18 55.40   [illegible]
CAW     2.14 178 P     18 57.10   [illegible]
MTW     2.23 169 P     18 57.[illegible]   [illegible]
MRW     2.27 185 P     18 58.30   [illegible]
                S     19 30.[illegible]
MAHZ    2.28  96 P     18 58.[illegible]   [illegible]
KUZ     2.30  15 P     18 58.[illegible]   [illegible]
TCW     2.30 193 P     18 59.[illegible]   [illegible]
WEL     2.32 184 P     18 59.[illegible]   [illegible]
                S     19 30.[illegible]
BLW     2.43 171 P     18 59.[illegible]
NOZ     2.43  83 P     18 59.[illegible]   [illegible]
QRZ     2.63 224 P     19 0.[illegible]
PUZ     2.74  72 P     19 02.[illegible]   [illegible]
                S     19 34.[illegible]
CCW     2.83 191 P     19 05.[illegible]   [illegible]
HBZ     2.97  64 P     19 04.[illegible]   [illegible]
THZ     3.20 209 P     19 06.[illegible]   [illegible]
                S     19 48.[illegible]
KHZ     3.61 197 P     19 13.[illegible]   [illegible]
                eS    19 56.[illegible]
DSZ     3.67 220 P     19 12.9[illegible]   [illegible]
```

```
LTZ     4.32 207 P     19 21.20  -0.5
                eS    20 11.10
MQZ     5.04 199 P     19 28.70  -1.8
                S     20 25.70
WVZ     5.20 217 P     19 31.70  -0.8
                S     20 28.20
ODZ     6.87 206 P     19 53.00  -0.6
WRA    39.73 287 P     25 27.90   2.2
       0.6s     0.40nm          3.1mb
     S.D. = 0.7  on  40 of  40 obs.
-----------------------------------
   OCT  25, 1993  08h 39m 19.83± 0.19s
    7.851 S ± 3.6km  130.128 E ± 6.0km
   DEPTH =  33.0km  (normal)
   5.2mb ( 37 obs.)
 TANIMBAR ISLANDS REG., INDONESIA(281)
      Mw 5.3 (HRV).
      CENTROID, MOMENT TENSOR    (HRV)
      Data Used: GDSN
      L.P.B.: 44S, 68C
      Centroid Location:
      Origin Time        08:39:22.5 0.3
      Lat  8.09S 0.03 Lon 130.14E 0.04
      Dep  28.1 2.4 Half-duration  1.1
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 0.82 0.04  Mtt=-1.19 0.04
        Mff= 0.37 0.06  Mrt= 0.03 0.14
        Mrf= 0.08 0.09  Mtf=-0.29 0.05
       Principal Axes:
        T  Val=  0.84  Plg=79  Azm=266
        N        0.41      11       80
        P       -1.24       1      170
      Best Double Couple:Mo=1.0*10**17
       NP1:Strike=271 Dip=45 Slip= 105
       NP2:        70     47       75

KNA     7.96 190 eP    41 11.50  -4.7X
       0.3s   122.00nm          6.5mb X
WRA    12.70 162 P     42 12.10  -8.8X
       0.6s    81.10nm          6.0mb X
WR2    12.71 162 iPc   42 11.30  -9.8X
                eS    44 27.40
DAV    15.52 343 ePc+  43 04.00   6.0X
QIS    15.61 145 iPc   42 51.10  -8.0X
                eS    45 32.40
ASPA   16.14 167 iPc   42 57.10  -8.8X
     Z  18s    14.00um
                ipP   43 07.50
                iS    45 49.00
BIP    16.43 346 ePc   43 10.50   0.8
TSM    17.18 314 ePc   43 22.00   3.0X
WARB   18.53 190 eP    43 30.00  -5.8X
       0.6s   113.00nm          5.2mb
                eS    46 47.00
MAP    19.06 341 ePc   43 41.00  -1.3
KKM    19.57 314 ePc   43 56.20   7.9X
       1.2s   243.10nm          5.4mb
PLP    19.57 345 ePc   43 49.00   0.8
CTA    19.80 130 iPc+  43 48.20  -2.3
       0.8s    44.78nm          4.8mb
                eS    47 27.00
[illegible]    21.24  77 eP    44 05.00  -0.5
MEEK   21.65 209 eP    44 08.50  -1.1
                eS    47 58.80
LEM    22.35 271 ePc   44 18.50   1.8
[illegible]    22.89 185 eP    44 20.30  -1.5
[illegible]    23.64 337 iPd   44 29.50   0.3
[illegible]    24.08 338 eP    44 33.00  -0.4
[illegible]    24.41 199 eP    44 35.50  -1.0
[illegible]    25.07 210 iPd   44 42.60  -0.3
       0.6s    46.00nm          5.3mb
                iS    49 18.00
[illegible]    25.84  35 eP    44 46.20  -4.0X
       1.0s   171.10nm          5.6mb
[illegible]    25.89 339 eP    44 53.20   2.4
[illegible]    25.89 339 eP    44 49.50  -1.4
[illegible]    25.89 207 eP    44 50.00  -0.6
                eS    49 36.10
[illegible]    26.19 157 eP    44 51.60  -1.7
       0.8s    30.90nm          5.0mb
                eS    49 32.70
[illegible]    26.29 204 iPd   44 53.40  -0.8
       0.8s    42.00nm          5.1mb
[illegible]    26.68 342 eP    44 57.00  -1.0
[illegible]    27.28 206 eP    45 02.60  -0.7
       0.8s    63.00nm          5.3mb
                eS    50 14.80
```

```
NWAO   27.67 204 eP    45 06.10  -0.7
       0.8s    29.00nm          5.0mb
                eS    50 22.00
ADE    28.12 165 e(P)  45 09.80  -1.1
HNR    29.52  95 eP    45 20.00  -3.7X
ARMA   30.16 141 eP    45 31.10   1.7
CNB    32.53 150 eP    45 49.00  -1.1
TOO    32.70 157 iPc   45 51.40  -0.1
       0.7s    43.00nm          5.5mb
                epP   46 37.50 225kmX
SNG    33.00 296 eP    45 55.00   0.8
       2.0s  1000.00nm          6.4mb X
DZM    37.70 116 iPc   46 32.60  -1.8
BDT    39.60 309 eP    46 50.00  -0.2
       0.7s    30.10nm          5.2mb
SSE    39.66 348 P     46 49.00  -1.5
       1.0s    11.00nm          4.6mb
     Z  20s     0.50um          4.4Msz
                eS    52 56.00
KUMJ   40.16   1 P     46 54.50  -0.1
CHTO   40.59 311 iPc   46 58.00  -0.3
       1.1s    21.79nm          4.8mb
GYA    41.01 327 P     47 01.60  -0.2
WHN    41.07 339 eP    47 02.50   0.5
       0.7s    21.00nm          5.0mb
NJ2    41.11 345 Pd    47 02.40   0.0
     Z  24s     0.25um          4.0MszX
TKSJ   41.77   5 P     47 08.20   0.4
WKYJ   42.16   7 P     47 11.60   0.6
KMI    42.26 322 eP    47 12.00  -0.2
       1.5s    70.00nm          5.2mb
                pP    47 18.00  20kmX
YONJ   42.92   4 P     47 17.70   0.5
TSRJ   43.50   7 P     47 22.30   0.4
IIDJ   43.72   9 P     47 23.60  -0.1
CHJJ   44.45  10 P     47 27.60  -2.0
MTMJ   44.78   9 P     47 31.20  -1.2
KAKJ   44.83  12 P     47 31.40  -1.2
NIIJ   45.62  10 P     47 38.10  -0.7
CD2    46.09 328 eP    47 41.70  -1.0
XAN    46.26 335 P     47 42.00  -2.1
       1.0s    22.00nm          5.1mb
     Z  20s     0.42um          4.4Msz
YAMJ   46.71  11 eP    47 48.20   0.7
TIY    48.25 341 eP    47 58.40  -1.3
     Z  22s     0.78um          4.6Msz
BJI    49.37 346 eP    48 07.50  -0.6
       1.0s    17.00nm          5.0mb
     Z  20s     0.60um          4.6Msz
                eS    55 18.00
SNY    49.80 354 Pc    48 11.00  -0.4
       1.0s    51.00nm          5.5mb
LZH    50.21 332 eP    48 14.00  -0.9
       1.6s    38.00nm          5.2mb
     Z  25s     0.59um          4.5MszX
                pP    48 20.00  20kmX
                sP    48 25.00
                PcP   49 34.00
HHC    51.39 342 Pd    48 23.60  -0.1
       1.2s    32.00nm          5.2mb
CN2    51.58 356 eP    48 24.00  -1.0
       0.6s    11.00nm          5.0mb
     Z  20s     0.37um          4.4Msz
BTO    51.65 340 eP    48 24.00  -1.7
MDJ    52.22 360 eP    48 28.60  -1.2
       1.4s    77.00nm          5.5mb
LSA    52.90 317 P     48 35.70   0.0
GTA    54.77 331 eP    48 47.60  -1.3
       1.0s    37.00nm          5.4mb
     Z  26s     0.68um          4.6MszX
     E  11s     0.66um
                ScS   58 34.50
GBA    56.49 292 P     49 00.00  -1.4
HYB    56.80 297 eP    48 52.00 -11.8X
DRV    59.12 175 eP    49 36.00  16.8X
                S     58 00.00
                SS    01 30.00
CSY    59.90 189 iPd   49 34.40   9.8X
       0.5s    17.40nm          5.4mb
CIT    61.28 348 eP    49 35.00   0.8
NDI    62.60 308 eP    49 41.00  -2.4
IRK    63.83 343 eP    49 51.00  -0.2
       1.6s    46.00nm          5.3mb
WMQ    64.17 327 P     49 53.10  -0.5
KSH    68.69 318 eP    50 25.50   3.0
YAK    69.66 360 iPc   50 27.20  -0.5
       1.0s   740.00nm          6.7mb X
```

```
FRU    71.29 320 eP    50 40.00    1.8
MAW    74.21 202 iP+   50 56.10    1.2
       1.0s    25.00nm          5.2mb
ADK    74.84  31 eP    50 58.42   -0.3
       0.9s    20.83nm          5.1mb
MAIO   79.31 309 iPc   51 25.00    0.9
       0.6s     1.40nm          4.1mb X
                eS     01 36.00
TIK    79.32 360 iPc   51 22.00   -1.2
       1.0s    95.00nm          5.7mb
ASH    80.69 310 eP    51 29.50   -1.8
SPA    82.20 180 iPd   51 35.00   -3.9X
       1.0s    15.00nm          5.0mb
ILT    83.72  17 iPc   51 47.00    0.6
       1.2s    66.00nm          5.7mb
SDN    84.95  32 eP    51 53.41    0.7
       0.8s   134.44nm          6.2mb
SVE    85.55 329 ePc   51 55.50   -0.3
       1.8s   200.00nm          6.0mb
ARU    86.46 328 eP    52 00.00   -0.3
       1.0s   100.00nm          6.0mb
TTA    89.69  26 eP    52 16.12    0.4
       1.0s     6.93nm          4.9mb
NVL    91.58 197 (P)   52 26.00    1.7
ERE    91.68 310 eP    52 26.00    0.6
PMR    92.46  28 eP    52 27.92   -0.4
       0.9s    10.97nm          5.3mb
FBA    93.70  25 eP    52 32.88   -1.2
       0.8s     5.27nm          5.0mb
BALM   95.61  29 eP    52 43.72    0.6
OBN    98.40 325 eP    52 55.00   -0.6
       1.3s    42.00nm          5.8mb
CLL   112.90 323 iPKP  57 55.60    0.6
GEC2  113.15 320 PKP   57 55.80    0.0
       0.6s     2.48nm
                e      58 09.30
GRF   114.47 321 ePKP  57 59.00    0.8
LRM   114.59  43 ePKP  57 59.60    0.7
HVU   115.32  47 ePKP  58 01.46    1.2
DUG   115.62  49 ePKP  58 01.45    0.5
MSU   116.45  51 ePKP  58 03.99    1.3
SRU   117.58  50 ePKP  58 05.38    0.7
BSF   117.85 320 ePKP  58 04.80    0.0
       0.8s    11.55nm
LPG   118.67 318 ePKP  58 07.20    0.5
       0.6s     3.25nm
LPL   118.68 318 ePKP  58 07.10    0.5
       0.7s     7.60nm
PV09  118.78  50 ePKP  58 08.34    1.2
PV10  118.88  50 ePKP  58 08.34    1.0
PV08  119.13  50 ePKP  58 09.15    1.3
LBF   119.94 320 ePKP  58 09.20    0.5
       0.7s     4.95nm
SMF   120.15 320 ePKP  58 08.60   -0.5
       0.8s     4.15nm
SSF   120.20 321 ePKP  58 09.80    0.6
       0.7s     8.50nm
AVF   120.41 320 ePKP  58 09.80    0.2
       0.9s     6.20nm
RSSD  120.79  43 ePKP  58 10.34   -0.4
BGF   120.82 320 ePKP  58 11.10    0.7
       0.8s    17.85nm
GOL   121.28  48 ePKP  58 13.02    1.2
TCF   121.33 320 ePKP  58 12.20    0.8
       0.7s     4.20nm
ALQ   121.71  54 ePKP  58 13.73    1.0
CAF   121.97 319 ePKP  58 13.90    1.2
       0.9s    10.50nm
LPF   122.57 323 ePKP  58 14.50    0.9
       1.0s    20.40nm
LPO   122.64 319 ePKP  58 15.10    1.2
       0.8s     8.35nm
MFF   122.68 321 ePKP  58 14.50    0.6
       1.0s    18.40nm
DLF   122.76 331 ePKP  58 14.60    0.8
DCN   123.09 331 ePKP  58 15.40    1.0
LTX   125.25  60 ePKP  58 20.21    0.6
ACO   126.89  50 iPKPd 58 23.30    0.8
WMOK  127.83  52 ePKP  58 24.68    0.4
MEO   127.96  52 iPKPc 58 25.50    1.0
TUL   129.70  49 iPKPc 58 29.80    2.0X
UYO   131.37  51 iPKPd 58 31.20    0.2
SLA   144.22 155 ePKPd 58 54.00   -1.0
HJA   145.59 154 ePKPd 59 00.00    2.8X
YJA   146.46 153 e(PKP)59 01.20    1.9
NNA   146.72 126 ePKP  59 02.00    2.7X
       1.0s    15.00nm
MOCB  147.20 152 PKP   59 01.70    1.2
ARE   147.73 139 ePKP  59 06.00    4.8X
VAO2  148.94 186 (PKP) 59 06.00    3.2X
VAO   149.21 185 ePKP  59 07.60    4.5X
CNCB  149.65 144 PKP   59 07.00    2.5X
LPB   149.80 143 PKP   59 07.00    2.4X
       1.0s    80.00nm
                i      59 12.00
LPAZ  149.97 143 PKP   59 07.00    1.9X
CCH   150.22 147 PKPc  59 12.30    7.2X
PPD   150.27 177 ePKP  59 09.40    4.7X
     S.D. = 1.1  on 117 of 143 obs.
-----------------------------------
&  OCT  25, 1993  08h 42m 37.85s
   34.961 N          116.977 W
   DEPTH =   6.0km  (geophysicist)
 SOUTHERN CALIFORNIA              ( 43)
      <PAS-P>. ML 2.8 (PAS).

GSC     0.37  23 iPd   42 47.95    2.7
SSK     0.95 218 eP    42 55.22   -1.3
PEC     1.08 188 ePd   42 57.33   -1.2
                S      43 12.47
ISA     1.41 300 eP    43 02.73   -1.4
PLM     1.61 177 eP    43 06.09   -0.9
ABL     1.85 267 (P)   43 10.90    0.4
        6 obs. associated
-----------------------------------
?  OCT  25, 1993  09h 09m 27.43±12.04s
   40.322 N ±52.3km   29.369 E ±75.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 2.7 (ISK).

ISK     0.78 342 ePg   09 42.60    0.0
                eSg    09 53.60
CTT     1.09 319 iPg   09 47.90    0.0
                iSg    10 02.90
BNT     1.11 272 ePn   09 48.90    0.7
EDC     1.15 272 ePn   09 48.30   -0.7
     S.D. = 0.9  on   4 of   4 obs.
-----------------------------------
%  OCT  25, 1993  09h 13m 26.72± 2.54s
   39.202 N ±20.0km   27.543 E ± 8.5km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 2.7 (ISK).

DST     0.93  64 ePn   13 44.60    0.0
EZN     1.13 304 iPn   13 47.80   -0.1
EDC     1.17  12 iPn   13 48.30   -0.3
BNT     1.19  14 iPn   13 48.90    0.0
KGT     1.26 352 iPn   13 50.40    0.3
     S.D. = 0.3  on   5 of   5 obs.
-----------------------------------
?  OCT  25, 1993  09h 38m 58.74± 5.58s
   40.283 N ±46.2km   27.859 E ±12.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 2.7 (ISK).

EDC     0.06   3 iPg   39 00.30   -0.7
                iSg    39 01.30
BNT     0.09  33 iPg   39 00.90   -0.4
KGT     0.46 292 iPg   39 08.40    0.4
MFT     0.67 319 iPg   39 11.40   -0.7
CTT     0.97  27 iPg   39 17.90    0.8
DMK     1.54 357 ePn   39 27.00    0.8
     S.D. = 0.9  on   6 of   6 obs.
-----------------------------------
?  OCT  25, 1993  09h 46m 24.59±13.16s
   32.085 S ±96.3km   71.632 W ±52.5km
   DEPTH =  40.0km  (geophysicist)
 NEAR COAST OF CENTRAL CHILE      (135)
      MD 3.8 (SAN).

ROCH    1.03 149 iPd   46 42.81   -0.1
                iS     46 54.89
JACH    1.06 124 iP+   46 43.25    0.0
                iS     46 55.63
PEL     1.32 143 iP+   46 47.05    0.1
                iS     47 01.73
LCCH    1.39 178 eP    46 48.11    0.3
                iS     47 03.84
TACH    1.67 160 iP    46 51.99    0.1
LNV     1.87 174 iP    46 54.35   -0.4
     S.D. = 0.3  on   6 of   6 obs.
-----------------------------------
%  OCT  25, 1993  09h 46m 54.17± 0.72s
   40.522 N ± 6.6km   22.879 E ± 6.4km
   DEPTH =  10.0km  (geophysicist)
 GREECE                           (364)
      ML 1.2 (THE).

THE     0.13  31 ePg   46 57.22    0.0
                eSg    46 59.38
SOH     0.47  50 ePg   47 03.70    0.0
                eSg    47 10.98
LIT     0.52 215 ePg   47 04.74    0.1
                eSg    47 12.46
GRG     0.57 320 ePg   47 05.50   -0.2
                eSg    47 12.90
SRS     0.80  42 ePg   47 10.06    0.3
                eSg    47 22.22
OUR     0.86 102 ePg   47 10.54   -0.2
                eSg    47 22.82
     S.D. = 0.2  on   6 of   6 obs.
-----------------------------------
&  OCT  25, 1993  09h 47m 59.02s
   33.010 N          116.566 W
   DEPTH =  13.3km
 SOUTHERN CALIFORNIA              ( 43)
      <PAS-P>. ML 2.3 (PAS). Felt.

PLM     0.42 324 ePc   48 07.19   -0.6
                eS     48 13.04
PEC     1.01 331 eP    48 16.73   -1.1
                eS     48 29.52
GLA     1.46  88 eP    48 22.68   -2.4
SSK     1.52 322 eP    48 26.00   -0.1
GSC     2.29 355 (Pn)  48 34.18   -3.0
        5 obs. associated
-----------------------------------
*  OCT  25, 1993  09h 52m 37.31± 1.18s
   21.201 S ±10.8km   67.409 W ±21.6km
   DEPTH = 200.0km  (geophysicist)
 CHILE-BOLIVIA BORDER REGION      (124)

MOCB    1.65  92 P     53 13.20   -0.1
YJA     2.02 119 iPd   53 16.90    0.0
                S      53 46.00
SLA     3.93 154 iP    53 38.90    0.0
                (S)    54 27.00
CCH     3.98  18 Pc    53 39.80    0.0
CNCB    4.40 353 iPc   53 45.40    0.1
LPB     4.69 352 Pc    53 49.20    0.4
LPAZ    4.93 352 iPc   53 51.60   -0.6
     S.D. = 0.3  on   7 of   7 obs.
-----------------------------------
*  OCT  25, 1993  10h 05m 48.62± 0.93s
    5.916 S ± 7.8km  146.057 E ±11.2km
   DEPTH =  10.0km  (geophysicist)
   3.8mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY    0.33 195 iPd   05 55.40   -0.2
MDG     0.72 337 eP    06 02.50   -0.2
                eS     06 16.80
LAT     1.20 128 eP    06 11.20    0.3
MNDI    2.40 264 eP    06 34.00    5.2X
WWKK    3.33 313 eP    06 43.80    2.0X
PMG     3.64 163 eP    06 45.50   -0.6
WR2    17.99 218 eP    10 00.00   -0.6
       0.5s     3.10nm          3.7mb
ASPA   21.17 212 eP    10 38.00    1.4
       0.9s     4.90nm          3.9mb
     S.D. = 1.0  on   6 of   8 obs.
-----------------------------------
   OCT  25, 1993  10h 07m 11.58± 0.10s
    5.882 S ± 2.1km  145.933 E ± 2.8km
   DEPTH =  18.1km  (geophysicist)
   5.7mb ( 77 obs.)  5.6Msz ( 10 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      Mw 5.9 (HRV). ML 6.1 (PMG).
      Depth from broadband
      displacement seismograms.
      FAULT PLANE SOLUTION: P-Waves
       NP1:Strike=110 Dip=78 Slip=  90
       NP2:       290     12        90
       Principal Axes:
        T                Plg=57  Azm= 20
        P                  33       200
      Comment: The focal mechanism is
        poorly controlled and
```

25d 10h

corresponds to reverse
faulting. The preferred fault
plane is NP2.
RADIATED ENERGY
No. of sta: 13 Focal mech. F
Energy 1.3±0.2*10**13 Nm
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 47S, **C
Centroid Location:
Origin Time 10:07:17.9 0.2
Lat 6.13S 0.03 Lon 146.16E 0.03
Dep 15.0 FIX Half-duration 2.2
Moment Tensor; Scale 10**17 Nm
Mrr= 5.28 0.14 Mtt=-5.23 0.16
Mff=-0.04 0.19 Mrt= 6.75 0.50
Mrf=-1.52 0.35 Mtf= 0.96 0.13
Principal Axes:
T Val= 8.68 Plg=64 Azm= 14
N 0.12 1 282
P -8.80 26 191
Best Double Couple:Mo=8.7*10**17
NP1:Strike=278 Dip=19 Slip= 86
NP2: 102 71 91

YYYY 0.36 174 iPc 07 18.70 -0.6
MNDI 2.28 263 eP 07 55.50 6.4X
WWKK 3.21 314 eP 08 08.00 5.7X
PMG 3.71 161 eP 08 09.80 0.6
KVG 5.86 56 eP 08 40.50 0.8
RAB 6.43 75 iPd 08 47.00 -0.8
iS 10 04.00
TLE 13.12 270 ePd 10 24.90 5.2X
CTA 14.12 179 iPc+ 10 34.00 1.0
0.8s 82.09nm 5.5mb
i 10 38.50
e 10 44.00
i 10 51.00
CTAO 14.12 179 ePd 10 33.41 0.4
HNR 14.33 105 ePc 10 37.00 1.3
eS 13 32.00
SLKI 14.68 261 ePd 10 43.00 2.8X
QIS 15.83 202 iPc 10 56.90 1.7
WR2 17.94 218 eP 11 22.00 0.1
0.8s 399.50nm 5.6mb
eS 14 36.10
WRA 17.96 218 P 11 22.39 0.3
0.7s 191.90nm 5.3mb
GUA 19.32 357 e(P) 11 41.00 2.1
1.2s 1475.00nm 6.1mb
e 11 46.00 19kmX
GUMO 19.37 357 ePc 11 40.09 0.7
1.4s 1144.00nm 5.9mb
Z 19s 72.30um 4.7Msz
ec 11 44.73 17kmX
eS 35 08.00
PJG 19.37 357 e(P) 11 41.20 1.8
KNA 19.49 238 eP 11 30.90 -9.8X
NMCC 20.90 359 P 11 56.20 0.7
ASPA 21.14 212 iPc 11 57.50 -0.5
Z 20s 41.70um 5.8Msz
ipP 12 02.90 20kmX
eS 15 54.30
iScS 23 27.00
DAV 24.06 302 eP- 12 27.20 0.4
BIP 24.12 305 ePd 12 29.00 1.5
BKM 24.75 120 iP 12 34.50 0.9
PVC 24.84 120 iPc 12 35.00 0.6
ARMA 24.99 168 iPd 12 34.90 -1.0
0.4s 48.00nm 5.5mb
iScP 19 54.20
e 20 10.00
CTB 25.28 301 ePd 12 44.00 5.4X
DZM 25.54 131 iPc 12 40.10 -1.0
ScS 23 49.30
STK 26.18 188 P 12 45.59 -1.3
PLP 26.86 309 ePc 12 54.00 0.7
MAP 27.15 306 eP 12 57.00 1.1
WARB 27.33 220 eP 12 59.00 1.5
0.6s 85.00nm 5.6mb
CNB 29.46 174 eP 13 15.50 -1.2
0.9s 39.00nm 5.2mb
ADE 29.70 192 eP 13 18.20 -0.7
TSM 29.79 289 ePd 13 20.90 1.1
FORT 29.92 212 eP 13 21.40 0.6
TOO 31.54 181 eP 13 34.00 -1.1
0.8s 98.00nm 5.8mb

KKM 31.94 291 ePc 13 47.00 8.1X
QCP 31.99 310 eP 13 26.00 -13.1X
BCP 33.44 312 eP 13 52.00 0.0
BAG 33.46 312 eP+ 13 50.00 -2.2
eS 19 12.00
VUN 33.96 114 eP 13 57.10 0.8
SVA 33.99 114 eP 13 56.20 -0.3
COOL 34.06 220 eP 13 56.00 -1.1
MRWA 36.58 227 eP 14 17.80 -0.7
0.3s 7.00nm 5.0mb
KLB 36.73 222 eP 14 19.00 -0.8
0.3s 11.00nm 5.2mb
BAL 36.86 225 eP 14 20.20 -0.7
0.3s 14.00nm 5.3mb
NWAO 37.91 221 ePc 14 30.83 1.2
1.0s 65.00nm 5.4mb
epPd 14 34.14 11kmX
esPc 14 37.45
MUN 38.02 223 eP 14 30.10 -0.5
0.3s 138.00nm 6.2mb
LEM 38.09 266 iPc 14 33.50 1.9
1.0s 90.00nm 5.5mb
iS 19 24.00
RKG 39.10 219 eP 14 40.20 0.6
0.8s 57.00nm 5.3mb
KAGJ 39.57 340 eP 14 46.10 2.6X
QZH 40.58 320 Pc 14 52.00 0.1
Z 23s 6.07um 5.4MszX
E 14s 2.94um
S 20 56.00
KUMJ 40.82 340 P 14 53.10 -0.7
KUZ 41.05 143 P 14 55.50 -0.1
WKYJ 41.06 347 P 14 54.70 -1.1
TKSJ 41.21 345 P 14 56.20 -0.8
MOZ 41.70 145 P 15 02.20 1.2
WLZ 41.72 144 P 15 01.90 0.7
0.8s 65.00nm 5.4mb
IIDJ 41.83 350 P 15 01.20 -0.9
HKC 41.85 313 iP 15 04.00 1.7
SHK 42.10 344 eP 15 04.80 0.5
QRZ 42.15 150 P 15 05.00 0.4
SHNJ 42.19 342 P 15 03.90 -1.1
KAKJ 42.21 353 P 15 05.20 0.1
CHJJ 42.21 352 P 15 04.00 -1.2
TSRJ 42.25 348 P 15 06.10 0.7
AFI 42.36 104 ePc 15 06.89 0.1
epPd 15 12.02 17kmX
eS 21 28.00
PATZ 42.45 144 P 15 08.40 1.1
YONJ 42.51 345 P 15 06.10 -1.5
CNZ 42.60 145 P 15 09.70 1.2
NGZ 42.61 145 P 15 09.70 1.1
BSZ 42.67 147 P 15 10.50 1.6
MAJO 42.82 351 ePc 15 08.77 -1.4
esPd 15 17.38
MAT 42.82 351 iPc 15 08.90 -1.2
1.8s 600.00nm 6.0mb
eS 21 36.00
DIW 42.85 148 P 15 10.20 -0.2
URZ 42.88 143 P 15 10.10 -0.5
MTMJ 42.92 350 P 15 10.70 -0.4
GZH 42.93 313 Pc 15 13.50 2.3
Z 19s 3.69um 5.3Msz
N 12s 1.69um
E 14s 1.98um
S 21 38.50
WVZ 43.03 153 eP 15 10.50 -1.3
THZ 43.04 150 P 15 11.30 -0.7
MSZ 43.16 157 eP 15 12.70 -0.1
HBZ 43.18 142 eP 15 12.80 -0.2
PAHZ 43.24 144 P 15 14.40 0.8
KGM 43.27 279 ePd 15 14.70 0.5
QIZ 43.32 306 ePc 15 14.61 0.1
N 16s 3.45um
E 16s 2.06um
esPd 15 22.73
PP 16 56.00
S 21 40.00
TCW 43.33 149 P 15 13.80 -0.5
NIIJ 43.38 352 P 15 14.60 -0.1
WAHZ 43.40 145 P 15 14.70 -0.2
KIW 43.42 148 P 15 12.80 -2.2
PUZ 43.45 142 P 15 14.90 -0.4
0.8s 960.00nm 6.6mb
LTZ 43.51 152 P 15 15.40 -0.3
0.6s 47.00nm 5.4mb
MNG 43.55 147 P 15 15.40 -0.7

MRW 43.57 148 eP 15 14.60 -1.6
SNZO 43.63 148 (P) 15 16.83 0.2
epPd 15 20.88 14kmX
S 21 42.00
NOZ 43.66 143 P 15 16.70 -0.3
0.8s 444.00nm 6.3mb
CAW 43.67 148 eP 15 16.60 -0.4
SSE 43.72 329 iPc 15 17.31 -0.2
0.8s 61.00nm 5.5mb
Z 20s 13.40um 5.8Msz
N 16s 4.00um
isPd 15 25.34
pP 15 28.50 39kmX
PP 16 59.00
S 21 40.00
sS 21 56.00
BWZ 43.83 155 P 15 17.50 -0.7
KHZ 43.85 150 P 15 17.40 -1.0
MAHZ 43.94 144 eP 15 19.70 0.5
MTW 43.94 148 P 15 18.00 -1.2
PGZ 43.98 146 P 15 19.00 -0.5
YAMJ 44.17 353 eP 15 22.50 1.4
MQZ 44.40 152 eP 15 18.90 -3.9X
TUZ 44.89 157 P 15 25.50 -1.3
0.6s 65.00nm 5.7mb
NJ2 45.70 327 Pc 15 33.80 0.4
Z 22s 5.43um 5.4Msz
N 15s 4.11um
E 14s 1.92um
S 22 18.00
IPM 46.03 282 ePc 15 37.40 1.1
0.9s 173.20nm 6.0mb
e 17 10.70 492kmX
AOMJ 46.49 354 eP 15 41.20 1.7
SNG 47.04 285 eP 15 46.90 2.7X
eS 22 40.00
WHN 47.18 322 eP 15 46.00 0.9
1.0s 65.00nm 5.6mb
N 16s 5.37um
E 14s 2.61um
S 22 43.00
HOOJ 48.09 357 eP 15 53.30 1.2
MRRJ 48.28 355 eP 15 53.50 0.0
KUSJ 48.76 359 eP 15 57.70 0.5
LOE 49.41 299 iPc 16 03.00 0.3
e 29 26.00
MCQ 49.61 170 eP 16 02.70 -0.9
GYA 49.81 312 iPc 16 06.60 0.8
1.2s 75.00nm 5.6mb
Z 24s 3.46um 5.3MszX
N 18s 3.49um
E 18s 1.18um
sP 16 17.00
PP 18 03.00
S 23 18.00
TIA 49.83 329 eP 16 04.90 -0.7
Z 20s 6.49um 5.6Msz
N 14s 2.26um
E 14s 2.99um
pP 16 13.50 29kmX
S 23 15.00
ASAJ 49.86 357 eP 16 06.90 1.3
DL2 49.93 335 Pc 16 06.00 -0.3
Z 22s 4.69um 5.4Msz
eS 23 16.00
KBR 50.11 294 eP 16 17.00 9.0X
ENH 50.12 318 iPc 16 07.56 -0.3
esPd 16 15.42
NST 50.15 296 iPc 16 09.50 1.2
VLA 50.41 347 iPd 16 05.00 -4.9X
3.0s 2.00nm 3.6mb X
iPPP 19 04.00
iS 23 14.00
SNY 51.68 339 Pc 16 19.00 -0.6
Z 22s 14.80um 6.0Msz
N 16s 3.17um
E 17s 4.49um
pP 16 25.80 23kmX
sP 16 27.80
S 23 35.00
BDT 51.74 297 eP 16 20.50 0.1
0.7s 34.40nm 5.4mb
KMI 52.09 308 iPc 16 24.04 0.8
2.0s 360.00nm 6.0mb
Z 24s 7.50um 5.6MszX
N 16s 2.50um
E 16s 2.00um

```
                pP    16 31.00  23kmX
                esPd  16 32.40
                PP    18 28.00
                S     23 50.00
MDJ   52.37 345 ePc   16 24.38  -0.4
    Z  25s     7.43um          5.6MszX
                esPd  16 32.33
                eS    23 47.00
CHTO  52.40 299 iPc   16 25.90   0.5
      1.0s   101.25nm          5.7mb
                eS    23 50.00
YSS   52.74 357 ePc   16 26.19  -1.3
      0.6s    40.00nm          5.5mb
                esPd  16 34.88
                e     23 47.00
                e     27 33.00
CN2   52.80 341 eP    16 27.80  -0.2
      1.2s    52.00nm          5.3mb
    Z  18s     5.12um          5.6Msz
    N  12s     3.22um
    E  12s     1.34um
                eS    23 57.00
XAN   52.92 321 Pc    16 28.10  -1.0
      1.0s    67.00nm          5.5mb
    Z  20s     4.48um          5.5Msz
    N  14s     3.42um
    E  14s     2.07um
                S     23 58.00
BJI   53.29 332 iPc   16 30.44  -1.2
      2.0s   160.00nm          5.6mb
    Z  24s     8.60um          5.7MszX
    N  20s     5.54um
                esP   16 39.00
                isPd  16 39.04
TIY   53.42 327 Pd    16 32.00  -0.8
    Z  22s     9.73um          5.8Msz
    N  21s     6.65um
                S     24 06.50
CD2   54.44 315 P     16 40.80   0.5
      1.0s   160.00nm          6.0mb
    Z  25s     3.12um          5.3MszX
                sP    16 50.00
                ePP   18 38.00
                S     24 10.00
                sS    24 24.00
HHC   56.18 329 Pc    16 52.00  -0.9
      1.2s    42.00nm          5.3mb
    Z  29s     6.84um          5.6MszX
                S     24 36.50
BTO   56.80 328 P     16 56.50  -0.9
      0.8s    18.00nm          5.2mb
    N  12s     1.65um
    E  13s     2.16um
                pP    17 04.50  26kmX
                ePP   19 03.00
                eS    24 43.50
                eSS   28 35.00
LZH   57.43 320 iPc   17 02.00   0.1
      2.0s   310.00nm          6.0mb
    Z  30s     2.98um          5.2MszX
    N  16s     1.26um
                pP    17 10.00  26kmX
                sP    17 13.00
                PcP   17 53.00
                PP    19 13.00
                ScP   21 48.50
                PcS   21 52.00
                S     25 00.00
                sS    25 12.00
                ScS   26 46.00
                SS    28 54.00
HIA   59.48 340 ePc   17 14.88  -1.0
                isPd  17 23.24
PET   59.66   9 eP    17 30.00  13.1X
                eS    25 50.00
DRV   60.82 183 iP    17 24.00  -0.6
                S     25 50.00
                SS    29 50.00
GTA   61.98 321 P     17 33.00  -0.2
      2.5s   380.00nm          6.1mb
                pP    17 41.00  26kmX
                PP    19 50.00
                S     25 56.00
                sS    26 09.00
                SS    29 55.00
HKL   62.59  63 eP    17 38.64   0.8
SMY   63.09  19 eP    17 37.36  -2.7X
      0.8s   114.21nm          6.1mb
LSA   63.32 307 iPc   17 43.11   0.5
      0.8s    47.00nm          5.7mb
                esP   17 50.97
                S     26 17.00
AFR   63.75 107 iPd   17 45.30   0.2
      1.2s   432.00nm          6.5mb
CIT   63.92 338 eP    17 46.00   0.3
PAE   63.95 107 iPd   17 46.60   0.3
      0.8s   162.80nm          6.2mb
PPT   63.95 107 iPd   17 46.70   0.3
      0.9s   197.20nm          6.3mb
PPN   64.08 107 iPd   17 47.50   0.3
      1.0s   277.60nm          6.4mb
TVO   64.26 107 iPd   17 48.80   0.3
      1.2s   545.10nm          6.6mb
CSY   65.10 195 P     18 02.90   9.9X
PMO   65.51 104 iPd   17 56.90   0.4
      0.9s   408.80nm          6.6mb
VAH   65.76 104 iPd   17 58.50   0.4
      1.1s   296.00nm          6.4mb
TPT   65.77 104 iPd   17 58.60   0.4
      1.1s   400.50nm          6.5mb
ADK   65.79  24 ePc   17 57.17  -0.5
                esPd  18 05.53
RUV   66.00 104 iPc   18 00.00   0.4
      1.2s   511.70nm          6.6mb
TLY   67.76 333 iPc   18 09.91  -0.3
                esPd  18 18.35
IRK   67.87 334 eP    18 09.80  -1.1
      3.0s   476.00nm          6.1mb
                e     18 18.50  28kmX
                eS    27 12.00
                e     27 46.00
YAK   68.85 352 iPc+  18 16.00  -0.8
      1.5s   315.00nm          6.2mb
    N  18s     1.10um
                i     18 23.00  22kmX
                eS    27 24.00
HYB   70.43 291 ePc   18 27.00  -0.3
      1.0s   100.00nm          5.9mb
                eS    27 41.00
GBA   70.69 287 P     18 29.00   0.2
WMQ   72.01 320 iPc   18 36.65   0.2
      2.0s    89.00nm          5.5mb
    Z  14s     4.69um          5.9MszX
                esPd  18 44.67
                PcP   18 58.00
                PP    21 12.00
                S     28 00.00
                ScS   28 36.00
NDI   74.41 302 iPc   18 49.20  -1.5
      0.8s   108.21nm          5.9mb
                eS    28 23.50
SDN   75.29  28 eP    18 55.34   0.2
      0.8s   218.60nm          6.2mb
BOM   76.07 291 eP    19 00.20  -0.1
                eS    28 47.20
PAF   76.26 221 ePKP  19 11.00  10.2X
                eSPP  34 04.00
                eSS   39 07.00
ILT   77.72  13 iPc   19 08.00  -0.5
      2.0s   222.00nm          5.9mb
                i     19 15.00  22kmX
                i     19 20.00
                i     22 01.00
                iPPP  23 56.00
                iS    29 02.00
TIK   78.17 355 iPc+  19 09.00  -1.9
      3.0s   700.00nm          6.2mb
                e     22 16.00
                e     28 57.00
KSH   78.49 312 Pc    19 15.00   1.5
      0.8s    70.00nm          5.8mb
                pP    19 22.00  22kmX
                PcP   19 23.00
                sP    19 25.00
                PP    22 16.00
                S     29 12.00
                SKS   29 24.00
                ScS   29 32.50
ANM   78.95  19 eP    19 16.49   1.1
KDC   80.33  29 eP    19 21.71  -1.2
      0.9s    26.61nm          5.3mb
FRU   80.48 315 eP    19 24.00  -0.1
      2.8s   600.00nm          6.1mb
                e     29 36.00
SVW   80.57  25 ePc   19 24.11  -0.1
      0.8s   101.98nm          5.9mb
TTA   81.36  23 eP    19 27.62  -0.7
      1.0s    21.08nm          5.1mb
MAW   81.95 203 P     19 31.20   0.0
      1.1s    88.89nm          5.7mb
CP2   82.07  25 eP    19 30.30  -2.0
CRP   82.11  25 eP    19 30.19  -2.2
SLKM  82.62  27 eP    19 33.00  -1.9
QUE   83.47 301 eP    19 40.10  -0.1
                eS    30 02.10
PMR   83.56  26 eP    19 38.03  -1.6
      0.7s    47.81nm          5.8mb
IMA   83.82  21 ePc   19 40.58  -0.6
      1.0s    36.80nm          5.6mb
SPA   84.15 180 iPd   19 38.00  -4.8X
      1.0s   105.00nm          6.0mb
    Z  17s    69.63um          7.1MszX
                i     30 03.20
NRIL  84.66 343 ePc   19 43.60  -1.5
                isPd  19 52.04
KLU   84.93  27 ePc   19 46.05  -0.6
TOA   85.05  26 eP    19 47.30   0.0
      0.7s   107.40nm          6.2mb
COL   85.49  23 iPc   19 47.53  -1.8
                isPd  19 56.05
FBA   85.49  23 ePc   19 47.54  -1.8X
      0.6s    54.35nm          5.9mb
BALM  86.39  28 eP    19 53.19  -0.8
MAIO  90.58 306 eP    20 14.00  -0.4
ASH   91.67 308 eP    20 19.00  -0.3
INK   91.93  22 eP    20 19.50  -0.3
      1.0s    12.00nm          5.2mb
SVE   92.30 327 ePd   20 20.00  -1.7
      3.4s   210.00nm          6.0mb X
                e     24 09.00
                e     26 03.00
KMPM  93.73  50 eP    20 29.04   0.2
STW   94.60  42 P     20 33.25   0.7
LGPM  94.74  49 eP    20 33.23  -0.3
GMW   95.16  43 eP    20 34.94  -0.2
MCW   95.19  42 eP    20 35.17  -0.1
COE   95.42  53 (P)   20 37.55   1.0
SHW   95.47  44 eP    20 37.45   0.7
LBFM  95.48  49 eP    20 37.09   0.1
ARN   95.54  53 eP    20 36.38  -0.8
ORV   95.68  51 eP    20 37.13  -0.6
JCW   95.77  42 P     20 38.23   0.3
RMW   95.82  43 eP    20 38.30   0.0
FMW   95.89  44 P     20 40.27   1.5
ASR   95.91  44 P     20 42.02   3.2X
CROR  96.29  45 P     20 40.36  -0.1
VGB   96.46  45 (P)   20 42.15   1.0
CMB   96.48  52 eP    20 40.91  -0.5
      0.7s     6.15nm          5.2mb
VIPM  96.54  46 P     20 41.61  -0.1
BCH   96.60  55 eP    20 43.62   1.5
PKEM  96.62  54 (P)   20 43.02   1.0
EBG   96.65  44 P     20 42.27   0.3
MBC   96.80  14 eP    20 42.50   0.5
      1.0s     5.00nm          5.0mb
WTV   97.08  43 P     20 43.55  -0.4
JBO   97.12  45 P     20 43.85  -0.3
ABL   97.30  56 eP    20 45.23  -0.2
WAH2  97.33  44 P     20 45.16   0.2
SAW   97.45  43 P     20 44.58  -1.0
MEMM  97.61  53 eP    20 47.18   0.8
NVL   97.67 194 eP    20 46.00  -0.1
      1.4s    28.00nm          5.6mb
                e     21 30.00 175kmX
                e     22 05.00
                e     24 43.00
                eS    31 24.00
                e     32 32.00
                e     34 10.00
                e     36 20.00
ISA   97.93  55 eP    20 47.20  -0.9
      0.8s     5.31nm          5.2mb
BONR  98.13  53 eP    20 48.88  -0.3
LNOR  98.21  45 P     20 49.23   0.2
DPW   98.26  43 eP    20 49.03  -0.2
PEC   98.97  57 eP    20 54.00   1.3
      0.7s     8.98nm          5.5mb
NEW   98.98  42 ePd   20 52.25  -0.2
      0.9s    25.30nm          5.8mb
PLM   99.21  57 eP    20 56.03   2.0
GSC   99.29  55 eP    20 53.49  -0.7
```

25d 10h

```
YKA    99.56  28 eP    20 55.00   0.3
        0.9s     7.60nm          5.3mb
TAB   101.16 308 ePdiff21 02.00  -0.7
                   e     25 07.00
ARUT  101.97  53 ePdiff21 08.46   2.1
LRM   102.29  45 ePdiff21 06.90  -0.8
HVU   102.31  49 ePdiff21 07.74  -0.1
DUG   102.37  50 ePdiff21 06.62  -1.4
        0.8s     2.46nm          4.9mb
ERE   102.50 310 ePdiff21 09.00   0.4
                   e     25 20.00
MSU   102.94  52 ePdiff21 13.16   2.4
RES   103.12  14 ePdiff21 10.00  -0.4
DAU   103.54  50 ePdiff21 14.26   0.7
EMUT  103.92  51 ePdiff21 17.08   2.0
SRU   104.19  51 ePdiff21 16.91   0.6
PV09  105.32  52 ePdiff21 23.95   2.5
PV10  105.41  52 ePdiff21 21.21  -0.6
PV08  105.70  52 ePdiff21 22.95  -0.2
GOL   108.11  50 ePKP  25 56.88  16.1X
RSSD  108.42  45 (Pdiff21 36.38   1.4
LTX   110.63  61 ePKP  25 45.89   0.3
SEK   111.58 237 ePKP  25 40.50  -7.0X
        0.7s    16.00nm
SLR   111.87 239 ePKP  25 48.00  -0.1
        0.5s    14.08nm
ACO   113.42  53 e(PKP)25 50.50  -0.1
MEO   114.21  55 e(PKP)26 01.50   9.2X
MLR   114.97 318 ePKP  25 53.00  -0.5
NB2   115.44 337 PKP   25 53.60  -0.2
        0.7s     1.90nm
CER   116.18 228 ePKP  25 50.50  -5.5X
        0.6s    47.00nm
UYO   117.67  54 iPKPc 25 58.30  -0.5
VAY   118.62 314 ePKP  26 00.50   0.1
KSP   118.76 326 ePdiff22 01.70 -18.8X
KSP   118.76 326 ePKP  26 02.70   2.4
SRO   118.98 322 ePKP  26 08.50   7.7X
SKO   119.21 315 ePKP  26 01.00  -0.5
ZST   119.54 323 ePKP  26 05.20   3.3X
FVM   119.86  49 ePKP  26 00.77  -2.1
OHR   119.95 315 iPKP  26 01.80  -1.2
BRG   120.03 327 ePdiff22 07.80 -18.4X
BRG   120.03 327 ePKP  26 06.40   3.7X
        2.3s    62.00nm
                   e     27 28.20
PRU   120.15 326 ePdiff22 10.00 -16.8X
PRU   120.15 326 ePKP  26 06.50   3.5X
      Z  19s    33.70um          7.0MszX
      N  22s    19.20um
      E  20s    17.90um
                   ePKKP 36 13.50
                   eSKS  52 56.00
                   eSDIF 55 06.00
                   PS    57 07.20
CLL   120.30 328 e(PKP)26 02.00  -1.2
KHC   121.13 325 ePdiff22 15.50 -15.7X
        1.1s     6.30nm
KHC   121.13 325 ePKP  26 04.00  -1.0
        1.0s     7.00nm
                   i     26 08.50
                   e     26 19.00
                   e     27 43.50
                   ePKKP 36 08.00
                   e     39 45.00
                   eSKKP 39 53.00
GEC2  121.21 325 PKP   26 04.50  -0.7
        0.6s     1.50nm
                   e     26 08.90
                   e     26 13.40
                   e     26 19.70
MOX   121.40 328 ePKP  26 00.00  -5.4X
OXF   121.64  53 ePKP  26 09.33   3.0X
GRF   122.14 327 ePKP  26 10.90   4.1X
WIN   122.53 239 iPKPd 26 10.00   1.4
        1.4s    40.00nm
TRI   122.72 322 ePKP  26 11.20   3.2X
EKA   124.84 339 PKPc  26 12.40   0.6
        0.7s     5.10nm
FIR   125.23 321 ePKP  26 20.00   7.1X
MYNC  125.60  51 ePKP  26 11.69  -2.4X
BSF   125.60 327 ePKP  26 12.00  -1.8
        1.0s    19.00nm
HAU   125.74 328 ePKP  26 12.40  -1.5
        1.1s    15.15nm
YSNY  126.42  40 (PKP) 26 13.96  -1.5
GAC   126.55  35 ePKP  26 15.50   0.0
```

```
LPL   127.00 325 ePKP  26 15.30  -1.4
        1.3s    29.25nm
LOR   127.51 328 ePKP  26 12.80  -4.5X
LBF   127.63 328 ePKP  26 12.80  -4.8X
RSNY  127.76  36 ePKP  26 19.07   1.2
PEL   127.92 141 iPKP+ 26 19.10   0.5
        0.8s   190.30nm
RFA   128.17 144 e(PKP)26 08.50 -10.5X
BINY  128.18  39 (PKP) 26 17.98  -0.8
TCF   129.01 328 ePKP  26 17.40  -2.8X
        1.0s    11.20nm
LPF   129.44 332 ePKP  26 20.00  -0.9
        1.0s    21.20nm
RTCB  130.21 140 iPKPc 26 24.00   0.9
RTLL  130.52 141 ePKPd 26 23.50  -0.1
LPO   130.61 327 ePKP  26 19.10  -4.2X
        1.1s    10.75nm
MRA   131.46 144 e(PKP)26 16.80  -8.4X
TCA   132.89 144 e(PKP)26 16.00 -12.1X
NNA   133.91 113 ePKP  26 22.50  -7.9X
        0.8s    22.39nm
                   i     26 31.00
                   eSS   30 25.00
FSA   135.61 137 e(PKP)26 25.40  -7.9X
ARE   136.83 122 ePKP  26 24.00 -12.3X
SLA   136.85 136 ePKP  26 26.60  -9.3X
YJA   138.47 133 e(PKP)26 29.00 -10.4X
MOCB  138.93 132 PKP   26 31.90  -8.4X
CNCB  139.59 124 PKP   26 32.20  -9.5X
LPB   139.64 124 PKP   26 36.00  -5.6X
        1.0s   120.00nm
LPAZ  139.74 124 PKP   26 33.10  -8.9X
CCH   140.78 127 ePKP  26 25.00 -18.5X
                   i     26 41.00
CZD   141.80 319 iPKP  26 45.00   0.5
SDV   143.62  83 ePKP  26 44.70  -3.7X
TOV   144.41  81 ePKPc 26 47.50  -2.1X
                   iPP   26 49.70
OUK   144.82 319 ePKP  26 51.00   1.3
CIA   145.17 320 ePKP  26 53.00   2.7X
JHA   145.47 321 iPKP  26 53.00   2.2
MGP   145.59  67 PKP   26 59.80   8.5X
MORO  145.77  79 iPKPc 26 51.70  -0.2
APR   145.79  66 PKP   26 51.80   0.1
PNP   145.95  66 PKP   26 50.70  -1.3
CLLP  146.04  66 PKP   26 51.00  -1.1
RSTA  146.33 155 ePKP  26 53.50   1.0
SJG   146.42  66 iPKPc 26 51.59  -1.2
LPR   146.61  65 PKP   26 52.60  -0.5
CPD   146.65  66 PKP   26 53.30   0.2
GUAC  146.86  80 iPKPc 26 56.30   2.6
CAR   147.17  80 iPKPd 26 54.00  -0.2
OLLA  147.33  81 iPKPd 26 56.50   2.1
PPD   147.52 149 ePKP  26 55.10   0.7
VAO2  148.61 158 ePKP  27 00.80   4.5X
VAO   148.65 157 ePKP  26 57.70   1.4
AGVB  149.98 148 ePKPc 26 59.30   1.0
                   e     27 40.46
                   e     28 36.80
KIC   150.84 273 PKP   26 59.75   0.0
        0.7s   252.50nm
TIC   151.12 273 PKP   27 00.27   0.1
        0.7s   269.00nm
LIC   151.12 272 PKP   27 00.27   0.1
        0.6s   355.50nm
LKO   151.55 279 PKP   26 58.96  -1.9
        0.9s    14.50nm
CDCB  152.01 158 ePKP  27 02.40   1.0
                   e     27 08.50
                   e     27 26.40
TBT   152.65 328 ePKPc 27 02.26   0.3
                   ec    27 07.64
                   ec    27 19.56
BDFB  154.54 147 ePKP  27 06.00   1.0
BAO   154.56 147 PKPd  27 06.00   0.9
                   e     27 13.00
                   i     27 14.60
                   i     27 24.90
                   i     27 36.00
SOB1  163.54 156 ePKP  27 16.40   1.1
      S.D. = 1.0  on 278 of 338 obs.
-----------------------------------
%  OCT  25, 1993  10h 17m 22.36± 0.86s
   39.660 N ± 8.1km   29.471 E ± 7.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.6 (ISK).
```

```
DST     0.65 266 ePg   17 34.50  -0.9
                 eSg   17 45.50
IZI     0.68   0 ePg   17 35.00  -0.8
                 eSg   17 46.00
ALT     0.78 140 ePg   17 37.70   0.1
                 eSg   17 49.70
EYL     1.05  30 ePn   17 42.40   0.2
BNT     1.38 301 ePn   17 47.90   0.3
EDC     1.41 300 ePn   17 49.30   1.2
      S.D. = 1.0  on   6 of   6 obs.
-----------------------------------
   OCT  25, 1993  10h 20m 33.35± 0.41s
    5.838 S ± 5.3km  146.031 E ± 8.1km
   DEPTH =  10.0km  (geophysicist)
   4.8mb (  8 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY    0.41 189 iPd   20 41.90   0.2
MDG     0.64 337 iPc   20 47.80   1.7
MNDI    2.38 262 eP    21 18.00   4.7X
WWKK    3.26 312 eP    21 30.30   4.8X
PMG     3.72 163 eP    21 32.00  -0.1
CTA    14.17 179 iPc   23 39.00 -17.3X
HNR    14.25 105 eP    23 59.00   1.7
QIS    15.91 202 eP    24 18.20  -0.8
WR2    18.04 218 iPc   24 45.40  -0.5
        0.6s    34.10nm          4.7mb
WRA    18.05 218 P     24 46.20   0.2
        0.6s    26.00nm          4.5mb
ASPA   21.23 212 P     25 23.50   1.7
BKM    24.68 120 iPc   25 56.90   1.0
ARMA   25.01 169 eP    25 58.20  -0.9
        0.5s     6.00nm          4.5mb
DZM    25.49 131 iPc   26 02.60  -1.1
MAT    42.79 351 eP    28 33.00   0.1
        1.5s    77.78nm          5.2mb
SSE    43.74 329 eP    28 39.00  -1.6
GYA    49.86 312 P     29 33.80   4.7X
CHTO   52.46 299 eP    29 48.80  -0.1
XAN    52.95 321 P     29 52.00  -0.3
        0.7s     6.60nm          4.7mb
CD2    54.47 315 P     30 04.60   1.0
CSY    65.17 195 iPc   31 25.30   8.8X
        0.5s    12.30nm          5.4mb
                 i     31 32.50
GBA    70.77 287 P     31 53.00   0.6
NDI    74.47 302 eP    32 14.00  -0.1
POO    75.11 291 eP    32 10.50  -7.5X
SLKM   82.53  27 (P)   32 56.77  -0.8
IMA    83.75  21 eP    33 02.40  -1.4
        1.0s     6.46nm          4.8mb
FBA    85.41  23 eP    33 10.48  -1.5
        0.6s     4.84nm          4.9mb
GEC2  121.23 325 Pdiff 36 07.90  13.1X
        1.2s     3.31nm
                 e     36 13.00
                 e     36 42.60
PPD   147.51 149 ePKP  40 19.60   2.1
KIC   150.93 273 PKP   40 29.21   6.2X
        0.8s    16.50nm
TIC   151.21 273 PKP   40 29.69   6.2X
        0.5s    11.00nm
LIC   151.22 272 PKP   40 29.73   6.3X
        0.6s    15.50nm
LKO   151.64 279 PKP   40 28.30   4.2X
        0.7s    17.00nm
BDFB  154.53 147 ePKP  40 27.38  -0.8
      S.D. = 1.1  on  23 of  34 obs.
-----------------------------------
   OCT  25, 1993  10h 27m 04.51± 0.10s
    5.909 S ± 2.5km  145.990 E ± 2.9km
   DEPTH =  30.4km  (  9 depth phases)
   6.3mb ( 99 obs.)  7.0Msz ( 60 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      Mw 6.7 (GS), 6.7 (HRV). Ms 7.1
      (BRK). ML 6.6 (PMG).
      Mo=1.0*10**19 Nm (PPT). Felt
      (III) at Rabaul.
      FAULT PLANE SOLUTION: P-Waves
       NP1:Strike=130 Dip=83 Slip=  90
       NP2:        310      7        90
       Principal Axes:
        T              Plg=52  Azm= 40
        P                 38      220
      Comment: The focal mechanism is
        poorly controlled and
        corresponds to reverse
```

```
      faulting. The preferred fault
      plane is NP2.
    MOMENT TENSOR SOLUTION
    Dep  23            No. of sta: 17
    Moment Tensor;    Scale 10**19 Nm
      Mrr= 0.90        Mtt=-0.61
      Mff=-0.29        Mrt= 0.63
      Mrf=-0.52        Mtf= 0.51
     Principal axes:
      T  Val=  1.21  Plg=69  Azm= 43
      N        0.09      2       308
      P       -1.29     21       217
    Best Double Couple:Mo=1.2*10**19
     NP1:Strike=304 Dip=25 Slip=  85
     NP2:       129     66        92
    CENTROID, MOMENT TENSOR     (HRV)
    Data Used: GDSN
    L.P.B.: 55S, **C  M.W.: 39S, 85C
    Centroid Location:
    Origin Time        10:27:12.6 0.1
    Lat  5.87S 0.01 Lon 145.99E 0.01
    Dep  20.2 0.4 Half-duration  5.8
    Moment Tensor;    Scale 10**18 Nm
      Mrr= 7.38 0.05  Mtt=-6.04 0.04
      Mff=-1.34 0.05  Mrt= 7.80 0.25
      Mrf=-5.26 0.19  Mtf= 3.23 0.04
     Principal Axes:
      T  Val= 11.94  Plg=64  Azm= 39
      N        0.23      4       301
      P      -12.17     26       210
    Best Double Couple:Mo=1.2*10**19
     NP1:Strike=291 Dip=20 Slip=  79
     NP2:       123     71        94

MNDI    2.33 264 eP    27 46.50   4.7X
WWKK    3.27 314 eP    27 59.50   4.5X
PMG     3.66 162 eP    28 00.00  -0.5
KVG     5.83  56 eP    28 30.40  -0.8
RAB     6.38  75 iPc+  28 38.00  -1.0
CTA    14.10 179 iPd   30 25.50   1.2
                i      30 32.00
                i      30 41.00
CTAO   14.10 179 ePc   30 24.98   0.6
       2.5s  9430.09nm          7.0mb
HNR    14.27 105 ePc   30 27.00   0.4
                eS     33 29.00
SLKI   14.73 261 ePc   30 33.50   0.9
                i(S)   35 02.00
QIS    15.83 202 iPd   30 47.10   0.2
WR2    17.96 218 iPc   31 13.20  -0.5
       1.3s     3.90nm          3.4mb X
                eS     34 28.30
                iPKKP  57 24.80
WRA    17.97 218 P     31 14.10   0.2
       1.3s   174.60nm          5.0mb X
GUA    19.35 357 eP    31 31.10   0.4
       1.0s  3080.00nm          6.5mb
                e      31 41.80  44kmX
GUMO   19.40 357 eP    31 29.99  -1.3
       1.3s  8193.52nm          6.8mb
PJG    19.40 357 eP    31 30.40  -0.9
KNA    19.52 239 eP    31 31.00  -1.6
NMCC   20.92 359 P     31 47.50   0.3
ASPA   21.14 212 P     31 48.90  -0.6
DAV    24.12 302 ePd   32 22.20   3.4X
BIP    24.18 305 iPd   32 20.00   0.6
BKM    24.68 120 iPc   32 24.50   0.2
PVC    24.77 120 iPc   32 26.00   0.8
ARMA   24.95 168 iPc   32 25.80  -1.1
       0.5s   208.00nm          6.0mb
                eScP   39 45.50
CTB    25.34 301 eP    32 35.00   4.4X
DZM    25.48 131 iPc   32 30.10  -1.8
STK    26.16 189 P     32 35.20  -2.9X
PLP    26.93 309 ePd   32 45.80   0.6
MAP    27.21 306 ePc   32 49.00   1.2
WARB   27.35 220 eP    32 47.70  -1.3
       0.7s   261.00nm          6.0mb
CNB    29.43 174 iPc   33 06.80  -1.0
       0.7s    81.00nm          5.6mb
ADE    29.69 192 e(P)  33 09.50  -0.6
TSM    29.85 289 ePd   33 11.80   0.1
       0.8s   563.70nm          6.4mb
FORT   29.93 212 eP    33 10.20  -2.0
GQP    30.55 310 ePc   33 21.50   3.7X
TOO    31.52 181 iPd   33 24.90  -1.3
       1.0s   504.00nm          6.3mb
                iScP   40 07.30
TGY    31.84 309 iPc   33 28.50  -0.7
KKM    32.01 291 ePc   33 37.00   6.2X
       0.8s   264.70nm          6.2mb
                e      34 25.50 240kmX
QCP    32.05 310 eP    33 17.00 -14.0X
QVP    32.10 310 eP    33 33.00   1.6
MEEK   33.25 229 eP    33 39.80  -1.6
       0.3s    84.00nm          6.1mb
BCP    33.51 312 eP    33 47.00   3.1X
BAG    33.52 312 eP    33 42.90  -1.1
                eS     39 00.00
VUN    33.90 114 eP    33 46.50  -0.6
SVA    33.92 114 eP    33 46.80  -0.5
COOL   34.08 220 eP    33 46.50  -2.0
MRWA   36.60 227 eP    34 08.90  -1.1
       0.8s   167.00nm          6.0mb
KLB    36.75 222 eP    34 09.20  -2.0
       0.5s    48.00nm          5.6mb
BAL    36.88 225 eP    34 11.50  -0.8
NWAO   37.93 221 eP    34 20.70  -0.4
       1.0s   137.00nm          5.8mb
MUN    38.04 223 eP    34 21.00  -1.0
       0.5s   221.00nm          6.3mb
LEM    38.14 266 iPc   34 23.30   0.0
       1.0s   110.00nm          5.6mb
     Z  22s    17.78um          5.8MszX
                i(S)   36 18.00
                eLR    39 40.00
RKG    39.12 219 eP    34 30.00  -1.0
       0.5s    36.00nm          5.4mb
QZH    40.64 320 iPc   34 43.00  -0.6
     Z  22s    82.30um          6.5Msz
     N  20s    82.30um
                S      40 52.00
KUZ    41.00 143 P     34 46.20  -0.2
MOZ    41.65 145 P     34 53.10   1.3
WLZ    41.67 144 P     34 52.70   0.7
NRZ    41.75 147 P     34 55.50   2.9X
HKC    41.91 313 iP    34 57.10   3.0X
                S      40 59.00
QRZ    42.10 150 P     34 55.60   0.1
SHK    42.14 344 eP    34 55.30  -0.6
MCO    42.25 312 P     35 00.60   3.7X
AFI    42.30 104 iPc   34 55.00  -2.5X
PATZ   42.40 144 P     34 58.90   0.8
TAZ    42.45 144 P     34 59.50   1.2
CNZ    42.55 145 P     35 00.30   1.0
NGZ    42.56 145 P     35 00.20   0.7
BSZ    42.62 147 P     34 59.50  -0.2
DIW    42.80 148 P     35 01.40   0.2
URZ    42.82 143 P     35 01.20  -0.2
MAJO   42.85 351 eP    34 59.56  -2.1
       1.5s  1201.75nm          6.4mb
MAT    42.85 351 iPc   35 00.30  -1.4
       1.3s   346.15nm          5.9mb
                eS     41 24.00
LMZ    42.86 155 eP    35 02.10   0.4
WVZ    42.98 153 eP    35 01.40  -1.2
THZ    42.99 150 P     35 02.30  -0.5
GZH    42.99 313 iPc   35 03.00   0.0
     Z  25s    49.80um          6.3MszX
     N  17s    23.60um
     E  18s    46.70um
                iS     41 30.00
                sS     41 42.00
MSZ    43.11 157 P     35 03.80   0.1
HBZ    43.12 142 P     35 03.40  -0.4
PAHZ   43.18 144 P     35 05.00   0.6
TCW    43.28 149 P     35 04.60  -0.5
KGM    43.33 279 iPd   35 06.00   0.1
                e      35 16.50  36km
WAHZ   43.34 145 P     35 05.60  -0.1
KIW    43.36 148 P     35 05.50  -0.3
QIZ    43.38 306 P     35 06.70   0.5
     N  18s    48.50um
     E  22s    47.10um
                S      41 35.50
                SS     44 39.00
PUZ    43.39 142 P     35 06.00  -0.1
LTZ    43.46 152 P     35 05.80  -0.8
MNG    43.49 147 P     35 06.20  -0.7
TTH    43.50 145 eP    35 05.70  -1.2
MRW    43.52 148 P     35 05.80  -1.2
SNZO   43.57 148 eP    35 06.67  -0.8
       1.2s   983.53nm          6.5mb
NOZ    43.61 143 P     35 07.30  -0.5
CAW    43.62 148 P     35 07.10  -0.8
SSE    43.77 329 Pc    35 08.30  -0.9
       1.0s    51.00nm          5.3mb
     Z  20s   123.00um          6.8Msz
     N  18s    86.60um
     E  16s    35.60um
                pP     35 20.00  42kmX
                PP     36 48.00
                SS     44 42.00
BWZ    43.78 155 P     35 07.90  -1.2
KHZ    43.79 150 P     35 07.90  -1.3
MAHZ   43.88 144 P     35 10.20   0.1
MTW    43.89 148 P     35 08.20  -1.8
PGZ    43.93 146 P     35 08.30  -2.0
MQZ    44.35 152 P     35 12.80  -0.9
TUZ    44.85 157 P     35 15.70  -2.0
KLM    45.18 280 eP    35 22.00   1.2
NJ2    45.75 327 Pc    35 24.50  -0.5
     Z  24s    41.90um          6.3MszX
     N  16s    30.50um
     E  18s    63.40um
                S      42 10.00
IPM    46.09 282 ePd   35 28.00  -0.1
       0.9s   412.00nm          6.4mb
                e      36 12.80 206kmX
SNG    47.10 285 iPd   35 38.00   2.0
       1.0s   260.00nm          6.2mb
                eS     42 32.00
WHN    47.24 322 ePc   35 37.20   0.4
       1.2s   360.00nm          6.3mb
     N  15s    43.30um
                S      42 32.00
SAP    48.92 355 eP    35 52.00   2.3X
MCQ    49.57 170 eP    35 54.00  -0.5
GYA    49.87 312 iPc   35 58.00   0.5
       1.2s   210.00nm          6.0mb
     Z  25s    53.60um          6.4MszX
     N  16s    21.60um
     E  16s    11.00um
                sP     36 09.00
                PP     37 57.00
                S      43 10.00
                SS     46 40.00
TIA    49.88 329 eP    35 57.00  -0.2
     N  15s    38.30um
     E  15s    50.00um
                pP     36 07.00  34km
                S      43 04.00
DL2    49.98 335 eP    35 59.00   1.1
       1.0s   200.00nm          6.1mb
     Z  23s     7.79um          5.6MszX
     N  20s    87.90um
                S      43 00.00
KBR    50.17 294 eP    36 05.50   5.8X
NST    50.21 296 eP    36 01.00   0.9
VLA    50.45 347 iPc   36 02.00   0.6
       3.0s     5.00nm          4.0mb X
     Z  15s    11.00um          6.0MszX
     N  16s    20.00um
     E  14s    16.70um
                iPPP   38 52.00
                iS     43 12.00
                iPS    43 22.00
                iSS    46 39.00
                iSSS   48 09.00
KUR    50.94     2 iP+  36 08.00   3.0X
       1.0s   750.00nm          6.6mb
     Z  18s    62.50um          6.7Msz
     N  18s    59.00um
     E  18s    26.60um
                e      37 56.00 581kmX
                iS     43 26.00
SNY    51.73 339 Pc    36 10.00  -1.2
       1.4s   150.00nm          5.8mb
     N  18s    31.10um
     E  18s    64.00um
                pP     36 15.40  18kmX
                iS     43 31.00
BDT    51.81 297 eP    36 12.00  -0.1
       1.0s   207.00nm          6.0mb
KMI    52.15 308 Pc    36 15.50   0.6
       2.0s  1140.00nm          6.5mb
     Z  25s   172.00um          7.0MszX
     N  20s    51.70um
     E  20s    43.60um
                PP     38 16.00
                S      43 42.00
```

25d 10h

```
MDJ    52.41 345 Pc    36 15.20  -1.1
     Z  26s   100.00um          6.7MszX
     N  15s    38.80um
     E  15s    11.30um
                S     43 40.00
CHTO   52.46 299 eP    36 16.60  -0.5
       1.0s   150.00nm          5.9mb
                eS    43 45.20
YSS    52.77 357 iPc+  36 17.30  -1.6
       1.0s    60.00nm          5.5mb
     Z  17s    49.20um          6.6MszX
     N  15s    26.40um
     E  18s    25.90um
                e     36 24.30  23km
                e     38 23.00
                iS    43 46.00
CN2    52.85 341 Pc    36 18.00  -1.6
       1.2s   120.00nm          5.7mb
     Z  18s    48.80um          6.6Msz
     N  14s    25.80um
     E  14s    13.40um
                eS    43 47.00
                eScS  46 00.00
                SS    47 27.00
XAN    52.98 321 Pc    36 19.00  -1.8
       1.0s   200.00nm          6.0mb
     Z  20s    70.20um          6.7Msz
     N  16s    38.50um
     E  14s    12.40um
                PP    38 16.00
                S     43 48.00
BJI    53.34 332 eP    36 22.00  -1.2
       2.0s   350.00nm          6.0mb
     N  20s    90.90um
                ePP   38 24.00
                eS    43 52.00
TIY    53.48 327 Pc    36 23.00  -1.4
     Z  20s    94.80um          6.8Msz
     N  18s    52.80um
                S     43 53.00
                sS    44 07.50
CD2    54.49 315 Pd    36 31.00  -1.0
       0.9s   250.00nm          6.2mb
     Z  20s   123.00um          7.0Msz
     E  17s    76.70um
                sP    36 43.00
RAR    54.60 112 eP    36 32.49  -0.3
       1.8s  2756.78nm          7.0mb
HHC    56.23 329 iPc   36 43.00  -1.4
       1.2s   120.00nm          5.8mb
     Z  24s   148.00um          7.0MszX
     N  17s    33.50um
     E  20s    52.80um
                S     44 36.00
BTO    56.86 328 P     36 48.00  -0.9
       1.2s    70.00nm          5.6mb
     N  20s    58.60um
     E  20s    63.90um
                pP    36 57.00  29km
                PP    38 58.00
                iS    44 40.00
                SS    48 31.00
LZH    57.49 320 iPc   36 53.50  -0.1
       1.8s  1060.00nm          6.6mb
     Z  23s    87.70um          6.8MszX
     E  20s    49.00um
                pP    37 01.50  26km
                sP    37 05.00
                PP    39 04.00
                ScP   41 45.00
                S     44 50.00
                sS    45 03.00
                SS    48 37.00
PET    59.68   9 eP    37 10.00   1.8
       1.5s   266.00nm          6.1mb
                eS    45 20.00
                ePS   45 40.00
DRV    60.80 183 iP    37 14.80  -0.9
                S     45 40.00
                SS    50 07.00
HON    61.21  62 P     37 30.00  10.7X
     Z  20s    79.91um          6.9Msz
OPA    61.33  61 eP    37 18.84  -1.2
DHH    61.37  62 eP    37 20.29  -0.1
GTA    62.03 321 P     37 24.00  -0.7
       2.0s   370.00nm          6.2mb
     Z  20s    50.10um          6.7Msz
     E  20s    33.00um
                PP    39 41.00
                ScP   42 01.50
                S     45 47.00
                sS    46 02.00
KKH    62.44  64 eP    37 28.22   0.7
HKL    62.55  63 eP    37 28.04  -0.7
HPO    62.68  65 eP    37 28.61  -0.5
MHA    62.70  64 eP    37 27.79  -1.5
SMY    63.10  19 eP    37 31.99   0.7
       1.0s   398.09nm          6.5mb
     Z  19s    59.23um          6.8Msz
LSA    63.38 307 Pc    37 34.10  -0.1
       1.4s   310.00nm          6.2mb
     Z  25s    63.80um          6.7MszX
     N  19s    25.30um
     E  21s    27.90um
                S     46 09.00
AFR    63.69 107 iPd   37 37.10   1.3
       1.6s  3134.30nm          7.2mb
PAE    63.88 107 iPd   37 38.40   1.3
       1.7s  3740.80nm          7.2mb
PPT    63.88 107 iPd   37 38.60   1.5
       1.9s  6441.80nm          7.4mb X
CIT    63.96 338 eP    37 37.00  -0.1
PPN    64.02 107 iPd   37 39.30   1.3
       1.7s  3717.30nm          7.2mb
TVO    64.20 107 iPd   37 40.80   1.5
       1.5s  3994.70nm          7.3mb X
CSY    65.09 195 P     37 53.90   9.7X
PMO    65.44 104 iPd   37 48.70   1.5
       1.6s  5651.70nm          7.4mb X
VAH    65.70 104 iPd   37 50.20   1.3
       2.0s  4198.30nm          7.2mb
TPT    65.71 104 iPd   37 50.40   1.4
       1.8s  4833.70nm          7.3mb X
ADK    65.79  24 eP    37 48.10  -0.7
     Z  20s    80.00um          6.9Msz
RUV    65.94 104 iPd   37 51.70   1.3
       1.9s  5040.70nm          7.3mb X
IRK    67.92 334 eP+   38 01.00  -1.4
       2.0s   290.00nm          6.0mb
                e     38 18.00  63kmX
                e     38 32.00
                eS    46 52.00
                e     47 50.00
YAK    68.89 352 iPc   38 07.10  -1.0
       1.5s  1137.00nm          6.7mb
                e     38 29.00  84kmX
                ePPP  42 25.00
                eS    47 12.00
                e     47 36.00
HYB    70.49 291 ePc   38 18.00  -0.8
       1.0s   340.00nm          6.4mb
                eS    47 31.00
GBA    70.75 287 Pd    38 21.00   0.6
WMQ    72.07 320 iPc   38 27.50  -0.5
       2.0s   460.00nm          6.1mb
     Z  23s    16.00um          6.2MszX
     E  16s    23.40um
                PcP   38 48.00
                PP    41 08.00
                S     47 50.00
                sS    47 54.00
                ScS   48 31.00
UER    72.35 329 iPc   38 30.80   1.5
       1.8s   500.00nm          6.2mb
                iS    47 52.50
SBA    72.72 175 eP    38 32.30   1.2
                S     44 03.00
                e     48 02.00
NDI    74.48 302 iP    38 41.00  -1.2
       1.4s   860.47nm          6.6mb
                eS    48 15.00
POO    75.10 291 iPd   38 38.40  -7.6X
       1.0s   120.00nm          5.9mb
                iS    48 16.50
SDN    75.29  28 eP    38 43.88  -2.4X
       1.0s   967.26nm          6.8mb
BOM    76.13 291 iP    38 53.80   2.0
                iS    48 36.20
ILT    77.73  13 iPc   38 58.20  -1.5
       2.0s  1602.00nm          6.7mb
     Z  20s    55.00um          6.9Msz
     N  19s    33.00um
     E  16s    28.00um
                i     39 10.00  39km
                i     41 52.00
                iS    48 53.00
                i     49 22.00
TIK    78.21 355 iPc+  39 00.00  -2.3
       2.0s   103.00nm          5.5mb
     Z  16s    30.00um          6.7MszX
                i     42 03.00
                iS    48 56.00
                i     49 16.00
                iPS   49 45.00
KSH    78.55 312 iPd   39 06.40   1.4
       1.2s   120.00nm          5.8mb
     Z  20s    50.40um          6.8Msz
     N  16s    22.20um
     E  16s     3.23um
                pP    39 14.00  24km
                PcP   39 15.00
                sP    39 18.00
                PP    42 08.00
                S     49 03.80
                SKS   49 16.00
                ScS   49 24.40
                SS    54 11.00
ANM    78.95  19 eP    39 05.93  -0.6
KDC    80.33  29 eP    39 12.84  -1.1
       0.9s   126.65nm          5.9mb
FRU    80.53 315 eP    39 16.00   0.5
       2.1s  1250.00nm          6.6mb
                e     42 20.00
                eS    49 20.00
                eSS   54 38.00
SVW    80.57  25 eP    39 14.97  -0.4
       1.1s   823.57nm          6.7mb
TTA    81.36  23 eP    39 18.96  -0.5
       1.1s   120.03nm          5.8mb
MAW    81.94 203 P     39 22.00  -0.4
       1.1s   277.78nm          6.2mb
     Z  18s    60.00um          7.0Msz
CP2    82.08  25 eP    39 21.61  -1.8
CRP    82.11  25 eP    39 21.17  -2.4X
SLKM   82.61  27 eP    39 23.59  -2.4X
PMR    83.56  26 eP    39 28.89  -1.9
       1.0s   258.77nm          6.3mb
     Z  21s    53.75um          6.9Msz
IMA    83.83  21 eP    39 30.16  -2.1
       1.0s   154.04nm          6.1mb
SPA    84.13 180 iPd   39 29.20  -4.6X
       0.8s   391.67nm          6.6mb
KLU    84.93  27 eP    39 35.88  -1.9
TOA    85.05  26 eP    39 38.40   0.0
COL    85.49  23 eP    39 38.22  -2.2
       1.8s   890.10nm          6.7mb
FBA    85.49  23 eP    39 38.06  -2.4
BALM   86.39  28 eP    39 43.79  -1.3
SIT    88.80  32 eP    39 55.20  -1.3
       1.9s   731.00nm          6.7mb
     Z  20s    65.00um          7.0Msz
SIT    88.80  32 P     40 10.00  13.5X
     Z  20s    55.22um          7.0Msz
MAIO   90.64 306 iPc   40 06.00   0.2
       0.8s    28.55nm          5.6mb
                eS    50 44.00
ASH    91.73 308 eP    40 11.00   0.3
     N  20s    10.81um
     E  20s    28.00um
                i     40 21.00  31km
                e     43 58.00
                e     50 40.00
                e     52 15.00
                i     52 29.00
                i     52 52.00
                e     57 20.00
INK    91.94  22 eP    40 10.50  -0.5
       1.0s    40.00nm          5.8mb
SVE    92.35 327 ePd   40 11.00  -2.1
       2.1s   180.00nm          6.1mb
     Z  19s    38.00um          6.9Msz
     N  19s     7.50um
     E  19s    24.00um
                e     44 02.00
                iS    51 09.00
ARU    93.43 326 eP    40 16.00  -2.0
     Z  20s    37.00um          6.8Msz
     N  20s    11.00um
     E  22s    35.00um
                e     40 26.00  31km
                e     44 06.00
```

```
                 eS    51 20.00
                 e     53 12.00
KMPM   93.70  50 eP    40 20.51   0.7
ARC    93.77  49 ePc   40 18.19  -1.8
        1.8s  880.00nm          6.9mb
     Z  18s    48.00um          7.0Msz
                 ePPc  44 05.89
                 eSKS  50 23.89
                 eS    51 23.89
                 iPS   52 53.89
                 eSS   58 09.89
                 eLQ   05 16.89
                 eLR   09 56.89
FHC    93.84  50 eP    40 20.52   0.2
        1.5s  688.81nm          6.9mb
KMOR   94.54  45 P     40 24.00   0.4
STW    94.58  42 P     40 23.93   0.4
NTYM   94.68  52 eP    40 24.37   0.2
LGPM   94.72  49 eP    40 24.47  -0.1
                 ePP   44 25.71
BMW    94.78  44 eP    40 24.80   0.2
YBH    94.86  49 ePc   40 22.52  -2.6X
        1.4s  230.00nm          6.4mb
     Z  21s    84.00um          7.2Msz
                 ePPc  44 14.52
                 iSKS  50 55.52
                 eS    51 46.52
                 iPS   52 51.52
                 iSS   57 30.52
                 eSSS  01 34.52
                 eSSSS 05 06.52
                 eLQ   06 00.52
                 eLR   09 26.52
WDC    94.92  50 ePc   40 20.21  -5.1X
        1.5s  390.00nm          6.6mb
     Z  19s    95.00um          7.3Msz
                 ePPc  44 15.21
                 iSKS  50 57.21
                 eS    51 48.21
                 ePS   52 53.21
                 eSS   57 40.21
                 eSSS  01 48.21
                 eSSSS 04 32.21
                 eLQ   06 04.21
                 iLR   10 17.21
WDC    94.92  50 eP    40 25.34   0.1
        2.1s  843.01nm          6.8mb
BKS    94.99  53 ePc   40 25.64   0.0
        1.8s  920.00nm          6.9mb
     Z  17s    62.00um          7.1MszX
                 ePPc  44 10.09
                 iS    50 56.09
                 eS    51 59.09
                 eSPc  52 51.09
                 iPS   53 00.09
                 i     55 19.09
                 eSS   57 31.09
                 eLQ   05 50.09
                 eLR   09 46.09
STAN   95.00  53 ePc   40 25.55  -0.2
        1.6s  410.00nm          6.6mb
                 ePPc  44 17.20
GMW    95.14  43 eP    40 26.18   0.0
                 ePP   44 15.10
MCW    95.17  42 eP    40 26.04  -0.3
                 ePP   44 18.00
SSOR   95.22  46 P     40 26.73   0.0
HMR    95.34  52 eP    40 28.03   0.8
                 ePP   44 23.41
COE    95.39  53 eP    40 28.05   0.5
                 ePP   44 13.66
MHC    95.42  53 ePc   40 27.19  -0.7
        2.1s  810.00nm          6.8mb
     Z  19s    58.00um          7.1Msz
                 ePPc  44 17.99
                 eSKS  51 03.19
                 eS    51 15.19
                 eSPc  53 04.19
                 iPS   53 08.19
                 eSS   57 36.19
                 eLQ   06 23.19
                 eLR   10 29.19
SHW    95.45  44 eP    40 28.07   0.3
LBFM   95.45  49 eP    40 28.07   0.1
ARN    95.51  53 ePc   40 27.94  -0.2
                 ePP   44 13.66
SAO    95.55  54 eP    40 28.87   0.6
```

```
        1.8s  305.02nm          6.4mb
MIN    95.62  50 ePc   40 27.85  -0.9
        2.0s  430.00nm          6.5mb
     Z  18s    58.00um          7.1Msz
                 ePPc  44 26.71
                 iSKS  51 01.71
                 iPS   53 04.71
                 eSS   57 42.71
                 eLQ   06 18.71
                 eLR   09 41.71
LMEM   95.65  50 eP    40 29.87   1.0
ORV    95.66  51 ePc   40 16.40 -12.3X
        1.4s  300.00nm
     Z  19s    46.00um          7.0Msz
                 ePPc  44 19.40
                 iSKS  50 44.40
                 eS    51 44.40
                 iPS   53 05.40
                 i     55 24.40
                 eLQ   06 24.40
                 eLR   10 27.40
ORV    95.66  51 ePc   40 28.17  -0.5
                 ePP   44 22.04
JCW    95.75  42 P     40 28.89  -0.1
LON    95.77  44 eP    40 29.00  -0.1
RMW    95.80  43 eP    40 28.92  -0.4
VBEM   95.85  45 P     40 29.52  -0.2
FMW    95.87  44 P     40 29.45  -0.3
ASR    95.89  44 P     40 29.89   0.1
CROR   96.27  45 P     40 31.20  -0.3
PHAM   96.35  55 eP    40 33.61   1.7
VGB    96.44  45 eP    40 31.83  -0.4
                 ePP   44 23.28
CMB    96.45  52 ePc   40 31.31  -1.1
        1.9s  330.00nm          6.5mb
     Z  20s    62.00um          7.1Msz
                 ePPc  44 21.30
                 iSKS  50 59.31
                 eS    51 22.31
                 eSPc  53 09.31
                 iPS   53 14.31
                 i     55 04.31
                 iSS   57 53.31
                 eLQ   06 29.31
                 eLR   10 30.31
VIPM   96.52  46 P     40 32.55  -0.2
BCH    96.57  55 eP    40 33.12   0.0
                 ePP   44 26.86
EBG    96.63  44 P     40 32.74  -0.3
MBC    96.81  14 eP    40 33.00  -0.2
        1.0s   16.00nm          5.5mb
WTV    97.06  43 P     40 34.34  -0.6
JBO    97.10  45 P     40 34.88  -0.3
ABL    97.27  56 eP    40 36.44   0.1
WAH2   97.31  44 P     40 36.28   0.3
SAW    97.44  43 P     40 36.09  -0.5
MMPM   97.51  53 eP    40 38.78   1.2
MEMM   97.59  53 eP    40 37.74   0.3
                 ePP   44 38.09
NVL    97.65 194 eP    40 35.00  -2.2
        2.0s   50.00nm          5.7mb
     Z  19s    43.00um          7.0Msz
     N  19s    47.00um
     E  19s    10.00um
                 e     41 03.00 105kmX
                 e     41 22.00
                 e     42 15.00
                 ePP   44 22.00
                 e     45 27.00
                 ePPP  46 15.00
                 iSKS  51 14.00
                 eS    51 27.00
                 iPS   53 26.00
                 e     54 22.00
                 eSS   57 50.00
                 eSSS  01 20.00
MTUM   97.88  53 eP    40 39.47   0.4
ISA    97.90  55 eP    40 38.66  -0.4
        1.7s  232.86nm          6.4mb
     Z  20s    47.28um          7.0Msz
BONR   98.10  53 eP    40 39.79  -0.4
                 ePP   44 39.82
LNOR   98.19  45 P     40 39.53  -0.5
DPW    98.24  43 ePc   40 39.84  -0.4
                 ePP   44 37.34
BAK    98.43 310 eP    40 54.00  12.9X
SSK    98.51  56 eP    40 41.71  -0.2
```

```
PEC    98.94  57 eP    40 44.07   0.4
        1.8s  421.45nm          6.7mb
TNP    98.95  52 (P)   40 44.20   0.3
        1.1s   35.58nm          5.8mb
NEW    98.96  42 ePc   40 43.10  -0.4
        1.0s   74.64nm          6.2mb
     Z  21s    93.14um          7.3Msz
                 ePP   44 45.27
PLM    99.18  57 ePd   40 45.65   0.6
GSC    99.26  55 eP    40 45.28   0.1
                 ePP   44 44.91
YKA    99.56  28 P     40 44.80  -1.0
        1.0s   21.00nm          5.6mb
TPNV   99.72  54 eP    40 49.03   1.7
        1.8s  249.65nm          6.4mb
     Z  20s    41.79um          6.9Msz
                 ePP   44 53.66
GLA   100.89  58 ePdiff40 53.51   0.9
                 iPP   45 00.37
SNA   100.99 190 e(Pdif40 51.40  -0.7
        1.2s   71.88nm          6.1mb
TAB   101.22 308 ePdiff40 53.00  -1.1
                 e     43 44.00
                 e     45 15.00
GRO   101.52 313 ePdiff41 00.00   4.9X
                 i     45 10.00
                 i     52 33.00
                 iPS   54 10.00
ARUT  101.94  53 ePdiff40 57.32  -0.1
LRM   102.27  45 ePdiff40 58.20  -0.5
HVU   102.29  49 ePdiff40 58.99   0.2
DUG   102.34  50 ePdiff40 56.83  -2.2
        1.8s   75.00nm          6.1mb
     Z  20s    36.98um          6.9Msz
                 ePP   45 01.08
ERE   102.56 310 iPdiff41 02.00   2.0
                 iPPP  45 18.00
                 iPS   52 42.00
MSU   102.91  52 ePdiff41 01.75   0.0
RES   103.13  14 ePdiff41 03.00   1.5
        1.0s    5.00nm          5.2mb X
PYA   103.38 314 iPdiff41 09.00   5.6X
        2.0s  220.00nm          6.6mb
     Z  24s    26.60um          6.7MszX
     N  24s    14.00um
     E  24s    25.20um
                 i     45 14.00
                 i     52 44.00
                 iSS   00 00.00
DAU   103.52  50 ePdiff41 05.41   0.9
EMUT  103.89  51 ePdiff41 05.75  -0.4
                 ePP   45 28.26
SRU   104.17  51 ePdiff41 06.45  -0.8
TUC   104.31  58 ePdiff41 09.69   1.8
        1.5s   30.48nm          5.9mb
     Z  21s    71.51um          7.2Msz
MOS   105.17 326 ePdiff41 16.00   5.0X
KEV   105.29 342 ePdiff41 10.39  -0.8
PV09  105.30  52 ePdiff41 12.59   0.1
PV10  105.38  52 ePdiff41 12.98   0.2
PV08  105.67  52 ePdiff41 14.70   0.5
SOC   105.83 314 ePdiff41 19.00   4.7X
OBN   105.87 326 ePdiff41 13.00  -1.1
     Z  21s    34.10um          6.9Msz
     N  24s    13.80um
     E  22s    26.40um
                 e     41 27.00
                 e     44 44.00
                 i     44 51.00
                 iPP   45 36.00
                 ePPP  47 42.00
                 iSKS  52 00.00
                 iSKKKS53 06.00
                 iPS   54 42.00
                 ePPS  56 24.00
                 iSS   00 22.00
                 iSSS  05 00.00
ANN   107.37 315 ePdiff41 22.00   1.0
ALQ   107.74  55 ePdiff41 23.33   0.0
        1.8s   34.79nm          6.2mb
     Z  20s    34.96um          6.9Msz
                 ePP   45 38.70
PUL   107.84 331 ePdiff41 22.00  -0.8
GOL   108.08  50 ePdiff41 24.97   0.2
        1.6s   75.95nm          6.6mb
                 ePP   45 48.26
GLD   108.19  50 ePdiff41 25.75   0.6
```

25d 10h

```
       1.0s    15.52nm          6.1mb
     Z  20s    70.00um          7.2Msz
RSSD  108.40  46 ePdiff41 25.57  -0.5
       1.5s    36.97nm          6.3mb
                ePP   45 52.66
DAG   108.70 356 ePdiff41 24.00  -2.3
       0.8s     8.96nm          6.0mb
DAG   108.70 356 ePKP  45 23.00  -8.5X
       0.9s     7.56nm
KAF   108.78 334 ePKP  45 36.90   4.9X
NUR   110.17 333 ePdiff41 44.00  10.8X
     Z  24s    62.00um          7.1MszX
                ePP   46 12.00
                ePPP  46 32.00
                eSKS  52 16.00
                eS    53 20.00
                e     53 48.00
                ePS   55 32.00
                eSS   01 28.00
                LR    31 28.00
NUR   110.17 333 ePKP  45 38.60   3.9X
BFT   110.40 240 ePKP  45 38.00   1.5
                e     56 39.00
LTX   110.60  61 ePKP  45 37.62   1.0
GRM   110.68 231 ePKP  45 40.00   3.4X
       1.0s    80.00nm
                e     56 49.00
MNK   111.26 326 ePdiff41 36.00  -2.1
     Z  22s    48.60um          7.0Msz
     N  22s    24.50um
                e     46 23.00
                e     52 12.00
                e     55 36.00
                eSS   01 48.00
SEK   111.62 237 ePKP  45 30.50  -8.2X
       0.7s    44.00nm
                e     56 33.50
SLR   111.90 239 iPKPd 45 39.50   0.3
       1.0s   110.00nm
     Z  18s   104.00um          7.5Msz
                e     56 30.00
ULM   112.31  38 ePKP  45 42.00   3.0X
BLF   112.53 235 ePKP  45 41.10   0.8
       1.3s    60.00nm
                e     56 31.50
HVD   112.55 234 ePKP  45 45.00   4.7X
       0.9s    39.00nm
FRS   113.00 234 ePKP  45 39.00  -2.0
       1.0s    15.00nm
BUL   113.25 245 ePKP  45 43.00   1.0
       0.9s    49.58nm
                eS    52 32.30
                iSS   56 09.20
BOSA  113.34 236 ePKP  45 41.93   0.3
EYL   113.36 312 ePKP  45 30.00 -11.6X
ACO   113.39  53 iPdiff41 50.70   2.6X
UPP   113.57 334 ePKP  45 49.00   7.8X
                iS    56 04.00
CFR   113.63 317 ePKP  45 43.00   1.2
WMOK  114.03  55 ePKP  45 43.74   0.8
     Z  20s    37.67um          7.0Msz
                ePP   46 38.82
MEO   114.18  55 iPdiff41 50.10  -1.6
PTT   114.28 319 ePKP  45 47.00   4.0X
LVV   114.77 323 iPKP  45 50.00   6.2X
     Z  18s    22.50um          6.8Msz
     N  18s    15.00um
     E  18s    25.00um
                e     46 51.00
                ePS   56 17.00
                eSS   02 50.00
LSZ   114.90 250 iPKPc 45 46.00   0.8
       1.0s     1.10nm
MLR   115.03 318 ePKPd 45 47.00   2.3
                e     09 22.00
NB2   115.49 337 PKP   45 42.60  -2.3
       0.9s     2.80nm
SUR   115.49 230 ePKP  45 55.00   8.9X
       1.5s   160.00nm
TNR   116.09 318 ePdiff42 00.00   0.1
CER   116.20 228 iPKPd 45 43.00  -4.1X
       1.2s   180.00nm
                e     57 11.00
UZH   116.27 322 ePdiff42 03.00   2.4X
                e     47 00.00
                e     49 20.00
                iSP   56 36.00
                eSS   03 00.00
EZN   116.38 312 ePKP  45 47.00  -0.2
DEV   116.91 319 ePKPc 45 51.00   3.0X
OJC   117.11 324 ePKP  45 50.00   1.7
                iS    54 49.60
SPC   117.29 323 e(PKP)45 35.70 -13.2X
                e     45 48.20
POF   117.44 233 ePKP  45 52.00   2.5
       1.0s    70.00nm
UYO   117.64  55 iPKPc 45 51.40   1.6
PSZ   118.03 322 ePKP  45 52.80   2.6X
NPS   118.06 307 ePKP  45 56.00   5.4X
COP   118.20 332 ePdiff42 17.00   8.0X
     Z  20s    62.41um          7.2Msz
                i     47 02.00
                eSKS  54 56.00
                i     57 04.00
MIAR  118.27  54 PKP   46 00.00   9.0X
     Z  20s    36.63um          7.0Msz
VAY   118.68 314 iPKP  45 53.00   1.5
KSP   118.81 326 ePKP  45 50.00  -1.5
                i     45 53.80
SRO   119.04 322 iPKP  45 54.40   2.4
                e     56 09.20
SKO   119.26 315 iPKP  45 51.00  -1.7
       1.1s    50.00nm
     Z  19s    15.65um          6.7Msz
                i     45 54.80
                i     45 59.30
                iPP   47 20.00
                iPS   57 06.00
KZN   119.58 313 ePKP  45 54.60   1.2
ZST   119.59 323 ePKP  45 51.70  -1.4
                eSKS  52 46.20
                ePKKP 56 06.70
SLM   119.78  49 PKP   46 00.00   6.3X
     Z  20s    34.47um          7.0Msz
VLI   119.79 309 ePKP  45 55.50   1.7
FVM   119.83  49 PKP   45 54.20   0.3
     Z  20s    58.22um          7.2Msz
OHR   120.01 315 iPKP  45 54.00  -0.2
       1.4s   120.00nm
VKA   120.03 324 iPKPd 45 56.70   2.8X
     Z  23s    12.90um          6.5MszX
                LR    37 48.00
BCI   120.08 316 ePKP  45 55.40   1.2
BRG   120.08 327 ePKP  45 53.80  -0.1
       2.2s   120.00nm
                i     45 56.20
                iS    55 10.00
KBN   120.19 314 ePKP  45 54.20  -0.3
CLL   120.35 328 ePKP  45 53.00  -1.4
       1.1s    33.00nm
     Z  21s    49.50um          7.1Msz
                PKKP  56 03.00
                SKKP  59 43.00
LSK   120.48 314 ePKP  45 56.50   1.4
SDA   120.59 316 ePKP  45 55.00  -0.1
LACI  120.59 315 ePKP  45 56.90   1.8
BERA  120.76 314 ePKP  45 56.50   1.0
TPE   120.86 314 ePKP  45 52.00  -3.7X
ELC   120.95  50 ePKP  45 54.34  -1.6
                ePP   47 15.66
KHC   121.19 325 PKP   45 54.50  -1.6
       1.0s    21.00nm
     N  20s    20.40um
     E  20s    17.70um
                e     45 58.50
                e     46 02.50
                e     46 07.00
                e     47 31.30
                sS    55 28.00
                ePKKP 56 02.50
                e     58 40.00
                eSKKP 59 34.00
                PKKS  59 39.50
KEK   121.21 313 ePKP  45 59.00   2.6X
GEC2  121.26 325 e(PKP)45 57.40   1.0
       1.0s    16.30nm
PTJ   121.33 321 e(PKP)46 03.80   7.2X
ZAG   121.36 321 ePKP  45 57.50   1.0
KMR   121.41 324 iPKP+ 45 53.40  -3.1X
                iPP   47 29.00
MOX   121.45 328 ePKP  45 57.50   1.0
       1.3s    27.00nm
     Z  23s    64.00um          7.2MszX
                ePKKP 55 56.00
JAQ   121.52  28 ePKP  45 56.50  -0.1
WET   121.57 326 ePKP  45 56.80   0.0
OXF   121.61  53 ePKP  45 58.08   0.8
                ePP   47 20.18
VBY   121.95 321 iPKP  45 57.00  -0.6
LJU   122.15 322 ePdiff42 27.50   0.7
                e     43 43.00
LJU   122.15 322 ePKP  45 57.00  -1.0
                e     46 05.40
                ePP   47 20.00
                eSDIF 55 32.00
GRF   122.19 327 ePKP  45 57.10  -0.9
     Z  22s    58.00um          7.2Msz
                e     46 00.30
HVAR  122.21 318 ePKP  45 58.80   0.6
PWLA  122.54  52 ePKP  45 58.29  -0.8
                iPP   47 34.96
VOY   122.54 322 ePKP  45 58.90   0.0
                e     46 00.70
                e     47 05.50
                ePP   47 42.30
                e     48 04.00
                e     49 41.90
                ePKKP355 54.20
                e     59 16.30
WIN   122.57 239 ePKP  45 54.00  -5.7X
       1.0s    92.00nm
     Z  20s   112.00um          7.5Msz
                e     55 46.50
RIY   122.57 321 e(PKP)45 57.70  -1.1
TRI   122.78 322 e(PKP)45 59.50   0.3
                e(PP) 47 42.00
                e(PPP)50 08.00
                e     58 12.00
                e(SSP)04 12.00
                eLR   23 56.00
FUR   122.99 325 iPKPd 46 02.20   2.6X
WTTA  123.27 324 iPKPc 45 58.90  -1.5
       1.2s    94.90nm
                i     46 02.40
                i     46 08.10
                i     55 55.00
TNS   123.35 329 ePdiff42 36.00   3.8X
                e     44 47.00
TNS   123.35 329 ePKPc 46 01.00   0.7
                ePP   47 40.00
                eSDIF 55 41.00
                ePS   57 39.00
SQTA  123.54 325 iPKPc 46 03.00   2.2
       1.1s    48.70nm
                i     47 00.30
                i     55 53.70
                i     59 42.70
BNS   123.55 330 iPKPd 46 03.20   2.7X
     Z  24s    83.50um          7.3MszX
                i+    47 45.00
                i     04 33.00
OGA   123.83 324 ePKP  46 01.00  -0.5
DLA   124.26  41 PKP   46 04.45   2.3
ELF   124.27  41 PKP   46 04.30   2.1
ENN   124.29 330 ePKP  46 04.00   2.0
       1.0s    40.00nm
                e     47 56.00
LDN   124.43  41 PKP   46 04.45   1.9
LANF  124.43 328 PKP   46 05.01   2.6X
WLF   124.87 329 PKP   46 02.00  -1.1
                id    46 06.30
                e     48 01.00
                e     59 43.00
ACTO  124.87  40 PKP   46 06.35   3.0X
EKA   124.88 339 PKPc  46 04.10   1.1
       0.8s    13.20nm
FEL   124.97 327 PKP   46 05.57   2.0
WLS   125.01 327 PKP   46 05.57   2.0
UCC   125.03 331 PKP   46 05.00   1.6
                e     47 57.00
                e     50 37.00
CDF   125.05 328 ePKP  46 02.20  -1.5
       1.1s    22.20nm
CDF   125.05 328 PKP   46 05.57   1.9
ECH   125.23 327 PKP   46 05.77   1.8
TYNO  125.25  40 PKP   46 05.87   1.8
SNF   125.25 331 PKP   46 05.30   1.5
FIR   125.28 321 ePKP  46 06.50   2.4
DOU   125.37 330 PKP   46 07.10   3.0X
                e     49 46.50
                e     55 51.10
```

```
                e     59 47.70
MOF   125.46 327 PKP  46 06.51   2.0
BBS   125.49 326 PKP  46 06.48   2.0
MYNC  125.57  51 ePKP 46 05.79   0.7
      Z  20s    39.74um          7.1Msz
BSF   125.66 327 ePKP 46 03.70  -1.2
       1.2s   103.25nm
WLVO  125.76  39 PKP  46 07.00   1.9
HAU   125.79 328 ePKP 46 03.90  -1.2
       1.0s    55.60nm
      Z  22s    39.00um          7.0Msz
VITF  125.85 328 PKP  46 07.48   2.3
LOMF  125.93 327 PKP  46 07.61   2.2
WIM   126.36 339 ePKP 46 05.60  -0.3
YSNY  126.40  40 ePKP 46 06.35  -0.1
GAC   126.54  35 ePKP 46 07.00   0.5
PCP   126.55 323 PKP  46 06.50  -0.2
WME   126.82 338 ePKP 46 07.90   1.1
LSD   126.85 325 PKP  46 09.02   1.5
FIN   126.93 323 PKP  46 07.56   0.2
RSP   126.97 324 PKP  46 09.29   1.7
YRC   127.04 338 ePKP 46 05.90  -1.3
LPG   127.06 325 ePKP 46 07.10  -0.8
       1.5s    90.35nm
LPL   127.06 325 ePKP 46 07.10  -0.8
       1.4s    81.90nm
ROB   127.09 323 PKP  46 08.97   1.2
BHB   127.14 324 PKP  46 08.61   0.9
IMI   127.29 323 PKP  46 09.34   1.2
PGF   127.33 321 ePKP 46 07.30  -1.0
       1.6s   216.40nm
PGF   127.33 321 PKP  46 10.76   2.5X
YRH   127.39 338 ePKP 46 07.70  -0.2
ENR   127.39 323 PKP  46 10.48   2.1
PZZ   127.43 324 PKP  46 11.08   2.6X
STV   127.44 323 PKP  46 10.62   2.2
SAOF  127.45 323 PKP  46 10.28   1.9
LOR   127.57 328 ePKP 46 07.70  -0.8
       1.7s   126.45nm
      Z  22s    38.00um          7.0Msz
SBF   127.59 323 ePKP 46 07.60  -1.1
       1.5s   286.25nm
LBF   127.69 328 ePKP 46 07.90  -0.9
       1.1s    35.40nm
DLF   127.70 340 ePKP 46 10.10   1.6
       1.0s    58.00nm
RSNY  127.75  36 ePKP 46 09.94   1.0
PEL   127.86 141 iPKPd 46 09.50   0.0
       1.3s   769.23nm
SSF   127.88 328 ePKP 46 08.40  -0.7
       1.5s   119.10nm
DCN   127.92 340 ePKP 46 10.60   1.7
       1.0s    70.00nm
SMF   127.97 328 ePKP 46 08.40  -0.9
       1.1s    56.40nm
AVF   128.14 328 ePKP 46 08.60  -0.9
       1.5s    58.00nm
BINY  128.17  39 ePKP 46 07.89  -1.9
      Z  21s    78.57um          7.4Msz
HYF   128.20 329 ePKP 46 09.40  -0.3
       1.1s   154.80nm
FRF   128.23 323 ePKP 46 09.00  -0.8
       1.6s   190.30nm
SSB   128.44 326 PKP  46 13.18   2.9X
LMR   128.44 323 ePKP 46 09.40  -0.8
       1.5s   159.85nm
LRG   128.46 323 ePKP 46 09.50  -0.7
       1.6s   238.20nm
      Z  20s    22.00um          6.8Msz
PLDF  128.52 327 PKP  46 13.18   2.8X
BGF   128.56 328 ePKP 46 09.80  -0.6
       1.6s   141.80nm
COLF  128.76 327 PKP  46 11.91   1.1
MAF   128.92 328 ePKP 46 10.50  -0.6
       1.8s   124.30nm
PYM   128.99 327 PKP  46 14.47   3.2X
CEH   129.05  48 ePKP 46 12.68   1.1
      Z  20s    49.24um          7.2Msz
TCF   129.07 328 ePKP 46 10.80  -0.6
       1.5s   153.55nm
MDZ   129.18 142 PKP  46 14.20   2.1
                S     48 20.20
                LR    49 37.50
LBL   129.19 327 PKP  46 13.83   2.1
CBN   129.25  44 ePKP 46 10.50  -1.4
                e     48 20.00
LBNH  129.43  35 PKP  46 20.00   7.9X
      Z  20s    60.49um          7.3Msz
LSF   129.45 329 ePKP 46 11.20  -0.9
       1.7s   116.15nm
CBM   129.71  30 PKP  46 20.00   7.5X
      Z  20s    62.32um          7.3Msz
RTCB  130.15 140 iPKPc 46 14.50   0.5
LSCT  130.17  38 PKP  46 20.00   6.4X
      Z  21s    39.16um          7.1Msz
RTLL  130.46 140 e(PKP)46 15.00   0.5
HRV   130.70  36 PKP  46 20.00   5.5X
      Z  20s    41.93um          7.1Msz
MRA   131.40 144 e(PKP)46 02.20 -14.0X
LMN   132.10  29 ePKP 46 18.00   0.9
RTPR  132.39 141 ePKP 46 18.60   0.5
TCA   132.83 144 e(PKP)46 06.00 -13.1X
EBR   133.53 324 ePKP 46 23.00   3.0X
                iPP   48 50.00
LPA   133.56 153 ePKP+ 46 22.00   1.8
      Z  20s    22.69um          6.9Msz
                ePP   48 49.00
NNA   133.84 113 ePKP 46 22.00   0.6
       1.6s   400.00nm
ECRI  134.04 328 ePKP 46 22.78   1.8
ETOR  135.00 325 ePKP 46 26.79   3.9X
FSA   135.56 137 e(PKP)46 20.00  -4.2X
GUD   136.29 327 ePKP 46 21.94  -3.5X
EVIA  136.70 323 ePKP 46 26.20   0.0
ARE   136.77 122 ePKP 46 16.00 -11.2X
SLA   136.79 136 ePKP 46 17.60  -9.3X
EHUE  137.29 323 ePKP 46 29.64   2.3
EBAN  137.77 324 ePKP 46 30.65   2.5X
HJA   137.83 134 ePKPd 46 21.10  -7.5X
YJA   138.41 133 e(PKP)46 20.00 -10.3X
ELUQ  138.46 324 ePKP 46 32.08   2.6X
EGUA  138.51 322 ePKP 46 30.75   1.2
EHOR  138.85 325 ePKP 46 30.51   0.4
MOCB  138.87 132 PKP  46 17.60 -13.6X
TAF   139.05 319 ePKP 46 44.00  13.3X
                i     47 10.00
EPRU  139.43 324 ePKP 46 32.54   1.3
CNCB  139.53 124 PKP  46 24.40  -8.2X
LPB   139.58 124 PKP  46 25.00  -7.5X
       1.1s   405.06nm
      Z  18s    15.81um          6.8Msz
                SS    07 44.00
                LR    35 07.00
LPAZ  139.67 124 PKP  46 41.90   8.9X
EJIF  139.91 323 ePKP 46 31.54  -0.5
NKM   140.55 322 ePKP 46 30.00  -3.2X
                i     46 33.50
                i     46 44.00
TZK   140.65 319 ePKP 46 34.00   0.6
CCH   140.72 127 PKP  46 27.70  -6.7X
BMG   141.18  86 ePKP 46 30.00  -5.1X
CZD   141.86 319 iPKP 46 35.50  -0.1
TNF   142.36 318 ePKP 46 39.00   2.5X
AVE   143.21 321 iPKP 46 40.50   2.5
                i     47 16.50
SDV   143.57  83 ePKPd 46 36.00  -3.4X
TOV   144.36  81 ePKPd 46 38.00  -2.5X
                iPP   46 39.40
OUK   144.88 319 ePKP 46 41.00   0.2
CIA   145.23 320 iPKP 46 42.00   0.6
MCP   145.41  66 PKP  46 40.50  -1.6
JHA   145.53 321 iPKP 46 43.00   1.1
MGP   145.55  67 PKP  46 40.30  -2.0
MORO  145.72  79 iPKPc 46 42.20  -0.7
APR   145.75  66 PKP  46 42.70   0.1
CEOS  145.84  83 iPKPc 46 42.80  -0.3
PNP   145.91  66 PKP  46 41.60  -1.3
CLLP  146.00  66 PKP  46 42.00  -1.1
SJG   146.38  66 ePKP 46 42.94  -0.8
LPR   146.57  66 PKP  46 40.80  -3.3X
CPD   146.61  66 PKP  46 43.70  -0.4
GUAC  146.81  80 ePKP 46 46.10   1.4
CAR   147.11  80 iPKPd 46 44.00  -1.1
OLLA  147.28  81 iPKPd 46 47.30   1.9
PDA   147.41 348 iPKP 46 52.00   7.2X
PPD   147.47 149 ePKP 46 45.90   0.5
VAO2  148.56 157 ePKP 46 51.40   4.1X
                e     46 56.10
VAO   148.60 157 ePKP 46 51.20   3.9X
CACB  149.88 156 ePKP 46 51.40   2.1
                e     46 55.60
                e     47 36.10
                e     09 49.70
AGVB  149.93 148 iPKPd 46 51.60   2.3
                e     46 55.20
                e     47 38.20
                e     09 52.10
ANG   150.59  65 ePKP 46 57.45   7.2X
BPA   150.60  66 ePKP 46 56.72   6.4X
CFTV  150.72 322 ePKPd 47 04.00  13.7X
KIC   150.90 272 PKP  46 51.38   0.5
       1.0s  1116.00nm
      Z  22s    33.50um          7.1Msz
TIC   151.18 273 PKP  46 51.62   0.3
       0.8s    78.00nm
LIC   151.18 272 PKP  46 51.38   0.1
       0.8s   927.50nm
LKO   151.61 279 PKP  46 50.84  -1.1
       0.5s    84.00nm
CDCB  151.97 158 ePKP 46 50.90  -1.5
                e     46 59.60
TBT   152.70 328 iPKPd 47 00.00   6.9X
CHIE  153.48 327 iPKPd 46 58.60   4.4X
BDFB  154.49 147 PKP  47 12.00  16.0X
BAO   154.51 147 ePKP 46 56.20   0.1
                e     47 06.10
                e     47 25.60
                i     47 44.00
                i     47 51.90
KDS   157.50 289 ePKP 46 57.80  -2.1
MBO   161.23 298 ePKP 47 09.10   5.3X
SOB1  163.49 155 ePKP 47 07.60   1.4
     S.D. = 1.2  on 416 of 526 obs.
-----------------------------------
%  OCT  25, 1993  10h 41m 32.20± 0.87s
   39.166 N ± 6.9km   27.558 E ± 8.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.7 (ISK).

IZM     0.80 197 ePg   41 47.60  -0.2
                eSg   41 59.90
DST     0.94  62 ePn   41 50.50   0.4
EZN     1.16 305 ePn   41 54.30   0.5
EDC     1.20  11 ePn   41 54.30  -0.3
KGT     1.30 351 iPn   41 55.90  -0.3
     S.D. = 0.5  on   5 of   5 obs.
-----------------------------------
*  OCT  25, 1993  10h 53m 12.28± 1.39s
   10.939 N ± 9.1km  125.685 E ±23.6km
   DEPTH =  94.5 ± 11.3 km
   4.7mb (  2 obs.)
 LEYTE, PHILIPPINE ISLANDS         (256)

PLP     0.73 288 iPd   53 28.50  -1.2
                iS    53 47.50
MAP     1.78 250 iPd   53 43.00   0.7
                iS    54 22.00
BIP     2.75 168 iPd   53 56.50   1.1
                eS    54 35.00
DAV     3.83 182 eP    54 11.00   0.9
CTB     3.99 202 eP    54 21.00   8.6X
GQP     4.32 313 eP    54 18.00   1.0
BAG     7.36 318 eP    54 56.10  -3.0X
CVP     7.70 331 eP    55 02.00  -1.5
SSE    20.49 349 eP    57 43.50  -1.2
BJI    30.19 345 eP    59 16.00   0.4
QIS    34.16 156 iPd   59 45.60  -4.9X
WARB   36.91 179 eP    00 12.00  -1.7
       0.6s    11.00nm          5.0mb
MRWA   41.00 193 eP    00 47.00  -0.6
BAL    42.20 192 eP    00 56.20  -1.2
MUN    43.63 192 eP    01 08.20  -0.8
NWAO   44.36 190 eP    01 14.80  -0.1
GBA    47.16 278 P     01 42.00   4.6X
CSY    77.82 186 iPc   05 10.90  10.5X
       0.6s    18.60nm
                i     05 13.40
OBN    80.60 324 eP    05 11.00  -4.7X
                e     05 16.00
KAF    84.77 332 eP    05 38.90   2.0
GEC2   95.82 322 P     06 31.60   2.2
       1.1s     1.43nm          4.4mb
     S.D. = 1.4  on  15 of  21 obs.
-----------------------------------
&  OCT  25, 1993  11h 02m 56.00s
   33.007 N          116.570 W
   DEPTH =   6.0km  (geophysicist)
 SOUTHERN CALIFORNIA               ( 43)
      <PAS-P>. MD 2.3 (PAS). Felt.
```

25d 11h

```
PLM      0.42 325 iPc    03 05.08   0.5
                  eS     03 11.39
PEC      1.01 331 eP     03 14.85  -0.7
                  eS     03 27.75
GLA      1.47  88 eP     03 20.88  -2.1
SSK      1.52 322 eP     03 23.85  -0.1
                  eS     03 44.07
GSC      2.30 355 (Pn)   03 36.38   1.3
         5 obs. associated
-----------------------------------
*  OCT  25, 1993  11h 15m 43.52± 2.82s
   33.493 S ± 7.9km   70.848 W ±11.1km
   DEPTH =  69.4 ± 30.4 km
 CHILE-ARGENTINA BORDER REGION    (127)
      MD 3.7 (SAN).

TACH     0.18 205 iPd    15 54.26   0.0
                  iS     16 02.92
PCH      0.31 115 iP+    15 55.20   0.2
                  iS     16 04.51
PEL      0.37  21 eP     15 54.85  -0.6
                  iS     16 05.45
ROCH     0.54 345 iP     15 57.43   0.3
                  iS     16 08.14
LCCH     0.60 272 iPd    15 57.78   0.3
                  iS     16 08.70
CACH     0.66 162 iP+    15 58.38   0.1
                  iS     16 10.60
LNV      0.66 225 iP+    15 57.61  -0.5
JACH     0.84  15 iP+    16 00.28   0.0
                  iS     16 13.53
      S.D. = 0.4  on   8 of   8 obs.
-----------------------------------
*  OCT  25, 1993  11h 16m 55.43± 0.84s
    5.929 S ± 7.2km  145.982 E ± 9.6km
   DEPTH =  10.0km  (geophysicist)
   4.1mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY     0.31 182 eP     17 02.40   0.5
MDG      0.70 343 eP     17 09.40   0.1
LAT      1.25 126 eP     17 18.20  -0.4
HNR     14.27 105 eP     20 20.00   0.3
WR2     17.94 218 eP     21 06.30  -0.4
         1.0s     7.50nm          3.8mb
                  e      22 22.40
ASPA    21.12 212 eP     21 45.50   2.6X
         0.8s    14.70nm          4.4mb
CNCB   139.52 124 PKP    36 27.00   0.2X
LPB    139.57 124 ePKP   36 30.00   3.3X
LPAZ   139.67 124 ePKP   36 36.00   8.9X
      S.D. = 0.6  on   5 of   9 obs.
-----------------------------------
*  OCT  25, 1993  11h 30m 08.81± 0.74s
    5.761 S ±10.5km  146.152 E ±12.5km
   DEPTH =  10.0km  (geophysicist)
   4.5mb (  4 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

MNDI     2.51 261 eP     30 54.00   3.5X
PMG      3.76 165 eP     31 10.00   1.9
KVG      5.62  56 eP     31 32.50  -1.9
HNR     14.15 106 ePc    33 35.00   3.5X
                  eS     36 31.00
QIS     16.02 203 eP     33 55.00  -1.0
WR2     18.17 218 eP     34 21.80  -1.2
         1.0s    28.80nm          4.4mb
                  ipP    34 26.40
                  eS     37 52.90
ASPA    21.35 212 eP     34 57.00  -1.6
                  eS     38 52.80
BKM     24.62 121 iPc    35 32.30   1.6
ARMA    25.06 169 eP     35 33.00  -2.0
         0.7s     9.00nm          4.6mb
DZM     25.45 132 iPc    35 37.90  -0.9
STK     26.33 189 eP     35 47.50   0.8
         0.9s     9.20nm          4.5mb
AFI     42.18 104 eP     37 29.00 -34.7X
MAT     42.73 351 (P)    38 07.00  -0.9
LOE     49.54 299 eP     39 03.00   0.8
NST     50.30 296 eP     39 13.00   5.1X
CHTO    52.53 299 eP     39 31.30   6.4X
CSY     65.27 195 eP     41 01.50   8.8X
         0.7s     7.20nm          5.0mb
GBA     70.86 286 P      41 30.00   1.6
TAB    101.26 308 ePdiff43 42.30 -19.4X
MOCB   138.85 132 PKP    49 40.50   1.8
CNCB   139.48 124 PKP    49 35.00  -5.1X
LPB    139.53 124 ePKP   49 41.00   1.0
LPAZ   139.62 123 PKP    49 33.10  -7.3X
PPD    147.51 149 ePKP   49 56.50   3.5X
KIC    151.05 273 PKP    50 04.67   6.0X
         0.9s    16.50nm
TIC    151.33 273 PKP    50 05.77   6.7X
         0.5s     5.50nm
LIC    151.33 272 PKP    50 05.09   6.0X
         0.6s     7.50nm
LKO    151.75 279 PKP    50 04.58   4.8X
         0.6s     8.00nm
      S.D. = 1.6  on  14 of  28 obs.
-----------------------------------
   OCT  25, 1993  11h 55m 33.03± 0.34s
   43.872 N ± 5.4km   16.514 E ± 5.6km
   DEPTH =   5.0km  (geophysicist)
 NORTHWESTERN BALKAN REGION       (383)
      ML 2.2 (LJU).

HVAR     0.69 184 iPgc    55 46.40  -0.5
                  iSg    55 59.60
BRY      1.77 123 iPnc    56 04.39  -0.2
                  iSn    56 29.60
VBY      1.86 332 iPn     56 05.20  -0.6
                  iSn    56 28.90
HCY      2.03 134 iPnc    56 08.92   0.6
                  iSn    56 36.24
PTJ      2.07 349 ePn     56 07.60  -1.3
                  iSg    56 35.20
NKY      2.10 119 iPnd    56 09.85   0.5
                  iSn    56 37.41
RIY      2.12 315 e(Pn)   56 09.90   0.4
                  iSn    56 40.80
PLE      2.16 104 iPnd    56 10.30   0.0
                  iSn    56 39.00
BDV      2.32 132 iPnc    56 12.33  -0.2
                  iSn    56 43.19
CEY      2.39 322 ePn     56 14.30   0.9
                  eSn    56 46.20
TTG      2.47 125 ePn     56 14.83   0.2
                  iSn    56 46.59
IVA      2.66 111 iPnc    56 17.30  -0.1
                  iSn    56 51.09
TRI      2.68 314 e(Pn)   56 22.90   5.3X
                  e      56 47.10
                  e      56 57.40
                  e(Sg)  57 04.40
ULC      2.77 133 iPnd    56 18.97   0.0
                  iSn    56 54.09
PVY      2.83 116 iPnc    56 19.74  -0.2
                  iSn    56 55.35
VOY      2.85 320 ePn     56 20.50   0.4
                  e(Pg)  56 25.80
                  eSn    56 54.70
                  e(Sg)  56 57.70
KBA      3.91 326 iP      56 36.00   0.8
         0.4s     1.40nm
                  i      57 32.60
                  i      57 42.00
WTTA     4.82 316 iP      56 48.40   0.2
         0.3s     3.20nm
                  i      57 47.20
MOTA     5.14 314 iP      56 51.80  -0.9
                  i      57 50.90
      S.D. = 0.6  on  18 of  19 obs.
-----------------------------------
   OCT  25, 1993  11h 59m 48.03± 0.20s
    5.858 S ± 4.4km  146.016 E ± 5.6km
   DEPTH =  26.5km  (  4 depth phases)
   5.6mb ( 42 obs.)  6.1Msz (  3 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

RAB      6.34  75 e(P)    01 06.00 -16.3X
TLE     13.20 270 ePd     03 02.20   5.7X
CTAO    14.15 179 eP      03 09.98   1.1
HNR     14.25 105 eP      03 02.00  -8.3X
                  eS     06 01.00
QIS     15.88 202 eP      03 30.20  -1.3
WRA     18.02 218 P       04 00.00   1.5
GUA     19.30 357 eP      04 14.10   0.0
         1.3s   692.31nm          5.8mb
GUMO    19.35 357 eP      04 13.15  -1.5
         1.3s   653.69nm          5.7mb
PJG     19.35 357 eP      04 13.70  -1.0
BKM     24.69 120 iPc     05 07.00  -1.4
PVC     24.78 120 iPc     05 11.50   2.3
ARMA    25.00 168 eP      05 10.30  -1.1
         0.6s    32.00nm          5.1mb
                  eScP   12 32.80
DZM     25.49 131 iPc     05 06.90  -9.2X
WARB    27.40 220 eP      05 31.00  -2.5X
         0.6s    23.00nm          5.0mb
CAN     29.45 175 eP      05 44.80  -7.1X
                  epP    05 52.20  26km
TSM     29.86 289 eP      05 54.50  -1.3
TOO     31.57 181 eP      06 10.00  -0.6
         1.2s   103.00nm          5.6mb
KKM     32.01 291 eP      06 22.00   7.1X
KUMJ    40.82 340 eP      07 31.10   2.0
WKYJ    41.06 347 P       07 31.50   0.4
TKSJ    41.21 345 P       07 33.20   0.9
WLZ     41.70 144 eP      07 35.80  -0.4
IIDJ    41.82 350 P       07 35.80  -1.5
SHNJ    42.19 341 eP      07 42.80   2.5X
KAKJ    42.20 353 P       07 39.90  -0.4
CHJJ    42.20 352 P       07 41.10   0.7
AFI     42.29 104 eP      07 43.10   1.6
YONJ    42.50 345 P       07 44.80   1.9
MAT     42.81 351 eP      07 40.00  -5.4X
URZ     42.85 143 eP      07 44.50  -1.2
MTMJ    42.91 350 P       07 44.00  -2.3
THZ     43.02 150 eP      07 47.20   0.1
MSZ     43.15 157 eP      07 48.20   0.2
KGM     43.35 279 ePd     07 48.50  -1.6
WAHZ    43.37 145 eP      07 44.40  -5.6X
NIIJ    43.37 352 P       07 49.00  -0.9
QIZ     43.38 306 P       07 54.00   3.8X
PUZ     43.42 142 eP      07 40.80  -9.6X
LTZ     43.49 152 eP      07 50.00  -0.9
MNG     43.52 147 eP      07 48.90  -2.3
MRW     43.55 148 e(P)    07 52.00   0.7
NOZ     43.63 143 eP      07 42.60  -9.4X
SSE     43.74 329 P       07 54.00   1.0
         1.0s    21.00nm          4.9mb
BWZ     43.82 155 eP      07 51.70  -1.7
KHZ     43.83 150 eP      07 52.30  -1.2
YAMJ    44.16 353 eP      08 00.40   4.1X
TUZ     44.88 157 eP      07 59.90  -2.1
NJ2     45.73 327 Pd      08 09.20   0.3
                  pP     08 18.00  29km
IPM     46.11 282 ePd     08 11.50  -0.7
         1.5s   301.30nm          6.0mb
                  ed     26 27.80
SNG     47.11 285 eP      08 22.00   1.9
TIA     49.85 329 eP      08 40.90  -0.2
GYA     49.86 312 P       08 44.60   3.2X
         1.2s    59.00nm          5.5mb
NST     50.22 296 eP      08 43.50  -0.6
BDT     51.81 297 eP      08 55.00  -1.2
KMI     52.14 308 eP      09 00.00   1.1
         1.9s   150.00nm          5.6mb
      Z  24s     5.50um          5.5MszX
                  pP     09 08.00  27km
CN2     52.81 341 eP      09 02.60  -0.7
         1.2s    32.00nm          5.1mb
BJI     53.31 332 eP      09 06.00  -1.0
         1.5s    28.00nm          5.0mb
TIY     53.45 327 eP      09 07.30  -0.9
CD2     54.48 315 P       09 16.20   0.3
         1.0s    46.00nm          5.5mb
RAR     54.60 112 eP      09 20.95   4.1X
         1.1s    72.81nm          5.6mb
HHC     56.20 329 P       09 28.20  -0.1
         1.4s    24.00nm          5.0mb
      Z  30s    13.70um          5.9MszX
BTO     56.83 328 eP      09 30.00  -2.8X
LZH     57.47 320 eP      09 38.00   0.5
         2.0s   220.00nm          5.8mb
      Z  25s     3.80um          5.4MszX
                  pP     09 45.50  24km
GTA     62.01 321 eP      10 08.50  -0.1
         1.2s    10.00nm          4.8mb
                  pP     10 12.50  13kmX
                  sP     10 16.00
LSA     63.38 307 P       10 19.70   1.5
         0.7s    12.00nm          5.1mb
AFR     63.68 107 iPc     10 20.60   0.8
         1.1s   170.90nm          6.1mb
PAE     63.87 107 iPc     10 21.50   0.4
         1.7s   533.80nm          6.4mb
PPT     63.87 107 iPc     10 21.70   0.6
         1.9s   990.40nm          6.6mb X
CIT     63.93 338 eP      10 20.00  -1.0
```

```
PPN     64.01 107 iPc   10 22.60   0.6
        1.7s   572.00nm          6.4mb
TVO     64.19 107 iPc   10 23.50   0.2
        1.1s   170.90nm          6.1mb
PMO     65.43 104 iPc   10 32.60   1.4
        1.8s  1477.70nm          6.8mb X
VAH     65.69 104 iPc   10 34.00   1.1
        1.8s   649.10nm          6.5mb
TPT     65.70 104 iPc   10 34.30   1.4
        2.0s  1394.80nm          6.7mb X
ADK     65.73  24 eP    10 29.76  -2.8X
        1.3s    42.45nm          5.4mb
RUV     65.93 104 iPc   10 35.60   1.2
        1.1s   157.80nm          6.1mb
IRK     67.89 334 eP    10 49.80   3.5X
        2.8s   221.00nm          5.8mb
YAK     68.84 352 eP    10 52.50   0.6
        1.3s   102.00nm          5.8mb
HYB     70.50 291 ePd   11 01.50  -1.5
        1.0s    70.00nm          5.7mb
GBA     70.76 287 P     11 04.00  -0.5
SBA     72.77 175 eP    11 15.00  -0.5
NDI     74.47 302 iP    11 25.00  -1.3
POO     75.11 291 eP    11 23.50  -6.6X
SDN     75.23  28 eP    11 29.48  -0.6
        1.0s   104.17nm          5.8mb
BOM     76.14 291 eP    11 38.00   2.1
ILT     77.68  13 iPc   11 42.00  -1.5
KSH     78.53 312 eP    11 51.50   2.5
        1.4s    55.00nm          5.4mb
ANM     78.90  19 eP    11 51.53   1.2
NIL     79.05 306 iPc   11 54.00   2.1
        0.7s     0.07nm          2.8mb X
                 iS     21 59.00
KDC     80.27  29 eP    11 55.74  -2.0
        1.2s    21.69nm          5.1mb
SVW     80.51  25 eP    11 59.49   0.3
        1.0s    65.89nm          5.6mb
FRU     80.52 315 eP    12 04.50   4.9X
TTA     81.30  23 eP    12 02.74  -0.6
        1.2s    18.25nm          5.0mb
MAW     82.00 203 eP    12 05.50  -1.3
        1.0s    25.00nm          5.2mb
SLKM    82.56  27 eP    12 07.61  -2.2
PMR     83.50  26 eP    12 13.18  -1.4
        1.0s    36.18nm          5.5mb
IMA     83.77  21 eP    12 12.90  -3.2X
        1.3s    35.57nm          5.4mb
TOA     85.00  26 eP    12 22.10  -0.1
FBA     85.43  23 eP    12 21.57  -2.7X
        1.1s    40.44nm          5.6mb
BALM    86.33  28 eP    12 28.04  -0.9
MAIO    90.63 306 eP    12 52.00   [illegible]
INK     91.88  22 eP    12 54.00  -0.8
        1.0s     3.00nm          4.7mb
SVE     92.33 327 eP    13 05.00   [illegible]9X
LGPM    94.67  49 eP    13 08.49   [illegible]
WDC     94.86  50 eP    13 09.41   0.3
        1.5s    51.33nm          5.7mb
GMW     95.09  43 eP    13 09.81  -0.2
MCW     95.12  42 eP    13 11.23   [illegible]
LBFM    95.40  49 (P)   13 12.31   0.4
ARN     95.46  53 eP    13 13.85   [illegible]
ORV     95.60  51 eP    13 12.97   0.4
RMW     95.75  43 eP    13 13.01   [illegible]
CMB     96.40  52 eP    13 17.08   [illegible]
        1.7s    27.87nm          [illegible]
MBC     96.76  14 ePc   13 17.6[illegible]
                 PP     17 17.5[illegible]
MEMM    97.53  53 (P)   13 21.45   [illegible]
NVL     97.71 194 eP    13 22.0[illegible]
        2.0s    50.00nm          [illegible]
                 e      16 2[illegible]
                 e      24 [illegible]
ISA     97.85  55 P     13 3[illegible]
      Z 20s      8.45um          [illegible]
BONR    98.05  53 eP    13 [illegible]
PEC     98.89  57 (PDIF)13 [illegible]
        1.5s    42.37nm          [illegible]
NEW     98.91  42 (PDIF)13 26.7[illegible]
        1.1s    15.76nm          [illegible]
GSC     99.21  55 (PDIF)13 28.64   [illegible]
ARUT   101.89  53 (Pdiff13 44.1[illegible]
MSU    102.86  52 (Pdiff13 44.58   [illegible]
SRU    104.11  51 (Pdiff13 49.64   [illegible]
TUC    104.26  58 Pdiff 14 00.0[illegible]
      Z 21s      6.62um          6.[illegible]Msz

SLR     111.95 239 ePKP  18 25.00   1.5
         1.0s    25.00nm
BLF     112.58 235 ePKP  18 09.00 -15.6X
FVM     119.78  49 (PKP) 18 40.97   3.1X
KHC     121.16 325 ePKP  18 40.00  -0.2
         1.0s     3.50nm
                  e      19 23.50
                  e      20 03.50
GEC2    121.24 325 PKP   18 40.50   0.1
         1.2s     2.77nm
                  e      18 44.50
                  e      18 48.90
CDF     125.02 328 ePKP  18 39.10  -8.6X
BSF     125.63 327 ePKP  18 43.80  -5.2X
         1.3s    20.95nm
HAU     125.76 328 ePKP  18 44.10  -5.0X
         1.3s    20.20nm
      Z 20s      1.15um          5.5Msz
SMF     127.94 328 ePKP  18 48.50  -4.8X
         1.4s    17.85nm
RTCB    130.17 140 iPKPc 19 00.00   1.8X
RTLL    130.49 140 iPKPc 19 02.00   3.3X
TCA     132.86 144 e(PKP)19 03.00  -0.2
MOCB    138.89 132 PKP   19 15.90   0.5
LPAZ    139.68 124 PKPd  19 09.30  -7.8X
         0.9s    18.70nm
                  i      19 17.90
                  PKS    22 55.70
                  e      25 07.00
SDV     143.54  83 ePKP  19 19.00  -4.4X
TOV     144.32  81 ePKP  19 12.00 -12.6X
PPD     147.50 149 ePKP  19 30.60   1.0
VAO2    148.60 157 ePKP  19 28.90  -2.5X
VAO     148.63 157 ePKP  19 33.90   2.5
                  e      19 35.60
                  e      19 39.80
                  e(pPKP19 43.00
                  e      19 45.00
KIC     150.92 273 ePKP  19 40.00   4.9X
         1.3s   282.00nm
KIC     150.92 273 PKP   19 30.28  -4.8X
         0.7s     9.00nm
TIC     151.20 273 PKP   19 30.86  -4.6X
LIC     151.20 272 PKP   19 30.67  -4.8X
         0.6s     6.50nm
LKO     151.63 279 PKP   19 29.86  -6.3X
         0.9s    11.00nm
BAC     154.53 147 ePKP  19 39.80  -0.4
                  e      19 43.50
                  i      19 48.00
BDF     154.56 147 (PKP) 19 42.40   2.1
         1.7s     1.15nm
                  i      19 45.20
                  i      19 54.10
                  i      20 03.20
KDS     157.51 289 ePKP  19 45.80   1.8
GDB1    163.52 155 (PKP) 19 52.00   1.6
      S.D. = 1.2  on 108 of 152 obs.
-----------------------------------
    OCT  25, 1993  12h 02m 39.28± 0.49s
    39.565 N ± 4.6km   28.548 E ± 4.6km
    DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      ML 3.4 (ISK).

[illegible]     0.07  57 iPg   02 41.40  -0.3
[illegible]     0.93 329 iPg   02 56.90  -0.1
[illegible]     0.94 326 iPg   02 56.30  -0.9
                         eSg   03 10.30
[illegible]     1.05  42 iPg   02 59.40   0.3
                         eSg   03 14.90
[illegible]     1.31 112 iPn   03 02.70  -1.0
[illegible]     1.45 148 iPn   03 05.00  -0.7
[illegible]     1.52  34 ePn   03 06.90   0.3
[illegible]     1.54  61 iPn   03 06.50  -0.3
[illegible]     1.55  14 ePn   03 06.90   0.0
[illegible]     1.56 322 ePn   03 06.90  -0.3
[illegible]     1.58 357 ePn   03 07.90   0.5
[illegible]     1.59  51 ePn   03 08.30   0.7
[illegible]     1.73 279 iPn   03 08.90  -0.7
[illegible]     2.00 191 eP    03 15.00   1.6
[illegible]     2.33 345 ePn   03 19.00   0.7
      S.D. = 0.8  on  15 of  15 obs.
-----------------------------------
    OCT  25, 1993  12h 15m 08.48± 3.53s
    41.788 N ±23.2km   27.516 E ±20.5km
    DEPTH =  5.0km  (geophysicist)

 TURKEY                              (366)
      ML 3.0 (ISK).

DMK      0.18  79 iPg   15 12.00  -0.3
                  eSg   15 17.50
CTT      0.94 133 iPg   15 26.40  -0.4
MFT      1.02 190 ePg   15 27.40  -0.8
ISK      1.37 121 iPn   15 33.90  -0.2
BNT      1.46 168 ePn   15 35.90   0.3
EDC      1.46 170 ePn   15 36.30   0.7
HRT      1.89 120 ePn   15 41.90   0.2
EYL      2.34 121 ePn   15 48.80   0.5
      S.D. = 0.6  on   8 of   8 obs.
-----------------------------------
    OCT  25, 1993  12h 18m 01.23± 0.70s
     5.965 S ± 5.0km  146.008 E ± 6.2km
    DEPTH =  22.0 ±  5.5 km
    4.9mb ( 24 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.8 (PMG).

YYYY     0.28 188 ePd   18 07.70  -0.1
MDG      0.75 342 iPc   18 14.90  -0.5
LAT      1.21 125 eP    18 22.80   0.0
MNDI     2.34 265 eP    18 44.50   5.1X
WWKK     3.33 314 eP    18 58.00   4.9X
PMG      3.60 162 eP    18 57.00  -0.1
KVG      5.85  55 eP    19 29.40   0.6
CTA     14.04 179 iPc   21 23.50   2.3X
         2.0s    73.53nm          5.1mb
HNR     14.24 105 eP    21 25.00   1.3
                  eS    24 22.00
QIS     15.78 203 iPc   21 44.50   0.6
WR2     17.92 218 iPd   22 11.50   0.6
         0.7s    35.30nm          4.6mb
                  eS    25 46.40
WRA     17.94 218 P     22 11.89   0.8
         0.6s    19.20nm          4.4mb
KNA     19.51 239 eP    22 28.50  -1.7
         1.0s    83.00nm          5.0mb
ASPA    21.11 212 eP    22 45.70  -1.2
         1.5s    18.20nm          4.3mb
                  i     22 51.10
                  eS    26 44.00
                  iScS  34 17.10
ARMA    24.89 168 iPd   23 24.40   0.3
         0.4s     7.00nm          4.6mb
STK     26.11 189 eP    23 35.50   0.1
         0.5s     7.10nm          4.6mb
WARB    27.31 220 eP    23 45.00  -1.5
         0.5s     6.00nm          4.5mb
MAT     42.91 351 eP    25 59.00  -1.0
         1.2s    28.13nm          4.9mb
PUZ     43.34 142 P     26 03.70   0.2
MNG     43.44 147 eP    26 04.10  -0.2
SSE     43.83 329 P     26 13.50   6.0X
         8.0s     9.00nm          3.6mb X
NJ2     45.81 327 Pc    26 24.20   0.8
WHN     47.29 322 eP    26 37.00   1.9
LOE     49.52 299 eP    26 54.00   1.4
GYA     49.92 312 P     26 57.60   1.9
         1.0s    11.00nm          4.8mb
NST     50.25 296 eP    27 01.50   3.3X
KMI     52.20 308 Pc    27 15.00   1.8
         1.5s    50.00nm          5.2mb
MDJ     52.47 345 eP    27 14.20  -0.4
CHTO    52.50 299 eP    27 17.20   1.9
XAN     53.03 321 P     27 19.00   0.0
         1.4s    23.00nm          4.9mb
BJI     53.40 332 eP    27 21.00  -0.5
         1.0s     6.00nm          4.5mb
TIY     53.53 327 eP    27 22.20  -0.5
CD2     54.55 315 Pd    27 31.10   0.9
         0.9s    20.00nm          5.1mb
HHC     56.29 329 eP    27 44.00   1.3
         1.2s    10.00nm          4.7mb
BTO     56.91 328 eP    27 47.20   0.0
LZH     57.54 320 eP    27 51.50  -0.3
         1.2s    25.00nm          5.1mb
      Z 20s      2.68um          5.3Msz
      N 15s      1.72um
                  pP    27 59.00  25kmX
GTA     62.09 321 eP    28 23.50   0.5
         1.0s     8.00nm          4.8mb
CSY     65.04 195 eP    28 50.80   9.1X
         0.6s    12.10nm          5.2mb
                  i     29 03.60
```

25d 12h

```
HYB    70.53 291 eP     29 15.00  -2.0
GBA    70.78 287 P      29 19.00   0.5
WMQ    72.12 320 eP     29 23.50  -2.7
NDI    74.52 302 eP     29 39.00  -1.4
SVW    80.61  25 eP     30 14.14   0.6
        1.2s    53.24nm          5.4mb
TTA    81.40  23 eP     30 16.80  -0.9
SLKM   82.66  27 eP     30 23.01  -1.2
PMR    83.60  26 eP     30 27.70  -1.2
        1.1s    30.60nm          5.4mb
IMA    83.87  21 eP     30 29.06  -1.4
        0.9s     8.23nm          5.0mb
SPA    84.07 180 iPc    30 27.50  -4.0X
        0.7s     7.81nm          5.0mb
KLU    84.97  27 eP     30 34.43  -1.5
TOA    85.09  26 eP     30 36.90   0.4
FBA    85.54  23 eP     30 36.49  -2.1
        0.8s    19.88nm          5.4mb
BALM   86.43  28 eP     30 42.19  -1.1
INK    91.98  22 eP     31 10.00   0.9
        1.0s     3.00nm          4.7mb
LGPM   94.74  49 eP     31 23.59   1.0
GMW    95.17  43 eP     31 25.01   0.7
RMW    95.83  43 eP     31 28.99   1.6
MBC    96.86  14 eP     31 32.00   0.6
BUL   113.24 245 ePKP   36 40.30   0.4
        0.9s     5.04nm
BRG   120.14 327 e(PKP)36 42.80  -9.2X
MOCB  138.82 132 PKP    37 20.80  -8.3X
CNCB  139.48 124 PKP    37 26.00  -4.5X
LPB   139.53 124 ePKP   37 27.00  -3.4X
LPAZ  139.63 124 PKP    37 23.90  -7.0X
SDV   143.56  83 ePKP   37 35.60  -1.7
TOV   144.35  82 ePKP   37 38.00  -0.5
PPD   147.41 149 ePKP   37 45.60   2.3
                  e     37 53.00
VAO2  148.50 158 ePKP   37 49.00   3.8X
VAO   148.54 157 ePKP   37 49.20   4.0X
BAO   154.45 147 ePKP   38 02.50   8.5X
     S.D. = 1.2  on  54 of  69 obs.
-----------------------------------
*  OCT  25, 1993  12h 53m 05.35± 0.87s
    5.841 S ± 7.2km  146.003 E ±11.5km
   DEPTH =  10.0km  (geophysicist)
   3.9mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 3.8 (PMG).

YYYY    0.40 185 eP     53 13.50  -0.1
MDG     0.63 339 eP     53 17.90   0.0
LAT     1.29 130 eP     53 29.30   0.1
MNDI    2.35 262 eP     53 51.00   6.1X
WWKK    3.24 313 eP     54 02.50   5.3X
PMG     3.72 162 eP     54 04.00  -0.1
WR2    18.02 218 eP     57 17.80   0.1
        0.4s     2.70nm          3.7mb
ASPA   21.21 212 eP     57 57.50   3.8X
        0.7s     5.80nm          4.1mb
     S.D. = 0.2  on   5 of   8 obs.
-----------------------------------
   OCT  25, 1993  13h 15m 02.78± 0.80s
    5.975 S ± 7.1km  145.950 E ± 9.4km
   DEPTH =  10.0km  (geophysicist)
   4.0mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.1 (PMG).

YYYY    0.27 176 iPc    15 09.50   1.1
MDG     0.74 347 eP     15 17.50   0.2
LAT     1.25 123 eP     15 25.10  -0.9
MNDI    2.29 265 eP     15 45.00   3.6X
WWKK    3.29 315 eP     15 59.80   4.3X
PMG     3.61 161 eP     15 59.00  -1.0
CTA    14.03 179 eP     18 25.00   1.0
HNR    14.29 105 eP     18 28.00   0.7
WR2    17.88 218 iPc    19 12.50  -0.9
        0.6s     5.80nm          3.9mb
ASPA   21.07 212 eP     19 49.40  -0.3
        1.1s    12.00nm          4.2mb
     S.D. = 1.0  on   8 of  10 obs.
-----------------------------------
   OCT  25, 1993  13h 31m 57.14± 0.87s
    5.894 S ± 7.2km  146.059 E ±10.4km
   DEPTH =  10.0km  (geophysicist)
   3.7mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.1 (PMG).

YYYY    0.36 195 ePd    32 04.60   0.1
MDG     0.70 337 eP     32 10.80  -0.1
LAT     1.21 129 eP     32 20.20   0.5
MNDI    2.40 264 eP     32 43.00   5.7X
WWKK    3.31 313 eP     32 54.80   4.7X
PMG     3.66 163 eP     32 54.00  -1.0
WR2    18.01 218 eP     36 09.70   0.3
        0.9s     3.80nm          3.5mb
ASPA   21.19 212 eP     36 45.40   0.1
        1.4s     8.50nm          3.9mb
                  eS     40 45.40
     S.D. = 0.7  on   6 of   8 obs.
-----------------------------------
   OCT  25, 1993  13h 53m 32.72± 0.31s
    5.929 S ± 5.7km  145.966 E ± 5.9km
   DEPTH =  20.0km  (  3 depth phases)
   4.8mb ( 15 obs.)  4.6Msz (  1 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.8 (PMG).

MNDI    2.31 264 eP     54 16.00   5.5X
PMG     3.65 161 eP     54 30.00   0.6
KVG     5.86  56 eP     55 05.00   4.3X
RAB     6.41  75 e(P)   55 09.00   0.5
CTA    14.08 179 iPc    56 56.00   2.7X
        2.0s   117.65nm          5.3mb
                  i     57 06.00
HNR    14.29 105 ePc    56 57.00   1.0
                  S     59 45.00
QIS    15.80 202 iPc    57 16.30   0.5
WR2    17.93 218 eP     57 43.00   0.3
                  eS    01 22.50
WRA    17.94 218 P      57 43.50   0.7
KNA    19.49 239 eP     58 00.60  -1.1
        1.0s    95.00nm          5.0mb
ASPA   21.12 212 iPd    58 17.20  -1.5
        0.8s    18.30nm          4.5mb
     Z  20s      2.50um          4.6Msz
                  i     58 22.60  20km
                  eS    02 01.80
                  iScS  09 46.10
BKM    24.69 120 iPd    58 55.00   1.0
PVC    24.78 120 iP     58 58.50   3.7X
ARMA   24.94 168 eP     58 56.00  -0.3
        0.6s    12.00nm          4.7mb
DZM    25.48 131 iPc    59 00.10  -1.4
STK    26.14 188 eP     59 06.10  -1.3
        0.6s     4.90nm          4.3mb
WARB   27.32 220 eP     59 08.00 -10.3X
        0.6s    13.00nm
AFI    42.32 104 eP     01 27.00  -0.3
MAT    42.87 351 eP     01 33.00   1.6
        1.1s    16.46nm          4.7mb
KGM    43.31 279 eP     01 35.50   0.1
PUZ    43.39 142 eP     01 35.90   0.2
MNG    43.49 147 eP     01 36.80   0.3
PGZ    43.92 146 P      01 40.50   0.6
IPM    46.07 282 ePc    01 58.20   0.7
SNG    47.08 285 eP     02 07.00   1.5
LOE    49.46 299 eP     02 24.00   0.1
GYA    49.87 312 P      02 30.00   2.9X
        1.0s    13.00nm          4.9mb
NST    50.20 296 eP     02 30.00   0.4
KMI    52.14 308 eP     02 47.50   3.0X
        1.5s    50.00nm          5.2mb
                  pP    02 53.50  20km
CHTO   52.45 299 eP     02 46.70   0.0
XAN    52.98 321 eP     02 49.00  -1.4
        1.5s    20.00nm          4.8mb
BJI    53.34 332 eP     03 00.00   7.1X
CD2    54.49 315 P      03 01.20  -0.4
HHC    56.24 329 Pd     03 15.60   1.5
        1.2s     9.70nm          4.7mb
BTO    56.86 328 eP     03 16.80  -1.8
LZH    57.49 320 eP     03 25.00   1.8
        1.6s    16.00nm          4.8mb
                  sP    03 29.00
GTA    62.03 321 eP     03 56.20   1.8
        1.0s     4.00nm          4.5mb
                  pP    04 02.50  21km
                  sP    04 07.00
CSY    65.07 195 eP     04 22.40   8.7X
        0.8s    11.10nm          5.1mb
GBA    70.73 287 P      04 49.00  -1.0
WMQ    72.07 320 P      04 56.90  -0.8
POO    75.08 291 eP     05 09.50  -6.1X
SLKM   82.64  27 eP     05 56.53   0.6

PMR    83.59  26 eP     05 58.50  -2.1
IMA    83.86  21 eP     06 01.74  -0.4
        1.3s    11.52nm          4.9mb
TOA    85.08  26 eP     06 08.40   0.2
FBA    85.52  23 iPd    06 07.94  -2.4
        0.7s     8.89nm          5.1mb
BALM   86.42  28 eP     06 13.96  -1.0
MOCB  138.88 132 PKP    12 54.70  -6.3X
CNCB  139.54 124 PKP    12 56.60  -5.8X
LPB   139.59 124 PKP    12 57.00  -5.3X
LPAZ  139.68 124 PKP    12 53.50  -9.3X
        0.8s     5.90nm
SDV   143.60  83 ePKP   13 08.00  -1.2
TOV   144.38  82 ePKP   13 08.00  -2.4X
PPD   147.46 149 ePKP   13 17.40   2.2
KIC   150.87 272 PKPd   13 26.73   6.1X
        0.9s    40.50nm
TIC   151.15 273 PKP    13 27.29   6.2X
        0.7s    30.00nm
LIC   151.16 272 PKPd   13 27.31   6.2X
        0.6s    33.00nm
LKO   151.59 279 PKP    13 26.58   4.8X
        0.9s    46.50nm
     S.D. = 1.2  on  39 of  58 obs.
-----------------------------------
   OCT  25, 1993  14h 11m 25.62± 0.85s
    5.884 S ± 7.1km  145.915 E ±11.9km
   DEPTH =  10.0km  (geophysicist)
   3.9mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 3.8 (PMG).

YYYY    0.36 171 iPd    11 33.40   0.3
                  eS    11 38.90
MDG     0.64 348 ePd    11 38.60   0.1
LAT     1.33 126 eP     11 50.10   0.0
MNDI    2.26 263 eP     12 09.50   5.7X
WWKK    3.20 314 eP     12 22.20   5.2X
PMG     3.71 161 eP     12 24.00  -0.2
WR2    17.93 218 eP     15 36.70  -0.1
        0.6s     4.10nm          3.7mb
ASPA   21.13 212 eP     16 14.80   1.7X
        0.7s     6.50nm          4.1mb
     S.D. = 0.3  on   5 of   8 obs.
-----------------------------------
%  OCT  25, 1993  14h 12m 24.40± 0.75s
   40.213 N ± 7.0km   28.781 E ± 6.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.7 (ISK).

DST     0.62 191 iPg    12 36.90   0.0
                  eSg   12 46.80
BNT     0.67 282 ePg    12 37.90   0.1
                  eSg   12 47.00
EDC     0.71 281 iPg    12 38.30  -0.2
                  eSg   12 49.30
CTT     0.97 344 ePg    12 42.80   0.0
EYL     1.11  71 ePn    12 45.30   0.0
MFT     1.28 297 ePn    12 48.30   0.1
     S.D. = 0.1  on   6 of   6 obs.
-----------------------------------
*  OCT  25, 1993  14h 21m 35.96± 1.05s
    5.821 S ± 8.9km  146.078 E ±13.7km
   DEPTH =  10.0km  (geophysicist)
   3.8mb (  1 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY    0.43 195 iPd    21 44.20  -0.6
                  eS    21 51.20
MDG     0.64 332 eP     21 48.40  -0.4
LAT     1.24 132 eP     21 59.40   0.3
WWKK    3.28 312 eP     22 32.40   3.9X
PMG     3.72 163 eP     22 34.00  -0.7
ASPA   21.27 212 eP     26 26.20   1.4
        1.8s     7.10nm          3.8mb
     S.D. = 1.2  on   5 of   6 obs.
-----------------------------------
   OCT  25, 1993  14h 30m 12.97± 0.25s
    5.813 S ± 4.5km  145.822 E ± 5.5km
   DEPTH =  20.9km  (  3 depth phases)
   5.1mb ( 20 obs.)  4.9Msz (  3 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

MNDI    2.18 261 eP     30 55.00   6.1X
WWKK    3.09 315 eP     31 09.40   7.8X
KVG     5.92  57 eP     31 47.50   5.9X
```

```
RAB     6.52  76 eP    31 50.00  -0.2
CTA    14.20 178 iPd   33 36.50   1.5
        3.0s   200.00nm          5.3mb
                i      33 45.00
HNR    14.45 105 eP    33 39.00   0.6
                eS     36 34.00
QIS    15.85 202 eP    33 56.70   0.1
GUA    19.25 357 eP    34 39.80   0.8
GUMO   19.30 357 eP    34 39.80   0.2
        1.5s   261.50nm          5.3mb
KNA    19.43 238 eP    34 40.20  -0.9
        0.7s    77.00nm          5.1mb
ASPA   21.14 212 eP    34 57.80  -1.3
        0.9s    46.10nm          4.9mb
     Z  23s     3.90um          4.7MszX
                eS     38 53.60
BKM    24.88 120 iPc   35 34.00  -1.8
ARMA   25.08 168 eP    35 36.80  -1.0
        0.5s    14.00nm          4.9mb
DZM    25.67 131 iPc   35 42.80  -0.5
STK    26.24 188 eP    35 47.20  -1.2
        0.4s     8.40nm          4.7mb
WARB   27.31 220 eP    35 58.00  -0.4
        0.5s    12.00nm          4.8mb
TOO    31.61 181 eP    36 36.60  -0.1
TKSJ   41.12 345 P     37 58.60   1.4
KUZ    41.17 143 eP    37 58.50   0.9
WLZ    41.85 144 P     38 04.40   1.2
YONJ   42.41 345 P     38 06.80  -1.0
AFI    42.48 104 eP    38 12.00   3.2X
MAT    42.73 351 (P)   38 08.00  -2.4X
        1.5s    41.67nm          4.9mb
NGZ    42.73 145 eP    38 12.10   1.5
URZ    43.00 143 P     38 12.70   0.1
KGM    43.15 279 eP    38 14.50   0.3
HBZ    43.30 142 eP    38 15.00   0.0
PUZ    43.57 142 eP    38 17.40   0.1
SSE    43.61 329 P     38 17.50  -0.1
        1.0s    11.00nm          4.6mb
     Z  20s     1.40um          4.9Msz
                pP     38 25.50  27km
LTZ    43.62 152 eP    38 18.60   0.9
MNG    43.67 147 eP    38 18.10   0.1
NOZ    43.78 143 P     38 19.00   0.1
PGZ    44.10 146 P     38 21.50   0.0
NJ2    45.58 327 Pd    38 36.40   2.9X
IPM    45.91 282 ePd   38 37.20   0.8
        0.8s    24.00nm          5.2mb
SNG    46.92 285 eP    38 45.50   1.2
LOE    49.28 299 eP    39 03.00   0.3
GYA    49.68 312 P     39 05.80   0.0
NST    50.02 296 eP    39 09.00   0.6
BDT    51.61 297 eP    39 22.00   1.6
KMI    51.96 308 Pd    39 23.50   0.2
        1.3s    50.00nm          5.3mb
                pP     39 28.50  17km
CHTO   52.27 299 eP    39 25.10  -0.3
BJI    53.18 332 eP    39 37.00   5.2X
        1.5s    14.00nm          4.7mb
     Z  24s     0.96um          4.8MszX
TIY    53.31 327 eP    39 35.40   2.5
     Z  22s     1.30um          4.9Msz
CD2    54.31 315 Pd    39 40.00  -0.3
HHC    56.06 329 eP    39 53.80   0.8
BTO    56.69 328 eP    39 57.00  -0.5
LZH    57.31 320 eP    39 59.50  -2.6
        1.5s    37.00nm          5.2mb
     Z  20s     0.69um          4.8Msz
                pP     40 05.50  20km
CSY    65.14 195 eP    41 03.30   9.0X
        0.7s    13.80nm          5.2mb
ADK    65.77  24 (P)   41 00.06   1.5
        1.0s    12.50nm          5.0mb
ZAK    66.92 332 eP    40 51.30 -14.6X
        1.1s    12.00nm
                e      41 05.00  48kmX
HYB    70.30 291 eP    41 25.50  -2.0
TIK    78.10 355 eP    42 09.00  -2.5
        1.6s    57.00nm          5.4mb
SVW    80.55  25 eP    42 25.40   0.3
TTA    81.34  23 eP    42 28.97  -0.3
        1.1s     5.65nm          4.5mb
SLKM   82.60  27 eP    42 34.15  -1.7
PMR    83.55  26 eP    42 38.99  -1.6
        1.0s    23.03nm          5.3mb
IMA    83.80  21 eP    42 41.63  -0.4
        1.1s    11.89nm          5.0mb
TOA    85.04  26 eP    42 47.00  -1.2
FBA    85.47  23 eP    42 47.57  -2.6X
        0.6s     9.98nm          5.2mb
BALM   86.38  28 eP    42 53.60  -1.3
INK    91.91  22 eP    43 22.00   1.3
MBC    96.76  14 eP    43 44.00   1.2
ULM   112.33  38 ePdiff45 25.00  32.1X
GEC2  121.09 325 PKP   49 09.20   3.3X
        0.6s     0.37nm
CNCB  139.72 124 ePKP  49 34.00  -8.9X
LPB   139.77 124 (PKP) 49 37.00  -5.8X
LPAZ  139.87 124 PKP   49 30.70 -12.5X
SDV   143.73  83 ePKP  49 45.50  -4.0X
TOV   144.51  81 ePKP  49 46.50  -4.2X
PPD   147.63 149 ePKP  49 55.80   0.2
VAO   148.75 157 ePKP  50 01.60   4.2X
KIC   150.73 273 PKPc  50 05.88   5.3X
        0.8s    29.50nm
TIC   151.00 273 PKP   50 06.52   5.5X
        0.6s    24.00nm
LIC   151.01 272 PKP   50 06.80   5.8X
        0.7s    35.50nm
LKO   151.43 279 PKP   50 05.54   3.9X
        0.8s    43.50nm
BAO   154.68 147 ePKP  50 06.70   0.5
                i      50 14.70
                e      50 21.50
                e      50 24.80
     S.D. = 1.1  on  55 of  77 obs.
-----------------------------------
   OCT  25, 1993  14h 33m 19.97± 0.39s
   41.336 N ± 6.5km   49.478 E ± 5.1km
   DEPTH =  33.0km  (normal)
   4.7mb ( 29 obs.)
 CASPIAN SEA                      (338)

BAK     1.00 161 iPgc  33 44.00   6.3X
                iS     33 58.00
GRO     3.46 307 iPnc+ 34 19.50   6.7X
                i      34 27.00
                iS     35 09.00
MTA     3.53 277 iPn   34 16.40   2.6
                eS     35 16.40
ERE     3.95 255 ePn   34 20.80   0.9
                i      34 37.80
                iS     35 12.00
PYA     5.44 302 iPc   34 42.00   1.1
                iS     35 41.00
TEH     5.79 164 eP    34 46.50   0.6
SOC     7.56 291 eP    35 13.00   2.4
ASH     7.63 113 P     35 11.50  -0.2
        0.5s   200.00nm          6.4mb X
                S      36 33.50
MAIO    9.29 120 iPd   35 34.30  -0.5
        0.8s    11.71nm          5.1mb
                eS     37 10.00
OBN    16.19 333 eP    37 06.00  -0.3
        1.0s    21.00nm          4.2mb
     Z  22s     1.20um          4.7Msz
     E  24s     1.00um
                iS     40 02.00
ARU    16.20  18 iPc   37 05.50  -1.0
        0.7s    70.00nm          4.9mb
                e      39 58.00
MOS    16.37 336 eP    37 09.00   0.3
                eS     40 04.00
VRI    17.07 293 ePd   37 21.00   3.4X
                ed     40 20.00
SVE    17.09  21 iPd   37 17.00  -0.7
        1.9s   130.00nm          4.7mb
MLR    17.58 292 ePd   37 27.00   3.0X
CMP    18.19 291 ePc   37 40.00   8.4X
NPS    19.66 260 eP    37 46.70  -2.3
VAY    20.18 279 iP    37 53.70  -0.7
UZH    20.49 300 eP    37 58.20   0.7
        0.9s    25.00nm          4.6mb
VAM    20.65 262 eP    37 56.90  -2.4
SKO    20.93 281 iP    38 02.00  -0.1
VLI    21.09 266 eP    38 00.60  -3.2X
OHR    21.54 279 iP    38 04.80  -3.5X
        0.5s    30.00nm          5.0mb
SPC    21.92 301 iP    38 12.40   0.2
PSZ    21.97 297 e(P)  38 13.00   0.4
VLS    22.39 271 eP    38 15.50  -1.3
OJC    22.40 303 iPd   38 16.10  -0.7
        0.8s    49.00nm          5.0mb
                i      38 20.40
                i      38 21.50
KEK    22.57 276 eP    38 19.50   0.9
ZST    23.86 298 eP    38 31.60   0.6
HVAR   24.43 285 iPd   38 36.60   0.0
NUR    24.50 330 iP    38 38.10   1.0
        0.3s    10.30nm          4.9mb
KSP    24.72 304 iPc   38 40.00   0.7
KAF    25.01 334 eP    38 43.00   1.0
        0.4s    10.20nm          4.8mb
PRU    25.71 302 eP    38 50.00   1.4
                e      39 03.80
NDI    25.87 110 iPd   38 52.00   1.7
        0.6s    30.00nm          5.1mb
GEC2   26.16 299 P     38 52.10  -0.9
        0.5s     2.87nm          4.1mb
                e      38 54.80
                e      38 59.60
                e      39 01.70
                e      39 03.30
BRG    26.19 303 eP    38 53.60   0.5
        1.1s    21.00nm          4.7mb
                i      39 08.60
KHC    26.26 299 eP    38 47.50  -6.3X
                e      38 53.40
                e      39 04.00
                e      39 34.50
                e      40 25.00
KBA    26.36 295 iPc   38 54.90   0.0
        0.5s     4.80nm          4.4mb
BSD    26.52 313 iPc   38 55.00  -1.0
        0.5s    19.00nm          5.0mb
CLL    26.84 304 eP    38 59.00   0.0
                i      39 02.30
                i      39 13.30
WTTA   27.53 295 iPc   39 05.40  -0.2
        0.4s     6.00nm          4.6mb
SQTA   27.82 295 iP    39 10.70   2.6
        0.4s     3.50nm          4.4mb
MOTA   27.89 295 iP    39 04.90  -3.9X
HFS    28.91 323 eP    39 17.10  -0.5
        0.3s    10.60nm          4.9mb
NB2    30.40 323 P     39 30.20  -0.8
        0.4s     3.60nm          4.5mb
SBF    30.81 289 eP    39 34.20  -0.6
        0.8s    16.00nm          4.9mb
HAU    31.06 297 eP    39 35.50  -1.5
        0.6s     8.20nm          4.7mb
FRF    31.43 289 eP    39 39.30  -0.9
        0.6s    15.85nm          5.0mb
LBF    32.76 296 eP    39 51.00  -0.8
        0.9s     7.85nm          4.6mb
LOR    32.81 296 eP    39 50.40  -1.8
        0.8s     4.45nm          4.4mb
SMF    32.90 295 eP    39 51.60  -1.4
        0.8s     5.65nm          4.5mb
SSF    33.07 296 eP    39 52.90  -1.6
        1.2s    13.10nm          4.7mb
AVF    33.21 295 eP    39 54.50  -1.2
        0.8s     5.65nm          4.5mb
EKA    36.76 311 Pc    40 26.00   0.1
        0.4s    13.70nm          5.2mb
GBA    36.82 130 Pd    40 27.10   0.4
        0.7s     7.00nm          4.6mb
GTA    37.96  76 eP    40 32.50  -3.8X
        1.5s    12.00nm          4.5mb
                pP     40 40.50  27kmX
                sP     40 45.50
DLF    38.84 307 eP    40 43.60   0.3
DCN    39.28 308 eP    40 47.50   0.5
DAG    45.21 342 eP    41 34.00  -1.1
KMI    46.68  93 Pc    41 39.50  -8.1X
ILT    65.23  18 eP    44 01.00   1.2
JAQ    74.20 330 eP    44 55.00   0.1
LMN    75.28 319 eP    45 18.00  16.8X
YKA    75.73 352 eP    45 14.70  11.2X
        0.7s     5.00nm
GAC    80.39 324 eP    45 31.00   1.7
MNDI   97.16  92 eP    46 55.00   4.2X
PMG   101.90  92 ePdiff47 07.00  -4.8X
     S.D. = 1.2  on  53 of  68 obs.
-----------------------------------
*  OCT  25, 1993  14h 46m 10.71± 0.89s
    5.929 S ± 7.7km  145.878 E ±11.5km
   DEPTH =  10.0km  (geophysicist)
   3.8mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
     ML 4.2 (PMG).
```

25d 14h

```
YYYY     0.32 164 eP     46 18.40    0.9
MDG      0.68 352 eP     46 24.50    0.3
LAT      1.34 123 eP     46 34.70   -0.6
WR2     17.87 218 eP     50 20.60   -0.6
         0.6s     4.00nm          3.7mb
ASPA    21.07 212 eP     50 57.60    0.0
         1.2s     6.10nm          3.9mb
      S.D. = 0.9  on   5 of   5 obs.
-----------------------------------------
?  OCT  25, 1993  14h 51m 17.96± 0.90s
   39.660 N ± 9.3km   29.459 E ± 7.3km
   DEPTH =   5.0km  (geophysicist)
 TURKEY                                (366)
      ML 2.7 (ISK).

DST      0.64 265 ePg    51 30.80   -0.1
                  eSg    51 41.80
ALT      0.79 140 ePg    51 33.80    0.0
                  eSg    51 45.80
EYL      1.05  30 ePn    51 38.30    0.0
EDC      1.40 300 ePn    51 44.30    0.1
      S.D. = 0.1  on   4 of   4 obs.
-----------------------------------------
?  OCT  25, 1993  15h 01m 00.23± 1.18s
   39.566 N ± 7.0km   30.229 E ±14.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                                (366)
      ML 2.6 (ISK).

ALT      0.52 190 iPg    01 10.80    0.0
                  eSg    01 19.80
GPA      0.72   5 ePn    01 14.00   -0.5
EYL      1.00 357 ePn    01 19.80    0.5
DST      1.24 272 ePn    01 23.20   -0.1
      S.D. = 0.7  on   4 of   4 obs.
-----------------------------------------
*  OCT  25, 1993  15h 07m 59.45± 1.06s
    5.920 S ± 8.8km  146.092 E ±12.2km
   DEPTH =  10.0km  (geophysicist)
   3.9mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G.  (207)

YYYY     0.34 201 eP     08 06.70    0.1
                  eS     08 12.00
MDG      0.73 335 iPc    08 13.70   -0.1
LAT      1.17 129 eP     08 21.50    0.2
MNDI     2.43 264 eP     08 44.00    3.9X
WWKK     3.36 313 eP     08 56.80    3.8X
PMG      3.62 163 eP     08 56.00   -0.8
WR2     18.01 218 iPd    12 10.40   -1.3
         0.7s     4.10nm          3.7mb
                  i      12 16.60
ASPA    21.19 212 eP     12 49.40    1.8
         0.9s     9.30nm          4.2mb
      S.D. = 1.4  on   6 of   8 obs.
-----------------------------------------
*  OCT  25, 1993  15h 14m 32.15± 1.06s
    5.928 S ± 8.9km  146.137 E ±12.0km
   DEPTH =  10.0km  (geophysicist)
   4.1mb (  1 obs.)
 EASTERN NEW GUINEA REG., P.N.G.  (207)

YYYY     0.35 208 iPd    14 39.20   -0.3
MDG      0.76 332 iPc    14 46.70   -0.3
LAT      1.13 130 eP     14 53.80    [illegible]
MNDI     2.48 265 eP     15 18.[illegible]   [illegible]
WWKK     3.39 312 eP     15 31.[illegible]   [illegible]
PMG      3.60 164 eP     15 28.[illegible]   [illegible]
ASPA    21.21 212 eP     19 21.[illegible]   [illegible]
         0.8s     6.60nm          [illegible]
PPD    147.38 149 (PKP) 34 1[illegible]   [illegible]
      S.D. = 1.3  on   5 of   [illegible]
-----------------------------------------
%  OCT  25, 1993  15h 46m 54.[illegible]
   16.510 N ±21.5km   99.16[illegible]
   DEPTH =  10.0km  (geophys[illegible]
 NEAR COAST OF GUERRERO, MEX[illegible]

ACX      0.76 298 iPd    47 0[illegible]
                  iS     47 2[illegible]
III      1.88 351 iP     47 26.[illegible]
                  iS     47 48.[illegible]
OXX      2.40  76 iP     47 34.[illegible]
                  iS     48 05.[illegible]
IIA      2.67  10 iP     47 38.[illegible]
                  iS     48 11.[illegible]
IISM     2.99  34 iP     47 42.49   [illegible]
                  (S)    48 23.55
      S.D. = 0.6  on   5 of   5 obs.
-----------------------------------------
*  OCT  25, 1993  15h 49m 34.35± 0.86s
    5.833 S ± 7.1km  145.824 E ±13.1km
   DEPTH =  10.0km  (geophysicist)
   3.7mb (  1 obs.)
 EASTERN NEW GUINEA REG., P.N.G.  (207)
      ML 4.1 (PMG).

YYYY     0.43 161 iPc    49 43.60    0.4
                  eS     49 49.90
MDG      0.58 356 eP     49 46.20    0.1
LAT      1.43 125 eP     50 00.20   -0.2
MNDI     2.18 261 eP     50 18.50    7.1X
PMG      3.79 160 eP     50 33.80   -0.3
WR2     17.92 217 eP     53 45.30   -0.1
         0.6s     4.20nm          3.7mb
ASPA    21.12 212 eP     54 25.20    3.4X
      S.D. = 0.4  on   5 of   7 obs.
-----------------------------------------
?  OCT  25, 1993  15h 54m 09.44± 0.97s
    5.911 S ± 8.0km  146.078 E ±12.7km
   DEPTH =  10.0km  (geophysicist)
   3.7mb (  1 obs.)
 EASTERN NEW GUINEA REG., P.N.G.  (207)

YYYY     0.35 198 iPd    54 16.60    0.0
                  eS     54 22.00
MDG      0.72 336 eP     54 23.60    0.0
LAT      1.18 129 eP     54 31.50    0.0
MNDI     2.42 264 eP     54 55.00    5.1X
PMG      3.63 163 eP     55 07.00    0.1
ASPA    21.19 212 eP     59 00.30    2.7X
         1.1s     3.90nm          3.7mb
      S.D. = 0.1  on   4 of   6 obs.
-----------------------------------------
?  OCT  25, 1993  16h 16m 48.22± 1.14s
   31.271 S ±22.6km   68.969 W ±33.5km
   DEPTH = 100.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA     (137)

RTCB     0.26 146 ePd    17 03.00   -0.2
                  S      17 15.70
RTLL     0.43  98 ePd    17 03.50   -0.3
                  S      17 16.00
RTCV     0.69 148 eP     17 06.00    0.1
                  S      17 21.00
CFA      0.71 118 ePc    17 06.30    0.3
                  S      17 21.00
RTRS     1.18 339 eP     17 11.00    0.1
                  S      17 29.00
      S.D. = 0.4  on   5 of   5 obs.
-----------------------------------------
   OCT  25, 1993  16h 59m 22.38± 0.77s
    5.888 S ± 7.5km  145.974 E ± 9.6km
   DEPTH =  10.0km  (geophysicist)
   4.0mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G.  (207)
      ML 4.3 (PMG).

MDG      0.66 343 eP     59 35.60    0.0
LAT      1.28 127 eP     59 45.80   -0.3
MNDI     2.32 263 eP     00 06.50    5.1X
WWKK     3.25 314 eP     00 29.10   14.7X
PMG      3.69 161 eP     00 20.50   -0.2
[illegible]  14.12 179 iPc    02 45.50    0.8
[illegible]  14.29 105 eP     02 47.00    0.1
[illegible]  17.96 218 iPc    03 33.50   -0.5
         0.6s     5.70nm          3.9mb
ASPA    21.15 212 eP     04 11.60    1.5X
         1.0s     8.40nm          4.1mb
      S.D. = 0.6  on   6 of   9 obs.
-----------------------------------------
*  [illegible]  25, 1993  17h 20m 13.43± 1.94s
   [illegible] 915 N ± 8.3km  126.533 E ±21.0km
   DEPTH =  94.6 ± 17.5 km
   [illegible]mb (  7 obs.)
 PHILIPPINE ISLANDS REGION        (248)

[illegible]  3.92 194 eP     21 13.00    0.5
[illegible]  7.96 314 eP     22 01.00   -7.4X
SSE     20.68 347 eP     24 47.70   -0.2
[illegible]  26.59 343 eP     25 44.70    0.1
[illegible]  28.10 328 P      25 56.50   -1.8
         0.8s     6.90nm          4.3mb
WR2     31.62 166 eP     26 28.10   -1.5
         0.7s     4.00nm          4.3mb
QIS     33.81 158 eP     26 48.50   -0.2
ASPA    35.12 168 eP     26 59.80    0.0
         0.4s     6.50nm          4.9mb
WARB    36.87 180 eP     27 15.00    0.5
         0.7s    23.00nm          5.2mb
GTA     37.00 325 eP     27 16.00    0.3
         1.0s     9.00nm          4.7mb
MRWA    41.17 194 eP     27 49.70   -0.5
         0.9s    35.00nm          5.2mb
MUN     43.78 193 eP     28 10.50   -0.9
NWAO    44.49 191 eP     28 17.80    0.7
STK     44.93 162 eP     28 21.40    0.8
         2.9s     4.40nm          3.8mb
GBA     47.99 278 P      28 45.00    0.0
KAF     85.18 332 eP     32 40.80    0.7
NUR     86.36 331 eP     32 47.40    1.4
      S.D. = 0.9  on  16 of  17 obs.
-----------------------------------------
   OCT  25, 1993  17h 30m 08.50± 1.08s
   22.098 S ±18.0km  169.964 E ±15.1km
   DEPTH =  33.0km  (normal)
   4.2mb (  2 obs.)
 LOYALTY ISLANDS REGION           (189)

DZM      3.26 270 iPc    30 59.10    0.4
                  iS     31 39.90
BKM      4.69 340 iP     31 18.80   -0.1
                  iS     32 24.00
HNR     15.85 321 eP     33 55.00    4.1X
CTA     22.21 271 iPc    35 04.50    0.7
ASPA    33.21 260 eP     36 48.30    3.6X
         1.0s     4.30nm          4.3mb
WR2     33.26 267 eP     36 43.50   -1.6
         1.3s     2.90nm          4.0mb
BRG    145.72 333 ePKP   49 51.80    6.8X
CLL    145.78 334 iPKP   49 44.10   -1.0
EKA    146.41 353 PKPc   49 45.40   -0.6
         0.5s     1.60nm
KHC    147.16 331 ePKP   49 48.50    1.0
                  e      50 10.50
GEC2   147.31 331 PKP    49 48.90    1.1
         0.6s     1.63nm
      S.D. = 1.2  on   8 of  11 obs.
-----------------------------------------
?  OCT  25, 1993  18h 00m 06.35± 2.51s
   16.508 S ±157.km  175.727 W ±75.6km
   DEPTH = 388.6 ±  8.6 km
   4.2mb (  3 obs.)
 TONGA ISLANDS                    (173)

AFI      4.61  56 eP     01 24.00   -0.3
VUN      5.75 254 eP     01 36.70    0.3
SVA      5.78 253 eP     01 37.00    0.3
WR2     47.39 258 iPc    08 04.30   -1.0
         0.6s     7.70nm          4.2mb
ASPA    47.65 253 iPd    08 06.90   -0.3
         0.3s    17.00nm          4.8mb
WARB    54.17 249 iPc    08 55.70    0.1
         0.4s     2.00nm          3.8mb
KSP    144.41 347 ePKP   18 58.80    0.6
CLL    144.59 351 iPKPd  18 58.90    0.4
PRU    145.59 348 PKP    19 02.90    2.7X
KHC    146.59 349 ePKP   19 05.50    3.6X
GEC2   146.84 349 PKP    19 19.00   16.6X
         1.1s     0.98nm
      S.D. = 0.7  on   8 of  11 obs.
-----------------------------------------
*  OCT  25, 1993  18h 42m 00.37± 2.11s
   50.963 N ±19.8km    2.776 E ± 5.8km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                           (538)
      ML 2.6 (LDG).

SNF      1.06 115 iPd    42 19.50   -0.8
DOU      1.45 126 iP     42 27.60    1.0
LDF      3.03 219 Pn     42 49.40    0.3
                  Pg     43 01.30
                  Sg     43 45.80
FLN      3.05 225 Pn     42 49.70    0.2
                  Sg     43 46.70
GRR      3.49 224 Pn     42 55.70   -0.1
LOR      3.77 169 Pn     43 00.20    0.4
                  Sg     44 08.20
HAU      3.77 140 Pg     43 11.70   11.9X
                  Sg     44 04.20
LPF      3.85 222 Pn     43 00.40   -0.4
```

```
SSF      3.93 173 Pn    43 02.30   0.2
LBF      4.06 168 Pn    43 03.80  -0.1
SMF      4.38 170 Pn    43 08.00  -0.4
TCF      4.69 185 Pn    43 12.70  -0.3
     S.D. = 0.6  on  11 of  12 obs.
-------------------------------------
*  OCT  25, 1993  18h 44m 07.14± 0.91s
    5.945 S ± 7.4km  146.083 E ±10.4km
   DEPTH =  10.0km  (geophysicist)
   3.6mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY     0.32 201 ePd   44 14.20   0.4
                  eS    44 19.50
MDG      0.75 336 iPc   44 22.00   0.1
LAT      1.16 128 eP    44 28.80   0.0
MNDI     2.42 265 eP    44 53.50   5.9X
WR2     17.99 218 eP    48 18.60  -0.5
        0.4s     1.80nm          3.6mb
ASPA    21.16 212 eP    48 54.90  -0.1
        1.1s     4.20nm          3.7mb
     S.D. = 0.5  on   5 of   6 obs.
-------------------------------------
%  OCT  25, 1993  18h 47m 26.71± 2.47s
   44.054 N ±12.7km    6.831 E ±13.5km
   DEPTH =   5.0km  (geophysicist)
 FRANCE                            (538)
     ML 2.3 (GEN).

STV      0.40  62 P     47 34.92   0.1
                  S     47 39.36
ENR      0.46  68 P     47 35.93   0.0
                  S     47 41.01
PZZ      0.49  23 P     47 37.03   0.5
                  S     47 42.70
IMI      0.78 100 P     47 42.56   0.2
                  S     47 52.25
ROB      0.79  72 P     47 42.01  -0.5
                  S     47 51.11
BHB      0.85  21 P     47 42.98  -0.6
                  S     47 53.28
RRL      0.87 358 P     47 44.12   0.1
FIN      1.00  81 P     47 46.18   0.0
PCP      1.32  68 P     47 51.79   0.1
     S.D. = 0.4  on   9 of   9 obs.
-------------------------------------
%  OCT  25, 1993  19h 04m 25.93± 1.38s
   40.801 N ± 9.6km   29.968 E ±10.0km
   DEPTH =   5.0km  (geophysicist)
 TURKEY                            (366)
     ML 3.0 (ISK).

HRT      0.23 275 iPg   04 30.80   0.2
EYL      0.28 148 iPg   04 31.20  -0.3
IZI      0.60 219 iPg   04 37.80  -0.1
                  iSg   04 44.80
ISK      0.74 291 iPg   04 39.50  -1.2
                  iSg   04 50.00
DST      1.57 221 ePn   04 55.00   0.4
EDC      1.67 255 ePn   04 56.40   0.5
DMK      1.95 302 ePn   05 01.00   0.9
MFT      2.04 270 ePn   05 01.00  -0.4
     S.D. = 0.8  on   8 of   8 obs.
-------------------------------------
?  OCT  25, 1993  19h 35m 21.58± 2.81s
   37.801 S ±12.3km  179.739 W ±25.4km
   DEPTH =  33.0km  (normal)
   4.2mb (  3 obs.)
 EAST OF NORTH ISLAND, N.Z.        (688)
     ML 4.6 (WEL).

HBZ      1.57 277 Pc    35 45.20  -2.2
                  S     35 51.10
PUZ      1.61 260 Pd    35 51.10   3.1X
                  eS    36 01.70
NOZ      1.93 244 Pd    35 58.40   5.7X
MAHZ     2.33 233 P     36 05.70   7.4X
URZ      2.53 259 P     36 02.10   0.9
                  S     36 22.00
PAHZ     2.73 246 P     36 07.20   3.1X
TAZ      3.00 261 P     36 07.90   0.1
TTH      3.20 236 P     36 15.50   4.8X
PATZ     3.21 258 P     36 11.00   0.0
TEHZ     3.47 230 P     36 18.50   3.9X
KUZ      3.77 285 P     36 14.10  -4.7X
NGZ      3.91 248 Pd    36 22.00   1.1
CNZ      3.95 248 P     36 22.60   1.1
PGZ      4.18 227 P     36 28.70   4.1X
MOZ      4.36 259 P     36 27.10  -0.1
BSZ      4.62 243 P     36 32.90   2.1
MNG      4.66 231 P     36 33.10   1.7
                  S     37 18.70
MTW      4.98 226 P     36 38.10   2.1
BLW      5.13 225 P     36 40.80   2.6
KIW      5.15 232 P     36 39.40   0.9
CAW      5.20 229 P     36 40.50   1.4
MRW      5.49 230 eP    36 44.20   1.0
TCW      5.75 232 P     36 46.60  -0.2
DIW      5.76 237 P     36 46.70  -0.3
QRZ      6.71 241 P     36 58.20  -2.2
THZ      6.91 233 P     37 02.60  -0.6
                  S     38 10.90
DSZ      7.61 236 P     37 10.40  -2.6
LTZ      7.88 228 P     37 15.30  -1.4
MQZ      8.25 222 P     37 21.20  -0.7
                  S     38 43.00
ODZ     10.22 222 P     37 48.90  -0.1
BWZ     10.31 226 eP    37 49.10  -1.1
MSCZ    10.92 225 eP    37 57.40  -1.2
LSCZ    10.96 225 P     37 57.80  -1.3
SBCZ    10.97 225 P     37 58.10  -1.3
TLC     11.17 225 P     38 00.90  -1.2
TUZ     11.36 221 eP    38 04.80   0.4
ASPA    41.85 276 eP    43 08.40  -1.8
        0.8s     4.50nm          4.3mb
WR2     43.48 281 eP    43 24.60   1.1
        0.5s     3.00nm          4.3mb
WRA     43.50 281 P     43 25.50   1.8
        0.6s     0.80nm          3.7mb
     S.D. = 1.5  on  31 of  39 obs.
-------------------------------------
   OCT  25, 1993  20h 41m 28.79± 0.30s
    5.874 S ± 4.1km  145.879 E ± 6.1km
   DEPTH =  10.0km  (geophysicist)
   4.7mb ( 11 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
     ML 4.6 (PMG).

YYYY     0.38 166 eP    41 37.50   1.0
MDG      0.63 351 iPd   41 42.20   0.8
LAT      1.36 125 eP    41 53.80   0.0
MNDI     2.23 263 eP    42 12.50   6.0X
WWKK     3.17 315 eP    42 25.20   5.5X
PMG      3.73 160 iPd   42 27.80   0.1
HNR     14.38 105 eP    44 56.00   1.4
                  eS    47 02.00
QIS     15.82 202 eP    45 14.30   1.0
WR2     17.92 218 iPd   45 40.20   0.4
        0.6s    35.20nm          4.7mb
KNA     19.45 238 eP    45 57.80  -0.8
        1.0s    95.00nm          5.0mb
ASPA    21.12 212 iPc   46 15.40  -0.8
        1.0s    24.60nm          4.5mb
     Z  19s      0.80um          4.1Msz
                  ipP   46 20.50  19kmX
                  ePP   46 40.40
                  eS    50 11.30
BKM     24.80 120 iPc   46 52.00  -0.4
ARMA    25.01 168 eP    46 53.90  -0.6
        0.4s     5.00nm          4.6mb
                  e     48 56.20
DZM     25.58 131 iPc   46 58.00  -2.0
STK     26.18 188 eP    47 04.20  -1.1
        1.8s     3.30nm          3.7mb
WARB    27.30 220 iPd   47 15.30  -0.4
        0.6s     8.00nm          4.6mb
WKYJ    41.05 347 eP    49 13.60  -0.5
TKSJ    41.19 345 P     49 15.40   0.2
YONJ    42.48 345 P     49 25.80  -0.1
MAT     42.80 351 eP    49 27.00  -1.4
SSE     43.69 329 P     49 36.00   0.3
        1.0s    11.00nm          4.6mb
NST     50.10 296 eP    50 27.50   1.1
CHTO    52.35 299 eP    50 44.70   1.2
MDJ     52.35 345 eP    50 41.80  -1.3
XAN     52.88 321 P     50 47.00  -0.3
        0.8s     6.90nm          4.6mb
                  pP    50 54.00  23kmX
CD2     54.39 315 P     50 58.90   0.5
HHC     56.15 329 P     51 10.60  -0.5
        1.2s     9.70nm          4.7mb
BTO     56.77 328 eP    51 15.40  -0.2
LZH     57.39 320 iPc   51 20.20   0.1
        1.4s    28.00nm          5.1mb
CSY     65.10 195 eP    52 20.50   9.0X
        0.7s    11.90nm          5.2mb
GBA     70.63 287 P     52 47.00   0.0
WMQ     71.97 320 P     52 55.20   0.5
CNCB   139.64 125 PKP   00 55.00  -5.3X
LPB    139.69 124 (PKP) 00 49.00 -11.2X
LPAZ   139.79 124 PKP   01 09.10   8.4X
PPD    147.55 149 ePKP  01 14.90   1.8
BAO    154.59 147 ePKP  01 32.40   8.7X
     S.D. = 0.9  on  30 of  37 obs.
-------------------------------------
?  OCT  25, 1993  20h 44m 17.91± 6.45s
   31.935 S ±48.7km   67.968 W ±14.8km
   DEPTH = 109.7 ± 46.6 km
 SAN JUAN PROVINCE, ARGENTINA      (137)

CFA      0.40 325 e(P)  44 34.30  -0.1
                  S     44 48.00
RTCV     0.49 278 iPc   44 35.00   0.0
                  S     44 48.30
RTLL     0.74 325 iPc   44 37.00   0.1
                  S     44 50.50
RTCB     0.84 302 iPc   44 37.80  -0.1
                  S     44 53.50
RTPR     2.05  38 eP    44 52.00   0.0
                  S     45 18.90
RTRS     2.18 324 eP    44 53.60   0.0
                  S     45 21.00
     S.D. = 0.1  on   6 of   6 obs.
-------------------------------------
*  OCT  25, 1993  20h 50m 22.26± 3.13s
   42.166 N ±24.3km   16.863 E ±19.4km
   DEPTH =   5.0km  (geophysicist)
 ADRIATIC SEA                      (382)

HVAR     1.06 343 iPgd  50 42.40  -0.2
                  iSg   50 57.10
HCY      1.25  76 iPgc  50 44.77  -1.1
                  iSg   51 01.16
BRY      1.44  59 iPgc  50 48.68  -0.5
                  iSg   51 08.43
BDV      1.46  85 ePg   50 48.45  -0.9
                  iSg   51 08.07
NKY      1.71  67 iPgd  50 53.01   0.1
                  iSg   51 16.54
ULC      1.79  96 iPnc  50 54.22   0.2
                  iSn   51 18.05
TTG      1.80  81 iPnc  50 54.52   0.4
                  iSn   51 18.33
PLE      2.20  57 iPnd  51 01.02   1.0
                  iSn   51 28.71
PVY      2.34  78 iPnd  51 02.63   0.4
                  iSn   51 31.52
IVA      2.35  72 iPnd  51 02.87   0.6
                  iSn   51 31.86
PTJ      3.79 350 eP    51 28.60   5.9X
     S.D. = 0.8  on  10 of  11 obs.
-------------------------------------
?  OCT  25, 1993  20h 58m 07.89±19.92s
   29.372 S ±171.km   68.421 W ±82.8km
   DEPTH = 100.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA      (137)

RTLL     1.95 181 ePd   58 40.00  -0.4
                  S     59 05.50
RTCB     2.13 189 eP    58 43.00   0.2
                  S     59 09.00
CFA      2.23 176 e(P)  58 44.30   0.2
                  S     59 12.30
TCA      3.85 122 eP    59 06.10   0.0
     S.D. = 0.5  on   4 of   4 obs.
-------------------------------------
&  OCT  25, 1993  21h 15m 17.60s
   59.412 N          152.985 W
   DEPTH =  84.9km
   3.5mb (  1 obs.)
 SOUTHERN ALASKA                   (  2)
     <AEIC>.

AUE      0.21 255 iPd   15 29.56   1.0
AUP      0.23 258 iPd   15 29.81   1.0
AUL      0.23 263 iPd   15 29.77   1.0
AGU      0.23 257 ePd   15 29.81  -0.6
AUH      0.24 259 eP    15 29.84  -0.6
AUI      0.24 251 ePd   15 29.55  -0.7
                  eS    15 38.60
AUW      0.25 261 iPd   15 29.84  -0.5
```

25d 21h

OPT	0.27	333	iPd	15 29.95	-0.6
CDD	0.59	215	iPd	15 32.02	-0.8
			eS	15 43.29	
INE	0.65	357	iPc	15 32.71	-0.9
			eS	15 44.44	
ILIM	0.67	1	iPc	15 32.71	-0.9
			eS	15 44.43	
PDB	0.72	302	ePd	15 33.34	-0.7
			eS	15 45.40	
HOM	0.73	70	eP	15 33.84	-0.3
MCNL	0.73	252	iPd	15 33.36	-0.8
			eS	15 45.48	
SYI	0.86	159	iPc	15 34.73	-0.8
			eS	15 47.91	
CNPM	0.90	82	eP	15 35.24	-0.8
RED	1.02	6	iPc	15 36.63	-0.9
			eS	15 51.62	
RS2	1.06	6	iPc	15 37.44	-0.7
NNL	1.06	53	eP	15 37.92	-0.1
RDW	1.08	5	iPc	15 37.56	-0.8
REF	1.09	7	iPc	15 37.69	-0.8
			eS	15 53.02	
BRLK	1.12	71	eP	15 37.95	-0.8
			eS	15 53.73	
BGM	1.15	270	eP	15 38.18	-0.9
NCT	1.15	1	iPc	15 38.32	-0.9
DFR	1.19	7	iPc	15 38.88	-0.8
RDT	1.20	14	iPc	15 38.76	-1.0
			eS	15 55.14	
NKA	1.60	33	eP	15 45.96	1.2
KDC	1.69	171	P	15 44.40	-1.6
BKG	1.70	12	eP	15 45.62	-0.6
SLKM	1.77	50	eP	15 45.74	-1.4
CKL	1.82	10	iPc	15 47.17	-0.7
SPU	1.84	14	iPc	15 47.19	-0.8
			eS	16 09.59	
CKT	1.84	12	iPc	15 47.28	-0.8
			eS	16 09.91	
CKN	1.86	12	iPc	15 47.81	-0.5
BGL	1.88	9	iPc	15 48.10	-0.6
CP2	1.89	11	iPc	15 48.36	-0.6
CRP	1.91	12	iPc	15 48.45	-0.6
SEW	1.92	67	eP	15 47.55	-1.5
			eS	16 09.90	
CGLM	1.96	14	iPc	15 48.97	-0.8
NCG	2.04	11	iPc	15 50.13	-0.7
MPA	2.12	58	eP	15 50.40	-1.4
SVW	2.15	323	iPc	15 51.30	-1.0
			iS	16 12.70	
SUA	2.34	27	eP	15 54.36	-0.6
PMS	2.51	41	iPc	15 56.20	-0.9
LTI	2.67	74	eP	15 57.52	-1.9
SKT	2.67	15	eP	15 58.22	-1.2
PWA	2.72	33	eP	15 58.70	-1.3
PWL	2.74	56	eP	15 58.16	-2.2
KNK	3.01	46	eP	16 01.96	-2.1
GHO	3.10	38	eP	16 04.02	-1.3
CFI	3.15	53	eP	16 03.45	-2.4
FID	3.53	65	eP	16 07.50	-3.6
SCM	3.70	47	eP	16 11.46	-2.1
VLZ	3.74	60	eP	16 11.48	-2.5
CVA	3.81	70	eP	16 11.85	-3.2
TTA	3.82	339	eP	16 11.10	-4.2
KLU	4.07	56	eP	16 16.12	-2.7
TRF	4.26	17	eP	16 20.42	-1.1
TOA	4.30	48	eP	16 20.40	-1.6
GLB	4.98	62	eP	16 28.23	-3.2
PAX	5.09	42	eP	16 31.70	-1.4
CRQM	5.11	70	eP	16 30.40	-3.0
WAX	5.20	74	eP	16 31.41	-3.2
TGL	5.26	71	eP	16 32.63	-2.8
BALM	5.55	68	eP	16 36.41	-3.0
YAH	5.74	76	eP	16 39.99	-2.2
HDA	5.76	27	eP	16 39.88	-2.4
FBA	6.02	22	eP	16 43.00	-2.8
IMA	6.69	358	eP	16 53.30	-1.9
YKA	18.70	64	eP	19 28.10	-3.4

0.4s 1.10nm 3.5mb
70 obs. associated

OCT 25, 1993 21h 30m 15.71± 1.04s
33.164 S ± 7.1km 71.383 W ± 9.7km
DEPTH = 51.3 ± 14.5 km
NEAR COAST OF CENTRAL CHILE (135)
MD 4.4 (SAN).

IHA	0.26	302	iPc	30 25.00	0.4
			iS	30 31.60	
LCCH	0.35	207	iPd	30 25.89	0.4
ROCH	0.37	59	iPd	30 25.67	-0.2
PEL	0.59	88	iPd	30 27.89	-0.3
			iS	30 36.88	
TACH	0.61	143	iP+	30 28.21	-0.3
SAN	0.67	116	iPd	30 28.75	-0.5
			iS	30 37.92	
LNV	0.79	182	iPd	30 31.01	0.2
JACH	0.82	54	iPd	30 30.59	-0.7
			(S)	30 41.19	
PCH	0.86	122	iPd	30 31.20	-0.6
CACH	1.15	146	iPd	30 36.31	0.4
RTCV	2.73	62	e(P)	30 59.00	0.9
RTCB	2.75	53	iPc	31 00.00	1.5
			(S)	31 35.50	
ZON	2.80	56	eP	30 51.10	-8.0X
RTLL	3.07	54	iPc	31 03.50	0.5
			(S)	31 41.00	
CFA	3.08	61	e(P)	31 04.00	0.9
			S	31 43.30	
RTRS	3.40	29	eP	31 09.50	1.9
RTPR	5.04	57	eP	31 29.00	-1.6
TCA	6.03	74	iP	31 41.80	-2.9X
			(S)	32 52.00	
CYA	6.72	47	ePc	31 50.00	-4.3X
CNCB	16.57	11	P	34 10.80	4.2X
LPB	16.82	11	eP	34 07.00	-2.7

S.D. = 1.2 on 17 of 21 obs.

OCT 25, 1993 21h 43m 46.01± 0.78s
44.243 N ± 5.6km 8.240 E ± 6.7km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.2 (LDG), 2.0 (GEN).

FIN	0.04	214	P	43 48.18	0.0
			S	43 49.37	
ROB	0.27	281	P	43 51.88	0.1
			S	43 55.41	
PCP	0.37	36	P	43 53.58	-0.1
			S	43 58.89	
IMI	0.42	217	P	43 54.31	-0.3
			S	44 00.03	
ENR	0.59	269	P	43 57.81	-0.2
			S	44 05.38	
STV	0.66	270	P	43 58.89	-0.3
SBF	0.69	237	Pg	43 59.60	-0.2
			Sg	44 09.30	
BHB	0.92	311	P	44 03.63	0.0
			S	44 14.85	
FRF	1.34	240	Pg	44 10.60	-0.1
			Sg	44 27.30	
LMR	1.55	235	Pg	44 13.10	-0.5
			Sg	44 32.10	
LRG	1.57	241	Pg	44 15.40	1.4
			Sg	44 34.70	

S.D. = 0.6 on 11 of 11 obs.

? OCT 25, 1993 21h 47m 18.44± 1.14s
44.248 N ± 9.4km 8.236 E ± 9.0km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 1.6 (GEN).

FIN	0.04	207	P	47 20.55	0.0
			S	47 21.78	
ROB	0.27	280	P	47 24.30	0.2
			S	47 27.91	
PCP	0.37	37	P	47 26.08	0.1
			S	47 31.12	
BHB	0.91	311	P	47 35.72	-0.2

S.D. = 0.3 on 4 of 4 obs.

? OCT 25, 1993 22h 00m 08.23± 3.40s
10.559 N ±17.6km 62.092 W ±22.9km
DEPTH = 10.0km (geophysicist)
NEAR COAST OF VENEZUELA (97)
MD 3.1 (TRN).

TCE	0.36	68	ePd	00 16.40	0.7
TPP	0.68	111	ePd	00 21.70	0.1
TRN	0.68	82	ePd	00 20.48	-1.3
			eS	00 38.87	
TBH	1.01	94	ePc	00 28.42	1.0
TPR	1.43	64	eP	00 34.16	-0.1
BOT	1.48	66	eP	00 34.07	-0.8
GRW	1.65	15	eP	00 37.71	0.3
			eS	00 58.87	

S.D. = 1.0 on 7 of 7 obs.

& OCT 25, 1993 22h 23m 47.82s
61.027 N 147.534 W
DEPTH = 29.0km
3.9mb (7 obs.)
SOUTHERN ALASKA (2)
<AEIC>. ML 4.7 (AEIC), 4.5 (PMR). Felt (III) at Anchorage, Palmer and Valdez.

CFI	0.19	324	iPd	23 53.65	-0.2
			eS	23 58.12	
GLI	0.26	124	eP	23 54.34	-0.4
			eS	24 00.03	
PWL	0.43	247	iPd	23 56.08	-1.0
VZW	0.48	86	eP	23 56.92	-1.0
FID	0.59	118	iPc	23 57.94	-1.7
			eS	24 06.21	
KNK	0.59	311	iPc	23 58.69	-1.0
			eS	24 07.34	
VLZ	0.59	79	iPc	23 58.47	-1.2
			eS	24 06.91	
KNIM	0.69	188	eP	23 59.54	-1.7
			eS	24 09.24	
PTE	0.75	258	eP	24 00.91	-1.2
			eS	24 10.63	
HIN	0.81	141	iPc	24 02.40	-0.8
			eS	24 14.82	
SCM	0.82	7	iPd	24 01.84	-1.5
SML	0.87	334	iPc	24 02.79	-1.3
KLU	0.91	58	iPd	24 03.23	-1.4
			eS	24 15.36	
PLRM	0.96	307	iPc	24 03.88	-1.3
PMR	0.96	307	iPc	24 03.61	-1.6
CVA	1.00	118	iPc	24 05.15	-0.7
LTI	1.00	189	iPd	24 04.54	-1.4
			eS	24 18.31	
GHO	1.00	319	iPc	24 04.89	-1.1
PMS	1.01	283	P	24 04.90	-1.1
MPA	1.05	240	iPd	24 05.24	-1.3
			eS	24 18.34	
SGAM	1.26	114	iPc	24 08.52	-1.0
TOA	1.26	30	P	24 09.10	-0.6
PWA	1.29	300	P	24 09.30	-0.7
SEW	1.32	226	iPd	24 08.88	-1.5
			eS	24 26.46	
SLKM	1.42	250	iPd	24 10.87	-1.0
TZL	1.44	44	iPd	24 12.03	-0.1
RAGM	1.55	113	iPc	24 12.50	-1.2
SUA	1.61	287	iPc	24 13.84	-0.9
MID	1.71	159	P	24 15.30	-0.7
HMT	1.75	112	ePc	24 15.13	-1.6
SDG	1.78	31	ePd	24 16.66	-0.4
NKA	1.83	263	eP	24 18.07	0.3
GLB	1.85	75	iPc	24 17.19	-0.9
			eS	24 40.03	
CUT	1.90	318	iPc	24 18.48	-0.3
DHY	2.06	2	iPd	24 20.63	-0.6
			eS	24 46.57	
BRLK	2.09	234	eP	24 19.96	-1.6
NNL	2.11	244	ePd	24 20.67	-1.1
SKT	2.14	298	iPc	24 20.88	-1.4
CRQM	2.17	95	iPc	24 21.17	-1.6
PAX	2.18	26	iPd	24 22.42	-0.5
			eS	24 47.24	
CGLM	2.19	279	iPc	24 21.62	-1.4
HUR	2.19	334	iPc	24 22.82	-0.2
SPU	2.20	276	iPc	24 21.43	-1.7
CRP	2.25	278	iPc	24 22.58	-1.4
CKN	2.26	277	iPc	24 22.68	-1.4
NCG	2.27	282	iPc	24 22.61	-1.6
CKT	2.27	276	iPc	24 22.60	-1.6
CP2	2.30	278	iPc	24 23.12	-1.5
BKG	2.30	273	iPc	24 22.91	-1.7
TGL	2.32	95	iPc	24 23.11	-1.7
CKL	2.34	276	iPc	24 23.45	-1.7
BGL	2.37	278	iPc	24 23.81	-1.8
WAX	2.37	102	eP	24 23.62	-2.0
CNPM	2.38	232	iPd	24 23.76	-1.9
RDT	2.43	261	eP	24 24.31	-2.2
HOM	2.46	238	ePd	24 25.31	-1.5
RND	2.47	346	iPc	24 26.41	-0.6
BALM	2.53	88	iPc	24 26.18	-1.7
			eS	24 56.21	

```
THY      2.54  18 eP    24 28.58   0.6
DFR      2.56 262 eP    24 26.04  -2.3
REF      2.59 260 iPd   24 26.77  -2.1
XLV      2.62 235 ePd   24 26.95  -2.1
RSO      2.63 260 iPd   24 27.25  -2.1
RS2      2.63 260 iPd   24 27.28  -2.1
RED      2.65 259 iPd   24 27.21  -2.3
                  eS    24 57.31
RDW      2.65 260 iPd   24 27.41  -2.2
CYK      2.67 109 eP    24 27.71  -2.0
NCT      2.69 262 ePd   24 27.86  -2.2
                  eS    25 00.96
TRF      2.75 333 iPc   24 30.43  -0.7
MCK      2.79 347 iPc   24 31.33  -0.2
ILIM     2.84 253 iPd   24 29.86  -2.4
INE      2.90 253 iPd   24 30.60  -2.5
YAH      2.92 101 eP    24 31.74  -1.8
KTH      2.99 330 iPc   24 33.61  -0.8
CTGM     3.02  88 iPc   24 33.17  -1.7
DOT      3.09  30 eP    24 34.97  -0.8
DJE      3.13  15 eP    24 35.54  -0.8
TMW      3.14  41 eP    24 35.53  -0.9
OPT      3.15 247 iPd   24 34.28  -2.3
BWN      3.28 345 iPc   24 37.27  -1.1
AUE      3.36 243 eP    24 37.36  -2.2
AUL      3.38 243 eP    24 37.81  -2.0
AUP      3.38 243 eP    24 38.28  -1.7
AGU      3.39 243 eP    24 38.18  -1.9
AUH      3.39 243 eP    24 38.18  -1.9
BC3      3.39  50 iPd   24 39.13  -1.0
AUI      3.40 243 eP    24 38.05  -2.1
AUW      3.40 243 eP    24 38.13  -2.0
HDA      3.40   4 eP    24 38.97  -1.2
SYI      3.45 227 ePd   24 38.74  -2.1
WRH      3.47 356 iPc   24 39.63  -1.5
PDB      3.53 252 eP    24 39.33  -2.7
NEA      3.63 349 iPc   24 41.54  -1.9
CCB      3.64 358 iPc   24 41.69  -1.8
CDD      3.72 238 iPd   24 42.34  -2.4
IL1      3.77   4 eP    24 43.52  -1.9
ILB      3.77   4 eP    24 43.52  -1.8
MCNL     3.87 245 iPd   24 43.63  -3.2
                  eS    25 27.71
FBA      3.89 358 P     24 45.20  -1.8
SVW      3.93 275 P     24 44.40  -3.3
MDM      3.96 356 iPc   24 46.26  -1.8
GLM      3.98   1 eP    24 46.26  -2.1
KDC      4.15 220 P     24 47.90  -2.9
MLY      4.28 341 ePc   24 50.30  -2.3
TTA      4.43 299 P     24 51.50  -3.4
PRP      4.60  11 eP    24 54.73  -2.6
FYU      5.65   9 eP    25 09.48  -2.5
IM3      5.70 333 ePc   25 09.49  -3.2
IMA      5.76 334 P     25 10.60  -3.0
BM3      6.54  10 eP    25 21.11  -3.5
SIT      7.45 117 eP    25 32.13  -5.0
ANM      8.90 301 P     25 51.70  -5.6
SDN      8.90 236 eP    25 53.04  -4.3
INK      9.43  33 eP    26 04.50  -0.2
       0.7s      5.00nm          4.9mb X
YKA     15.56  70 eP    27 22.70  -3.7
       0.4s      1.70nm          3.6mb
MBC     18.05  21 eP    27 56.00  -1.6
       0.8s      2.00nm          3.3mb
NEW     21.50 113 eP    28 34.64  -1.4
       1.1s     20.83nm          4.5mb
VGB     22.06 123 (P)   28 41.51  -0.1
RES     22.99  33 eP    28 52.00   1.5
       1.0s      4.00nm          3.9mb
DAG     38.76  17 iPc   31 07.90  -2.7
       0.9s     12.60nm          4.7mb
WMOK    40.55 108 (P)   31 23.70  -2.2
       1.2s      4.77nm          4.1mb
LTX     42.93 117 (P)   31 42.79  -2.7
GEC2    69.44  13 P     35 03.80   9.0
       0.6s      0.50nm          3.8mb
      123 obs. associated
-----------------------------------------
*  OCT  25, 1993  22h 53m 03.28± 1.09s
    5.886 S ± 8.9km  146.039 E ±14.0km
   DEPTH =  10.0km  (geophysicist)
   3.9mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.1 (PMG).

YYYY     0.36 191 iPc   53 11.50   0.8
MDG      0.68 338 ePd   53 17.00   0.2
LAT      1.23 129 eP    53 26.50   0.3
MNDI     2.38 263 eP    53 49.00   5.8X
WWKK     3.29 313 eP    54 00.10   4.1X
PMG      3.67 162 eP    53 59.50  -1.8
CTA     14.12 179 iP    56 27.00   1.4
WR2     18.01 218 eP    57 14.50  -0.9
       0.6s      6.70nm          3.9mb
ASPA    21.19 212 eP    57 53.70   2.3X
       1.6s      9.10nm          3.9mb
     S.D. = 1.5  on   6 of   9 obs.
-----------------------------------------
&  OCT  25, 1993  23h 41m 24.59s
   63.065 N          150.710 W
   DEPTH = 121.3km
   3.6mb (  1 obs.)
 CENTRAL ALASKA                    (  1)
      <AEIC>.

TRF      0.43  26 iPc   41 42.39  -0.4
                  eS    41 55.98
HUR      0.50 100 iPc   41 42.34  -0.6
                  eS    41 56.28
KTH      0.50 349 iPd   41 42.68  -0.3
                  eS    41 55.83
CUT      0.69 163 iPc   41 44.05  -0.2
RND      0.91  67 iPc   41 45.60  -0.6
                  eS    42 02.03
MCK      1.04  49 eP    41 47.06  -0.4
                  eS    42 03.08
SKT      1.15 200 eP    41 48.28  -0.3
                  eS    42 06.27
BWN      1.24  26 ePd   41 49.37  -0.2
PWA      1.47 164 P     41 51.90  -0.2
DHY      1.52  88 ePc   41 52.25  -0.6
GHO      1.54 147 iPc   41 52.63  -0.4
                  eS    42 14.90
SUA      1.61 181 ePd   41 53.97   0.1
PLRM     1.65 153 iPc   41 53.32  -0.9
                  eS    42 16.20
PMR      1.65 153 iPc   41 53.00  -1.2
                  eS    42 16.81
SML      1.68 138 iPc   41 53.71  -0.9
NEA      1.68  25 iPd   41 53.44  -1.2
NCG      1.80 203 ePd   41 55.65  -0.5
WRH      1.83  38 iPd   41 55.41  -1.0
CGLM     1.87 200 eP    41 56.33  -0.7
PMS      1.91 163 P     41 56.70  -0.7
CRP      1.93 201 ePd   41 56.74  -1.1
CP2      1.95 202 eP    41 57.40  -0.7
KNK      1.97 147 ePc   41 57.20  -1.0
                  eS    42 23.34
BGL      1.97 204 eP    41 58.42   0.1
CKN      1.97 201 eP    41 58.50   0.2
MLY      1.97 360 iPc   41 57.23  -1.1
SPU      1.99 199 eP    41 58.07  -0.5
CKT      2.00 201 eP    41 58.41  -0.2
SCM      2.00 127 ePc   41 57.35  -1.3
                  eS    42 24.47
CKL      2.03 203 eP    41 58.66  -0.3
CCB      2.04  38 iPd   41 57.94  -1.1
BKG      2.13 201 eP    41 59.68  -0.6
HDA      2.15  49 iPd   41 59.21  -1.2
                  eS    42 29.18
MDM      2.19  29 iPd   41 59.87  -1.2
FBA      2.25  34 iPd   42 00.29  -1.4
THY      2.27  79 eP    42 02.49   0.4
TOA      2.31 113 P     42 02.00  -0.6
CFI      2.34 142 ePc   42 01.53  -1.3
NKA      2.34 186 eP    42 04.88   2.0
PAX      2.39  90 eP    42 02.74  -0.9
                  eS    42 32.06
IL1      2.41  43 iPd   42 02.36  -1.4
                  eS    42 33.56
ILB      2.41  43 iPd   42 02.41  -1.4
                  eS    42 31.26
GLM      2.42  36 iPd   42 02.87  -1.1
TTA      2.42 269 eP    42 01.82  -2.2
SDG      2.43 101 eP    42 03.43  -0.7
DJE      2.45  65 eP    42 03.24  -1.1
PWL      2.48 152 ePc   42 03.50  -1.3
                  eS    42 34.30
SLKM     2.58 175 eP    42 05.32  -0.7
RDT      2.63 199 eP    42 07.09   0.4
DFR      2.65 202 eP    42 07.25   0.2
TZL      2.65 110 eP    42 06.46  -0.5
MPA      2.66 165 eP    42 05.77  -1.3
NCT      2.72 204 eP    42 08.19   0.2
KLU      2.74 123 eP    42 06.32  -1.9
REF      2.75 201 eP    42 08.94   0.4
RDW      2.78 202 eP    42 08.97   0.2
VZW      2.81 134 eP    42 07.05  -2.0
VLZ      2.83 131 eP    42 07.01  -2.2
                  eS    42 40.85
RED      2.83 201 eP    42 06.61  -2.8
SVW      3.03 232 eP    42 10.64  -1.4
SEW      3.03 168 eP    42 10.89  -1.1
DOT      3.05  76 iPd   42 10.90  -1.4
FID      3.07 137 eP    42 10.49  -2.0
                  eS    42 47.32
IM3      3.21 337 iPc   42 13.02  -1.4
IMA      3.28 338 iPc   42 13.62  -1.8
LTI      3.33 154 ePc   42 13.89  -2.1
PRP      3.34  40 ePd   42 14.61  -1.7
                  eS    42 54.15
HOM      3.45 188 eP    42 17.62   0.1
CVA      3.45 135 eP    42 16.25  -1.4
TMW      3.50  82 eP    42 16.32  -2.0
CNPM     3.56 184 eP    42 18.36  -0.8
GLB      3.61 114 ePc   42 18.40  -1.5
                  eS    42 59.44
OPT      3.63 201 eP    42 20.63   0.5
SGAM     3.67 132 eP    42 18.81  -1.7
PDB      3.69 209 eP    42 20.74  -0.1
AUL      3.92 201 eP    42 27.29   3.3
RAGM     3.93 130 eP    42 22.64  -1.5
AUW      3.94 201 eP    42 25.13   0.9
AUH      3.94 201 P     42 27.70   3.4
BC3      4.06  86 ePd   42 23.89  -2.0
FYU      4.22  31 eP    42 26.55  -1.4
CRQM     4.26 120 eP    42 27.05  -1.7
MCNL     4.27 206 eP    42 28.63  -0.1
TGL      4.39 118 eP    42 28.22  -2.1
CDD      4.39 200 eP    42 29.84  -0.5
BALM     4.43 114 eP    42 29.07  -1.9
SYI      4.55 191 eP    42 31.58  -0.8
CTGM     4.89 111 eP    42 36.14  -1.1
BM3      5.07  28 ePd   42 37.15  -2.4
INK      8.80  46 eP    43 28.00  -2.2
       0.9s      2.00nm          3.8mb X
YKA     16.39  76 eP    45 06.20  -2.3
       0.6s      2.10nm          3.6mb
      91 obs. associated
-----------------------------------------
*  OCT  25, 1993  23h 58m 05.22± 0.79s
    5.892 S ± 8.0km  145.986 E ±10.9km
   DEPTH =  10.0km  (geophysicist)
   4.2mb (  3 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.4 (PMG).

MDG      0.67 342 ePc   58 18.80   0.3
LAT      1.27 127 eP    58 28.80   0.0
MNDI     2.33 263 eP    58 51.50   7.1X
WWKK     3.26 314 eP    59 01.50   4.0X
PMG      3.68 162 iPd   59 03.00  -0.4
CTA     14.11 179 iPc   01 29.50   2.0
       0.6s      4.17nm          4.4mb
QIS     15.84 202 eP    01 50.30   0.3
WR2     17.97 218 iPd   02 16.40  -0.5
       0.6s     11.30nm          4.2mb
                  eS    05 43.90
ARMA    24.97 168 eP    03 30.00  -0.5
DZM     25.49 131 iPc   03 35.40  -0.1
STK     26.18 188 eP    03 40.60  -1.1
       0.7s      2.40nm          4.0mb
GBA     70.74 287 P     09 30.00   5.9X
     S.D. = 1.0  on   9 of  12 obs.
-----------------------------------------
*  OCT  26, 1993  00h 21m 04.45± 0.90s
    5.856 S ± 7.4km  146.002 E ±12.0km
   DEPTH =  10.0km  (geophysicist)
   3.6mb (  1 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY     0.38 185 iPd   21 13.00   0.6
MDG      0.64 340 ePd   21 17.50   0.2
LAT      1.28 129 eP    21 28.00  -0.2
MNDI     2.35 263 eP    21 50.00   6.1X
WWKK     3.25 313 eP    22 01.20   4.7X
PMG      3.71 162 eP    22 03.00   0.0
WR2     18.01 218 eP    25 16.00  -0.6
       0.6s      2.80nm          3.6mb
     S.D. = 0.6  on   5 of   7 obs.
-----------------------------------------
```

26d 01h

```
? OCT 26, 1993 01h 21m 19.30± 3.60s
  25.318 S ±22.9km  179.415 W ±26.6km
  DEPTH = 485.2 ± 33.8 km
  4.3mb (  5 obs.)
 SOUTH OF FIJI ISLANDS                (171)

PUZ     12.87 188 eP     24 08.30   0.0
URZ     13.24 192 eP     24 10.50  -1.6
DZM     13.35 281 iPc    24 13.90   0.4
QRZ     16.86 202 P      24 49.40   0.6
THZ     17.59 199 P      24 57.70   1.6
KHZ     18.02 197 eP     24 59.50  -0.6
LTZ     18.72 199 eP     25 07.20   0.3
ARMA    26.06 252 eP     26 15.60   0.9
        0.5s     3.00nm          4.0mb
LAT     37.06 294 eP     28 09.00  20.6X
ASPA    42.35 262 iPd    28 31.20   0.0
        0.4s    13.00nm          4.8mb
WR2     42.84 267 iPc    28 34.40  -0.7
        0.3s    16.80nm          5.0mb
WRA     42.86 267 P      28 35.00  -0.3
        0.6s     3.00nm          4.0mb
WARB    48.29 257 iPd    29 16.30  -0.9
        0.4s     4.00nm          4.2mb
CSY     59.08 206 eP     30 44.90  11.4X
        0.7s     7.80nm
HFS    144.03 349 ePKP   40 00.00   0.4
        0.3s     1.20nm
     S.D. = 1.0  on  13 of  15 obs.
-------------------------------------
* OCT 26, 1993  02h 01m 27.11± 2.25s
   5.717 S ±18.9km  145.997 E ±13.5km
  DEPTH =  10.0km  (geophysicist)
  3.8mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.3 (PMG).

YYYY     0.52 183 iPd    01 37.80   0.1
LAT      1.37 133 eP     01 52.40   0.1
MNDI     2.37 259 eP     02 15.00   8.2X
WWKK     3.15 311 eP     02 26.30   8.6X
PMG      3.84 163 ePc    02 27.30  -0.3
WR2     18.11 218 iPc    05 40.60   0.0
        1.2s     4.80nm          3.5mb
ASPA    21.31 212 eP     06 20.40   3.9X
        0.8s     7.70nm          4.1mb
DZM     25.60 131 iPc    06 58.40   0.0
     S.D. = 0.2  on   5 of   8 obs.
-------------------------------------
? OCT 26, 1993  02h 15m 33.78± 1.92s
  39.454 N ± 9.7km   26.389 E ±23.4km
  DEPTH =   5.0km  (geophysicist)
 TURKEY                               (366)
      ML 3.0 (ISK).

EZN      0.37 352 iPg    15 41.20  -0.1
                 iSg    15 48.20
IZM      1.26 147 ePn    15 57.60   0.0
EDC      1.44  51 ePn    16 00.40  -0.2
MFT      1.50  27 ePn    16 01.70   0.3
     S.D. = 0.4  on   4 of   4 obs.
-------------------------------------
& OCT 26, 1993  02h 17m 47.26s
  36.134 N          120.178 W
  DEPTH =   8.5km
 CENTRAL CALIFORNIA                   ( 39)
      <GM-P>. MD 2.7 (GM). ML 2.7
      (PAS).

PHAM     0.35 211 eP     17 55.33   1.0
BCH      0.95 175 eP     18 05.09  -0.5
SAO      1.20 302 eP     18 09.70  -0.1
ISA      1.46 108 eP     18 12.80  -1.1
                 eS     18 30.72
ABL      1.50 148 eP     18 12.73  -1.9
ARN      1.63 319 eP     18 15.88  -0.4
MMPM     1.74  32 eP     18 18.01  -0.2
                 eS     18 40.43
MTUM     1.78  46 eP     18 18.55  -0.1
                 eS     18 41.64
MEMM     1.82  33 eP     18 19.67   0.6
                 eS     18 42.88
CMB      1.90 355 P      18 19.70  -0.6
MRCM     2.04  41 eP     18 22.96   0.6
BONR     2.36  39 eP     18 28.39   1.3
TPNV     3.27  74 (P)    18 39.81  -0.1
       13 obs. associated
-------------------------------------
? OCT 26, 1993  02h 31m 12.20± 2.10s
  31.331 S ±74.0km   68.345 W ±25.0km
  DEPTH = 100.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA         (137)

RTLL     0.11 271 iPd    31 26.50  -0.2
                 S      31 37.00
CFA      0.29 162 ePd    31 26.00  -1.0
                 S      31 39.70
RTCB     0.42 248 ePd    31 28.50   0.7
                 S      31 40.20
MRA      2.49 116 ePd    31 52.20   0.4
     S.D. = 1.3  on   4 of   4 obs.
-------------------------------------
* OCT 26, 1993  02h 47m 25.43± 0.75s
   5.895 S ± 7.3km  145.841 E ±11.1km
  DEPTH =  10.0km  (geophysicist)
  4.0mb (  4 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.2 (PMG).

YYYY     0.37 160 iPd    47 34.30   1.3
MDG      0.64 355 eP     47 38.80   0.5
LAT      1.38 124 eP     47 50.20  -0.5
MNDI     2.19 263 eP     48 10.50   7.9X
WWKK     3.16 316 eP     48 21.60   5.4X
PMG      3.73 160 ePd    48 24.30   0.0
WR2     17.88 218 iPc    51 37.10   1.1
        0.6s     7.10nm          4.0mb
ASPA    21.08 212 eP     52 11.50  -0.9
        0.9s     6.10nm          4.0mb
ARMA    25.00 168 eP     52 50.60  -0.4
        0.7s     6.00nm          4.4mb
DZM     25.60 131 iPc    52 56.90   0.2
STK     26.16 188 eP     53 00.50  -1.2
        1.7s     3.00nm          3.7mb
     S.D. = 1.0  on   9 of  11 obs.
-------------------------------------
% OCT 26, 1993  03h 07m 52.66± 2.16s
  16.595 N ±21.0km   99.162 W ± 9.3km
  DEPTH =  10.0km  (geophysicist)
 NEAR COAST OF GUERRERO, MEXICO       ( 58)

ACX      0.72 292 iP     08 07.16   0.3
                 iS     08 20.41
III      1.80 351 iPc    08 23.69  -0.4
                 (S)    08 46.00
OXX      2.38  78 iP     08 31.87  -0.7
                 (S)    08 54.31
PPM      2.51  12 iP     08 33.50  -1.1
                 (S)    09 08.99
IIA      2.59  11 iP     08 35.28   0.1
UNM      2.72 360 (P)    08 41.30   3.8X
                 (S)    09 18.30
IISM     2.92  35 iP     08 39.79  -0.3
                 iS     09 18.00
MRX      3.65 328 (P)    08 54.89   4.6X
                 (S)    09 35.00
LVVM     4.05  39 (P)    08 58.20   2.2
     S.D. = 1.3  on   7 of   9 obs.
-------------------------------------
  OCT 26, 1993  03h 39m 47.78± 0.54s
  44.348 N ± 3.0km    7.268 E ± 4.0km
  DEPTH =  11.8 ±  6.0 km
 NORTHERN ITALY                       (545)
      ML 2.3 (GEN), 2.1 (LDG).

STV      0.11 159 P      39 50.42  -0.5
                 S      39 51.73
ENR      0.16 138 Pd     39 51.35  -0.4
PZZ      0.20 323 P      39 52.48   0.1
                 S      39 55.73
ROB      0.44  97 P      39 57.07   0.3
                 S      40 03.13
BHB      0.49 360 P      39 57.52  -0.4
                 S      40 03.81
SBF      0.50 166 Pg     39 57.80  -0.2
                 Sg     40 02.30
IMI      0.63 134 P      39 59.93  -0.3
                 S      40 08.04
RRL      0.67 329 P      40 01.07   0.0
                 S      40 09.82
FIN      0.69 101 P      40 01.37   0.1
                 S      40 10.42
RSP      0.80 359 P      40 02.07  -1.2
FRF      0.91 210 Pg     40 05.00   0.0
                 Sg     40 16.20
PCP      0.94  78 P      40 06.35   0.8
LRG      1.11 217 Pg     40 08.60   0.2
                 Sg     40 23.00
LSD      1.11 356 P      40 09.61   0.9
LMR      1.15 209 Pg     40 09.70   0.5
                 Sg     40 23.90
     S.D. = 0.6  on  15 of  15 obs.
-------------------------------------
& OCT 26, 1993  03h 57m 52.95s
  59.249 N          153.666 W
  DEPTH = 104.0km
  3.3mb (  1 obs.)
 SOUTHERN ALASKA                      (  2)
      <AEIC>.

AUI      0.15  55 iPc    58 06.97   0.8
                 eS     58 17.67
AUW      0.16  39 iPc    58 07.20   1.1
AUH      0.16  45 iPc    58 07.22   0.9
AGU      0.16  47 iPc    58 07.30   1.0
AUP      0.17  48 iPd    58 06.94   0.6
AUL      0.18  42 iPc    58 07.25   1.0
AUE      0.19  54 iPc    58 07.24   1.0
CDD      0.32 178 iPc    58 07.38  -1.0
                 eS     58 19.05
MCNL     0.35 260 iPd    58 07.58  -0.9
                 eS     58 18.34
OPT      0.46  29 iPc    58 08.55  -0.6
                 eS     58 20.34
PDB      0.60 334 iPd    58 09.29  -0.9
                 eS     58 21.87
BGM      0.81 281 eP     58 10.92  -1.2
INE      0.87  20 iPc    58 12.00  -0.8
                 eS     58 26.64
ILIM     0.91  23 ePc    58 12.07  -1.0
SYI      0.92 134 eP     58 11.84  -1.2
XLV      1.02  77 eP     58 13.68  -0.5
                 eS     58 28.74
HOM      1.11  67 eP     58 14.28  -0.9
RED      1.26  21 iPc    58 16.00  -1.0
                 eS     58 33.81
CNPM     1.27  76 iPc    58 15.77  -1.3
RS2      1.30  20 iPc    58 16.81  -0.8
                 eS     58 35.83
RSO      1.30  20 eP     58 16.88  -0.7
RDW      1.31  19 ePc    58 16.80  -0.9
REF      1.34  21 iPc    58 17.05  -1.0
                 eS     58 35.88
NCT      1.37  15 iPc    58 17.45  -0.9
                 eS     58 36.39
DFR      1.44  20 iPc    58 18.21  -0.9
NNL      1.44  56 eP     58 18.88  -0.2
RDT      1.47  25 iPc    58 18.52  -1.0
BRLK     1.51  69 eP     58 19.09  -0.9
                 eS     58 37.98
KDC      1.63 157 eP     58 18.84  -2.5
BKG      1.96  20 eP     58 24.82  -0.9
CKL      2.06  18 eP     58 26.27  -0.9
CKT      2.09  20 P      58 27.20  -0.2
SPU      2.10  22 P      58 28.00   0.5
SVW      2.11 333 eP     58 25.93  -1.7
CKN      2.12  20 P      58 28.70   1.0
BGL      2.12  17 eP     58 27.26  -0.6
CP2      2.14  19 eP     58 28.11  -0.2
SLKM     2.15  53 eP     58 26.87  -1.3
CRP      2.16  20 eP     58 27.15  -1.3
CGLM     2.22  21 eP     58 27.78  -1.4
NCG      2.29  19 eP     58 29.44  -0.7
SEW      2.30  66 eP     58 27.96  -2.2
MPA      2.50  58 eP     58 31.30  -1.5
SUA      2.65  32 eP     58 34.28  -0.7
PMS      2.86  44 P      58 36.50  -1.2
SKT      2.94  20 P      58 38.70   0.0
PWA      3.05  36 P      58 40.20   0.0
LTI      3.06  72 eP     58 38.29  -2.0
PWL      3.12  57 eP     58 38.75  -2.5
PLRM     3.25  42 eP     58 40.85  -2.1
KNK      3.38  48 eP     58 42.69  -2.0
CFI      3.53  54 eP     58 44.76  -1.9
CUT      3.58  26 P      58 46.40  -1.0
SML      3.68  43 eP     58 46.52  -2.3
KLU      4.46  56 eP     58 56.21  -3.3
IL1      6.39  27 eP     59 22.90  -3.2
ILB      6.39  27 eP     59 23.14  -3.0
IM3      6.76 360 eP     59 29.62  -1.5
BC3      6.90  51 eP     59 31.20  -1.9
```

```
YKA     19.08  64 eP    02 06.40  -3.1
         0.7s     1.10nm          3.3mb
         60 obs. associated
-------------------------------------
%  OCT  26, 1993  04h 20m 34.96± 0.89s
   44.232 N ± 6.3km    8.242 E ± 6.7km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                    (545)
      ML 1.7 (GEN).

FIN      0.03 226 P     20 41.23   0.2
                  S     20 42.38
ROB      0.27 283 P     20 44.85   0.1
                  S     20 48.46
PCP      0.38  35 P     20 46.73   0.0
IMI      0.41 218 P     20 47.27  -0.1
                  S     20 52.81
ENR      0.59 270 P     20 50.84  -0.1
                  S     20 58.35
STV      0.66 271 P     20 52.31   0.1
                  S     21 00.27
PZZ      0.86 289 P     20 55.42  -0.2
BHB      0.93 311 P     20 56.75   0.1
     S.D. = 0.2  on   8 of   8 obs.
-------------------------------------
*  OCT  26, 1993  04h 28m 13.24± 1.39s
   7.401 S ± 7.9km  128.420 E ±17.2km
   DEPTH = 125.4 ± 18.8 km
   4.4mb (  4 obs.)
 BANDA SEA                         (280)

MTN      6.03 154 eP    29 41.20  -0.2
       0.3s   150.00nm          5.8mb X
                  eS    30 45.20
SWI      7.08  24 ePc   29 56.00   0.2
KNA      8.30 178 eP    30 12.20  -0.1
                  eS    31 39.20
WR2     13.74 156 eP    31 20.10  -3.9X
                  eS    33 43.60
MBL     16.00 210 eP    31 52.00  -0.5
       0.6s    19.00nm          4.6mb
                  eS    34 42.80
QIS     16.98 142 eP    32 05.00   0.4
                  eS    35 00.00
WARB    18.76 185 eP    32 25.70   0.4
       0.3s     3.00nm          4.1mb
                  eS    35 43.00
CTA     21.40 128 eP    33 07.00  14.7X
                  e     33 26.00
                  e(S)  36 23.00
FORT    23.26 181 eP    33 12.00   1.6
STK     27.28 155 eP    33 46.20  -1.6
       0.5s     4.20nm          4.3mb
                  eS    38 51.40
LZH     49.04 334 iPd   36 49.30  -0.3
       1.4s    39.00nm          5.0mb
     S.D. = 1.1  on   9 of  11 obs.
-------------------------------------
&  OCT  26, 1993  04h 28m 30.48s
   32.305 N          115.065 W
   DEPTH =   6.0km  (geophysicist)
 CALIF.-BAJA CALIF. BORDER REGION( 45)
      <PAS-P>. ML 3.0 (PAS).

GLA      0.77  15 ePd   28 43.94  -2.0
PLM      1.84 305 (P)   29 04.24   1.2
GSC      3.32 335 (P)   29 23.33  -0.8
TUC      3.62  89 ePn   29 27.19  -1.2
TPNV     4.73 348 (P)   29 42.15  -2.1
BONR     6.23 336 (P)   30 05.90   0.4
MSU      6.63  20 (Pn)  30 08.39  -2.7
                  ePg   30 37.62
         7 obs. associated
-------------------------------------
   OCT  26, 1993  04h 34m 44.23± 0.27s
   26.203 S ± 3.8km   27.443 E ± 4.7km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA          (584)
      ML 4.3 (PRE). mbLg 4.3 (BUL).

KSR      0.60 304 eP    35 03.10   6.9X
SLR      0.89  59 eP    35 02.90   1.1
                  S     35 11.90
BFS      0.91 220 eP    35 05.40   3.2X
                  S     35 17.50
SEK      2.12 176 eP    35 21.60   0.7
                  S     35 45.90
BFT      2.40  78 eP    35 25.10   0.1
                  S     35 52.30
BLF      3.10 201 eP    35 36.00   1.1
                  S     36 11.20
FRS      4.00 207 eP    35 47.70   0.2
                  S     36 31.50
HVD      4.71 201 eP    35 56.60  -1.2
                  S     36 47.80
PKA      5.40 229 eP    36 08.00   0.6
                  S     37 07.50
BUL      6.13  10 iPnc  36 18.10   0.3
                  iSn   37 27.00
                  iSg   37 56.10
GRM      7.13 186 eP    36 29.40  -2.3X
POF      7.35 243 eP    36 35.30   0.4
                  S     37 54.60
BEW      7.46 214 eP    36 35.30  -1.2
SUR      8.45 222 eP    37 09.90  19.5X
                  S     38 57.00
WIN     10.10 289 eP    37 13.10  -0.1
                  S     39 04.10
MTD     10.14  23 iPn   37 12.50  -1.1
                  iSn   39 00.00
                  iSg   39 57.00
BLE     10.81 223 eP    37 20.10  -2.6X
                  S     39 13.90
KIC     44.97 311 P     43 02.61   0.2
       0.5s     9.00nm          4.9mb
LIC     45.07 311 P     43 03.27   0.1
       0.5s     3.50nm          4.5mb
TIC     45.37 311 P     43 05.61   0.0
       0.5s    26.50nm          5.5mb
KDS     54.52 310 iP    44 15.30  -0.3
GBA     62.68  57 Pd    45 10.60  -1.9
       0.8s     3.00nm          4.6mb
OHR     67.25 355 eP    45 43.00   1.2X
EPF     73.27 340 eP    46 18.70   0.3
       0.8s     8.35nm          4.9mb
CAF     74.48 342 eP    46 25.70   0.4
       1.2s    22.30nm          5.1mb
MAF     75.53 342 eP    46 32.00   0.7
SMF     75.59 343 eP    46 31.70   0.1
       1.0s     8.20nm          4.8mb
AVF     75.85 343 eP    46 33.40   0.3
       0.9s     9.65nm          4.9mb
BSF     76.00 346 eP    46 34.10   0.0
       0.9s     5.10nm          4.6mb
LOR     76.16 344 eP    46 34.80  -0.1
       0.6s     3.95nm          4.7mb
CDF     76.44 346 eP    46 36.30  -0.2
       0.8s     4.55nm          4.6mb
MFF     76.65 341 eP    46 38.20   0.6
       0.9s    13.25nm          5.0mb
GRF     76.92 349 eP    46 40.00   0.9X
EKA     85.33 343 Pd    47 26.30   3.1X
       0.8s     1.40nm          4.2mb
CNCB    87.43 253 P     47 35.00  -0.1
                  i     47 54.00
LPB     87.65 253 P     47 36.00   0.0
LPAZ    87.79 253 P     47 35.90  -1.0
                  i     47 54.50
WRA     95.55 115 P     48 12.10  -0.1
       0.8s     0.20nm          3.6mb X
     S.D. = 0.7  on  30 of  38 obs.
-------------------------------------
&  OCT  26, 1993  04h 51m 44.23s
   34.930 N          116.928 W
   DEPTH =   0.0km
 SOUTHERN CALIFORNIA               ( 43)
      <PAS-P>. ML 3.0 (PAS). Felt.

GSC      0.38  15 iPd   51 51.86   0.0
SSK      0.96 222 iPd   52 02.29  -1.1
                  eS    52 14.98
PEC      1.05 191 ePd   52 03.93  -1.1
                  eS    52 16.35
ISA      1.46 301 eP    52 10.53  -1.4
PLM      1.57 178 eP    52 12.81  -0.9
ABL      1.89 268 eP    52 16.73  -1.5
TPNV     2.09  15 ePn   52 20.06  -1.0
                  eS    52 52.09
GLA      2.56 136 ePn   52 24.62  -3.1
                  ePg   52 31.48
BONR     3.22 340 (Pn)  52 36.85  -0.4
                  ePg   52 45.11
         9 obs. associated
-------------------------------------
*  OCT  26, 1993  05h 05m 04.62± 1.80s
   32.502 S ± 9.6km   71.634 W ±17.2km
   DEPTH =  33.0km  (normal)
 NEAR COAST OF CENTRAL CHILE       (135)
      MD 3.8 (SAN).

ROCH     0.70 132 iPd   05 17.66  -0.7
                  iS    05 32.66
JACH     0.90 102 iP+   05 19.65  -1.3
                  iS    05 34.63
LCCH     0.97 177 iPd   05 21.34  -0.6
                  iS    05 37.76
PEL      1.02 129 iP    05 22.73   0.0
                  iS    05 40.34
TACH     1.29 153 iP+   05 27.42   1.0
                  iS    05 47.69
FCH      1.40 126 iPd   05 28.65   0.3
                  iS    05 50.84
PCH      1.46 140 iP    05 29.51   0.5
                  iS    05 53.19
LNV      1.46 173 iPd   05 27.88  -1.0
CACH     1.83 152 iP    05 35.72   1.3
RTRS     2.98  39 eP    05 51.00   0.4
                  S     06 28.00
     S.D. = 1.0  on  10 of  10 obs.
-------------------------------------
&  OCT  26, 1993  05h 06m 33.95s
   37.879 N          122.282 W
   DEPTH =   4.8km
 CENTRAL CALIFORNIA                ( 39)
      <GM-P>. MD 2.6 (GM). ML 2.5
      (BRK). Felt at Albany,
      Berkeley, El Cerrito, El
      Sobrante, Kensington, Oakland
      and Richmond.

BKS      0.04  94 iPd   06 35.00  -0.3
                  iS    06 36.17
ZSP      0.07  17 iPd   06 34.90  -0.8
                  iS    06 36.10
PCC      0.39 192 iPd   06 41.95   0.2
                  iS    06 47.49
STAN     0.48 170 iPd   06 44.00   0.4
                  eS    06 45.20
MHC      0.74 136 iPc   06 48.66  -0.1
GCC      0.88 165 iP    06 50.39  -0.9
SAO      1.30 149 iP    06 56.32  -2.1
CMB      1.51  83 eP    07 00.26  -1.5
PRS      1.71 154 iP    07 02.83  -1.7
ORV      1.78  20 (P)   07 03.47  -2.2
                  eS    07 22.05
PRI      2.16 143 iP    07 09.23  -2.1
        11 obs. associated
-------------------------------------
?  OCT  26, 1993  07h 01m 49.06± 5.99s
   15.641 N ±49.3km   99.275 W ±20.9km
   DEPTH =  33.0km  (normal)
 OFF COAST OF GUERRERO, MEXICO     ( 65)

ACX      1.34 335 iPd   02 12.14   0.5
                  iS    02 24.48
III      2.73 356 iP    02 30.52  -1.1
                  iS    02 57.00
OXX      2.84  59 (P)   02 32.83  -0.4
                  (S)   03 07.35
PPM      3.46  10 iP    02 42.00  -0.5
IIA      3.54   9 iP    02 42.81  -0.2
                  (S)   03 16.46
CRX      3.76 354 (P)   02 54.20   7.7X
IISM     3.79  28 (P)   02 47.50   1.0
MRX      4.43 336 iP    02 59.93   4.2X
                  iS    03 40.52
     S.D. = 1.0  on   6 of   8 obs.
-------------------------------------
?  OCT  26, 1993  07h 02m 00.17± 3.40s
   37.357 S ±12.2km  179.261 E ±29.0km
   DEPTH =  33.0km  (normal)
   3.4mb (  1 obs.)
 OFF E. COAST OF N. ISLAND, N.Z. (160)
      ML 4.1 (WEL).

HBZ      0.80 252 Pc    02 15.00   0.0
                  eS    02 23.70
PUZ      1.07 228 Pc    02 20.90   2.0
                  S     02 32.20
NOZ      1.59 217 P     02 28.40   2.1
WIZ      1.66 263 eP    02 25.70  -1.6
```

26d 07h

```
URZ      1.93 241 P      02 32.00   0.8
                  eS     02 52.00
PAHZ     2.30 229 eP     02 37.20   0.7
TAZ      2.35 247 eP     02 37.90   0.7
PATZ     2.59 246 P      02 41.40   0.7
KUZ      2.90 281 P      02 44.00  -1.0
                  eS     03 11.80
TTH      2.90 220 eP     02 45.50   0.5
TEHZ     3.25 215 eP     02 48.80  -1.3
WAHZ     3.27 223 eP     02 49.20  -1.1
NGZ      3.41 237 P      02 51.80  -0.6
CNZ      3.45 237 P      02 52.60  -0.5
MOZ      3.71 251 P      02 56.90   0.4
PGZ      4.00 215 eP     02 58.30  -2.4
BSZ      4.18 233 eP     03 02.70  -0.5
MNG      4.39 221 eP     03 03.00  -3.3X
OUZ      5.05 293 P      03 16.00   0.5
WRA     42.64 281 P      09 55.80   0.6
         0.6s     0.50nm          3.4mb
      S.D. = 1.2  on  19 of  20 obs.
-------------------------------------
*  OCT  26, 1993  07h 09m 31.53± 0.92s
    5.898 S ± 7.5km  146.089 E ±10.7km
   DEPTH =  10.0km  (geophysicist)
   3.4mb (  1 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY     0.36 199 iPc    09 39.10   0.1
MDG      0.71 334 iPc    09 45.50  -0.1
LAT      1.19 130 eP     09 54.00   0.4
MNDI     2.43 264 eP     10 16.50   4.4X
WWKK     3.34 312 eP     10 28.90   4.0X
PMG      3.64 163 eP     10 28.80  -0.7
WR2     18.03 218 eP     13 44.20   0.3
         0.8s     2.80nm          3.4mb
      S.D. = 0.6  on   5 of   7 obs.
-------------------------------------
   OCT  26, 1993  07h 17m 04.78± 0.22s
   13.801 N ± 3.5km  120.715 E ± 4.3km
   DEPTH = 125.6km  (  3 depth phases)
   5.1mb ( 47 obs.)
 MINDORO, PHILIPPINE ISLANDS      (250)

QCP      0.90  23 eP     17 28.00   1.4
BAG      2.60 357 ePc+   17 46.30  -0.5
         0.8s   574.63nm
                  iS     18 18.00
KKM      8.89 210 ePd    19 20.00   8.2X
TSM      9.85 197 ePc    19 29.00   4.4X
QZH     11.26 350 eP     19 42.40  -0.7
QIZ     11.65 298 Pc     19 48.40   0.1
         0.8s   110.00nm          5.6mb
      N  15s     1.23um
                   S     21 51.40
SSE     17.22   1 iPc    20 59.50   0.5
         1.0s    32.00nm          4.6mb
GYA     18.22 316 iPc    21 11.60   0.5
         1.0s    36.00nm          4.6mb
                   S     24 34.00
NJ2     18.25 355 Pd     21 11.40   0.2
         1.4s   100.00nm          4.9mb
                   S     24 28.00
LOE     18.63 284 eP     21 14.80  -0.7
KAGJ    19.67  27 P      21 26.20  -0.1
NST     19.99 278 eP     21 30.50   0.9
KMI     20.32 306 Pc     21 36.50   3.2X
         1.6s    50.00nm          4.6mb
KGM     20.81 237 ePd    21 37.50  -0.4
KUMJ    20.81  25 P      21 38.20   0.4
SNG     20.82 254 eP     21 39.00   1.0
CHTO    21.47 286 iPd    21 45.20   0.6
         0.9s    26.64nm          4.6mb
SHNJ    22.32  23 eP     21 53.50   0.8
TIA     22.55 352 Pd     21 55.80   0.9
         0.8s   120.00nm          5.3mb
XAN     22.81 334 Pc     21 57.50  -0.1
         0.5s    90.00nm          5.4mb
CD2     23.09 320 eP     22 00.30   0.0
         1.0s   190.00nm          5.4mb
      E  15s     0.53um
                  eS     26 02.50
TKSJ    23.45  29 eP     22 05.10   1.4
YONJ    24.20  26 P      22 11.80   0.9
KLI     24.32 221 eP     22 15.00   2.8
WKYJ    24.39  31 eP     22 14.00   1.2
TIY     24.93 344 Pc     22 17.50  -0.3
         1.0s    96.00nm          5.2mb
      Z  20s     0.37um          3.9Msz
DL2     25.02   2 eP     22 18.50   0.0
TSRJ    25.64  30 eP     22 24.90   0.6
BJI     26.44 352 eP     22 31.50  -0.1
         1.5s    96.00nm          5.2mb
LZH     26.87 329 iPc    22 36.30   0.6
         1.5s   200.00nm          5.5mb
      Z  14s     0.30um          4.0MszX
      N  14s     0.49um
                   S     27 02.50
SNY     28.04   5 Pc     22 44.90  -1.1
HHC     28.11 345 P      22 46.50  -0.3
         1.4s    97.00nm          5.3mb
BTO     28.29 343 P      22 47.60  -0.9
SHL     29.49 298 iP     22 58.80  -0.7
                  eS     27 40.00
CN2     30.17   7 eP     23 03.40  -1.6
GTA     31.46 328 iPc    23 16.50  -0.1
         1.5s   130.00nm          5.5mb
      Z  16s     0.57um          4.3MszX
                   S     28 14.00
                  ScP    29 37.50
LSA     31.56 305 P      23 18.80   0.8
         0.6s     6.00nm          4.5mb
                  iS     28 17.00
MDJ     31.63  12 eP     23 17.40  -0.4
         0.8s    19.00nm          4.9mb
MBL     34.75 181 iPc    23 44.20  -0.7
         0.3s    23.00nm          5.5mb
KUSJ    35.76  31 eP     23 53.70   0.5
WRA     36.11 158 P      23 55.70  -0.8
WR2     36.13 158 iPd    23 55.20  -1.4
         0.6s    12.70nm          4.9mb
                   i     24 23.30 124km
                  eS     29 21.40
ZAK     39.15 342 iPc    24 22.00   0.5
         0.7s    44.00nm          5.3mb
ASPA    39.41 161 eP     24 23.50  -0.5
         1.0s    12.00nm          4.6mb
                  ipP    24 52.40 128km
                  iS     30 11.40
WARB    40.16 172 eP     24 30.00  -0.1
         0.4s    10.00nm          4.9mb
HYB     40.71 281 eP     24 32.00  -2.8X
WMQ     41.13 323 P      24 39.60   1.6
         1.0s    35.00nm          5.0mb
GBA     42.00 275 Pd     24 46.00   0.6
         0.8s     5.00nm          4.3mb
CTA     42.02 143 iPd    24 46.50   1.1
         1.0s     5.00nm          4.2mb
FORT    44.88 171 eP     25 08.50   0.1
                   e     26 48.00 542kmX
POO     45.16 282 eP     25 13.50   2.6X
KSH     46.82 312 eP     25 26.00   2.2
         1.0s    90.00nm          5.5mb
FRU     48.99 315 eP     25 41.00   0.5
         1.0s    50.00nm          5.3mb
STK     49.64 157 eP     25 44.70  -0.8
         1.4s     3.40nm          4.0mb X
DZM     57.28 128 iPd    26 43.10   1.2
TIK     58.02   3 ePc    26 44.00  -2.2
         1.2s    70.00nm          5.5mb
                   i     26 49.00  16kmX
MAIO    58.83 304 iPc    26 52.40  -0.2
         0.8s    23.79nm          5.3mb
NRI     59.25 347 ePc    26 52.00  -2.8X
         1.0s    64.00nm          5.6mb
                   e     27 40.00 210kmX
ASH     59.91 306 eP     27 00.00   0.2
SVE     62.32 327 iPc    27 15.00  -0.7
         1.4s   120.00nm          5.7mb
ARU     63.28 327 ePc    27 21.00  -1.0
         0.8s    70.00nm          5.6mb
ILT     66.42  21 iPc    27 41.70  -0.4
         0.7s   104.00nm          5.9mb
ANM     70.73  26 eP     28 09.89   1.1
PYA     71.70 312 eP     28 14.00  -1.0
BRW     74.63  19 eP     28 32.42   0.9
OBN     75.45 324 iPc    28 35.00  -1.4
         0.7s    61.00nm          5.5mb
IMA     75.71  25 iPc    28 38.42   0.5
         0.7s    15.24nm          4.9mb
CP2     76.60  30 eP     28 43.37   0.3
CRP     76.64  30 eP     28 43.16  -0.1
SLKM    77.65  30 eP     28 47.86  -0.8
PMR     78.06  29 eP     28 50.25  -0.5
         0.4s    18.12nm          5.2mb
FBA     78.25  26 eP     28 51.33  -0.5
         0.7s    10.41nm          4.7mb
KLU     79.59  29 eP     28 59.55   0.3
KAF     79.97 332 iP     29 00.30  -0.8
         0.5s     8.50nm          4.8mb
CSY     80.22 184 eP     29 12.40  10.2X
         0.8s    11.00nm
NUR     81.07 330 eP     29 06.40  -0.5
         0.5s     5.70nm          4.6mb
VRI     82.97 315 ePc    29 17.00  -0.1
                  ed     42 04.50
INK     83.00  21 eP     29 17.00   0.2
         1.0s    14.00nm          4.8mb
MBC     83.45  12 eP     29 20.00   1.0
         0.9s    11.00nm          4.7mb
MLR     83.59 315 ePd    29 21.00   0.6
UPP     84.63 330 iP     29 24.40  -0.7
                   i     29 56.50 125km
UZH     85.24 319 iPc    29 29.00   0.6
         1.0s    77.00nm          5.5mb
OJC     86.36 321 iP     29 34.20   0.2
HFS     86.39 331 eP     29 32.70  -1.2
         0.7s    16.70nm          5.1mb
      Z  15s     0.04um          3.9MszX
                  LR     02 10.00
DAG     86.53 351 iPc    29 32.80  -1.5
         0.4s     8.47nm          5.1mb
NB2     87.18 333 P      29 36.40  -1.3
         0.7s     8.40nm          4.8mb
NAO     87.44 333 P      29 36.02  -2.9X
KSP     88.29 322 eP     29 41.50  -1.7
                  ic     29 43.00   5kmX
                   e     30 24.00
RES     88.93   9 eP     29 46.00   0.2
         0.9s     8.00nm          4.8mb
BRG     89.67 323 eP     29 49.80   0.1
         1.1s    21.00nm          5.1mb
CLL     90.06 323 eP     29 51.00  -0.5
KHC     90.53 321 eP     29 53.50  -0.3
YKA     92.68  22 eP     30 03.70   0.3
         0.7s     3.80nm          4.8mb
      S.D. = 0.9  on  85 of  93 obs.
-------------------------------------
?  OCT  26, 1993  07h 20m 55.67± 2.61s
   50.205 N ±22.0km    8.105 E ±10.5km
   DEPTH =  10.0km  (geophysicist)
 GERMANY                          (543)
      ML 2.0 (BNS).

ABH      0.48 228 ePg    21 05.60   0.1
BGG      0.49 270 iPgc   21 05.70   0.0
         0.1s   147.00nm
                  Sg     21 11.80
TOD      0.75 143 ePg    21 10.40   0.0
RUP      0.84 234 ePg    21 11.80  -0.2
      S.D. = 0.2  on   4 of   4 obs.
-------------------------------------
*  OCT  26, 1993  07h 43m 13.08± 0.91s
    5.859 S ± 7.4km  145.788 E ±13.1km
   DEPTH =  10.0km  (geophysicist)
   3.7mb (  1 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY     0.42 155 iPc    43 22.40   0.7
                  eS     43 28.80
MDG      0.60 359 eP     43 25.40   0.1
LAT      1.45 124 eP     43 39.10  -0.2
PMG      3.78 159 ePd    44 12.00  -0.6
WR2     17.87 217 eP     47 23.60   0.0
         0.6s     3.50nm          3.7mb
      S.D. = 0.7  on   5 of   5 obs.
-------------------------------------
   OCT  26, 1993  08h 16m 31.40± 0.95s
   39.354 N ± 9.2km   21.525 E ± 6.8km
   DEPTH =  10.0km  (geophysicist)
 GREECE                           (364)
      ML 2.4 (THE).

AGG      0.71 118 ePg    16 45.50   0.1
                  eSg    16 57.30
IGT      0.94 281 ePg    16 49.18  -0.2
                  eSg    17 04.06
LIT      1.05  45 ePb    16 51.30   0.0
                  eSb    17 07.38
FNA      1.43 355 ePb    16 57.86   0.4
                  eSb    17 17.58
OHR      1.84 343 ePn    17 03.50   0.2
```

```
KNT      2.09  30 ePn   17 06.38  -0.5
     S.D. = 0.4  on   6 of   6 obs.
-------------------------------------
?  OCT  26, 1993  08h 49m 37.18± 0.98s
   39.109 N ±10.0km   27.698 E ±11.6km
   DEPTH =  33.0km  (normal)
 TURKEY                              (366)
      ML 2.8 (ISK).

IZM      0.79 206 ePg   49 51.90   0.0
                  eSg   50 04.40
DST      0.88  55 ePn   49 53.10  -0.1
EDC      1.24   6 ePn   49 58.40   0.1
EZN      1.28 304 iPn   49 58.80  -0.1
     S.D. = 0.1  on   4 of   4 obs.
-------------------------------------
%  OCT  26, 1993  09h 05m 44.70± 0.67s
   31.391 S ± 9.5km   67.776 W ± 5.5km
   DEPTH =  10.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA     (137)

CFA      0.45 241 iPc   05 54.00   0.1
                  S     05 59.90
RTLL     0.60 276 iPd   05 56.00  -0.8
RTCV     0.80 234 eP    06 00.00  -0.3
RTPR     1.54  45 eP    06 11.50  -0.6
                  S     06 31.00
RTRS     1.89 310 iPd   06 18.50   1.2
                  S     06 44.00
MRA      2.03 121 e(P)d 06 20.00   0.7
                  S     06 48.60
TCA      2.73  90 eP    06 29.10  -0.3
                  (S)   07 08.00
RFA      3.42 190 ePc   06 31.50  -7.7X
                  S     07 32.00
     S.D. = 0.9  on   7 of   8 obs.
-------------------------------------
*  OCT  26, 1993  09h 11m 10.50± 0.91s
    5.881 S ± 7.5km  146.029 E ±11.6km
   DEPTH =  10.0km  (geophysicist)
   3.6mb (  1 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY     0.36 189 eP    11 18.60   0.6
                  eS    11 24.00
MDG      0.67 338 eP    11 24.00   0.1
LAT      1.24 129 iPd   11 33.80   0.2
WWKK     3.28 313 eP    12 07.70   4.6X
PMG      3.68 162 eP    12 08.00  -0.6
WR2     18.00 218 eP    15 22.30  -0.3
ASPA    21.19 212 eP    16 01.60   3.0X
       1.6s     4.10nm          3.6mb
     S.D. = 0.7  on   5 of   7 obs.
-------------------------------------
%  OCT  26, 1993  09h 13m 35.38± 3.07s
   39.148 N ±25.0km   27.593 E ± 9.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      ML 2.8 (ISK).

DST      0.92  60 ePn   13 53.10   0.0
EZN      1.19 305 iPn   13 57.90   0.3
EDC      1.22  10 ePn   13 58.40   0.4
BNT      1.23  12 ePn   13 58.50   0.2
MFT      1.65 352 ePn   14 03.70  -0.9
     S.D. = 0.8  on   5 of   5 obs.
-------------------------------------
%  OCT  26, 1993  09h 16m 19.07± 0.85s
   39.691 N ± 7.1km   29.481 E ± 7.8km
   DEPTH =   5.0km  (geophysicist)
 TURKEY                              (366)
      ML 2.8 (ISK).

DST      0.66 263 ePg   16 32.60   0.2
                  eSg   16 43.10
ALT      0.80 142 ePg   16 35.00  -0.2
                  eSg   16 47.00
EYL      1.02  30 ePn   16 39.50   0.7
HRT      1.14   7 ePn   16 40.50  -0.4
ISK      1.41 347 ePn   16 45.00  -0.4
     S.D. = 0.6  on   5 of   5 obs.
-------------------------------------
   OCT  26, 1993  09h 19m 16.59± 0.26s
    5.622 S ± 4.7km  133.785 E ± 5.8km
   DEPTH =  33.0km  (normal)
   4.9mb ( 13 obs.)
 ARU ISLANDS REGION, INDONESIA    (204)

SWI      5.36 332 ePd   20 34.50  -1.8
                  eS    21 30.50
MTN      7.64 200 iPc   21 08.70   0.2
       0.3s   476.00nm          7.0mb X
WWKK    10.01  79 eP    21 39.10  -2.1
KNA     11.20 206 iPd   21 55.60  -2.0
       0.3s   155.00nm          6.7mb X
                  iS    23 54.50
PMG     13.78 107 eP    22 31.50  -0.5
WR2     14.25 178 eP    22 32.90  -5.3X
       0.3s    71.70nm          5.8mb
                  eS    25 01.60
QIS     15.89 160 eP    22 56.00  -3.5X
                  eS    25 45.00
ASPA    17.94 180 iPc   23 21.90  -3.4X
     Z  19s     0.90um
                  epP   23 27.40
                  eS    26 31.90
CTA     18.81 141 iPc   23 37.00   1.0
       1.0s    17.50nm          4.2mb
     Z  18s     8.93um          4.8MszX
                  i     23 43.00
                  iS    28 48.00
                  e(ScS)34 12.00
MBL     20.53 220 eP    23 53.90  -1.0
       0.6s    28.00nm          4.8mb
                  eS    27 32.50
KKM     21.02 303 ePc   24 07.00   6.9X
       0.9s   103.30nm          5.2mb
WARB    21.56 198 iPd   24 05.80   0.4
       0.4s    19.00nm          4.9mb
BAG     25.49 329 ePc   24 43.00  -0.9
FORT    25.60 191 eP    24 44.50  -0.1
LEM     26.04 266 iPd   24 52.20   3.2X
STK     27.13 165 iPd   24 58.60   0.0
       0.9s    10.60nm          4.5mb
                  eS    29 48.90
ADE     29.55 172 eP    25 19.20  -1.4
ARMA    29.84 148 iPd   25 23.30   0.0
       0.6s     8.00nm          4.7mb
KGM     31.36 283 eP    25 36.50  -0.2
TOO     33.55 163 eP    26 07.70  12.1X
       0.9s    22.00nm
                  e     27 12.90
                  e     27 46.90
DZM     35.55 121 iPc   26 13.50   0.4
LOE     39.06 306 iPc   26 41.70  -0.8
NST     39.47 303 iPc   26 46.20   0.3
GYA     41.33 322 iPd   27 01.60   0.4
       0.8s    18.00nm          4.9mb
CHTO    42.05 306 iPc   27 07.50   0.4
       1.3s    38.40nm          5.0mb
XAN     45.92 331 P     27 38.00  -0.2
       1.0s     8.90nm          4.6mb
CD2     46.30 323 eP    27 41.00  -0.2
TIY     47.48 337 eP    27 50.10  -0.4
BJI     48.25 342 eP    28 12.00  15.7X
LZH     50.10 328 iPc   28 11.50   0.7
       1.0s    22.00nm          5.1mb
                  pP    28 19.50  27kmX
                  sP    28 24.00
LSA     53.91 313 P     28 40.00   0.1
GTA     54.70 328 eP    28 45.40   0.3
       1.0s     8.00nm          4.7mb
                  pP    28 55.00  31kmX
                  sP    28 58.50
GBA     59.10 289 P     29 17.00   0.4
CSY     62.69 190 iPc   29 51.40  11.2X
       0.6s     8.00nm
POO     63.75 294 eP    29 48.00   0.0
WMQ     64.38 325 P     29 52.60   0.9
       1.0s    21.00nm          5.2mb
BSF    118.39 322 ePKP  38 02.30  -0.3
       0.6s     3.50nm
LPG    119.39 320 ePKP  38 04.90   0.0
LPL    119.40 320 ePKP  38 05.50   0.7
       0.6s     3.95nm
LBF    120.48 322 ePKP  38 06.50   0.0
       0.6s     3.45nm
SMF    120.72 322 ePKP  38 07.30   0.3
SSF    120.73 323 ePKP  38 07.20   0.3
       0.6s     4.80nm
AVF    120.95 322 ePKP  38 07.10  -0.3
       0.8s     5.10nm
BGF    121.36 322 ePKP  38 09.10   0.9
       0.7s     6.50nm
TCF    121.88 322 ePKP  38 09.60   0.4

       0.7s     4.50nm
MFF    123.13 324 ePKP  38 11.60   0.1
       0.6s     5.50nm
YJA    146.54 146 ePKPc 38 58.50   2.4
ARE    146.73 132 ePKP  39 00.00   3.6X
MOCB   147.19 145 PKP   38 58.90   1.7
CNCB   149.02 136 iPKPd 39 07.00   6.6X
LPB    149.13 136 PKP   39 07.20   6.8X
LPAZ   149.27 135 PKP   39 06.50   5.7X
CCH    149.84 140 PKP   39 08.00   6.7X
     S.D. = 0.9  on  40 of  53 obs.
-------------------------------------
&  OCT  26, 1993  09h 24m 07.36s
   34.947 N          116.652 W
   DEPTH =   6.0km  (geophysicist)
 SOUTHERN CALIFORNIA                 ( 43)
      <PAS-P>. ML 4.0 (PAS), 3.9 (GS).
      Felt (IV) at Newberry Springs
      and (III) at Baker. Also felt in
      the Barstow area.

GSC      0.38 341 iPd   24 14.80  -0.1
SSK      1.13 230 ePc   24 28.02  -1.0
PEC      1.13 202 iPd   24 27.96  -1.0
                  eS    24 42.87
RCWM     1.29 321 P     24 30.19  -1.5
WBSM     1.35 296 P     24 31.12  -1.8
WCHM     1.49 309 P     24 33.10  -1.9
WORM     1.50 300 P     24 33.02  -1.9
PLM      1.60 186 ePd   24 35.10  -1.3
BMTC     1.61 277 P     24 34.59  -1.9
ISA      1.65 296 ePc   24 35.13  -1.9
ARVC     1.80 276 P     24 37.18  -1.9
WLHM     1.81 312 P     24 37.97  -1.6
PLEC     1.98 271 P     24 44.59   2.7
TPNV     2.02   9 ePd   24 40.86  -1.7
ABL      2.11 268 eP    24 41.45  -2.5
MARC     2.21 272 P     24 43.49  -1.6
GLA      2.42 141 ePn   24 44.06  -4.1
PKM      2.60 270 P     24 49.09  -1.8
SYP      2.77 262 P     24 51.49  -1.8
BCH      2.83 276 eP    24 51.32  -2.7
MTUM     2.86 328 ePn   24 53.03  -1.5
SCCM     2.89 271 P     25 00.23   5.4
PKEM     3.03 293 (Pn)  24 54.49  -2.3
                  ePg   25 02.52
PHBM     3.08 296 P     24 56.59  -0.9
MRCM     3.10 332 ePn   24 56.01  -2.0
                  ePg   25 05.73
TNP      3.16 352 ePn   24 57.14  -1.7
CTM      3.17 289 P     25 05.67   6.9
PHAM     3.19 287 ePnc  24 57.02  -2.0
MCSM     3.26 327 P     25 07.65   7.4
MMPM     3.28 325 (Pn)  24 59.40  -1.2
                  ePg   25 07.38
BONR     3.28 337 ePn   24 59.52  -1.1
MEMM     3.28 326 (Pn)  24 57.44  -2.9
                  ePg   25 07.65
PRCM     3.49 293 P     25 02.00  -1.3
BMSM     3.77 298 P     25 05.55  -1.9
ARUT     3.84  41 ePn   25 06.78  -1.7
BRMM     3.88 300 P     25 18.12   9.3
LTR      4.24 298 P     25 11.63  -2.4
SAO      4.29 296 ePn   25 12.02  -2.7
CMB      4.31 317 ePn   25 13.69  -1.2
ARN      4.62 303 eP    25 16.60  -2.8
COE      4.67 301 eP    25 17.53  -2.6
CVAL     4.91 304 P     25 21.62  -1.9
MSU      5.06  44 ePnd  25 24.29  -1.5
                  ePg   25 39.37
HMR      5.24 309 eP    25 26.20  -1.8
JEGM     5.35 300 eP    25 26.26  -3.4
NTYM     5.93 307 eP    25 34.73  -3.0
DUG      6.06  29 ePn   25 37.68  -2.1
                  ePg   26 00.05
SRU      6.43  48 (Pn)  25 42.88  -2.2
                  ePg   26 04.49
EMUT     6.72  42 (Pn)  25 47.46  -1.8
                  ePg   26 11.35
DAU      6.93  37 (Pn)  25 49.70  -2.6
                  ePg   26 14.55
PV09     7.00  57 eP    25 52.32  -0.9
PV10     7.01  59 (P)   25 51.94  -1.4
HVU      7.47  23 (Pn)  25 56.45  -3.2
                  ePg   26 26.98
LBFM     7.60 329 (P)   26 01.11  -0.5
ALQ      8.37  87 ePn   26 09.81  -2.5
```

26d 09h

```
                    ePg   26 41.46
        55 obs. associated
-------------------------------------
%  OCT  26, 1993  09h 28m 10.17± 0.92s
   39.205 N ± 7.6km   27.719 E ± 9.1km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      ML 2.8 (ISK).

DST      0.81  60 ePg   28 25.60  -0.3
IZM      0.88 204 ePg   28 27.30   0.2
EDC      1.15   6 ePn   28 32.40   0.8
BNT      1.16   8 ePn   28 31.50  -0.3
EZN      1.24 300 ePn   28 32.90  -0.4
     S.D. = 0.7  on   5 of   5 obs.
-------------------------------------
?  OCT  26, 1993  09h 29m 10.58± 1.30s
   31.228 S ±35.5km   68.459 W ±27.6km
   DEPTH = 100.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA      (137)

RTLL     0.10 185 iPd   29 25.00  -0.1
                  S     29 35.20
RTCB     0.39 228 iPd   29 26.00   0.0
                  S     29 37.70
CFA      0.42 154 ePc   29 26.10   0.0
                  S     29 38.00
RTPR     1.91  62 eP    29 42.50   0.0
                  S     30 06.30
     S.D. = 0.1  on   4 of   4 obs.
-------------------------------------
%  OCT  26, 1993  09h 35m 55.04± 1.35s
   41.429 N ±11.6km   29.320 E ± 7.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      ML 3.1 (ISK).

ISK      0.41 208 ePg   36 03.50   0.0
CTT      0.73 248 iPg   36 09.50   0.2
EYL      1.07 143 ePn   36 15.40   0.1
DMK      1.24 289 iPn   36 18.00   0.0
GPA      1.36 146 iPn   36 20.00  -0.1
EDC      1.55 226 ePn   36 22.40  -0.2
     S.D. = 0.2  on   6 of   6 obs.
-------------------------------------
   OCT  26, 1993  09h 53m 20.13± 1.17s
   38.461 S ± 5.7km  175.897 E ± 5.4km
   DEPTH = 200.8 ± 11.8 km
 NORTH ISLAND, NEW ZEALAND           (159)

PATZ     0.29  75 P     53 46.50  -0.4
UTU      0.37  39 P     53 46.70  -0.3
TAZ      0.53  65 P     53 47.00  -0.5
WLZ      0.64 338 P     53 48.50   0.4
                  S     54 06.60
NGZ      0.75 198 P     53 48.50  -0.4
CNZ      0.79 200 P     53 48.70  -0.4
MOZ      0.86 267 Pc    53 49.80   0.5
                  S     54 09.60
URZ      0.97  79 Pc    53 49.00  -1.0
                  S     54 07.10
PAHZ     0.99 114 Pc    53 50.10  -0.1
WAHZ     1.29 164 Pc    53 52.80   0.4
TTH      1.30 146 P     53 52.80   0.4
BSZ      1.53 209 P     53 55.20   0.7
TEHZ     1.68 155 P     53 56.40   0.5
NOZ      1.69  96 P     53 56.00   0.1
MAHZ     1.71 116 P     53 56.80   0.6
KUZ      1.72 355 P     53 57.00   0.8
                  S     54 22.10
PUZ      1.90  79 P     53 57.60  -0.4
                  S     54 22.10
PGZ      2.18 172 P     54 01.10   0.3
MNG      2.18 188 Pc    54 01.30   0.4
KIW      2.52 197 Pc    54 04.80   0.2
MTW      2.71 186 P     54 06.50  -0.4
CAW      2.72 193 P     54 07.00   0.0
DIW      2.79 212 P     54 07.80   0.0
MRW      2.92 198 P     54 09.10  -0.1
                  S     54 43.70
BLW      2.92 186 P     54 09.00  -0.3
TCW      3.02 204 P     54 10.40   0.0
QRZ      3.51 227 eP    54 15.40  -1.0
KHZ      4.34 204 P     54 26.80   0.1
                  S     55 14.50
     S.D. = 0.5  on  28 of  28 obs.
-------------------------------------
?  OCT  26, 1993  09h 55m 55.78± 4.48s
   40.610 N ±37.4km   22.977 E ± 7.6km
   DEPTH =  10.0km  (geophysicist)
 GREECE                              (364)
      ML 1.4 (THE).

THE      0.02 338 ePg   55 57.50  -0.2
                  eSg   55 58.44
SOH      0.36  53 ePg   56 02.96  -0.2
KNT      0.55 354 ePg   56 06.88  -0.2
                  eSg   56 14.40
GRG      0.56 309 ePg   56 07.32   0.2
                  eSg   56 15.40
SRS      0.69  42 ePg   56 09.68   0.3
     S.D. = 0.3  on   5 of   5 obs.
-------------------------------------
*  OCT  26, 1993  10h 11m 26.27± 0.94s
    5.855 S ± 7.7km  145.831 E ±14.2km
   DEPTH =  10.0km  (geophysicist)
   3.7mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY     0.41 160 iPc   11 35.70   1.0
                  eS    11 42.00
MDG      0.60 355 eP    11 38.70   0.3
LAT      1.42 125 eP    11 51.60  -0.4
MNDI     2.18 262 eP    12 10.00   6.7X
WWKK     3.12 315 eP    12 22.30   5.8X
PMG      3.77 160 eP    12 25.00  -0.7
WR2     17.90 217 eP    15 36.90  -0.2
         0.7s     4.40nm          3.7mb
                  eS    18 28.50
ASPA    21.11 212 eP    16 17.70   4.2X
         1.2s     4.20nm          3.7mb
     S.D. = 1.0  on   5 of   8 obs.
-------------------------------------
   OCT  26, 1993  10h 21m 26.59± 0.32s
   44.309 N ± 2.4km    7.308 E ± 3.0km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                      (545)
      ML 2.7 (LDG), 2.4 (GEN).

STV      0.07 170 P     21 29.78   0.8
                  S     21 31.52
ENR      0.12 136 P     21 30.33   0.7
                  S     21 32.39
PZZ      0.25 323 P     21 32.62   0.7
                  S     21 36.28
TOUF     0.30 188 Pg    21 33.05   0.1
AUTN     0.32 165 Pg    21 33.34  -0.1
                  Sg    21 37.47
SAOF     0.37 151 Pg    21 34.12  -0.1
ROB      0.40  92 P     21 35.18   0.3
                  S     21 40.35
AURF     0.42 178 Pg    21 35.24   0.0
                  Sg    21 40.64
MVIF     0.43 195 Pg    21 34.83  -0.5
                  Sg    21 40.55
SBF      0.45 168 Pg    21 36.00   0.1
                  Sg    21 41.80
BHB      0.53 357 P     21 36.74  -0.7
                  S     21 43.37
IMI      0.58 133 P     21 37.88  -0.5
                  S     21 45.02
CALN     0.63 209 Pg    21 39.21  -0.2
                  Sg    21 46.90
FIN      0.65  98 P     21 39.30  -0.4
                  S     21 47.45
RRL      0.72 329 P     21 40.93   0.1
                  S     21 50.41
FRF      0.89 213 Pg    21 43.30  -0.3
                  Sg    21 54.20
PCP      0.92  75 P     21 44.01  -0.1
                  S     21 55.62
LRG      1.09 219 Pg    21 47.20   0.1
                  Sg    22 01.90
LMR      1.13 211 Pg    21 47.70  -0.1
                  Sg    22 02.50
     S.D. = 0.4  on  19 of  19 obs.
-------------------------------------
%  OCT  26, 1993  10h 34m 47.45± 0.71s
   39.674 N ± 5.9km   29.475 E ± 6.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      ML 2.7 (ISK).

DST      0.66 264 ePg   35 00.50  -0.1
                  eSg   35 11.00
IZI      0.66 360 ePg   35 00.50  -0.2
                  eSg   35 10.50
ALT      0.79 141 ePg   35 02.90   0.0
                  eSg   35 14.40
EYL      1.03  30 ePn   35 07.00   0.0
HRT      1.16   7 ePn   35 09.50   0.4
EDC      1.41 299 ePn   35 13.40   0.3
ISK      1.43 347 ePn   35 13.00  -0.3
     S.D. = 0.3  on   7 of   7 obs.
-------------------------------------
&  OCT  26, 1993  10h 37m 42.41s
   33.194 N          115.566 W
   DEPTH =   3.8km
 SOUTHERN CALIFORNIA                 ( 43)
      <PAS-P>. ML 2.8 (PAS).

PLM      1.10 279 eP    38 01.50  -2.2
                  eS    38 15.89
PEC      1.50 298 (P)   38 08.60  -1.6
                  eS    38 27.76
SSK      2.04 300 eP    38 17.71  -0.5
GSC      2.34 334 eP    38 25.76   3.4
ISA      3.44 317 (Pn)  38 39.00   1.0
TPNV     3.79 352 (P)   38 48.41   5.4
TUC      4.12 101 eP    38 56.82   9.1
BCH      4.24 299 (P)   38 54.95   5.6
ARUT     4.90  20 (P)   39 09.75  10.9
BONR     5.25 336 (Pn)  39 09.31   5.5
MSU      5.98  26 ePn   39 22.67   8.6
        11 obs. associated
-------------------------------------
*  OCT  26, 1993  10h 39m 21.57± 0.89s
   38.646 S ±14.3km  175.325 E ±16.5km
   DEPTH = 231.9 ± 20.1 km
 NORTH ISLAND, NEW ZEALAND           (159)

BSZ      1.19 195 eP    39 57.20   1.1
WAHZ     1.32 143 P     39 58.50   1.4
PAHZ     1.37  99 P     39 58.10   0.6
URZ      1.45  75 P     39 57.20  -0.8
                  S     40 23.70
MNG      1.97 177 Pc    40 03.50   0.9
                  S     40 34.00
PGZ      2.10 160 P     40 04.60   0.8
NOZ      2.12  90 P     40 04.30   0.3
KIW      2.24 188 P     40 05.30   0.1
PUZ      2.37  77 eP    40 05.30  -1.3
                  S     40 39.10
DIW      2.41 206 P     40 07.10   0.1
CAW      2.47 185 Pc    40 08.00   0.4
MTW      2.51 177 P     40 08.10   0.1
HBZ      2.57  67 P     40 07.40  -1.2
MRW      2.63 190 P     40 09.40   0.2
                  S     40 45.00
TCW      2.69 197 P     40 09.60  -0.3
QRZ      3.06 224 P     40 12.50  -1.6
KHZ      4.01 199 P     40 24.60  -0.5
LTZ      4.74 208 P     40 32.50  -1.6
DZM     18.19 333 iPc   43 21.10   1.3
     S.D. = 1.0  on  19 of  19 obs.
-------------------------------------
*  OCT  26, 1993  10h 52m 46.98± 0.90s
    5.801 S ± 7.5km  146.007 E ±12.0km
   DEPTH =  10.0km  (geophysicist)
   3.5mb (  1 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY     0.44 185 iPc   52 56.50   0.5
MDG      0.59 338 eP    52 59.10   0.2
LAT      1.31 131 eP    53 11.20   0.0
MNDI     2.36 261 eP    53 33.50   6.9X
WWKK     3.21 312 eP    53 43.10   4.6X
PMG      3.76 162 eP    53 46.00  -0.3
WR2     18.05 218 eP    56 59.30  -0.4
         0.9s     3.20nm          3.5mb
     S.D. = 0.5  on   5 of   7 obs.
-------------------------------------
   OCT  26, 1993  11h 06m 23.90± 0.57s
   38.369 N ± 5.0km   21.097 E ± 4.7km
   DEPTH =   5.0km  (geophysicist)
 GREECE                              (364)
      ML 3.5 (ATH), 3.4 (THE).

VLS      0.44 245 iPbc  06 31.70  -1.1
                  eSb   06 39.20
AGG      1.16  56 ePb   06 45.32  -0.8
```

```
                 eSb    07 05.32
IGT     1.31 333 ePb    06 48.56    0.0
                 eSb    07 08.12
KEK     1.68 323 ePn    06 54.20    0.1
SRN     1.73 331 ePn    07 00.60    5.8X
LSK     1.82 348 ePn    06 55.70   -0.5
KZN     2.00  15 ePn    06 59.30    0.5
LIT     2.04  32 ePn    06 58.72   -0.6
TPE     2.10 337 ePn    06 54.50   -5.6X
ATH     2.10 100 ePn    06 59.80   -0.4
VLI     2.20 138 ePb    07 03.30    1.6
KBN     2.26 354 ePn    07 03.00    0.4
FNA     2.42   5 ePn    07 05.44    0.6
BERA    2.49 340 ePn    07 11.00    5.2X
PAIG    2.54  51 ePn    07 06.12   -0.3
THE     2.68  32 ePn    07 08.20   -0.3
OHR     2.75 355 iPn    07 10.50    1.0
                 i      07 15.90
                 i      07 44.00
                 i      07 54.70
                 Lg     08 06.50
GRG     2.77  21 ePn    07 10.00    0.2
OUR     2.98  48 ePn    07 12.21   -0.4
KNT     3.12  26 ePn    07 13.94   -0.7
TIR     3.12 343 ePn    07 19.50    4.8X
VAY     3.16  21 iPn    07 14.00   -1.2
SRS     3.35  34 ePn    07 18.32    0.3
LACI    3.43 342 ePn    07 24.00    4.9X
SKO     3.61   4 ePn    07 23.00    1.4
BCI     4.07 349 ePn    07 37.30    9.1X
     S.D. = 0.8  on  20 of  26 obs.
-----------------------------------------
?  OCT  26, 1993  11h 34m 17.37± 4.31s
   31.369 S ±21.8km    68.154 W ±26.9km
   DEPTH = 105.3 ± 46.8 km
 SAN JUAN PROVINCE, ARGENTINA      (137)

CFA     0.25 197 iPc    34 33.00    0.1
                 S      34 44.20
RTLL    0.27 278 e(P)   34 32.50   -0.5
                 (S)    34 44.00
RTCB    0.56 258 iPc    34 34.50    0.0
                 S      34 46.50
RTCV    0.59 214 eP     34 35.00    0.3
                 S      34 48.00
RTPR    1.77  53 eP     34 48.00    0.4
                 S      35 10.00
TCA     3.05  90 iP     35 04.40   -0.3
                 (S)    35 38.50
     S.D. = 0.6  on   6 of   6 obs
-----------------------------------------
   OCT  26, 1993  11h 38m 21.96± [illegible]
   38.477 N ± 2.6km    98.655 E ± [illegible]
   DEPTH =   8.1km  (geophysicist
   5.9mb (150 obs.)  5.4Msz ( 28 obs
 QINGHAI, CHINA                    (325
      Felt in the Qilian area  Depth
      from broadband displacement
      seismograms.
      FAULT PLANE SOLUTION: P-Waves
       NP1:Strike=140 Dip=56 Slip= [illegible]
       NP2:        259      54        44
       Principal Axes:
        T                Plg=54  Azm=[illegible]
        P                [illegible]
      Comment: The focal mechanism [illegible]
        moderately well contr[illegible]
        and corresponds to str[illegible]
        slip faulting with a large
        reverse component. The
        preferred fault plane [illegible]
        determined.
      RADIATED ENERGY
       No. of sta:    4  Focal [illegible]
       Energy        2.5±1 [illegible]

GTA     1.30  44 iPgd   38 [illegible]
                 Sg     39 [illegible]
LZH     4.78 118 iPnc   39 [illegible]
     Z  10s   100.20um
                 Pg     39 51 [illegible]
                 Sn     40 33 [illegible]
CD2     8.64 149 iPc    40 31 [illegible]
     E  10s    39.90um
                 eS     42 10 [illegible]
BTO     9.03  73 P      40 34 [illegible]
      1.0s   190.00nm
```

```
XAN     9.40 115 P      40 37.50  -3.2X
      1.0s    19.00nm          5.5mb
   E  10s    73.60um
                 sP     40 48.00
                 S      42 24.00
WMQ     9.84 306 P      40 46.30  -0.5
                 S      42 35.50
HHC    10.23  73 Pc     40 51.00  -1.2
      1.2s   150.00nm          6.3mb
   Z  12s    25.30um          4.2Msz
                 S      42 40.00
LSA    10.74 218 P      41 00.40   0.9
      0.8s    13.00nm          5.4mb
                 pP     41 07.00
TIY    10.89  90 eP     40 56.40  -4.8X
      1.0s   430.00nm          6.8mb
   Z  14s    67.50um          4.8MszX
   E  10s    41.70um
ZAK    12.35  14 iPd    41 21.70   0.9
      2.1s  1064.00nm          6.7mb
   Z  18s    14.30um          4.7Msz
   N  12s    15.07um
                 eS     43 39.00
BJI    13.67  78 eP     41 37.50  -0.9
      1.0s    50.00nm          5.4mb
   Z  14s    25.30um          4.1Msz
   N  10s    21.60um
GYA    13.75 148 iPc    41 38.00  -1.7
      1.0s   250.00nm          6.1mb
                 pP     41 44.00
                 sP     41 52.00
                 S      44 10.00
                 SS     44 27.00
KMI    13.76 164 Pc     41 37.50  -2.4X
      1.6s   110.00nm          5.5mb
   Z  10s    16.60um          4.6Msz
                 pP     41 42.00
                 sP     41 47.50
                 S      44 04.00
SHL    14.09 206 iP     41 40.50  -3.7X
                 eS     46 04.00
IRK    14.35  14 eP-    41 48.00   0.7
      2.5s  2090.00nm          6.4mb
                 eS     44 32.00
TIA    14.87  93 eP     41 53.30  -0.9
      1.6s   200.00nm          5.4mb
   Z  12s     9.76um          4.7Msz
   N  17s    53.00um
                 sP     42 00.00
                 eS     44 36.00
                 SS     44 49.00
WHC    15.15 117 Pd     41 56.50  -1.4
      2.0s   270.00nm          5.3mb
                 sP     42 04.50
CIT    17.09  33 eP     42 24.00   1.4
KSH    17.66 280 P      42 28.50  -1.4
      1.2s    80.00nm          4.7mb X
   Z  12s    14.40um          4.2MszX
   N  10s    25.40um
                 pP     42 33.50
                 PP     42 44.00
                 S      45 52.00
                 sS     46 00.00
[illegible]    17.68 105 Pc     42 29.00  -1.1
   Z  12s    16.60um
   N  13s    19.90um
   E  12s    17.70um
[illegible]    17.94  81 P      42 35.00   1.8
      1.0s   200.00nm          5.2mb
   Z  16s    11.60um          4.3MszX
   N  15s    19.40um
   E  15s    17.10um
                 pP     42 42.00
                 S      45 50.00
[illegible]    18.73 291 eP     42 43.00  -0.1
   Z  12s     8.50um
   E  12s    10.50um
                 eS     46 16.00
[illegible]    19.32  72 Pc     42 49.40  -0.9
      1.0s   130.00nm          5.1mb
   Z  22s    19.00um          4.9MszX
   E  11s     8.73um
                 pP     42 58.00  32kmX
                 S      46 22.00
                 sS     46 28.00
[illegible]    19.59 179 iPc    42 53.00  -0.6
      1.4s   210.58nm          5.2mb
```

```
                 eS     46 36.50
GZH    19.82 136 iPc    42 54.00  -1.9
      1.1s   420.00nm          5.7mb
   Z  10s    16.50um          4.5Msz
SSE    19.89 105 Pd     42 57.00   0.4
      1.5s   400.00nm          5.5mb
   Z  14s    18.90um          3.9Msz
   N  12s    11.40um
   E  12s     4.80um
NDI    20.32 248 iPd    42 59.00  -2.1
      0.8s   155.97nm          5.4mb
                 eSg    46 48.00
MCO    20.72 138 eP     43 05.30   0.0
CN2    20.82  67 Pc     43 05.80  -0.5
      1.2s   240.00nm          5.4mb
   Z  13s    11.30um          5.4MszX
   N  10s    17.10um
   E  10s     5.49um
                 epP    43 12.00  23kmX
                 ePP    43 26.00
                 eS     46 51.00
HKC    20.90 136 P      43 06.00  -1.2
NIL    21.07 265 iPc    43 10.30   1.4
      1.0s     0.32nm          2.6mb X
                 iS     47 14.90
LOE    21.16 172 iPc    43 09.10  -0.8
QZH    21.61 123 Pc     43 14.00  -0.4
      1.6s  3420.00nm          6.5mb
   Z  12s    13.90um          5.6MszX
                 pP     43 23.00  33kmX
QIZ    21.68 150 Pc     43 14.50  -0.7
      1.0s    77.00nm          5.1mb
   N  11s     6.49um
   E  12s    10.80um
                 S      47 11.00
NST    22.75 176 iPc    43 26.50   0.7
MDJ    23.86  65 eP     43 37.80   1.4
      2.0s   630.00nm          5.9mb
   Z  12s    13.30um          5.6MszX
VLA    25.48  69 iPc    43 52.50   0.5
      1.7s   116.00nm          5.3mb
                 i      44 40.00
                 iSS    49 33.00
                 i      54 41.00
SHNJ   26.43  89 eP     44 00.00  -0.9
KUMJ   26.77  93 eP     44 03.20  -0.8
KAGJ   27.34  96 eP     44 08.50  -0.8
QUE    27.35 262 eP     44 12.20   2.6X
                 eS     49 02.20
HYB    27.37 226 eP     44 10.50   0.8
                 eS     48 48.00
YONJ   27.95  86 eP     44 13.00  -1.8
TKSJ   28.79  88 eP     44 21.30  -1.0
BAG    29.21 133 ePc+   44 26.20  -0.2
      1.4s    93.02nm          5.4mb
POO    29.34 234 eP     44 28.00   0.6
                 iS     49 22.00
TSRJ   29.82  84 P      44 30.90  -0.7
WKYJ   29.92  87 eP     44 24.50  -8.1X
YAK    30.29  29 iPc+   44 34.50  -0.9
      1.5s   193.00nm          5.7mb
                 e      44 47.00
                 epP    45 28.00 273kmX
MTMJ   30.95  81 eP     44 40.90  -0.7
SVE    30.95 319 ePd    44 41.00  -0.3
      1.3s   500.00nm          6.2mb
   Z  15s     5.50um          5.3MszX
   N  13s     1.50um
   E  13s     3.50um
                 e      45 43.30
                 eS     49 42.00
                 eSSS   51 43.00
MAIO   31.03 278 iPc    44 44.00   1.6
                 eS     49 50.00
GBA    31.10 223 P      44 45.00   2.0
SNG    31.21 176 eP     44 43.50  -0.4
                 eS     50 52.40
MAJO   31.27  81 ePc    44 42.09  -2.3
      1.4s    40.80nm          5.1mb
                 epPd   44 44.91  10kmX
MAT    31.27  81 iPc    44 41.70  -2.7X
      1.5s    47.22nm          5.2mb
   Z  20s     2.13um          4.8Msz
                 eS     49 53.00
IIDJ   31.34  83 eP     44 43.60  -1.5
ASH    31.50 282 eP     44 45.50  -0.8
                 e      52 03.00
```

26d 11h

```
                e     55 19.00
NRI    31.50 353 iPc   44 44.70   -1.3
        2.0s   152.00nm          5.6mb
     Z  16s    13.00um          5.7MszX
     E  21s     9.40um
                e     45 44.00
                e     47 37.00
                eS    49 54.00
NRIL   31.57 353 ePc   44 45.67   -1.0
                epPd  44 47.91    8kmX
                esPd  44 49.06
ARU    31.89 317 iPc+  44 50.20    0.6
        1.5s   750.00nm          6.4mb
                e     45 02.00
                ePPP  46 12.00
                eS    50 04.00
                e     52 18.00
CHJJ   32.02  82 eP    44 52.30    1.3
YSS    33.09  61 ePc   44 59.61   -0.5
        1.0s    30.00nm          5.2mb
     Z  15s     7.00um          5.5MszX
     E  14s     5.30um
                esPd  45 03.00
                (S)   50 24.00
                eSSS  53 44.00
ASAJ   33.22  66 eP    45 00.70   -0.6
ERM    33.86  70 ePc   45 05.70   -1.2
                esPd  45 10.09
HOOJ   33.90  69 eP    45 07.10   -0.1
KUSJ   34.83  67 eP    45 14.20   -1.0
KKM    36.00 149 ePd   45 33.00    7.5X
KGM    36.54 172 eP    45 29.00   -0.9
TIK    36.61  16 iPc   45 29.00   -1.0
        1.6s    91.00nm          5.3mb
     Z  12s     3.00um          5.3MszX
                i     46 52.00
                i     47 52.00
                eS    51 07.00
BAK    37.33 289 iPc   45 42.00    5.7X
     Z  13s     5.47um          5.5MszX
                eS    51 26.00
SHI    38.88 271 iPc   45 51.50    1.7
DAV    39.60 135 eP    45 58.00    2.4X
        1.5s   444.44nm          5.9mb
GRO    39.77 294 iPc+  45 59.00    2.3
        1.5s  1280.00nm          6.4mb
     Z  12s    15.00um          6.1MszX
     N  16s     6.00um
     E  13s     6.00um
                i     46 16.00
                eS    52 06.00
TAB    40.62 286 eP    46 07.00    3.0X
KER    41.25 281 iPc   46 10.80    1.6
ERE    41.38 290 iP+   46 12.00    1.9
                eS    52 31.00
PYA    41.49 296 iPc   46 11.50    0.6
        1.3s   450.00nm          6.0mb
     Z  16s     3.50um          5.3MszX
MOS    43.45 314 iPc   46 27.00    0.3
        1.6s   500.00nm          6.0mb
                e     48 11.00
                ePPP  48 52.00
KLI    43.50 171 e(P)  46 27.50    0.0
SOC    43.95 296 iPc+  46 32.00    1.1
        1.5s   400.00nm          6.0mb
     Z  12s     2.50um          5.3MszX
     E  12s     1.50um
                e     48 14.00
                eS    53 08.00
                eSS   56 24.00
OBN    44.07 313 iPc   46 32.10    0.3
        1.4s   670.00nm          6.3mb
     Z  12s     4.40um          5.6MszX
     N  14s     2.10um
     E  12s     4.10um
                i     48 20.00
                eS    53 04.00
                eSS   56 22.00
                e     57 00.00
ANN    45.31 299 iP+   46 42.00    0.1
        1.2s   240.00nm          6.0mb
     Z  12s     2.50um          5.4MszX
     N  13s     2.00um
     E  13s     1.50um
                e     48 28.00
                eS    53 24.00
LEM    45.83 168 iPc   46 48.50    2.1
RYD    45.84 268 iPc   46 46.00   -0.4
MJMA   46.31 271 iP    46 49.33   -0.8
PUL    47.07 320 ePd   46 56.00    0.4
        2.0s   660.00nm          6.4mb
                e     48 27.00
                e     48 47.00
                eS    53 53.00
KVT    47.27 294 iP    46 58.00    0.5
SIM    47.48 300 iP+   46 59.00    0.0
     Z  24s     1.60um          4.9MszX
                e     48 49.00
                eS    53 55.00
                ePS   57 17.00
QASM   47.57 272 eP    47 00.85    0.7
GUMO   47.72 108 (P)   47 01.32    0.1
        1.4s   364.04nm          6.3mb
PJG    47.72 108 eP    46 56.00   -5.2X
SDF    48.40 331 iP    47 06.20    0.3
UQSK   48.64 272 iPc   47 09.67    1.2
KAF    48.79 323 iP    47 09.10    0.1
        0.8s    58.30nm          5.7mb
KAS    48.80 295 iPc   47 11.20    1.8
MNK    49.46 313 eP    47 12.00   -2.2
                e     48 36.00
                e     49 10.00
                ePPP  50 03.00
                eS    54 20.00
                eSSS  59 08.00
NUR    49.80 321 iP    47 17.10    0.4
        0.6s    58.90nm          5.7mb
                eS    54 32.00
KIS    50.40 304 iP+   47 22.00    0.5
     Z  17s     1.60um          5.1MszX
                i     47 34.00
                e     49 17.00
                ePPP  50 13.00
                eS    54 36.00
                e     54 40.00
TRO    50.99 334 eP    47 24.60   -1.1
CFR    51.44 302 eP    47 29.00   -0.4
CSS    51.49 287 ePd   47 30.50    0.5
EYL    51.64 295 eP    47 31.00   -0.2
HRT    51.90 296 iP    47 33.70    0.6
PSN    51.92 300 eP    47 34.00    0.9
PTT    52.04 304 eP    47 33.00   -1.0
VRI    52.16 303 ePd   47 35.50    0.5
ISK    52.24 296 iP    47 36.10    0.6
ALT    52.24 294 eP    47 34.90   -0.8
PPCY   52.26 288 eP    47 36.00    0.2
SMY    52.28  48 P     47 50.00   14.3X
     Z  20s     4.17um          5.5Msz
ILT    52.30  28 iPc   47 34.80   -0.8
        1.4s   104.00nm          5.6mb
     Z  14s     5.70um          5.8MszX
     E  16s     7.00um
                e     49 36.00
                eS    55 16.00
ABHA   52.34 264 eP    47 38.67    1.8
LVV    52.64 308 iP    47 39.00    0.6
                e     49 41.00
                eS    55 07.00
CTT    52.65 297 iP    47 37.50   -1.2
MLR    52.81 303 ePc   47 40.00    0.0
KHL    52.95 293 eP    47 40.00   -1.0
WAJH   52.99 276 eP    47 42.33    1.0
DST    53.09 295 eP    47 41.40   -0.6
LOF    53.16 332 eP    47 40.78   -1.3
UPP    53.37 322 iPd   47 43.90    0.3
                i     49 42.50
JMB    53.45 299 iP    47 45.00    0.5
CMP    53.48 303 ePd   47 50.00    5.2X
BMR    53.66 306 ePd   47 48.00    2.0
PVL    54.02 300 iP    47 50.00    1.3
UZH    54.09 307 iPc   47 49.50    0.4
        1.4s   108.00nm          5.7mb
     Z  12s     3.60um          5.7MszX
     E  12s     2.20um
                e     48 04.00
                i     48 51.00
                e     49 51.50
                e     51 03.70
                e     55 30.00
DIM    54.32 299 iP    47 52.00    1.1
ALN    54.41 297 eP    47 52.12    0.5
KDZ    54.56 298 iP    47 53.00    0.3
EZN    54.64 296 eP    47 51.90   -1.4
RDO    54.67 298 eP    47 54.00    0.5
PLD    54.87 299 iP    47 55.00    0.0
PRK    54.91 295 eP    47 53.00   -2.3
RZN    55.03 299 iP    47 57.00    0.6
PGB    55.07 300 iP    47 57.00    0.5
OJC    55.09 310 ePd   47 55.20   -1.3
        1.2s   290.00nm          6.2mb
                i     48 04.50
SPC    55.17 308 iP    47 58.00    0.6
HFS    55.18 323 eP    47 55.60   -1.4
        1.0s   123.80nm          5.9mb
     Z  17s     0.85um          4.9MszX
                LR    09 17.00
HLW    55.26 283 ePc   47 58.00    0.0
SLL    55.26 323 eP    47 56.50   -1.1
        1.0s    99.10nm          5.8mb
VTS    55.70 300 iP    48 04.00    2.8
MMB    55.75 299 iP    48 01.00   -0.4
PSZ    55.85 307 iPc   48 02.10    0.0
NRA0   56.01 324 iPd   48 02.00   -1.0
                PcP   48 59.20
                PP    50 02.10
NRE0   56.01 324 P     48 05.60    2.7X
                PP    50 18.80
                PPP   51 35.50
                S     55 56.30
                ScS   57 52.60
                SS    00 30.90
SRS    56.03 298 eP    48 03.64    0.2
NB2    56.06 324 P     48 02.40   -1.0
        0.9s    45.80nm          5.5mb
OUR    56.08 297 eP    48 03.94    0.2
KKB    56.08 299 iP    48 04.00    0.3
BSD    56.20 317 iPd   48 03.70   -0.7
        0.8s    45.00nm          5.6mb
NAO    56.31 324 P     48 02.79   -2.3X
SOH    56.31 298 eP    48 05.24   -0.3
PAIG   56.46 297 eP    48 05.32   -1.1
KNT    56.49 299 eP    48 06.62   -0.1
VAY    56.65 299 iP    48 08.00    0.2
        1.5s   140.00nm          5.8mb
                i     48 10.30
SRO    56.87 307 iP    48 10.30    0.9
GRG    56.92 299 eP    48 09.68   -0.1
KSP    56.95 311 iPc   48 09.80   -0.1
        1.3s   144.00nm          5.8mb
                e     48 13.00
NPS    57.08 291 eP    48 10.00   -1.0
SKO    57.16 300 iPc   48 11.50    0.0
        1.5s    94.00nm          5.6mb
                i     48 14.40
                i     48 25.50
                eS    56 10.00
                Lg    14 55.00
MOL    57.17 327 eP    48 10.57   -0.7
LIT    57.21 298 eP    48 11.20   -0.7
KONO   57.29 323 eP    47 53.60  -18.6X
COP    57.32 318 iPc   48 11.50   -0.9
        1.1s   121.52nm          5.8mb
VRAC   57.35 310 iPc   48 13.20    0.5
        3.0s   920.40nm          6.3mb
                e     48 32.00
ZST    57.48 308 eP    48 13.50   -0.1
                e     53 33.70
                e     04 13.70
KZN    57.63 298 eP    48 14.00   -0.9
AGG    57.79 297 eP    48 14.44   -1.5
IVA    57.82 302 iPd   48 17.48    1.3
PVY    57.89 301 iPd   48 17.64    0.9
BCI    57.92 301 eP    48 16.40   -0.4
OHR    57.95 299 iP    48 13.50   -3.6X
PLE    57.97 302 iPd   48 18.23    1.0
SOP    58.02 308 eP    48 17.90    0.5
VAM    58.05 292 eP    48 17.00   -0.8
BRN    58.13 314 eP    48 19.00    0.9
KBN    58.17 299 eP    48 15.50   -3.1X
BRG    58.32 312 iPc   48 19.20   -0.2
        1.4s   180.00nm          5.9mb
PRU    58.32 311 Pc    48 19.50    0.0
        1.4s   682.00nm          6.5mb
VLI    58.37 294 eP    48 16.20   -3.8X
SDA    58.44 301 iPd   48 21.30    0.9
TTG    58.43 301 iPd   48 20.76    0.4
NKY    58.45 302 iPd   48 20.92    0.3
LACI   58.47 300 eP    48 19.00   -1.6
TIR    58.49 300 eP    48 21.00    0.2
LSK    58.50 298 eP    48 19.50   -1.5
ULC    58.64 301 iPd   48 21.89    0.0
```

```
CLL     58.69 313 iPc   48 21.20  -0.8
        1.7s   235.00nm         6.0mb
                  e     49 14.00
DAG     58.69 346 iPd   48 19.20  -2.5X
        1.0s    32.00nm         5.4mb
                  ipP   49 09.80 223kmX
BERA    58.71 299 eP    48 20.50  -1.8
BRY     58.71 302 eP    48 22.09  -0.4
MUD     58.71 319 iPc   48 22.00  -0.1
        1.3s   296.00nm         6.2mb
BDV     58.79 301 iPd   48 22.79  -0.1
TPE     58.84 299 eP    48 20.00  -3.3X
HCY     58.94 302 iPd   48 23.74  -0.2
WWKK    58.98 125 ePc   48 25.30   0.8
SRN     59.03 298 eP    48 23.50  -1.1
VLO     59.12 299 eP    48 25.00  -0.2
PTJ     59.12 306 iP    48 25.10  -0.2
ZAG     59.14 306 iP    48 25.00  -0.3
KHC     59.24 310 iPc   48 26.00   0.0
        1.5s   128.00nm         5.8mb
      Z  14s     1.80um         5.4MszX
      N  14s     2.90um
      E  14s     1.50um
                  e     48 58.80
                  ePP   50 34.50
                  eS    56 38.00
KEK     59.25 298 eP    48 08.00 -18.1X
GEC2    59.28 310 P     48 26.60   0.2
        1.3s    77.68nm         5.7mb
                  e     48 28.60
                  PP    50 37.00
KMR     59.35 309 iP+   48 27.20   0.5
VLS     59.38 296 eP    48 25.00  -2.1
WET     59.65 311 iPc   48 29.00   0.2
        1.5s   275.00nm         6.2mb
VBY     59.74 306 iPc   48 29.50   0.1
                  i     48 47.00
MOX     59.76 313 iPc   48 29.60   0.1
        1.6s   241.00nm         6.1mb
                  eS    56 45.00
LJU     59.96 307 ePc   48 30.50  -0.4
        1.5s   220.00nm         6.1mb
                  e     48 54.00
                  ePcP  49 13.50
                  ePP   50 42.00
                  eS    56 42.00
                  e     08 48.00
                  e     09 52.00
                  e     15 28.00
HVAR    59.98 303 eP    48 29.40  -1.7
KBA     60.25 308 iPd   48 31.20  -1.9
        1.7s   195.00nm         6.0mb
                  i     48 39.80
                  iPP   50 44.10
                  i     59 31.10
                  i     03 44.10
                  i     04 03.70
BHG     60.26 309 eP    48 33.40   0.4
        1.5s   329.00nm         6.2mb
GRF     60.40 312 iPc   48 34.50   0.6
        1.5s   439.00nm         6.4mb
                  eScP  53 22.00
                  eS    56 55.00
                  eSP   57 02.00
                  eScS  58 25.00
TRI     60.59 307 ePd   48 35.00  -0.2
                  e     12 00.00
KNA     60.88 146 iPd   48 31.60  -5.7X
        0.9s    71.00nm         5.8mb
AAE     60.95 258 eP    48 39.50   1.1
FUR     61.03 310 eP    48 38.90   0.7
        1.6s   479.00nm         6.4mb
                  eS    57 01.60
WTTA    61.22 309 iPd   48 38.80  -0.9
        1.6s   405.00nm         6.3mb
                  i     48 40.00
                  i     48 43.00
                  iPP   50 56.10
                  i     59 31.00
                  i     03 44.30
                  i     03 45.90
WATA    61.22 309 iPd   48 38.70  -1.0
                  i     48 42.70
                  iPP   50 56.00
                  i     59 26.70
SQTA    61.50 309 iPc   48 41.10  -0.4
        1.6s   346.00nm         6.3mb
                  ipP   48 54.70  49kmX
                  iPP   50 55.50
                  i     59 33.50
                  i     03 40.60
MOTA    61.50 309 iPd   48 40.40  -1.2
        1.5s   299.00nm         6.2mb
                  i     48 44.50
                  ipP   48 54.70  52kmX
                  i     50 56.40
                  i     59 29.40
WIT     61.58 316 eP    48 43.00   1.2
TNS     61.77 313 ePc   48 43.30   0.1
                  ePcPc 49 24.10
OGA     61.77 309 eP    48 42.90  -0.6
        1.5s   291.00nm         6.2mb
WTS     61.88 316 eP    48 44.50   0.7
        1.4s   267.90nm         6.2mb
IMA     62.06  26 ePc   48 43.49  -1.6
        1.4s    46.92nm         5.5mb
OSS     62.39 309 iPc   48 47.30  -0.3
LANF    62.71 312 P     48 49.18  -0.3
SLE     62.88 311 ePc   48 50.40  -0.2
VDL     62.89 309 ePc   48 50.60  -0.4
ENN     62.94 315 ePc   48 51.00   0.1
        1.5s   250.00nm         6.2mb
                  e     49 09.50
                  e     49 30.00
LLS     63.00 310 ePc   48 50.90  -0.8
MBC     63.02  10 iPc   48 51.30   0.2
        0.9s   209.00nm         6.3mb
                  PcP   49 26.90
                  PP    51 13.30
                  PPP   52 40.50
                  ScP   53 26.40
                  PcS   53 35.30
FIR     63.06 306 eP    48 52.50   0.7
ZLA     63.07 310 eP+   48 51.70  -0.2
FEL     63.11 311 P     48 51.56  -0.7
LIBD    63.22 311 P     48 52.33  -0.5
WLS     63.24 312 P     48 52.37  -0.7
CDF     63.29 312 iPc   48 52.70  -0.7
        1.6s   196.50nm         6.1mb
WLF     63.34 313 iPd   48 54.56   1.0
        1.6s    85.50nm         5.7mb
TMA     63.44 309 ePc   48 53.70  -0.8
ECH     63.45 312 P     48 54.07  -0.3
BBS     63.61 311 P     48 55.09  -0.4
MOF     63.64 311 P     48 55.28  -0.5
UCC     63.80 315 P+    48 56.00  -0.6
BSF     63.85 311 iPc   48 56.20  -1.0
        1.4s   206.50nm         6.1mb
SNF     63.98 315 iPc   48 57.71   0.0
SVW     64.00  31 eP    48 58.18   0.3
        1.1s   179.36nm         6.2mb
DOU     64.01 314 P     48 58.40   0.4
        1.3s   264.30nm         6.3mb
MMK     64.02 309 ePc   48 58.10  -0.3
HAU     64.03 312 iPc   48 57.50  -0.7
        1.6s   224.50nm         6.1mb
LOMF    64.07 311 P     48 57.38  -1.2
VITF    64.14 312 P     48 58.49  -0.4
DIX     64.34 309 ePc   49 00.70   0.1
PCP     64.40 308 P     48 59.14  -1.6
EMS     64.64 310 ePc   49 02.10  -0.3
EDU     64.66 323 eP    49 01.70  -0.4
COL     64.74  26 eP    49 02.08  -0.5
                  epPd  49 04.15   7kmX
                  esPd  49 05.40
FBA     64.74  26 ePc   49 01.41  -1.2
        1.3s    68.81nm         5.7mb
FIN     64.78 307 P     49 01.33  -1.8
ESY     64.80 322 eP    49 01.80  -1.3
LSD     64.80 309 P     49 03.64   0.1
RSP     64.90 309 P     49 02.32  -1.7
ROB     64.94 308 P     49 02.98  -1.3
RSL     65.01 309 P     49 04.48  -0.3
ELO     65.03 323 eP    49 03.70  -0.8
LPG     65.03 309 iPc   49 05.10   0.0
        0.9s   451.30nm         6.7mb
LPL     65.03 309 iPc   49 04.90  -0.1
        1.5s   360.40nm         6.3mb
BHB     65.05 308 P     49 02.12  -2.7X
EBH     65.05 323 eP    49 04.00  -0.7
EDI     65.07 323 eP    49 03.80  -1.0
        1.8s   275.00nm         6.2mb
      Z  18s     2.00um         5.4Msz
                  ePP   51 21.60
EBL     65.08 322 eP    49 04.10  -0.8
PGF     65.11 305 iPc   49 05.10  -0.3
        1.5s   574.55nm         6.6mb
IMI     65.12 307 P     49 04.30  -1.1
ENR     65.26 308 P     49 04.19  -2.1
RRL     65.30 309 P     49 05.07  -1.7
CRP     65.30  30 eP    49 06.00  -0.4
STV     65.31 308 P     49 03.75  -2.9X
AKU     65.31 336 iP    49 07.00   0.8
        1.2s    81.25nm         5.8mb
PZZ     65.32 308 P     49 04.30  -2.4X
EKA     65.37 322 Pc    49 00.30  -6.4X
        1.1s    67.10nm         5.8mb
ESK     65.41 322 eP    49 06.50  -0.4
        1.2s   100.00nm         5.9mb
SBF     65.43 307 eP    49 06.80  -0.6
        1.4s   428.70nm         6.5mb
EAB     65.48 323 eP    49 06.70  -0.7
PMG     65.64 126 ePc   49 08.05  -0.8
                  epPd  49 10.62   8kmX
                  esPd  49 11.94
LOR     65.86 312 iPc   49 08.70  -1.3
        1.6s   143.05nm         5.9mb
LBF     65.93 312 iPc   49 09.40  -1.1
        1.5s   131.10nm         5.9mb
FRF     66.08 307 eP    49 10.80  -0.6
        1.5s   198.50nm         6.1mb
SSF     66.17 312 iPc   49 11.10  -0.9
        1.7s   206.60nm         6.1mb
SMF     66.19 311 iPc   49 11.30  -0.8
        1.5s   380.25nm         6.4mb
PMR     66.28  29 ePc   49 10.89  -1.5
        1.3s    99.31nm         5.9mb
      Z  19s     3.21um         5.5Msz
LMR     66.28 307 eP    49 12.20  -0.5
        1.6s   332.10nm         6.3mb
LRG     66.31 307 eP    49 12.60  -0.3
        1.6s   344.55nm         6.3mb
AVF     66.40 312 iPc   49 12.60  -0.8
        1.6s   369.40nm         6.3mb
HYF     66.57 312 iPc   49 14.00  -0.5
        1.4s   444.35nm         6.5mb
INK     66.66  19 eP    49 14.50  -0.2
        1.0s    29.00nm         5.4mb
PLDF    66.67 311 P     49 14.76  -0.5
WIM     66.76 321 eP    49 15.20  -0.4
RES     66.76   4 eP    49 15.00  -0.3
        1.5s    62.00nm         5.6mb
BGF     66.82 312 iPc   49 15.30  -0.8
        1.5s   154.10nm         6.0mb
HAE     66.85 319 eP    49 15.80  -0.4
COLF    66.86 310 P     49 16.01  -0.5
AGO     66.92 311 P     49 16.04  -0.8
WME     66.99 321 eP    49 16.10  -1.0
WB5     67.02 143 iPc   49 16.40  -1.2
                  i     49 22.70
                  eP'P' 17 46.70
TOA     67.06  28 eP    49 17.20  -0.3
WRA     67.07 143 P     49 17.00  -0.9
        0.7s    15.30nm         5.3mb
WR2     67.08 143 iPd   49 16.80  -1.2
        0.8s    30.90nm         5.6mb
PYM     67.15 311 P     49 18.02  -0.4
MAF     67.16 311 iPc   49 18.00  -0.3
        1.5s   382.35nm         6.4mb
HTR     67.20 319 eP    49 17.60  -0.9
HGH     67.21 319 eP    49 17.50  -1.0
YRC     67.21 321 eP    49 17.90  -0.6
KDC     67.23  33 eP    49 17.20  -1.3
        1.5s   110.13nm         5.8mb
HCG     67.27 319 eP    49 18.20  -0.7
LBL     67.28 310 P     49 19.00  -0.2
TCF     67.34 312 iPc   49 19.00  -0.5
        1.6s   432.85nm         6.4mb
LDF     67.43 315 iPc   49 19.10  -0.9
        1.6s   172.90nm         6.0mb
YRH     67.47 320 eP    49 19.50  -0.7
FLN     67.54 315 iPc   49 19.80  -0.8
        1.5s   255.95nm         6.2mb
KLU     67.54  28 ePc   49 19.88  -0.7
LSF     67.75 312 iPc   49 21.10  -1.0
        1.6s   105.70nm         5.8mb
GRR     67.95 315 iPc   49 22.50  -0.7
        1.4s   216.10nm         6.2mb
DLF     68.15 321 eP    49 24.10  -0.3
        1.6s   402.00nm         6.4mb
CAF     68.16 311 iPc   49 24.60   0.0
```

26d 11h

```
        1.5s   272.65nm          6.2mb
LPF    68.25 315 iPc   49 24.50  -0.6
        1.6s   221.40nm          6.1mb
RJF    68.27 311 iPc   49 25.20  -0.1
        1.6s   457.70nm          6.4mb
DCN    68.49 322 eP    49 26.80   0.3
        1.6s   385.00nm          6.3mb
MFF    68.53 313 iPc   49 26.40  -0.5
        1.4s   371.15nm          6.4mb
LPO    68.81 311 iPc   49 28.60  -0.1
        1.5s   201.60nm          6.1mb
LFF    68.93 311 iPc   49 29.40   0.0
        1.5s   308.15nm          6.3mb
ETER   69.11 308 P     49 31.95   1.5
        1.3s   119.70nm          5.9mb
NAI    69.11 251 iPd   49 34.00   2.9
BALM   69.14  27 eP    49 29.47  -1.1
WARB   69.46 153 iPd   49 32.80   0.1
        0.7s     9.00nm          5.0mb
ASPA   70.10 146 P     49 36.90   0.2
QIS    70.17 139 eP    49 36.30  -0.8
EPF    70.24 310 iPc   49 36.60  -0.9
        1.5s   184.40nm          6.0mb
VAL    70.78 322 iP    49 40.90   0.4
        1.0s     1.30nm          4.0mb X
ELIZ   71.29 311 P     49 44.95   1.1
        1.4s   108.90nm          5.8mb
EBR    71.40 308 eP    49 45.00   0.5
                e      14 09.00
EROQ   71.45 308 P     49 45.54   0.7
        1.6s   681.00nm          6.5mb
NWAO   73.11 164 ePc   49 50.94  -3.6X
CTA    73.39 134 iPc   49 56.00  -0.4
        2.0s   191.18nm          5.8mb
CTAO   73.39 134 ePc   49 56.16  -0.2
                epPd   49 58.65   8kmX
                esPd   49 59.81
HNR    74.27 116 eP    50 02.00   0.4
EALH   74.34 306 P     50 02.79   1.0
        1.5s   259.80nm          6.0mb
GUD    74.36 310 P     50 03.01   1.0
        1.1s    71.40nm          5.6mb
SIT    74.53  27 P     50 10.00   7.5X
     Z  20s     1.84um          5.4Msz
PAB    75.15 309 ePc   50 06.76   0.2
                epPd   50 08.83   7kmX
                esPd   50 10.81
STS    75.55 314 P     50 10.35   [illegible]
        1.3s   110.20nm          5.8mb
EBAN   75.64 307 P     50 10.13   [illegible]
        1.4s   160.20nm          5.9mb
YKA    75.87  15 P     50 09.89   [illegible]
        1.0s    32.00nm          5.4mb
EZAM   76.10 313 P     50 13.31   [illegible]
        1.6s   362.10nm          6.2mb
ELUQ   76.31 307 P     50 13.60   [illegible]
        1.5s   153.20nm          5.9mb
EGUA   76.32 306 P     50 13.25   [illegible]
        1.6s   228.20nm          6.0mb
EPRU   77.28 307 P     50 18.51   [illegible]
        1.2s   114.20nm          5.9mb
LIJA   77.44 307 iP    50 19.70   [illegible]
FRB    77.61 354 eP    50 20.50   [illegible]
        1.0s    17.00nm          5.1mb
ALJ    77.70 307 eP    50 21.[illegible]
GIBL   77.82 307 iP    50 22.[illegible]
MOMI   77.99 307 eP    50 22.[illegible]
RANB   78.06 307 iP    50 23.[illegible]
PLAT   78.14 307 iP    50 23.[illegible]
CNIL   78.17 307 eP    50 23.[illegible]
NKM    78.35 306 iPd   50 24.[illegible]
TGT    78.98 305 iP    50 26.[illegible]
IFR    79.38 304 iPd   50 31.[illegible]
MIF    79.44 304 eP    50 32.[illegible]
CZD    79.62 304 iP    50 35.[illegible]
STK    80.61 144 iPc   50 35.[illegible]
        2.4s     5.50nm          [illegible]
TZC    81.12 304 iP    50 41.[illegible]
ADE    81.96 148 e(P)  50 44.[illegible]
OUK    82.64 304 iP    50 49.[illegible]
CIA    82.99 305 iP    50 50.[illegible]
JHA    83.30 305 iP    50 52.[illegible]
ARMA   84.48 136 eP    50 58.[illegible]
LSZ    84.78 246 iPd   50 59.[illegible]
                i      51 02.[illegible]
KRI    84.80 244 iP    51 13.[illegible]
MCW    85.74  26 eP    51 03.[illegible]
STW    85.90  27 P     51 04.11   0.7
JCW    86.47  26 P     51 07.39   1.1
GMW    86.72  27 eP    51 08.54   1.0
HON    86.84  65 P     51 20.00  11.6X
     Z  20s     0.49um          4.9Msz
ONR    86.94  28 P     51 10.61   2.1
TOO    87.11 145 eP    51 09.80   0.5
        1.0s    27.00nm          5.4mb
RMW    87.14  26 eP    51 10.63   1.0
BMW    87.48  28 eP    51 12.06   0.8
DZM    87.49 121 iPc   51 12.50   0.9
WTV    87.56  25 P     51 12.49   0.8
FMW    87.64  26 P     51 13.17   0.9
BUL    87.73 242 iP    51 12.90   0.1
SAW    87.74  25 P     51 13.30   0.8
LON    87.75  27 ePc   51 12.91   0.3
NEW    87.97  23 ePc   51 14.17   0.6
        1.1s    58.42nm          5.8mb
     Z  21s     3.39um          5.7Msz
DPW    87.98  24 ePc   51 14.39   0.7
EBG    88.04  26 P     51 15.43   1.5
SHW    88.08  27 eP    51 15.88   1.6
KMOR   88.10  28 P     51 15.79   1.5
ASR    88.34  27 P     51 16.91   1.4
WAH2   88.51  25 P     51 17.57   1.4
COR    89.06  29 ePc   51 20.34   1.6
                epPd   51 22.82   8kmX
SSOR   89.14  28 P     51 20.75   1.4
VGB    89.18  27 ePc   51 20.43   1.0
VBEM   89.28  27 P     51 21.54   1.5
RNO    89.47  29 P     51 23.12   2.3
JBO    89.55  26 P     51 22.66   1.5
CROR   89.57  27 P     51 22.75   1.5
LNOR   89.72  25 P     51 23.24   1.3
VIPM   90.11  27 P     51 25.43   1.5
ULM    90.73   9 eP    51 28.00   1.5
LRM    91.55  21 eP    51 30.80   0.1
YBH    91.72  30 ePc   51 33.52   2.2
     Z  19s     0.70um          5.1Msz
                ePPc   55 25.52
                iSKS   02 11.52
                eS     02 34.52
                iPS    02 42.52
                iPPS   03 58.52
                iSS    08 43.52
                eLQ    19 46.52
                eLR    23 38.52
KMPM   92.28  31 eP    51 35.27   1.4
LBFM   92.37  29 eP    51 35.13   0.7
LGPM   92.37  30 ePc   51 35.76   1.4
WDC    92.77  30 eP    51 37.12   1.1
        1.4s    36.31nm          5.6mb
     Z  21s     1.47um          5.4Msz
ORV    94.06  30 eP    51 42.25   0.3
CBM    94.15 351 eP    51 42.03  -0.3
        1.1s    30.73nm          5.6mb
     Z  19s     0.96um          5.3Msz
NTYM   94.59  31 eP    51 45.65   1.2
LKO    95.07 286 PKP   51 44.14  -2.9X
        1.1s     7.00nm          5.0mb
HMR    95.14  31 (P)   51 47.54   0.6
RSSD   95.26  16 ePd   51 48.07   0.3
        1.3s    71.90nm          6.0mb
CMB    95.81  30 ePc   51 48.81  -1.3
        1.2s    17.76nm          5.4mb
     Z  19s     1.18um          5.4Msz
                ec     51 51.29
                esPd   51 53.20
AFN    95.94  31 eP    51 51.42   0.7
[illegible]    95.96  31 eP    51 52.43   1.6
[illegible]    96.46 283 PKP   51 52.94  -0.4
        1.2s    32.00nm          5.7mb
SA[illegible]  96.48  31 P     52 00.00   6.9X
     Z  19s     1.17um          5.4Msz
[illegible]    96.49 284 PKP   51 52.90  -0.6
        1.2s    16.00nm          5.4mb
[illegible]    96.57  24 P     52 00.00   6.3X
     Z  19s     0.74um          5.2Msz
[illegible]    96.68  29 eP    51 55.65   1.2
MENM   96.69  29 eP    51 55.89   1.9
[illegible]    96.77 283 PKP   51 54.00  -0.7
        1.3s    22.00nm          5.6mb
     Z  19s     0.69um          5.2Msz
[illegible]    96.86  23 eP    51 55.24   0.0
MTUM   97.11  29 eP    51 57.59   1.4
[illegible]    97.13 355 ePd   51 56.12   0.2
        1.1s    21.83nm          5.7mb
LBNH   97.22 353 P     52 10.00  13.6X
     Z  19s     0.72um          5.2Msz
EMUT   97.54  22 (P)   51 59.06   0.9
MSU    98.31  24 eP    52 02.71   1.0
ISA    98.62  30 P     52 10.00   7.1X
     Z  20s     1.17um          5.4Msz
HRV    98.91 353 P     52 10.00   6.0X
     Z  19s     0.82um          5.2Msz
GLD    99.13  18 P     52 20.00  14.7X
     Z  21s     1.48um          5.5Msz
GOL    99.14  19 P     52 20.00  14.5X
     Z  21s     1.61um          5.5Msz
YSNY   99.39 358 P     52 20.00  13.8X
     Z  21s     1.47um          5.5Msz
PV10   99.39  22 eP    52 07.10   0.5
BINY   99.56 356 P     52 20.00  13.0X
     Z  20s     1.47um          5.5Msz
GSC    99.58  29 eP    52 08.64   1.3
LSCT   99.88 354 P     52 20.00  11.5X
     Z  20s     1.31um          5.4Msz
ALQ   103.33  21 Pdiff 52 30.00   6.0X
     Z  20s     0.99um          5.3Msz
TUC   104.43  25 Pdiff 52 40.00  11.2X
     Z  21s     0.77um          5.2Msz
WMOK  105.38  15 PKP   57 00.00  13.2X
     Z  19s     1.81um          5.6Msz
CEH   105.97 358 PKP   57 00.00  12.2X
     Z  21s     1.07um          5.4Msz
MIAR  106.47  11 PKP   57 00.00  11.2X
     Z  20s     1.04um          5.4Msz
MYNC  106.77   2 PKP   57 00.00  10.5X
     Z  21s     1.16um          5.4Msz
NVL   124.76 204 iPKPc 57 21.50  -1.1
        1.4s    35.00nm
BDF   142.86 298 PKPc  57 56.50  -1.8
        1.8s     0.85nm
CACB  145.94 289 ePKP  58 04.20   0.8
VAO2  146.70 287 ePKP  58 20.70  16.1X
AGVB  147.25 296 ePKP  58 03.80  -1.6
                e      58 12.30
RSTA  149.38 287 ePKP  58 13.40   4.7X
PPD   149.49 294 ePKP  58 13.20   4.3X
NNA   153.32 350 ePKP  58 22.00   7.3X
        1.3s    34.62nm
LPAZ  155.03 329 PKPc  58 17.80   0.1
        1.1s    10.60nm
                PP     02 23.60
                SS     22 00.30
LPB   155.24 328 PKP   58 19.00   1.3
CNCB  155.44 328 PKP   58 19.20   1.0
MOCB  158.14 317 PKP   58 21.60   0.2
     S.D. = 1.0  on 411 of 466 obs.
-----------------------------------
*  OCT  26, 1993  12h 13m 46.63± 0.96s
    6.270 S ±12.1km  145.067 E ±10.1km
   DEPTH =  10.0km  (geophysicist)
   3.2mb (  2 obs.)
 NEW GUINEA, PAPUA NEW GUINEA     (202)

YYYY     0.90  88 eP    14 04.00   0.1
MDG      1.24  35 eP    14 09.60   0.0
MNDI     1.41 275 eP    14 41.50  29.0X
LAT      1.96 102 eP    14 20.20  -0.1
WWKK     3.00 331 eP    14 53.20  18.1X
PMG      3.74 147 eP    14 55.80  10.1X
WR2     17.12 216 eP    17 47.30  -0.4
        1.3s     5.40nm          3.5mb
WRA     17.13 216 P     17 48.20   0.4
        1.2s     1.20nm          2.9mb
     S.D. = 0.4  on   5 of   8 obs.
-----------------------------------
?  OCT  26, 1993  12h 53m 45.09± 3.63s
   24.375 S ±28.4km  179.244 W ±41.9km
   DEPTH = 558.4 ± 22.2 km
   4.8mb ( 10 obs.)
 SOUTH OF FIJI ISLANDS            (171)

DZM     13.36 277 iPc   56 37.70  -0.1
URZ     14.19 192 eP    56 45.60  -0.2
MNG     16.79 194 eP    57 11.60   0.3
QRZ     17.79 201 P     57 21.40   0.4
THZ     18.53 199 eP    57 28.80   0.7
KHZ     18.96 197 eP    57 31.80  -0.2
LTZ     19.65 199 P     57 37.90  -0.7
WVZ     20.40 201 P     57 45.00  -0.4
ARMA    26.51 250 iPd   58 39.90  -0.5
        0.7s    11.00nm          4.6mb
```

```
CNB     29.22 241 eP    59 04.00    0.1
CTA     32.17 271 iPd   59 29.50    0.6
        0.9s    27.31nm          4.9mb
TOO     32.78 238 eP    59 34.20    0.3
        0.5s    17.00nm          4.9mb
STK     35.19 249 iPd   59 54.30    0.2
        0.5s     9.20nm          4.7mb
LAT     36.83 293 eP    59 55.20  -12.4X
ADE     37.79 244 eP    00 16.00    0.6
ASPA    42.64 261 iPd   00 54.50    0.0
        0.7s    19.40nm          4.7mb
WR2     43.04 266 iPc   00 57.00   -0.6
        0.5s    47.40nm          5.3mb
                  eScP  05 44.90
                  eS    05 58.80
WRA     43.06 266 P     00 57.50   -0.3
        0.6s    15.00nm          4.7mb
FORT    46.80 250 iPd   01 25.90   -0.5
        0.6s    25.00nm          4.9mb
WARB    48.67 256 iPd   01 40.30   -0.4
        0.3s     6.00nm          4.6mb
KNA     49.35 270 iPd   01 46.60    0.8
        1.0s    60.00nm          5.1mb
CSY     59.99 206 iPc   03 13.30   13.7X
        0.6s    14.10nm
HFS    143.14 349 ePKP  12 20.90    4.4X
        0.4s     2.00nm
     S.D. = 0.5  on  20 of  23 obs.
-----------------------------------
*  OCT  26, 1993  12h 54m 17.19± 2.64s
   36.638 N ±10.2km   11.588 W ±25.1km
   DEPTH =  10.0km  (geophysicist)
 NORTH ATLANTIC OCEAN              (402)
      mbLg 3.0 (MDD).

EVAL     3.98  75 iPd   55 19.80    0.2
EJIF     4.93  90 eP    55 32.00   -1.1
EPRU     5.11  84 ePn   55 36.70    1.0
EHOR     5.20  75 ePn   55 36.70   -0.1
                  eSn   56 30.60
JHA      5.20 159 ePn   55 37.00    0.1
                  eSn   56 30.00
EPLA     5.52  50 eP    55 42.00    0.6
                  e     56 39.00
CIA      5.58 154 iPn   55 42.00   -0.3
                  iSn   56 38.50
OUK      6.23 149 iPn   55 51.50    0.1
                  eSn   56 54.00
CZD      6.47 122 iPn   55 55.00    0.3
                  eSn   56 58.00
ETOR     8.54  58 eP    56 23.00   -0.9
                  e     57 51.00
     S.D. = 0.7  on  10 of  10 obs.
-----------------------------------
&  OCT  26, 1993  13h 57m 36.87s
   32.316 N          115.077 W
   DEPTH =   6.0km  (geophysicist)
 CALIF.-BAJA CALIF. BORDER REGION( 45)
      <PAS-P>. ML 3.0 (PAS).

GLA      0.76  16 eP    57 48.66   -3.5
PLM      1.82 305 ePn   58 07.81   -1.4
PEC      2.35 313 (Pn)  58 15.58   -1.1
GSC      3.31 335 (Pn)  58 28.90   -1.4
TUC      3.63  89 (Pn)  58 32.29   -2.7
MSU      6.62  20 (Pg)  59 32.94   15.6
PV10     7.80  38 (P)   59 34.11    0.2
         7 obs. associated
-----------------------------------
*  OCT  26, 1993  14h 12m 58.44± 0.87s
    5.824 S ± 7.1km  145.794 E ±12.9km
   DEPTH =  10.0km  (geophysicist)
   3.3mb (  1 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY     0.45 157 iPd   13 08.00    0.4
                  eS    13 15.00
MDG      0.57 359 iPd   13 10.00    0.0
LAT      1.46 125 eP    13 24.80   -0.1
MNDI     2.15 261 eP    13 41.00    6.0X
WWKK     3.08 315 eP    13 53.50    5.5X
PMG      3.81 159 eP    13 58.00   -0.4
WR2     17.91 217 eP    17 09.30    0.0
        0.7s     1.70nm          3.3mb
     S.D. = 0.4  on   5 of   7 obs.
-----------------------------------
%  OCT  26, 1993  14h 14m 43.40± 6.40s
   58.244 N ±51.6km    6.453 E ±17.5km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN NORWAY                   (535)
      MD 2.1 (BER).

KMY      1.16 328 eP    15 04.09   -0.9
                  eS    15 19.41
BLS5     1.18   0 eP    15 05.06   -0.4
                  eS    15 21.52
ODD1     1.68   3 eP    15 13.67    0.7
                  eS    15 34.80
EGD      2.13 343 eP    15 19.00   -0.4
                  eSg   15 48.07
ASK      2.34 345 eP    15 23.90    1.5
                  eSg   15 54.39
NRA0     3.60  44 ePn   15 39.91   -0.5
                  ePg   15 48.83
                  eSn   16 35.31
                  eLg   16 42.11
     S.D. = 1.2  on   6 of   6 obs.
-----------------------------------
%  OCT  26, 1993  14h 26m 15.92± 0.89s
   44.390 N ± 4.4km    7.351 E ± 5.8km
   DEPTH =  13.5 ±  8.2 km
 NORTHERN ITALY                    (545)
      ML 2.1 (GEN).

STV      0.15 187 P     26 19.77    0.0
                  S     26 22.36
ENR      0.17 163 P     26 19.96   -0.3
                  S     26 22.52
PZZ      0.21 303 P     26 21.35    0.4
                  S     26 25.50
ROB      0.38 104 P     26 23.81   -0.2
                  S     26 29.66
BHB      0.46 352 P     26 25.27    0.0
                  S     26 32.09
IMI      0.62 141 P     26 28.20    0.1
                  S     26 35.76
FIN      0.64 106 P     26 28.35   -0.1
                  S     26 36.03
RRL      0.67 323 P     26 29.11    0.1
                  S     26 39.32
RSP      0.76 355 P     26 30.12   -0.5
                  S     26 41.54
PCP      0.87  80 P     26 32.98    0.6
                  S     26 43.90
LSD      1.08 353 P     26 35.86   -0.2
     S.D. = 0.4  on  11 of  11 obs.
-----------------------------------
%  OCT  26, 1993  14h 27m 36.95± 0.44s
   44.538 N ± 3.8km    7.409 E ± 4.4km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                    (545)
      ML 2.1 (GEN).

PZZ      0.22 262 P     27 42.18    0.3
                  S     27 46.21
STV      0.30 192 P     27 42.86   -0.4
ENR      0.31 178 P     27 43.43    0.0
BHB      0.32 341 P     27 44.05    0.4
ROB      0.41 126 P     27 45.66    0.3
RRL      0.59 311 P     27 48.81   -0.2
RSP      0.62 350 P     27 49.09   -0.5
FIN      0.66 120 P     27 50.05   -0.1
IMI      0.72 151 P     27 51.24    0.1
PCP      0.81  89 P     27 52.70    0.0
     S.D. = 0.3  on  10 of  10 obs.
-----------------------------------
%  OCT  26, 1993  14h 52m 51.16± 0.65s
   39.268 N ± 6.2km   27.724 E ± 5.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 3.0 (ISK).

DST      0.78  64 ePg   53 06.30    0.0
                  eSg   53 17.70
IZM      0.94 203 ePg   53 08.90   -0.2
                  eSg   53 22.40
EDC      1.08   6 iPn   53 11.40   -0.1
EZN      1.22 298 iPn   53 14.00    0.2
MFT      1.55 348 ePn   53 19.00    0.0
IZI      1.72  51 ePn   53 21.00   -0.4
ALT      1.87  96 ePn   53 24.00    0.5
     S.D. = 0.3  on   7 of   7 obs.
-----------------------------------
?  OCT  26, 1993  15h 03m 54.73± 0.95s
   17.477 S ±32.0km  178.942 W ±19.8km
   DEPTH = 516.6 ± 14.5 km
   4.8mb (  9 obs.)
 FIJI ISLANDS REGION               (181)

AFI      7.76  64 eP    05 50.00   -0.2
DZM     14.49 249 iPd   07 00.50    0.7
ARMA    29.72 239 eP    09 20.40    0.1
        0.5s    26.00nm          5.0mb
CTA     33.02 260 iPd   09 49.00    0.8
        1.0s     7.50nm          4.2mb
CNB     33.29 232 eP    09 50.90    0.5
        0.7s    58.00nm          5.3mb
TOO     37.05 230 iPd   10 21.30   -0.3
        0.8s    79.00nm          5.3mb
STK     38.40 241 iPd   10 33.30    0.6
        0.6s    12.10nm          4.6mb
WR2     44.19 259 iPc   11 18.00   -1.1
        0.6s    10.80nm          4.6mb
ASPA    44.42 254 iPd   11 20.60   -0.3
        0.6s    80.00nm          5.4mb
                  eS    17 13.30
FORT    49.73 244 eP    12 00.10   -1.0
WARB    50.95 250 eP    12 09.50   -0.6
        0.4s     7.00nm          4.4mb
CSY     66.32 205 eP    14 02.70    9.7X
        1.1s     5.40nm          4.1mb
CNCB   103.96 113 Pdiff 16 52.00  -12.0X
LPB    103.96 113 ePdiff16 58.00   -5.9X
LPAZ   104.03 112 Pdiff 17 19.90   15.5X
MOCB   104.16 118 Pdiff 17 38.10   33.4X
CCH    105.35 114 ePdiff17 06.00   -3.9X
KSP    144.55 343 iPKPc 22 33.00   -0.2
CLL    144.93 347 iPKPc 22 34.00    0.2
        0.8s     9.00nm
BRG    145.13 346 iPKP  22 35.10    0.9
GRF    146.83 348 ePKP  22 41.20    4.2X
GEC2   147.07 345 PKP   22 40.50    3.0X
        0.6s     2.56nm
                  e     22 42.10
                  e     22 43.40
                  e     22 45.60
     S.D. = 0.7  on  14 of  22 obs.
-----------------------------------
%  OCT  26, 1993  15h 55m 28.67± 0.81s
   36.805 N ± 9.9km    4.556 W ± 6.3km
   DEPTH =  30.8 ±  7.7 km
 STRAIT OF GIBRALTAR               (385)
      mbLg 3.4 (MDD).

EMAL     0.11 113 iPd   55 34.67    0.5
                  i     55 40.10
EPRU     0.56 287 iPd   55 40.26    0.0
                  e     55 48.90
ELUQ     0.79  17 eP    55 43.67    0.1
                  e     55 56.00
EGUA     0.80  88 eP    55 42.42   -1.2
                  e     55 55.20
EJIF     0.81 245 iP    55 43.64   -0.3
                  e     55 55.50
ECOG     0.92  59 iP    55 46.58    1.0
                  e     55 59.30
EHOR     1.16 332 iPd   55 49.15    0.4
                  e     56 04.90
EBAN     1.49  24 iPd   55 52.49   -1.1
                  e     56 12.20
ENIJ     1.89  84 eP    56 00.00    0.6
                  e     56 20.90
     S.D. = 1.0  on   9 of   9 obs.
-----------------------------------
   OCT  26, 1993  16h 57m 05.73± 0.75s
   39.794 N ± 6.0km   20.535 E ± 7.1km
   DEPTH =   5.0km  (geophysicist)
 GREECE-ALBANIA BORDER REGION      (392)
      ML 2.3 (THE), 2.2 (TIR).

IGT      0.30 211 ePg   57 12.74    0.9
                  eSg   57 19.82
LSK      0.36   8 ePg   57 13.50    0.5
                  iSg   57 19.60
SRN      0.42 282 ePg   57 20.40    6.2X
                  iSg   57 24.90
TPE      0.64 321 ePg   57 17.50   -1.1
KBN      0.85  13 ePg   57 27.50    4.9X
FNA      1.18  33 ePb   57 28.46    0.2
                  eSb   57 45.70
LIT      1.53  78 ePb   57 33.78    0.0
```

26d 16h

```
                    eSb   57 55.54
AGG      1.59 118 ePb   57 33.26  -1.4
                    eSb   57 55.06
GRG      1.84  50 ePb   57 39.10   0.9
                    eSb   58 03.42
KNT      2.26  52 ePn   57 44.38   0.0
     S.D. = 1.0  on   8 of  10 obs.
-------------------------------------
   OCT  26, 1993  17h 27m 06.17± 0.51s
   28.002 S ± 5.1km   26.834 E ± 6.2km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA          (584)
      ML 3.1 (PRE). mbLg 3.0 (BUL).

SEK      0.77 115 eP    27 22.40   0.7
                    S     27 31.50
BFS      1.10 358 eP    27 27.60   0.2
                    S     27 39.80
BLF      1.24 207 eP    27 29.90   0.1
                    S     27 48.20
SWZ      1.57 301 eP    27 35.20   0.3
                    S     27 53.50
FRS      2.19 217 eP    27 43.50  -0.2
                    S     28 10.00
SLR      2.60  30 eP    27 50.10   0.4
                    S     28 22.10
HVD      2.84 204 eP    27 53.00  -0.2
                    S     28 24.50
BFT      3.68  52 e(P)  28 04.00  -1.1
                    S     28 46.00
GRM      5.30 182 eP    28 31.00   3.0X
                    S     29 32.00
BUL      7.99  12 ePn   28 55.40 -10.5X
                    iSn   30 21.60
                    iSg   31 14.40
CER      8.41 229 e(P)  29 11.50  -0.1
                    S     30 45.00
     S.D. = 0.6  on   9 of  11 obs.
-------------------------------------
?  OCT  26, 1993  18h 12m 36.26± 3.20s
   31.600 S ±28.2km   68.917 W ±30.1km
   DEPTH = 101.9 ± 21.5 km
 SAN JUAN PROVINCE, ARGENTINA      (137)

RTCB     0.15  42 iPd   12 51.00  -0.1
                    S     13 02.00
RTCV     0.42 129 eP    12 52.00   0.0
                    S     13 05.00
RTLL     0.47  55 iPd   12 52.20  -0.1
                    S     13 05.00
CFA      0.58  91 e(P)  12 53.30   0.2
                    S     13 06.70
RTRS     1.50 342 iPd   13 03.00   0.0
                    S     13 24.00
MRA      2.84 107 ePd   13 20.60  -0.1
     S.D. = 0.2  on   6 of   6 obs.
-------------------------------------
%  OCT  26, 1993  18h 47m 27.51± 1.61s
   42.021 N ±19.0km   25.240 E ± 6.6km
   DEPTH =  10.0km  (geophysicist)
 BULGARIA                          (359)
      ML 3.3 (THE).

ALN      1.28 151 ePb   47 51.18   0.0
                    eSb   48 10.82
SRS      1.53 234 ePb   47 54.29  -0.6
                    eSb   48 16.86
SOH      1.86 230 ePn   47 59.78   0.1
                    eSn   48 28.34
DMK      1.89  95 ePn   48 01.00   0.9
OUR      1.93 210 ePn   48 02.30   1.6
                    eSn   48 29.58
KNT      1.96 245 ePn   48 00.82  -0.3
                    eSn   48 30.42
MFT      1.97 128 ePn   48 00.00  -1.3
THE      2.20 232 ePn   48 04.34  -0.3
                    eSn   48 36.02
     S.D. = 1.1  on   8 of   8 obs.
-------------------------------------
?  OCT  26, 1993  19h 03m 55.92± 1.73s
   31.156 S ±12.6km  178.115 W ±30.2km
   DEPTH =  33.0km  (normal)
   4.7mb (  2 obs.)
 KERMADEC ISLANDS REGION           (177)

PUZ      7.52 202 P     05 45.90  -0.1
                    eS    07 04.30
URZ      8.10 208 P     05 54.30   0.2
                    eS    07 20.80
MNG     10.77 207 eP    06 26.20  -4.7X
                    eS    08 16.80
DZM     16.49 300 iPc   07 24.70 -21.8X
                    iS    07 51.70
WR2     44.01 273 eP    12 01.80  -0.4
         0.5s    17.30nm          5.1mb
WRA     44.03 273 P     12 02.80   0.4
         0.6s     3.30nm          4.3mb
KAF    145.23 340 iPKP  23 31.00   0.0
         0.4s     3.30nm
NB2    149.48 351 PKP   23 43.60   5.6X
         0.7s     1.70nm
HFS    149.96 348 ePKP  23 44.00   5.4X
         0.4s     1.20nm
VRI    155.77 314 ePKPc 23 52.50   5.2X
     S.D. = 0.4  on   5 of  10 obs.
-------------------------------------
   OCT  26, 1993  20h 21m 03.68± 0.76s
    5.805 S ± 6.6km  145.827 E ±11.0km
   DEPTH =  10.0km  (geophysicist)
   3.8mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G.  (207)

YYYY     0.46 162 eP    21 13.40   0.4
                    eS    21 20.50
MDG      0.55 355 iPd   21 15.00   0.1
LAT      1.45 126 eP    21 29.70  -0.2
MNDI     2.19 261 eP    21 46.00   5.2X
WWKK     3.09 315 eP    21 59.50   6.1X
PMG      3.81 160 eP    22 03.50  -0.2
HNR     14.45 105 eP    24 42.00  11.7X
                    eS    25 04.00
WR2     17.94 217 iPc   25 14.70  -0.3
         0.8s     6.50nm          3.8mb
ASPA    21.15 212 eP    25 51.60   0.2
         1.5s     7.00nm          3.8mb
     S.D. = 0.4  on   6 of   9 obs.
-------------------------------------
*  OCT  26, 1993  20h 25m 03.85± 0.60s
   37.225 N ±12.6km   70.192 E ±12.7km
   DEPTH =  10.0km  (geophysicist)
   4.5mb (  5 obs.)
 AFGHANISTAN-TAJIKISTAN BORD REG.(717)

MAIO     8.64 267 ePn   27 11.00  -0.9
                    eSn   28 46.00
NDI     10.36 143 ePn   27 35.00  -0.5
         0.5s    10.56nm          5.5mb
                    eSn   29 29.00
                    eSg   30 31.50
HYB     21.06 157 eP    29 51.00   0.4
SHL     21.81 116 eP    29 58.00  -0.2
                    eS    33 49.50
GBA     24.40 163 P     30 25.00   1.6
KAF     36.67 327 eP    32 13.10   1.0
NUR     36.86 324 iP    32 14.20   0.4
         0.3s     2.60nm          4.5mb
HFS     42.10 321 eP    32 57.30   0.1
         0.4s     4.60nm          4.5mb
      Z  15s      0.03um          3.3MszX
                    LR    50 07.00
NB2     43.41 323 P     33 07.70  -0.3
         0.4s     1.40nm          4.1mb
WR2     82.94 121 eP    37 28.70  -1.8
         0.4s     1.80nm          4.6mb
     S.D. = 1.1  on  10 of  10 obs.
-------------------------------------
%  OCT  26, 1993  20h 46m 51.60± 2.80s
   44.812 N ± 9.3km    7.470 E ±22.5km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                    (545)
      ML 2.0 (GEN).

BHB      0.15 282 P     46 56.32   1.2
                    S     46 58.74
RSP      0.37 336 P     46 59.57   0.3
                    S     47 04.23
PZZ      0.40 221 P     46 59.70  -0.2
RRL      0.50 283 P     47 01.03  -0.8
                    S     47 06.39
LSD      0.68 341 P     47 04.74  -0.6
     S.D. = 1.1  on   5 of   5 obs.
-------------------------------------
   OCT  26, 1993  21h 09m 19.45± 1.34s
    5.848 S ± 8.6km  146.138 E ±20.6km
   DEPTH =  10.0km  (geophysicist)
   4.1mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G.  (207)
      ML 4.3 (PMG).

YYYY     0.43 203 iPd   09 27.80  -0.4
                    eS    09 34.00
MDG      0.69 329 eP    09 33.00  -0.1
MNDI     2.49 263 eP    10 04.50   3.7X
WWKK     3.34 311 eP    10 16.00   3.2X
PMG      3.68 164 eP    10 17.00  -0.6
CTA     14.16 180 iPc   12 43.00   0.8
WR2     18.10 218 iPc   13 30.30  -2.4X
         0.6s     7.40nm          4.0mb
ASPA    21.27 212 eP    14 08.80   0.4
         0.8s     9.70nm          4.2mb
     S.D. = 0.8  on   5 of   8 obs.
-------------------------------------
?  OCT  26, 1993  21h 48m 34.66± 3.11s
   20.458 S ±76.0km  179.719 E ±34.9km
   DEPTH = 524.5 ± 20.5 km
   4.1mb (  2 obs.)
 SOUTH OF FIJI ISLANDS             (171)

SVA      2.62 333 eP    49 45.90   0.1
VUN      2.71 334 eP    49 46.00  -0.4
BKM     11.20 282 iPc   51 06.00   0.3
DZM     12.48 260 iPc   51 20.10   1.0
CTA     31.36 265 iPc   54 14.00   0.3
WR2     42.46 262 eP    55 43.60  -1.3
         0.4s     4.10nm          4.3mb
WRA     42.48 262 P     55 44.30  -0.7
         0.4s     1.40nm          3.8mb
EKA    145.11   3 PKPc  07 12.00  -1.1
         0.7s     4.30nm
KSP    146.98 341 ePKP  07 16.20  -0.1
CLL    147.49 344 iPKPd 07 18.90   1.9
         1.0s    14.00nm
BRG    147.64 343 iPKP  07 19.80   2.5X
ZST    148.98 337 e(PKP)07 15.00  -4.5X
GRF    149.42 345 ePKP  07 24.50   4.4X
GEC2   149.54 342 PKP   07 24.40   4.0X
         0.7s     3.24nm
DOU    150.17 354 PKP   07 26.40   5.2X
WLF    150.41 352 iPKPd 07 27.18   5.7X
         1.2s     6.40nm
CDF    151.45 349 ePKP  07 28.90   5.6X
         1.1s    10.00nm
FLN    151.76   0 ePKP  07 29.40   5.8X
         0.8s    13.95nm
LDF    151.93 360 ePKP  07 29.20   5.4X
         0.6s     3.25nm
HAU    152.00 350 ePKP  07 30.20   6.2X
BSF    152.10 350 ePKP  07 30.20   5.9X
GRR    152.13   1 ePKP  07 30.50   6.4X
         0.4s     2.75nm
LPF    152.49   1 ePKP  07 31.30   6.7X
         1.0s    15.00nm
LOR    153.04 354 ePKP  07 32.50   7.0X
         0.6s     3.70nm
SSF    153.28 354 ePKP  07 33.10   7.3X
MFF    153.92 360 ePKP  07 34.40   7.8X
         1.0s    10.00nm
     S.D. = 1.2  on  10 of  26 obs.
-------------------------------------
?  OCT  26, 1993  21h 56m 49.04± 3.84s
   32.634 S ±50.9km   67.238 W ±13.5km
   DEPTH =  10.0km  (geophysicist)
 MENDOZA PROVINCE, ARGENTINA       (139)

MRA      1.31  81 e(P)  57 12.30  -1.0
                    S     57 29.10
CFA      1.33 320 e(P)  57 12.80  -0.8
                    S     57 29.00
RTCV     1.34 305 e(P)  57 14.00   0.2
                    S     57 30.30
RTLL     1.67 321 ePd   57 18.20  -0.3
                    S     57 40.50
RTCB     1.75 310 ePd   57 20.50   0.8
                    S     57 42.50
TCA      2.59  61 eP    57 33.00   1.2
                    (S)   58 06.00
     S.D. = 1.1  on   6 of   6 obs.
-------------------------------------
%  OCT  26, 1993  22h 30m 44.23± 1.47s
   44.095 N ± 9.7km    7.263 E ± 8.1km
   DEPTH =  10.0km  (geophysicist)
```

NORTHERN ITALY (545)
ML 2.4 (GEN).

STV	0.16	17	P	30 48.16	0.3
			S	30 51.22	
ENR	0.17	41	P	30 48.48	0.3
			S	30 51.73	
PZZ	0.43	344	P	30 53.10	0.1
			S	30 59.23	
ROB	0.48	65	P	30 54.20	0.2
			S	31 00.53	
IMI	0.49	112	P	30 54.24	0.1
			S	31 00.74	
FIN	0.69	80	P	30 57.58	-0.3
			S	31 06.74	
BHB	0.75	0	P	30 58.50	-0.4
			S	31 08.14	
RRL	0.89	338	P	31 01.68	0.2
PCP	1.02	64	P	31 03.51	-0.1
RSP	1.06	360	P	31 03.39	-0.8
LSD	1.36	357	P	31 10.03	0.5

S.D. = 0.4 on 11 of 11 obs.

? OCT 26, 1993 23h 13m 54.53± 3.02s
22.147 S ±13.9km 65.636 W ±70.0km
DEPTH = 269.3 ± 33.6 km
JUJUY PROVINCE, ARGENTINA (128)

YJA	0.13	101	iPc	14 30.10	-0.5
			S	14 56.30	
MOCB	0.89	360	P	14 32.30	0.4
HJA	1.08	169	ePd	14 32.40	0.1
SLA	2.57	177	iPd	14 44.50	0.1
CCH	4.76	354	eP	15 09.00	0.0
			e	16 05.00	
CNCB	5.75	337	P	15 21.20	0.0
			S	16 29.00	
LPB	6.05	337	P	15 25.80	1.1
LPAZ	6.29	338	P	15 26.70	-1.2
			S	16 37.30	

S.D. = 0.9 on 8 of 8 obs.

? OCT 26, 1993 23h 43m 13.84± 2.66s
36.155 S ±21.8km 178.122 E ±28.5km
DEPTH = 227.4 ± 17.0 km
3.1mb (1 obs.)
OFF E. COAST OF N. ISLAND, N.Z. (160)

PUZ	1.92	177	P	43 52.90	-1.1
			S	44 25.60	
KUZ	2.02	252	Pc	43 53.00	-2.0
			S	44 24.60	
URZ	2.25	201	P	43 57.60	0.4
			S	44 35.20	
NOZ	2.46	182	P	43 59.60	0.2
PAHZ	2.83	197	P	44 04.50	1.0
MAHZ	3.03	184	eP	44 07.10	1.4
MOZ	3.54	227	P	44 15.30	3.7
WAHZ	3.80	201	eP	44 15.40	0.6
MNG	4.92	204	P	44 28.00	-0.4
			S	45 32.70	
KIW	5.33	207	eP	44 32.90	-0.8
MTW	5.40	202	P	44 34.00	-0.5
CAW	5.49	205	P	44 35.60	-0.1
MRW	5.73	207	eP	44 37.60	-1.1
TCW	5.88	210	P	44 38.70	-1.9
KHZ	7.19	208	P	44 57.60	0.3
WRA	41.51	281	P	50 40.80	0.4
	0.5s		0.40nm		3.1mb

S.D. = 1.5 on 16 of 16 obs.

& OCT 26, 1993 23h 49m 02.70s
60.409 N 152.407 W
DEPTH = 100.3km
SOUTHERN ALASKA (2)
<AEIC>.

RDT	0.17	0	iPd	49 16.45	0.9
			eS	49 27.56	
REF	0.17	299	ePd	49 16.73	1.1
			eS	49 27.56	
RSO	0.18	287	eP	49 16.94	1.2
RED	0.18	273	eP	49 16.39	0.8
			eS	49 27.17	
RS2	0.18	287	ePd	49 16.81	1.1
DFR	0.23	323	ePc	49 16.63	0.9
			eS	49 27.38	
NCT	0.30	301	eP	49 17.04	-0.6
			eS	49 28.52	
ILIM	0.43	220	ePd	49 17.50	-0.8
INE	0.48	223	ePd	49 17.99	-0.8
NKA	0.67	59	ePc	49 21.24	1.2
CKL	0.79	2	iPc	49 19.42	-2.0
			eS	49 32.80	
SPU	0.79	12	iPc	49 20.55	-0.8
CKT	0.80	7	iPc	49 21.63	0.2
			eS	49 37.03	
CKN	0.83	8	eP	49 21.63	0.0
			eS	49 37.06	
HOM	0.85	153	eP	49 21.33	-0.4
			eS	49 36.52	
BGL	0.86	1	eP	49 21.08	-1.0
CPAM	0.86	9	iPc	49 21.42	-0.6
			eS	49 36.21	
CP2	0.86	5	iPc	49 21.60	-0.6
OPT	0.86	209	eP	49 21.40	-0.6
			eS	49 36.38	
CRP	0.87	8	ePc	49 20.61	-1.6
CGLM	0.92	12	iPc	49 21.98	-0.7
BRLK	1.00	130	eP	49 22.34	-1.1
			eS	49 38.17	
CNPM	1.06	146	ePd	49 23.24	-0.9
			eS	49 39.75	
SLKM	1.09	84	eP	49 23.51	-0.9
			eS	49 39.48	
PDB	1.09	236	iPc	49 23.28	-1.1
			eS	49 39.39	
AUL	1.15	207	eP	49 24.44	-0.7
AUE	1.16	205	eP	49 24.28	-0.9
AUH	1.17	207	eP	49 24.67	-0.8
AUW	1.17	208	eP	49 24.64	-0.7
AUI	1.19	206	eP	49 24.84	-0.8
			eS	49 41.67	
SUA	1.33	37	iPc	49 26.98	-0.5
			eS	49 45.87	
SEW	1.51	100	eP	49 28.07	-1.3
MPA	1.51	86	eP	49 28.44	-1.0
MCNL	1.57	219	eP	49 28.98	-1.2
			eS	49 49.11	
CDD	1.61	203	ePc	49 29.36	-1.4
			eS	49 51.18	
SKT	1.63	15	iPc	49 29.96	-1.1
SVW	1.73	295	P	49 30.80	-1.5
PWA	1.75	44	P	49 31.70	-0.8
SYI	1.80	180	eP	49 32.18	-1.0
PLRM	1.99	52	eP	49 34.10	-1.5
PWL	2.06	76	ePd	49 34.39	-2.2
GHO	2.18	50	ePc	49 36.50	-1.7
			eS	50 02.28	
CUT	2.25	26	eP	49 37.96	-1.1
SML	2.43	53	ePc	49 39.59	-1.9
SCM	2.85	58	eP	49 45.15	-2.1
HIN	2.93	88	eP	49 46.91	-1.4
TRF	3.21	17	eP	49 51.06	-1.2
KLU	3.35	68	ePc	49 51.33	-2.7
TOA	3.46	58	P	49 53.90	-1.7
PAX	4.19	49	eP	50 03.83	-1.7
IL1	5.07	28	eP	50 14.90	-2.7
IM3	5.63	354	eP	50 23.32	-2.1
BC3	5.71	58	eP	50 23.59	-2.9

53 obs. associated

---

* OCT 27, 1993 00h 15m 38.83± 0.72s
5.717 S ± 9.7km 145.988 E ± 8.0km
DEPTH = 10.0km (geophysicist)
4.5mb (6 obs.) 3.8Msz (1 obs.)
EASTERN NEW GUINEA REG., P.N.G. (207)

LAT	1.38	133	iPc	16 04.40	0.3
MNDI	2.36	259	eP	16 25.00	6.6X
WWKK	3.14	311	eP	16 37.50	8.1X
PMG	3.84	163	iPd	16 38.90	-0.4
KVG	5.73	57	eP	17 14.20	8.2X
JAY	6.16	301	ePc	17 20.70	8.6X
			eS	19 00.60	
CTA	14.29	179	iPd	19 05.00	1.6
	1.0s		12.50nm		4.6mb
HNR	14.32	106	eP	19 05.00	1.2
			eS	21 55.00	
MTN	16.28	243	eP	19 30.20	1.0
	0.8s		64.00nm		4.8mb
WR2	18.11	218	iPd	19 52.30	0.1
	0.7s		22.40nm		4.4mb
			eS	23 03.70	
ASPA	21.31	212	eP	20 27.00	-1.1
	1.0s		22.70nm		4.5mb
	Z 22s		0.40um		3.8Msz
			i	20 31.20	
			eS	24 25.90	
BKM	24.78	121	iPc	21 02.70	0.4
DZM	25.60	131	iPc	21 08.10	-2.1
STK	26.35	188	eP	21 16.10	-0.8
	1.2s		5.60nm		4.1mb
PUZ	43.55	142	P	23 44.60	0.0
MNG	43.66	147	P	23 45.00	-0.4
GBA	70.69	286	P	27 06.00	8.6X
CRP	81.94	25	(P)	28 00.48	0.4
FBA	85.32	23	eP	28 16.40	-0.6
	0.6s		2.90nm		4.7mb
MOCB	139.00	132	PKP	35 09.50	0.5
CNCB	139.64	124	PKP	35 05.00	-5.4X
LPAZ	139.78	123	PKP	35 03.70	-7.0X
PPD	147.63	149	ePKP	35 26.40	3.2X
BAO	154.67	147	ePKP	35 37.20	3.4X
			i	35 43.00	
			e	35 50.00	

S.D. = 1.0 on 15 of 24 obs.

OCT 27, 1993 00h 33m 00.98± 2.08s
43.177 N ± 7.3km 128.387 W ±16.0km
DEPTH = 10.0km (geophysicist)
OFF COAST OF OREGON (30)

RNO	3.46	76	P	33 56.04	0.0
MPOR	3.74	68	P	33 58.86	-1.3
DBO	3.77	89	P	34 00.57	0.1
HSO	3.88	83	P	34 02.09	0.1
TKO	4.17	57	P	34 05.44	-0.6
BBOR	4.19	92	P	34 07.40	0.8
KMOR	4.28	53	P	34 06.87	-0.9
FBO	4.36	73	P	34 09.03	0.2
HBO	4.46	79	P	34 10.94	0.6
SSOR	4.59	67	P	34 12.20	0.0
GT2	4.82	64	P	34 15.74	0.3
BMW	4.93	46	P	34 16.26	-0.7
RVW	5.00	52	P	34 17.78	-0.1
BPO	5.06	71	P	34 18.97	0.1
LVP	5.15	54	P	34 20.20	0.1
VBEM	5.25	67	P	34 21.48	0.0
MTMW	5.25	55	P	34 21.39	-0.1
FL2	5.26	53	P	34 21.56	0.0
CZM	5.30	50	P	34 21.97	-0.2
SHW	5.32	53	eP	34 22.65	0.1
ERK	5.32	52	P	34 22.45	-0.1
VLL	5.33	62	P	34 23.06	0.5
HSR	5.34	54	P	34 23.38	0.5
JLK	5.35	54	P	34 23.14	0.3
REMW	5.36	54	P	34 23.50	0.4
YEL	5.36	53	P	34 23.31	0.2
ESD	5.37	54	P	34 23.64	0.3
CDFW	5.39	55	P	34 23.39	-0.1
VFP	5.41	64	P	34 24.30	0.4
TDL	5.42	52	P	34 23.90	0.0
OOW	5.43	31	P	34 24.74	0.8
LMW	5.56	49	P	34 25.85	0.0
GULW	5.58	58	P	34 26.74	0.6
ASR	5.68	56	P	34 27.69	0.1
VIPM	5.77	74	P	34 28.26	-0.7
HDW	5.84	38	P	34 29.84	0.2
LON	5.88	50	eP	34 30.24	0.0
GMW	5.89	40	(P)	34 29.99	-0.3
GLK	5.89	53	P	34 30.87	0.4
REMR	5.90	50	P	34 30.92	0.3
RVC	5.90	48	P	34 30.76	0.2
VGB	5.94	64	P	34 30.83	-0.2
RCS	5.99	50	P	34 32.19	0.1
WPW	6.00	52	P	34 32.03	0.1
FMW	6.06	49	P	34 32.94	0.0
GL2	6.08	60	P	34 32.88	-0.2
GSM	6.16	47	P	34 34.44	0.2
NAC	6.44	54	P	34 38.29	0.1
JBO	6.54	67	P	34 39.21	-0.5
HTW	6.56	43	P	34 39.50	-0.4
MXC	6.68	57	P	34 41.93	0.4
JCW	6.75	40	P	34 42.51	-0.1
RSW	7.04	60	P	34 46.13	-0.5
RPW	7.13	40	P	34 47.53	-0.3
ETW	7.19	49	P	34 48.99	0.1
EPH	7.48	53	P	34 52.81	0.1
SAW	7.77	51	P	34 56.10	-0.7
MSU	13.13	105	(P)	36 10.01	-0.3

27d 00h

```
SRU    14.06 101 (P)   36 22.17  -0.3
     S.D. = 0.4  on  59 of  59 obs.
-------------------------------------
%  OCT  27, 1993  02h 43m 26.45± 1.57s
   31.796 S ± 8.7km   69.511 W ±13.6km
   DEPTH = 114.1 ± 15.7 km
 SAN JUAN PROVINCE, ARGENTINA     (137)

RTCB    0.68  63 iPc   43 45.00  -0.4
                S      43 59.50
RTCV    0.83  95 iPc   43 47.00   0.3
                S      44 03.00
RTLL    1.00  63 iPc   43 48.00  -0.4
                S      44 05.00
CFA     1.10  80 e(P)  43 49.80   0.4
                S      44 07.80
RTRS    1.62   2 iPd   43 55.50   0.2
                S      44 18.00
RTPR    2.97  61 eP    44 13.00   0.1
RFA     3.09 164 iPd   44 14.50  -0.1
MRA     3.28 102 ePd   44 17.40   0.3
TCA     4.22  85 iPd   44 29.50  -0.4
                (S)    45 18.00
     S.D. = 0.4  on   9 of   9 obs.
-------------------------------------
?  OCT  27, 1993  03h 49m 38.55± 0.92s
   38.744 N ± 7.1km   27.332 E ±11.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 2.8 (ISK).

IZM     0.35 189 iPg   49 45.80   0.0
                iSg    49 52.60
DST     1.32  49 ePn   50 02.90  -0.1
EZN     1.33 324 ePn   50 03.00  -0.1
EDC     1.65  14 ePn   50 07.90   0.2
     S.D. = 0.3  on   4 of   4 obs.
-------------------------------------
   OCT  27, 1993  04h 53m 27.72± 0.79s
   52.845 N ± 4.5km  160.176 E ± 3.7km
   DEPTH =  67.5 ±  7.3 km
   5.1mb ( 53 obs.)
 OFF EAST COAST OF KAMCHATKA      (219)

PET     0.94 281 iPnd- 53 47.00   1.5
                eS     54 00.00
SKR     3.34 231 ePn   54 16.80  -1.8
                eS     54 52.90
YSS    12.66 250 iPnd  56 27.50   1.1
     Z  16s     0.70um
KUSJ   14.20 233 eP    56 39.90  -6.7X
ASAJ   14.51 240 eP    56 50.00  -0.7
HOOJ   15.43 234 eP    56 56.40  -6.1X
MRRJ   16.51 238 eP    57 11.70  -4.5X
ILT    18.19  26 iPd   57 37.20   0.5
       1.0s    40.00nm          4.6mb
YAK    18.62 312 iPc   57 39.20  -2.7X
       1.0s   307.00nm          5.5mb
     N  18s     0.50um
     E  18s     0.60um
                eS     01 06.00
OFUJ   18.76 230 eP    57 37.00  -6.8X
NIIJ   21.49 232 P     58 11.60  -0.7
KAKJ   21.79 228 P     58 16.50   1.2
MAT    22.43 232 eP    58 21.00  -0.7
       0.9s    40.34nm          4.9mb
CHJJ   22.46 230 P     58 23.10   1.2
MTMJ   22.59 233 P     58 24.10   0.8
TIK    23.32 335 iPc   58 29.00  -0.9
       1.0s   120.00nm          5.3mb
                e      59 07.00
                e      02 35.00
TSRJ   24.32 234 eP    58 39.90   0.0
TTA    24.88  49 eP    58 45.80   0.6
SVW    25.02  53 eP    58 47.60   1.1
WKYJ   25.56 233 P     58 52.40   0.6
YONJ   25.86 238 P     58 53.90  -0.5
IMA    26.19  42 eP    58 57.00  -0.4
       1.1s    15.10nm          4.4mb
TKSJ   26.51 235 P     59 00.80   0.4
PWA    27.76  52 eP    59 13.60   2.1
       0.8s    12.60nm          4.6mb
CIT    28.03 287 eP    59 12.80  -1.4
FBA    28.57  45 eP    59 18.70   0.0
       0.6s    11.40nm          4.7mb
KUMJ   29.29 238 eP    59 25.30  -0.3
TOA    29.46  50 eP    59 26.90   0.0
KAGJ   30.34 236 eP    59 35.30   0.5
BJI    32.39 265 eP    59 55.00   2.3
     Z  20s     0.60um          4.3Msz
INK    34.04  37 ePc   00 06.50  -0.2
       0.7s    6.00nm          4.6mb
ZAK    34.63 289 iPc   00 10.30  -1.6
       1.1s   24.00nm          5.0mb
     Z  13s     0.49um          4.4MszX
NRI    35.94 325 iPd   00 20.50  -2.3
       0.5s   39.00nm          5.6mb
                e      01 47.00
                e      02 47.00
MBC    37.25  23 ePc   00 35.00   1.2
       0.6s   10.00nm          4.9mb
LZH    42.39 270 eP    01 13.00  -4.0X
       1.5s   29.00nm          4.9mb
     Z  20s     0.30um          4.2Msz
                pP     01 24.00  39kmX
                sP     01 30.00
                PcP    03 09.50
YKA    43.31  42 eP    01 24.10   0.2
       0.7s    5.00nm          4.4mb
RES    43.54  22 ePd   01 26.00   0.4
       0.8s   12.00nm          4.7mb
DAG    50.66 360 iPd   02 20.30  -1.0
       0.6s   29.33nm          5.5mb
KMI    50.83 260 eP    02 22.00  -1.5
       1.5s   50.00nm          5.3mb
SVE    52.50 317 ePc   02 34.10  -1.4
       2.1s   40.00nm          5.1mb
ARU    53.62 317 eP    02 42.00  -1.7
LRM    54.00  60 eP    02 46.50  -0.5
TRO    54.61 344 eP    02 49.50  -1.4
COE    54.65  73 eP    02 51.47  -0.1
ARN    54.66  73 eP    02 51.46  -0.3
CMB    54.86  72 eP    02 53.20   0.0
       0.8s    4.66nm          4.6mb
FRU    55.03 296 iP    02 52.30  -2.1
       1.8s   50.00nm          5.2mb
SDF    55.16 340 iP    02 54.10  -0.8
BONR   56.11  70 eP    03 02.91   0.4
HVU    56.56  64 eP    03 05.60   0.1
LOF    56.82 346 eP    03 04.95  -1.8
DUG    57.63  65 eP    03 13.11   0.0
       0.8s    4.97nm          4.7mb
                e      03 26.95
FRB    57.72  23 eP    03 11.00  -2.1
       0.7s    6.00nm          4.8mb
CHTO   57.90 259 ePc   03 14.50  -0.4
       1.1s   30.62nm          5.3mb
GSC    58.82  72 iPd   03 21.29  -0.1
ULM    58.96  47 ePc   03 24.00   2.0
ARUT   58.98  67 eP    03 21.88  -0.6
RSSD   59.50  56 eP    03 25.58  -0.5
       0.8s   14.10nm          5.1mb
SRU    59.65  64 eP    03 26.89  -0.3
KAF    59.73 337 iP    03 26.00  -1.1
       0.5s   69.00nm          6.0mb
PUL    60.73 334 (P)   03 33.00  -0.9
       1.0s  160.00nm          6.1mb
PV09   60.85  64 eP    03 35.59   0.1
PV10   60.99  64 eP    03 36.54   0.2
PV08   61.06  64 eP    03 37.12   0.2
KHT    61.26 256 eP    03 38.30   0.3
NUR    61.53 337 iP    03 38.20  -1.1
       0.5s   40.70nm          5.8mb
MOL    62.92 346 eP    03 47.33  -1.2
UPP    63.68 340 iP    03 52.70  -0.9
NB2    63.80 344 P     03 53.40  -1.0
       0.8s   35.20nm          5.4mb
JAQ    64.00  33 eP    03 55.00  -0.8
NAO    64.06 344 P     03 52.11  -4.0X
HFS    64.20 342 eP    03 55.50  -1.5
       0.5s   19.50nm          5.3mb
     Z  20s     0.07um          3.8Msz
                LR     27 04.00
SNG    66.20 249 eP    04 11.80   1.5
MUD    68.48 343 eP    04 24.10   0.0
       0.9s   18.00nm          5.0mb
COP    68.61 341 iPc   04 25.80   0.9
       0.9s   50.42nm          5.5mb
BSD    68.64 339 iPd   04 24.80  -0.3
       0.9s   46.00nm          5.4mb
WMOK   69.19  60 iPd   04 28.56  -0.3
       0.8s   14.91nm          5.0mb
                e      04 41.95
MEO    69.26  60 iPc   04 28.80  -0.5
TUL    69.83  57 iP    04 32.40  -0.3
LTX    70.69  67 eP    04 36.60  -1.6
FVM    70.85  52 eP    04 37.95  -1.0
       0.6s   17.62nm          5.2mb
GAC    70.89  38 eP    04 37.00  -2.0
HYB    71.28 274 iPc   04 40.60  -1.2
       1.0s   90.00nm          5.7mb
EKA    71.31 350 Pc    04 41.40   0.0
       0.9s   12.20nm          4.8mb
ERE    71.96 313 iPc   04 45.00  -0.7
ELC    71.98  52 ePd   04 44.95  -0.7
OJC    71.99 334 iPc   04 45.80   0.3
       1.0s   68.00nm          5.5mb
KSP    72.29 337 iPd   04 47.50   0.2
WIT    72.40 343 eP    04 51.00   3.1X
CLL    72.60 339 iPc   04 48.50  -0.6
       1.1s   56.00nm          5.4mb
UZH    72.75 332 ePc   04 50.20   0.2
       1.0s   30.00nm          5.2mb
                e      05 03.80
                e      05 17.20
BRG    72.81 338 iP    04 50.40   0.1
       1.2s   32.00nm          5.1mb
                i      05 05.30
SPC    72.82 334 eP    04 49.80  -0.8
WTS    73.17 343 ePc   04 52.50   0.2
       0.7s   29.50nm          5.3mb
POO    73.26 279 iPc   04 54.80   1.3
MOX    73.52 340 ePc   04 54.60   0.1
       1.3s   26.00nm          5.0mb
                e      05 11.30
VRAC   73.64 336 eP    04 55.80   0.7
DLF    73.65 352 eP    04 55.00  -0.1
DCN    73.66 352 eP    04 55.20   0.0
PSZ    74.07 333 eP    04 57.60  -0.2
OXF    74.12  54 eP    04 55.28  -2.9
LMN    74.41  31 eP    04 59.00  -0.7
MLR    74.49 328 ePd   05 00.00  -0.3
ENN    74.50 343 eP    05 00.50   0.4
       1.0s   40.00nm          5.3mb
GRF    74.51 340 iPc   05 01.10   0.9
       1.3s   68.00nm          5.4mb
     Z  21s     0.10um          4.1Msz
ZST    74.55 335 eP    05 01.40   1.0
SRO    74.59 334 iP    05 02.20   1.5
MEM    74.64 343 iPc   05 01.21   0.3
       0.9s   20.30nm          5.1mb
WET    74.67 338 iPc   05 01.80   0.6
GEC2   74.76 338 P     05 01.70  -0.1
       0.6s    7.22nm          4.8mb
GBA    74.91 273 Pc    05 02.00  -1.0
       0.7s   33.00nm          5.4mb
SNF    75.02 344 Pc    05 03.80   0.7
KAS    75.37 321 eP    05 05.50   0.1
DOU    75.38 344 Pc    05 04.90  -0.3
       0.8s   28.30nm          5.2mb
                e      05 26.90
LANF   75.87 342 P     05 08.18   0.1
WR2    75.87 205 eP    05 07.20  -1.1
       1.1s   11.50nm          4.7mb
WRA    75.88 205 P     05 07.69  -0.6
       0.5s    3.40nm          4.5mb
KBA    76.51 337 iPc   05 12.70   0.9
       0.6s   39.10nm          5.5mb
                i      05 31.60
WLS    76.51 342 P     05 11.89   0.3
CDF    76.52 342 P     05 11.93   0.2
WATA   76.66 339 iPc   05 13.10   0.4
WTTA   76.72 339 iPc   05 13.70   0.7
       0.6s   12.50nm          5.0mb
                i      05 34.40
ECH    76.73 342 P     05 12.85   0.0
MOTA   76.76 339 iPc   05 13.50   0.3
       0.7s    9.60nm          4.9mb
SQTA   76.85 339 iPc   05 14.40   0.7
       0.6s   12.20nm          5.0mb
                i      05 29.50
                i      05 34.90
FEL    76.89 341 P     05 13.67  -0.2
VITF   76.95 343 P     05 14.31   0.3
PTJ    76.97 335 eP    05 14.60   0.3
MOF    77.09 342 P     05 14.92   0.0
OGA    77.23 339 iPc   05 16.70   0.8
OSS    77.59 339 ePc   05 18.50   0.7
LOMF   77.62 342 P     05 19.34   1.5
LLS    77.66 340 ePc   05 18.70   0.5
VDL    77.92 340 iPc   05 20.60   0.9
```

```
TMA     78.41 340 iPc    05 22.70    0.4
MMK     78.65 341 ePc    05 24.80    1.1
DIX     78.73 341 iPc    05 25.30    1.1
EMS     78.84 341 ePd    05 25.60    0.9
RSL     79.26 341 P      05 27.73    0.8
HVAR    79.38 334 iPc    05 27.30   -0.1
PLDF    79.54 344 P      05 29.15    0.8
AGO     79.54 344 P      05 29.21    1.0
ASPA    79.55 204 P      05 29.29    0.8
PYM     79.85 344 P      05 30.91    0.9
SSB     80.04 343 P      05 31.58    0.6
LBL     80.32 344 P      05 33.62    1.1
LESF    82.78 345 P      05 46.87    1.5
GRBF    82.93 344 P      05 47.30    1.2
ENSF    83.15 345 P      05 49.21    1.8
PAND    83.24 344 P      05 49.36    1.5
LPAZ   127.52  65 PKP    12 26.50   -0.8
LPB    127.74  65 ePKP   12 28.00    0.6
CNCB   128.03  65 PKP    12 19.00   -9.2X
MOCB   132.91  66 PKP    12 37.30    0.1
SUR    144.41 289 iPKPc 13 03.00    5.5X
        1.0s     50.00nm
     S.D. = 1.0  on 145 of 155 obs.
-----------------------------------
   OCT  27, 1993  05h 31m 27.91± 0.52s
   38.495 S ± 5.1km  175.719 E ± 6.5km
   DEPTH = 187.1 ±  6.4 km
 NORTH ISLAND, NEW ZEALAND        (159)

PATZ     0.44  75 Pc     31 53.30   -0.2
UTU      0.49  50 P      31 53.30   -0.3
WLZ      0.63 351 Pd     31 54.00   -0.3
                  S      32 12.80
TAZ      0.67  67 P      31 54.10   -0.4
NGZ      0.69 188 Pc     31 55.20    0.4
CNZ      0.72 191 P      31 55.50    0.6
MOZ      0.72 269 Pc     31 55.10    0.3
PAHZ     1.11 110 P      31 57.70    0.2
URZ      1.12  78 P      31 56.40   -1.1
                  S      32 15.80
WAHZ     1.30 158 Pc     32 00.10    1.1
TTH      1.35 141 P      32 00.60    1.2
BSZ      1.44 205 P      32 01.40    1.2
NRZ      1.63 238 P      32 03.60    1.6
TEHZ     1.72 151 P      32 03.90    1.0
KUZ      1.75   0 Pd     32 02.20   -0.9
                  eS     32 27.60
NOZ      1.82  95 P      32 03.60   -0.3
MAHZ     1.82 113 P      32 04.60    0.6
PUZ      2.04  79 Pd     32 05.30   -1.0
                  S      32 31.10
MNG      2.13 185 iPc    32 07.90    0.7
                  S      32 35.50
PGZ      2.16 169 iPd    32 08.30    0.7
HBZ      2.23  67 iP     32 07.50   -0.8
KIW      2.45 194 Pc     32 11.10    0.3
CAW      2.66 191 P      32 13.50    0.3
MTW      2.67 184 iPc    32 13.30    0.0
DIW      2.69 210 P      32 13.90    0.3
MRW      2.84 196 P      32 15.50    0.1
                  S      32 50.40
BLW      2.88 184 Pc     32 15.80    0.0
WEL      2.88 194 P      32 16.00    0.1
                  S      32 51.00
TCW      2.93 202 Pc     32 16.60    0.1
QRZ      3.39 226 P      32 21.20   -0.9
                  eS     33 02.70
THZ      3.91 213 eP     32 28.00   -0.7
                  eS     33 14.20
KHZ      4.26 202 iPd    32 32.90   -0.1
DSZ      4.42 222 P      32 33.80   -1.4
LTZ      5.02 210 P      32 41.50   -1.5
                  S      33 37.40
MQZ      5.70 203 P      32 49.50   -2.2
                  S      33 49.60
ODZ      7.56 208 P      33 15.00   -1.3
                  S      34 35.60
WRA     40.17 285 P      38 49.30    2.0
        1.1s     0.40nm          2.9mb
WWKK    45.38 312 eP     39 30.20    0.8
     S.D. = 1.0  on  38 of  38 obs.
-----------------------------------
   OCT  27, 1993  05h 37m 37.22± 0.36s
    5.805 S ± 5.8km  145.852 E ± 6.6km
   DEPTH =  10.0km  (geophysicist)
   4.9mb ( 15 obs.)  4.6Msz (  5 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

      ML 5.0 (PMG).

YYYY     0.45 165 iPd    37 46.90    0.5
MDG      0.56 353 iPd    37 48.20   -0.3
LAT      1.43 127 eP     38 04.50    1.3
MNDI     2.21 261 eP     38 19.50    4.8X
WWKK     3.10 314 eP     38 31.20    4.0X
PMG      3.80 160 iPc    38 37.50    0.3
KVG      5.89  57 eP     39 03.70   -2.9X
JAY      6.09 302 iPc    39 15.20    5.7X
                  e(S)   41 44.40
RAB      6.49  76 e(P)   39 18.00    2.8X
CTA     14.20 178 iPc    41 04.00    3.4X
                  i      41 13.00
                  iS     43 51.00
HNR     14.43 105 eP     41 04.00    0.4
MTN     16.12 243 eP     41 24.50   -1.1
         0.7s   123.00nm          5.1mb
WR2     17.96 217 eP     41 48.10   -0.6
         0.8s    21.30nm          4.3mb
                  i      41 54.00
                  eS     44 50.40
GUA     19.24 357 eP     42 07.80    3.3X
         1.0s    96.00nm          5.0mb
GUMO    19.29 357 eP     42 07.60    2.4X
PJG     19.29 357 eP     42 08.50    3.3X
KNA     19.46 238 eP     42 05.80   -1.4
ASPA    21.16 212 iPd    42 24.10   -0.9
         1.1s    34.00nm          4.6mb
      Z  20s     2.80um          4.6Msz
                  i      42 33.00
                  eS     46 09.20
BKM     24.85 120 iPc    43 02.00    0.6
DZM     25.65 131 iPd    43 07.20   -1.8
STK     26.25 188 eP     43 13.40   -0.9
         0.6s     5.90nm          4.5mb
TOO     31.62 181 eP     44 02.00   -0.6
AFI     42.46 104 eP     45 35.00    0.6
MAT     42.73 351 eP     45 32.00   -4.3X
         1.2s    17.19nm          4.7mb
                  eS     51 59.00
QIZ     43.21 306 eP     45 42.50    2.0
PUZ     43.56 142 P      45 43.00   -0.1
MNG     43.66 147 P      45 44.40    0.6
TUZ     45.00 157 P      45 54.40   -0.1
IPM     45.94 282 ePc    46 03.60    1.1
         0.8s    21.40nm          5.2mb
SNG     46.94 285 eP     46 12.00    1.6
NST     50.05 296 eP     46 35.00    0.6
KHT     51.12 294 eP     46 43.70    1.1
KMI     51.98 308 eP     46 51.50    2.2
CHTO    52.29 299 eP     46 52.50    1.0
XAN     52.81 321 eP     46 52.50   -2.7
         0.8s     3.40nm          4.3mb
      Z  20s     0.30um          4.3Msz
                  pP     46 59.00   21kmX
BJI     53.18 332 eP     46 57.50   -0.2
      Z  20s     0.60um          4.6Msz
CD2     54.32 315 eP     47 11.00    4.6X
      Z  20s     0.94um          4.9Msz
BTO     56.70 328 eP     47 26.90    3.4X
LZH     57.32 320 eP     47 25.50   -2.6
         2.0s    27.00nm          4.9mb
      Z  20s     0.50um          4.6Msz
                  pP     47 33.00   24kmX
GTA     61.87 321 eP     48 03.50    4.2X
         1.4s     7.00nm          4.7mb
LSA     63.21 307 P      48 10.40    1.6
GBA     70.59 287 P      48 56.00    0.8
SVW     80.53  25 eP     49 49.85   -1.2
         0.8s    15.86nm          5.1mb
PWA     83.23  26 eP     50 03.50   -1.4
         0.9s    12.60nm          5.1mb
IMA     83.78  21 eP     50 05.91   -2.0
         1.0s     5.03nm          4.7mb
SPA     84.23 180 iPc    50 04.90   -5.3X
         0.7s    11.72nm          5.2mb
KLU     84.90  27 eP     50 13.30   -0.2
TOA     85.02  26 eP     50 13.70   -0.4
FBA     85.45  23 eP     50 12.97   -3.1X
         0.7s     7.72nm          5.0mb
MOCB   139.04 132 PKP    57 08.70    1.2
CNCB   139.70 124 PKP    57 02.40   -6.5X
LPB    139.75 124 ePKP   57 03.00   -5.8X
LPAZ   139.85 124 PKP    56 59.80   -9.4X
CCH    140.89 127 PKP    57 05.80   -4.9X
SDV    143.70  83 ePKP   57 11.00   -4.5X
TOV    144.48  81 ePKP   57 11.10   -5.6X
CAR    147.23  80 ePKP   57 28.00    6.7X
PPD    147.63 149 ePKP   57 22.50    0.9
BAO    154.67 147 ePKP   57 39.30    7.1X
                  e      57 44.70
                  i      57 48.10
                  e      57 50.50
     S.D. = 1.3  on  36 of  59 obs.
-----------------------------------
%  OCT  27, 1993  05h 55m 52.74± 0.58s
   40.694 N ± 4.8km   23.394 E ± 5.4km
   DEPTH =  10.0km  (geophysicist)
 GREECE                            (364)
      ML 2.4 (THE).

SOH      0.13 347 ePg    55 56.34    0.4
                  eSg    55 57.78
THE      0.33 259 ePg    55 59.38   -0.2
                  eSg    56 03.62
SRS      0.45  19 ePg    56 01.82   -0.1
OUR      0.57 128 ePg    56 04.74    0.4
                  eSg    56 11.74
KNT      0.60 321 ePg    56 04.38   -0.5
                  eSg    56 12.62
PAIG     0.80 164 ePg    56 07.50   -0.7
                  eSg    56 19.38
GRG      0.80 290 ePg    56 08.34    0.1
                  eSg    56 19.70
LIT      0.91 230 ePg    56 10.78    0.6
                  eSg    56 22.62
     S.D. = 0.5  on   8 of   8 obs.
-----------------------------------
%  OCT  27, 1993  05h 57m 44.87± 0.74s
   39.846 N ± 8.0km   26.619 E ± 6.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 3.1 (ISK).

EZN      0.23 265 iPg    57 49.90    0.2
MFT      1.07  28 ePn    58 05.00    0.0
EDC      1.08  62 iPn    58 05.50    0.4
IZM      1.53 161 iPn    58 12.00   -0.3
DST      1.57  98 iPn    58 13.20    0.4
CTT      1.90  46 ePn    58 17.00   -0.6
     S.D. = 0.5  on   6 of   6 obs.
-----------------------------------
*  OCT  27, 1993  06h 37m 01.03± 0.94s
    5.904 S ± 7.7km  146.061 E ±11.7km
   DEPTH =  10.0km  (geophysicist)
   3.5mb (  1 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY     0.35 195 iPd    37 08.90    0.7
                  eS     37 15.00
MDG      0.71 337 eP     37 15.20    0.2
LAT      1.20 129 eP     37 23.40    0.0
WWKK     3.32 313 eP     37 59.80    5.7X
PMG      3.65 163 eP     37 58.00   -0.7
CTA     14.10 179 e(P)   40 24.00    0.9
WR2     18.00 218 eP     41 12.10   -1.1
         0.9s     3.60nm          3.5mb
WRA     18.02 218 P      41 25.40   12.1X
         0.7s     0.90nm
     S.D. = 1.0  on   6 of   8 obs.
-----------------------------------
?  OCT  27, 1993  06h 49m 56.70± 0.97s
    5.918 S ± 7.9km  146.037 E ±13.8km
   DEPTH =  10.0km  (geophysicist)
 EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY     0.33 192 eP     50 03.70    0.1
                  eS     50 09.00
MDG      0.71 339 eP     50 10.70    0.0
LAT      1.21 128 eP     50 19.40    0.1
PMG      3.64 162 eP     50 54.00   -0.3
     S.D. = 0.3  on   4 of   4 obs.
-----------------------------------
%  OCT  27, 1993  07h 02m 34.83± 0.69s
   28.062 S ± 6.0km   26.949 E ± 7.0km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA          (584)
      ML 2.4 (PRE).

SEK      0.65 114 eP     02 48.00    0.1
                  S      02 56.30
BFS      1.17 353 eP     02 57.60    0.4
                  S      03 11.90
```

27d 07h

```
BLF      1.24 213 eP    02 58.40   0.0
                  S     03 18.00
SWZ      1.69 301 eP    03 05.20   0.0
                  S     03 24.10
KSR      2.19 359 eP    03 12.50  -0.1
SLR      2.61  27 eP    03 18.10  -0.4
                  S     03 49.00
     S.D. = 0.3  on   6 of   6 obs.
-------------------------------------
   OCT  27, 1993  07h 18m 47.34± 0.19s
    6.946 N ± 3.4km  125.653 E ± 4.9km
   DEPTH =  45.6km  (  6 depth phases)
   5.4mb ( 56 obs.)  4.8Msz ( 15 obs.)
 MINDANAO, PHILIPPINE ISLANDS     (259)
      Mw 5.2 (HRV).
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 21S, 34C
      Centroid Location:
      Origin Time        07:18:50.3 0.5
      Lat  6.79N 0.08 Lon 125.53E 0.08
      Dep  52.0 4.2 Half-duration  1.1
      Moment Tensor;    Scale 10**16 Nm
        Mrr= 3.73 0.50  Mtt=-0.39 0.46
        Mff=-3.34 0.80  Mrt= 3.68 0.67
        Mrf= 0.68 0.61  Mtf=-3.83 0.61
      Principal Axes:
        T  Val=  6.12  Plg=54  Azm= 16
        N        0.58      31      229
        P       -6.69      16      129
      Best Double Couple:Mo=6.4*10**16
       NP1:Strike=183 Dip=40 Slip=  36
       NP2:         63     67      124

DAV      0.16 331 iPc-  18 53.40  -1.6
TSM      8.18 252 eP    20 47.00   0.7
KKM      9.42 265 ePc   21 21.00  17.4X
SWI      9.56 144 ePd   21 05.00  -0.4
BAG     10.64 333 ePc+  21 21.00   0.7
         1.1s   227.85nm          6.2mb
MKS     13.57 207 iPc   22 03.50   4.2X
SLKI    15.86 159 ePc   22 36.00   6.8X
HKC     18.86 325 eP    23 07.10   0.6
                  eS    26 44.00
QZH     19.13 340 eP    23 06.00  -3.6X
     Z  20s      1.90um
     E  14s      0.93um
                  sS    26 52.00
QIZ     19.51 309 Pd    23 14.30   0.4
         1.3s   130.00nm          5.1mb
     N  15s      1.52um
     E  16s      1.03um
GZH     19.95 325 P     23 18.00  -0.4
         1.1s   140.00nm          5.2mb
     Z  19s      2.46um           3.8Msz
     E  15s      1.40um
GUMO    20.02  69 eP    23 24.30   5.0X
PJG     20.02  69 eP    23 24.20   4.9X
GUA     20.04  69 eP    23 24.60   5.0X
MTN     20.40 165 iPd   23 23.60   0.3
         0.3s   102.00nm          5.6mb
KNA     22.76 172 eP    23 47.50   0.6
         0.9s   179.00nm          5.5mb
KGM     22.79 259 ePd   23 48.80   1.5
         1.2s   283.20nm          5.6mb
SSE     24.39 351 Pc    24 03.00   0.4
         1.5s   110.00nm          5.2mb
     Z  20s      1.40um           4.4Msz
     N  20s      1.90um
                  eS    28 21.00
IPM     24.61 266 ePd   24 06.10   1.1
                  e     24 18.00  47km
SNG     24.85 272 eP    24 09.00   1.8
WHN     25.76 337 ePc   24 16.50   0.9
         1.5s   230.00nm          5.5mb
     N  20s      3.70um
     E  20s      1.67um
NJ2     25.77 347 Pd    24 16.00   0.3
         1.0s    29.00nm          4.8mb
     Z  21s      0.78um           4.2Msz
NST     26.46 291 eP    24 22.50   0.3
GYA     26.52 319 iPc   24 23.80   1.0
         1.2s    82.00nm          5.2mb
     Z  20s      3.04um           4.8Msz
     N  20s      1.71um
     E  20s      2.57um
PMG     26.89 127 eP    24 26.00  -0.1
KHT     27.67 289 eP    24 33.80   0.6
BDT     27.96 294 eP    24 35.00  -0.8
         0.7s    25.80nm          5.0mb
TKSJ    28.00  15 P     24 34.80  -1.3
WB5     28.00 162 iPd   24 35.50  -0.7
                  e     24 40.40  17kmX
                  i     24 44.50
                  eS    29 12.80
WRA     28.06 162 P     24 35.70  -1.0
WR2     28.07 162 eP    24 35.20  -1.6
         0.6s    11.20nm          4.7mb
                  i     24 37.90  10kmX
                  eS    28 31.60
KMI     28.40 312 Pc    24 41.50   1.5
         1.5s   230.00nm          5.6mb
     Z  20s      3.70um           5.0Msz
     N  15s      1.30um
     E  15s      1.30um
                  pP    24 53.50  46km
CHTO    28.53 297 iPc   24 41.00   0.0
         1.5s   105.29nm          5.3mb
YONJ    29.01  13 P     24 43.70  -1.5
TIA     30.16 346 eP    24 54.70  -0.7
         1.2s    80.00nm          5.3mb
     Z  20s      1.01um           4.5Msz
XAN     31.08 332 iPc   25 03.00  -0.6
         1.0s    13.00nm          4.6mb
     Z  19s      2.41um           4.9Msz
     N  16s      0.96um
     E  18s      1.34um
                  pP    25 11.00  28kmX
CD2     31.45 322 iPc   25 06.50  -0.3
         1.0s   270.00nm          6.0mb
     Z  20s      2.34um           4.9Msz
     N  18s      2.38um
ASPA    31.47 165 iPc   25 05.90  -1.2
         0.5s    27.80nm          5.3mb
                  ipP   25 18.20  47km
                  iS    30 10.30
MAT     31.61  20 eP    25 05.00  -3.2X
         0.8s     9.70nm          4.7mb
                  eS    30 17.00
TIY     32.90 340 Pc    25 19.50   0.1
         1.3s   220.00nm          5.8mb
     Z  21s      1.78um           4.7Msz
     N  15s      1.01um
                  S     30 27.00
WARB    32.95 178 eP    25 20.00   0.1
         0.5s    28.00nm          5.4mb
CTA     33.65 143 P     25 27.70   1.6
BJI     34.03 347 Pc    25 28.00  -1.1
         1.1s    78.00nm          5.6mb
     Z  20s      1.20um           4.6Msz
                  epP   25 43.00  60kmX
MEEK    34.07 191 eP    25 28.00  -1.7
         0.9s    37.00nm          5.3mb
SNY     34.78 357 Pc    25 34.00  -1.6
         1.2s   140.00nm          5.8mb
     Z  24s      1.36um           4.6MszX
                  eS    31 08.00
OFUJ    35.10  22 P     25 35.10  -3.2X
LZH     35.21 329 iPc   25 40.50   1.0
         1.5s   480.00nm          6.2mb
     Z  18s      3.20um           5.1Msz
     E  18s      2.13um
                  sP    25 52.50
                  eS    31 14.00
HHC     36.03 342 Pd    25 46.00  -0.3
         1.4s   260.00nm          6.0mb
     N  16s      0.73um
                  pP    25 53.00  24kmX
BTO     36.31 340 iPd   25 48.50  -0.2
     N  12s      0.24um
     E  12s      0.21um
                  eS    31 26.00
CN2     36.71 360 eP    25 50.80  -1.0
         1.0s     8.40nm          4.6mb
     Z  20s      1.12um           4.6Msz
MRWA    37.14 194 iPd   25 54.80  -0.8
FORT    37.58 177 iPd   25 59.20  -0.1
         0.6s    35.00nm          5.4mb
COOL    37.86 186 eP    26 00.50  -1.2
BAL     38.31 192 iPd   26 04.60  -0.9
         0.8s    43.00nm          5.4mb
KLB     39.06 191 eP    26 11.10  -0.6
LSA     39.55 309 iPc   26 18.10   1.7
         1.2s   130.00nm          5.6mb
     Z  22s      0.62um           4.4Msz
                  pP    26 30.50  46km
                  S     32 20.50
KUSJ    39.73  22 eP    26 17.60   0.5
GTA     39.81 328 Pc    26 18.50   0.5
         1.4s   110.00nm          5.5mb
     Z  24s      2.70um           5.0MszX
     E  16s      1.07um
                  pP    26 31.50  49km
                  sP    26 36.50
ASAJ    39.90  19 eP    26 19.20   0.7
NWAO    40.45 191 eP    26 22.00  -1.2
         0.7s    26.00nm          5.1mb
STK     41.50 159 iPc   26 32.00   0.2
         0.5s    16.20nm          5.0mb
                  ipP   26 42.90  38km
                  iPcP  28 20.00
                  eS    32 45.50
ADE     43.47 164 eP    26 49.00   1.1
CIT     46.00 350 eP    27 09.00   1.0
HYB     47.08 287 iPc   27 17.40   0.4
         1.0s   140.00nm          5.9mb
ZAK     47.15 341 iPd   27 18.50   1.5
     Z  15s      0.59um           4.7MszX
     N  15s      0.48um
                  eS    34 10.00
                  e     37 07.00
CAN     47.45 154 iPc   27 20.80   1.2
                  ipP   27 29.00  27kmX
CNB     47.61 154 iPd   27 22.20   1.3
         1.0s    38.00nm          5.3mb
GBA     47.84 282 Pc    27 23.00   0.1
         0.8s    43.00nm          5.5mb
TOO     48.00 159 eP    27 25.00   1.1
         1.0s    80.00nm          5.7mb
IRK     48.47 343 eP+   27 27.00  -0.3
         1.7s    71.00nm          5.4mb
     Z  16s      0.42um           4.5MszX
                  e     29 22.00 655kmX
DZM     49.28 127 iPc   27 35.00   0.9
WMQ     49.50 324 P     27 35.60   0.2
         2.0s    34.00nm          5.0mb
     Z  12s      1.60um           5.2MszX
     E  16s      1.34um
                  pP    27 42.00  21kmX
                  PcP   28 54.50
                  PP    29 27.00
                  ScP   32 50.00
                  PcS   32 54.00
                  eS    34 45.00
KSH     55.01 314 P     28 17.50   0.7
         0.9s  1000.00nm          6.8mb X
     N  15s      0.99um
     E  20s      1.37um
                  pP    28 25.00  25kmX
                  sP    28 28.00
                  PcP   29 12.00
                  ePP   30 24.00
                  ScP   33 08.00
                  ePcS  33 11.00
                  ScS   38 01.00
YAK     55.04   2 iPc   28 15.40  -1.0
         2.0s   386.00nm          6.1mb
                  i     28 37.00  87kmX
NIL     55.14 306 iP    28 19.80   2.0
         0.9s     0.23nm          3.2mb X
FRU     57.27 317 eP    28 31.00  -1.9
     Z  16s      0.80um           4.9MszX
     N  20s      1.00um
     E  20s      0.80um
                  e     29 23.00 231kmX
TIK     64.65   1 iPc+  29 21.00  -1.2
         1.2s   130.00nm          5.9mb
     Z  20s      0.70um           4.8Msz
                  i     29 38.00  63kmX
                  e     31 42.00
MAIO    66.74 306 iPc   29 35.00  -1.4
NRI     66.99 346 eP    29 34.50  -2.7X
         1.8s    30.00nm          5.0mb
                  e     29 57.00  87kmX
ASH     67.89 308 eP    29 43.50   0.0
SVE     70.67 328 ePc   29 59.00  -1.2
     Z  19s      0.50um           4.8Msz
     E  19s      0.50um
                  e     30 30.00 125kmX
ARU     71.64 327 eP    30 05.00  -1.0
     Z  18s      0.50um           4.8Msz
```

```
                e     30 24.00  71kmX
SDN    75.15  35 eP    30 25.71  -0.8
       0.9s    39.68nm          5.4mb
TAB    77.36 307 eP    30 39.00  -0.5
SVW    78.51  29 eP    30 46.38   1.2
       0.8s    47.46nm          5.5mb
TTA    78.54  27 eP    30 46.91   1.5
       1.3s    24.44nm          5.0mb
ERE    78.80 309 iPc   30 46.00  -1.3
KDC    79.82  33 eP    30 52.50   0.3
PYA    79.89 313 iPc   30 51.50  -1.5
IMA    79.90  24 ePc   30 53.64   0.8
       0.8s    22.16nm          5.2mb
CP2    80.15  29 eP    30 54.69   0.4
CRP    80.19  29 eP    30 54.43   0.0
SLKM   81.10  30 eP    30 58.45  -0.7
PMR    81.66  29 ePc   31 01.77  -0.1
       0.7s    74.59nm          5.8mb
FBA    82.29  25 eP    31 04.66  -0.5
       0.7s    13.44nm          5.1mb
TOA    83.06  28 eP    31 10.70   1.4
KLU    83.20  29 eP    31 11.04   1.0
MOS    83.20 325 eP    31 08.00  -2.0
                e     31 27.00  69kmX
BALM   84.95  29 ePc   31 20.13   1.2
MAW    86.39 200 iPc   31 24.90  -0.8
       1.0s     6.60nm          4.8mb
               ePP    31 41.50  58kmX
INK    87.58  21 eP    31 32.50   1.0
       1.0s    13.00nm          5.1mb
KAF    88.27 332 iP    31 32.70  -2.2
       0.9s    15.40nm          5.3mb
MBC    89.07  13 iPc   31 40.20   1.6
       0.8s   229.00nm          6.6mb X
               PP     35 02.40
               SKS    41 57.30
               S      42 18.10
               ScS    42 25.00
               PKKP   49 02.10
               SSS    52 04.10
               PcPP'  54 00.00
NUR    89.39 331 eP    31 38.70  -1.6
       0.8s    15.50nm          5.4mb
DAG    93.96 352 iPd   32 00.00  -1.2
       1.0s    26.00nm          5.6mb
RES    94.86  10 eP    32 06.00   0.7
       0.9s     7.00nm          5.1mb
NB2    95.45 334 P     32 05.70  -2.6
       1.0s     6.40nm          5.0mb
YKA    97.02  24 eP    32 16.20   0.8
       0.8s    12.20nm          5.5mb
BRG    98.03 324 iP    32 18.80  -1.3
MCW    98.71  39 (P)   32 22.53  -0.8
GEC2   98.91 322 P     32 44.00  19.7X
       1.1s     3.15nm
                e     32 52.30  26kmX
GMW    99.14  40 eP    32 25.72   0.5
RMW    99.79  39 eP    32 29.40   1.1
PEL   149.84 152 iPKPc 38 34.60   4.9X
RTCB  152.10 153 iPKPd 38 40.00   6.8X
RTLL  152.38 153 iPKPd 38 39.80   6.3X
TCA   153.91 160 ePKP  38 43.50   7.8X
MOCB  162.07 144 PKP   38 47.00   1.0
CNCB  163.45 128 PKP   38 49.00   1.4
LPB   163.52 127 ePKP  38 48.00   0.5
LPAZ  163.63 126 PKP   38 48.60   0.7
       1.0s     6.20nm
                i     39 49.70
               PP     43 36.70
CCH   164.51 133 PKP   38 49.80   1.5
     S.D. = 1.1  on 107 of 122 obs.
-----------------------------------
*  OCT  27, 1993  07h 31m 54.68± 0.78s
    5.767 S ± 6.5km  145.835 E ±12.0km
   DEPTH =  10.0km  (geophysicist)
   3.6mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY    0.49 164 eP    32 04.10  -0.6
MDG     0.52 354 iPd   32 04.90  -0.2
LAT     1.46 128 eP    32 21.60   0.5
WWKK    3.06 314 eP    32 49.80   5.7X
PMG     3.85 160 eP    32 55.00  -0.2
WR2    17.97 217 eP    36 06.10  -0.3
       0.9s     3.10nm          3.4mb
ASPA   21.18 212 eP    36 43.60   0.9
       1.1s     5.20nm          3.8mb
     S.D. = 0.7  on   6 of   7 obs.
-----------------------------------
?  OCT  27, 1993  07h 44m 48.94± 2.33s
   31.215 S ±36.6km   68.777 W ±34.9km
   DEPTH = 100.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA    (137)

RTCB    0.27 184 iPd   45 04.00   0.0
                S     45 15.00
RTLL    0.29 114 iPd   45 03.70   0.0
                S     45 15.00
CFA     0.60 130 e(P)  45 05.80   0.0
                S     45 18.70
RTPR    2.15  66 eP    45 24.00   0.0
                S     45 51.00
     S.D. = 0.0  on   4 of   4 obs.
-----------------------------------
   OCT  27, 1993  07h 48m 48.10± 1.52s
   37.461 N ±10.9km   21.108 E ±12.1km
   DEPTH =   5.0km  (geophysicist)
 SOUTHERN GREECE                 (368)
      MD 3.5 (ATH).

VLS     0.82 330 ePg   49 04.40  -0.1
VLI     1.64 116 ePb   49 17.70   0.0
AGG     1.83  31 eP    49 23.16   2.7X
IGT     2.16 344 eP    49 30.20   5.0X
KEK     2.47 336 ePg   49 37.10   7.4X
SRN     2.57 341 ePn   49 55.70  24.7X
LSK     2.71 352 ePn   49 43.10   9.9X
KZN     2.89  10 ePn   49 36.60   0.9
KBN     3.17 356 ePn   49 00.00 -39.6X
PAIG    3.18  38 eP    49 39.88   0.2
FNA     3.32   4 eP    49 42.28   0.4
BERA    3.36 345 ePn   49 55.30  13.0X
THE     3.48  24 eP    49 44.48   0.5
GRG     3.63  16 eP    49 46.12  -0.1
OHR     3.65 356 ePn   49 32.70 -13.8X
SOH     3.78  27 eP    49 47.72  -0.7
KNT     3.95  20 eP    49 50.76   0.1
SRS     4.13  27 eP    49 52.52  -0.7
SKO     4.51   3 ePn   49 58.00  -0.6
     S.D. = 0.6  on  11 of  19 obs.
-----------------------------------
*  OCT  27, 1993  08h 00m 05.92± 0.79s
    5.788 S ± 6.6km  145.768 E ±14.9km
   DEPTH =  10.0km  (geophysicist)
   3.9mb (  1 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.2 (PMG).

YYYY    0.49 156 eP    00 16.00   0.0
MDG     0.53   1 iPd   00 16.50  -0.2
MNDI    2.13 260 eP    00 49.00   6.8X
WWKK    3.03 315 eP    00 59.20   4.3X
PMG     3.85 159 eP    01 06.50   0.0
WR2    17.92 217 eP    04 16.50  -0.5
       0.6s     6.70nm          3.9mb
GBA    70.50 287 P     11 24.00   0.7
     S.D. = 0.6  on   5 of   7 obs.
-----------------------------------
   OCT  27, 1993  08h 15m 18.84± 0.97s
   38.898 N ± 8.1km   26.654 E ±10.5km
   DEPTH =   5.0km  (geophysicist)
 AEGEAN SEA                      (365)
      ML 3.4 (ISK). MD 3.3 (ATH).

PRK     0.46 320 iPbc  15 28.50   0.5
                eSb   15 36.00
IZM     0.69 136 iPg   15 31.20  -1.5
                eSg   15 41.50
EZN     0.96 345 iPn   15 37.50  -0.1
DST     1.69  65 ePn   15 50.00   0.8
CIN     1.72 139 eP    15 51.00   1.5
EDC     1.72  32 ePn   15 49.50  -0.1
MFT     1.95  14 ePn   15 53.00   0.0
RDO     2.40 339 ePn   15 58.70  -0.7
DMK     3.04  16 ePn   16 08.00  -0.5
     S.D. = 1.0  on   9 of   9 obs.
-----------------------------------
&  OCT  27, 1993  08h 44m 41.16s
   59.890 N          152.437 W
   DEPTH =  74.3km
 SOUTHERN ALASKA                 (  2)
      <AEIC>.

ILIM    0.32 306 iP    44 52.51  -0.7
                eS    45 02.11
INE     0.36 299 eP    44 52.77  -0.8
                eS    45 02.83
HOM     0.46 120 iP    44 53.77  -0.4
                eS    45 03.45
OPT     0.47 240 iP    44 53.76  -0.5
                eS    45 03.32
RED     0.56 343 eP    44 54.48  -0.7
                eS    45 05.75
XLV     0.57 140 eP    44 54.48  -0.7
                eS    45 05.23
NNL     0.59  75 eP    44 56.83   1.4
RSO     0.60 345 eP    44 55.11  -0.6
                eS    45 06.74
RS2     0.60 345 eP    44 55.16  -0.6
REF     0.62 348 eP    44 55.27  -0.6
                eS    45 06.81
RDW     0.62 343 eP    44 55.36  -0.6
CNPM    0.71 120 iP    44 55.73  -1.0
                eS    45 07.91
AUE     0.71 222 eP    44 55.97  -0.7
                eS    45 06.79
DFR     0.72 350 eP    44 56.09  -0.8
NCT     0.72 340 eP    44 56.27  -0.6
AUL     0.72 225 eP    44 56.14  -0.7
AGU     0.73 224 eP    44 56.38  -0.7
AUH     0.73 225 iP    44 56.32  -0.7
AUW     0.74 226 eP    44 56.36  -0.7
                eS    45 08.68
AUI     0.75 223 eP    44 56.29  -0.9
                eS    45 08.05
BRLK    0.79  98 P     44 57.20  -0.5
                S     45 09.60
PDB     0.89 264 eP    44 57.74  -1.1
                eS    45 11.30
NKA     1.04  34 eP    45 01.40   0.7
CDD     1.14 213 eP    45 00.69  -1.3
BKG     1.19   4 eP    45 02.10  -0.5
MCNL    1.20 235 eP    45 01.18  -1.5
                eS    45 17.07
SLKM    1.27  60 eP    45 02.51  -1.1
SYI     1.28 179 eP    45 02.66  -1.1
SPU     1.31   8 eP    45 03.48  -0.7
CKL     1.31   2 eP    45 03.59  -0.7
CKT     1.32   5 eP    45 03.67  -0.7
CKN     1.34   5 eP    45 04.48  -0.2
BGL     1.38   1 eP    45 04.58  -0.6
CP2     1.38   4 eP    45 04.01  -1.3
CRP     1.39   6 eP    45 04.27  -1.1
CGLM    1.44   8 eP    45 05.28  -0.7
SEW     1.52  81 eP    45 04.93  -1.9
NCG     1.53   5 eP    45 06.45  -0.7
MPA     1.65  67 eP    45 07.20  -1.5
PMS     1.97  45 P     45 12.00  -1.0
SVW     1.99 309 eP    45 11.29  -2.2
SKT     2.14  12 eP    45 14.19  -1.3
PWA     2.17  34 P     45 15.30  -0.4
PWL     2.26  63 eP    45 14.65  -2.4
LTI     2.31  84 eP    45 15.27  -2.5
KNK     2.49  50 eP    45 17.96  -2.2
GHO     2.55  41 eP    45 19.46  -1.8
CFI     2.65  59 eP    45 19.76  -2.6
SML     2.78  44 eP    45 22.43  -1.9
HIN     3.01  78 eP    45 24.61  -2.9
FID     3.09  71 eP    45 24.41  -4.1
VZW     3.14  66 eP    45 25.99  -3.3
SCM     3.17  50 eP    45 27.66  -2.1
VLZ     3.27  65 eP    45 28.14  -2.9
KLU     3.59  61 eP    45 31.97  -3.6
       55 obs. associated
-----------------------------------
%  OCT  27, 1993  08h 53m 19.89± 1.98s
   16.717 N ±18.9km   99.292 W ±10.0km
   DEPTH =  10.0km  (geophysicist)
 NEAR COAST OF GUERRERO, MEXICO  ( 58)

ACX     0.56 286 iPc   53 30.95  -0.4
                iS    53 39.50
III     1.66 354 iP    53 49.82   0.5
                iS    54 11.73
OXX     2.49  81 iP    54 02.06   0.8
                iS    54 33.04
IIA     2.49  14 iP    54 00.39  -0.7
                (S)   54 38.12
UNM     2.60   2 iP    54 05.00   2.0
                (S)   54 39.00
CRX     2.70 352 iP    54 04.00  -0.4
```

27d 08h

```
                    (S)   54 43.00
IISM     2.90  39 (P)   54 05.17  -1.8
MRX      3.48 329 iP    54 19.58   4.5X
                    (S)   54 58.50
LVVM     4.04  42 (P)   54 27.00   3.9X
     S.D. = 1.5  on   7 of   9 obs.
-----------------------------------
% OCT 27, 1993  09h 04m 33.23± 1.53s
   16.838 N ±17.1km   99.274 W ± 9.3km
   DEPTH =  10.0km  (geophysicist)
 NEAR COAST OF GUERRERO, MEXICO  ( 58)

ACX      0.56 273 iPc   04 44.30  -0.3
                    iS   04 53.30
III      1.54 353 eP    05 02.06   1.1
                    iS   05 26.71
IIA      2.37  14 iP    05 12.71  -0.1
                    iS   05 49.58
OXX      2.45  84 iPd   05 14.82   0.7
                    iS   05 49.07
UNM      2.48   2 iP    05 19.00   4.4X
                    (S)  05 51.00
CRX      2.58 351 (P)   05 19.00   2.9X
                    (S)  05 59.00
IISM     2.80  40 (P)   05 17.42  -1.4
                    (S)  06 03.04
MRX      3.38 328 iPd   05 34.61   7.5X
                    (S)  06 13.00
     S.D. = 1.4  on   5 of   8 obs.
-----------------------------------
* OCT 27, 1993  09h 07m 01.09± 0.76s
   5.833 S ± 6.8km  145.890 E ±11.6km
   DEPTH =  10.0km  (geophysicist)
   4.2mb (  3 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY     0.41 169 iPd   07 10.00   0.4
MDG      0.59 349 iPc   07 13.20   0.2
LAT      1.38 127 eP    07 26.30  -0.1
MNDI     2.24 262 eP    07 46.00   7.0X
PMG      3.77 161 eP    08 00.70   0.2
WR2     17.96 218 eP    11 13.30   0.7
        0.7s    14.60nm          4.2mb
ASPA    21.16 212 eP    11 48.40  -0.5
        0.9s    16.20nm          4.4mb
STK     26.23 188 eP    12 37.00  -1.0
        0.4s     1.70nm          4.1mb
     S.D. = 0.7  on   7 of   8 obs.
-----------------------------------
% OCT 27, 1993  09h 11m 20.10± 2.06s
   16.648 N ±19.8km   99.397 W ± 8.9km
   DEPTH =  10.0km  (geophysicist)
 NEAR COAST OF GUERRERO, MEXICO  ( 58)

ACX      0.49 297 iP    11 30.21   0.1
                    iS   11 39.66
III      1.72 358 iP    11 49.54  -0.9
                    iS   12 11.74
IIA      2.59  16 iP    12 02.81   0.2
                    iS   12 36.85
OXX      2.60  80 iP    12 03.00   0.0
                    iS   12 36.17
UNM      2.68   4 (P)   12 05.00   0.7
CRX      2.76 354 (P)   12 09.00   3.5X
IISM     3.02  39 (P)   12 14.05   5.2X
                    (S)  12 50.68
MRX      3.49 331 (P)   12 18.48   3.0X
                    (S)  12 59.93
     S.D. = 0.8  on   5 of   8 obs.
-----------------------------------
* OCT 27, 1993  09h 38m 18.09± 1.29s
   31.974 S ± 8.1km   68.242 W ±10.2km
   DEPTH = 119.9 ± 16.2 km
 SAN JUAN PROVINCE, ARGENTINA    (137)

RTCV     0.28 294 iPd   38 35.20  -0.2
CFA      0.37   0 iPc   38 35.70   0.1
                    S    38 47.70
ZON      0.57 319 iPd   38 32.60  -4.2X
                    eS   38 42.60
RTLL     0.67 343 eP    38 37.20  -0.3
                    S    38 52.00
RTCB     0.68 316 ePc   38 37.50  -0.2
                    S    38 52.00
RTRS     2.08 330 iPd   38 54.10   1.1
                    S    39 20.00
MRA      2.19 102 iPc   38 55.50   1.1
                    S    39 20.50
RTPR     2.23  42 eP    38 55.00   0.1
                    S    39 24.00
RFA      2.80 184 iPc   39 02.00  -0.4
                    S    39 31.70
TCA      3.18  79 iPc   39 07.30  -0.2
                    (S)  39 36.00
CYA      4.11  32 ePd   39 19.00  -1.0
                    S    40 05.00
     S.D. = 0.8  on  10 of  11 obs.
-----------------------------------
& OCT 27, 1993  09h 51m 38.91s
   34.145 N          116.416 W
   DEPTH =   1.9km
 SOUTHERN CALIFORNIA              ( 43)
     <PAS-P>. ML 2.8 (PAS).

PEC      0.67 248 ePc   51 51.62  -0.6
                    eS   51 59.51
GSC      1.20 345 eP    52 01.19  -0.9
GLA      1.72 129 ePn   52 08.56  -1.5
                    ePg  52 10.90
ISA      2.27 312 (Pn)  52 16.57  -1.5
                    ePg  52 20.46
BONR     4.10 339 (Pn)  52 44.10  -0.1
MSU      5.54  37 ePg   53 23.49  18.8
        6 obs. associated
-----------------------------------
? OCT 27, 1993  10h 08m 28.49± 0.93s
   39.221 N ± 8.1km   27.618 E ± 9.1km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
     ML 2.7 (ISK).

IZM      0.87 199 ePg   08 45.10  -0.1
                    eSg  08 57.50
DST      0.87  64 ePn   08 45.50   0.2
EDC      1.14   9 ePn   08 49.50  -0.3
EZN      1.17 302 ePn   08 50.50   0.2
     S.D. = 0.5  on   4 of   4 obs.
-----------------------------------
? OCT 27, 1993  10h 09m 21.31± 1.02s
   39.124 N ± 8.6km   27.566 E ±10.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
     ML 2.7 (ISK).

IZM      0.76 198 ePg   09 36.00  -0.3
                    eSg  09 49.70
DST      0.95  59 ePn   09 40.10   0.6
EZN      1.19 306 ePn   09 44.00   0.5
EDC      1.24  11 ePn   09 43.50  -0.9
     S.D. = 1.2  on   4 of   4 obs.
-----------------------------------
? OCT 27, 1993  10h 26m 39.08± 0.94s
   39.266 N ± 8.3km   27.752 E ± 8.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
     ML 2.8 (ISK).

DST      0.76  63 ePg   26 53.90   0.0
IZM      0.95 204 ePg   26 57.20   0.0
                    eSg  27 12.50
EDC      1.08   5 ePn   26 59.50   0.1
EZN      1.24 297 iPn   27 02.00   0.0
     S.D. = 0.1  on   4 of   4 obs.
-----------------------------------
   OCT 27, 1993  10h 45m 46.85± 0.76s
    5.823 S ± 6.6km  145.918 E ±11.4km
   DEPTH =  10.0km  (geophysicist)
   3.9mb (  1 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
     ML 4.1 (PMG).

YYYY     0.42 173 ePd   45 55.10  -0.3
MDG      0.59 346 eP    45 58.60  -0.1
LAT      1.36 128 eP    46 11.90   0.0
MNDI     2.27 262 eP    46 31.00   5.8X
WWKK     3.16 314 eP    46 44.50   6.8X
PMG      3.77 161 eP    46 46.50   0.3
WR2     17.98 218 eP    49 58.80   0.1
        0.6s     6.10nm          3.9mb
ASPA    21.18 212 eP    50 34.90   0.0
     S.D. = 0.3  on   6 of   8 obs.
-----------------------------------
* OCT 27, 1993  11h 23m 11.48± 1.87s
   20.113 S ±17.4km   68.947 W ±17.5km
   DEPTH = 149.7 ± 30.3 km
 CHILE-BOLIVIA BORDER REGION     (124)

MOCB     3.30 111 P     24 03.90   0.2
CNCB     3.41  16 iPc   24 06.00   0.8
LPB      3.65  13 iPc   24 09.10   0.8
        1.0s   364.00nm
CCH      3.80  45 P     24 08.70  -1.5
LPAZ     3.88  12 iPc   24 11.50   0.0
ARE      4.36 326 eP    24 17.00  -0.6
                    iS   25 04.00
PPD     16.57 100 eP    26 56.70   0.1
     S.D. = 1.1  on   7 of   7 obs.
-----------------------------------
   OCT 27, 1993  11h 45m 45.47± 0.58s
    5.973 S ± 6.3km  145.998 E ± 9.5km
   DEPTH =  10.0km  (geophysicist)
   4.2mb (  3 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY     0.27 186 iPd   45 51.10  -0.1
MDG      0.75 343 iPc   46 00.80   0.7
LAT      1.21 125 eP    46 08.20   0.2
WWKK     3.32 315 ePc   46 44.50   5.9X
PMG      3.60 161 eP    46 43.00   0.5
JAY      6.30 303 ePd   47 05.40 -15.3X
                    eS   49 03.10
CTA     14.03 179 iP    49 10.00   3.3X
HNR     14.24 105 eP    49 27.00  17.6X
WR2     17.91 218 iPd   49 56.70   0.2
        1.2s    20.40nm          4.1mb
                    eS   55 01.80
BKM     24.64 120 iP    51 12.90   5.3X
DZM     25.43 131 iPc   51 14.90  -0.3
STK     26.10 189 eP    51 20.90  -0.4
        1.8s     4.00nm          3.8mb
NST     50.25 296 eP    54 44.50   0.3
CHTO    52.50 299 eP    55 02.10   0.8
LZH     57.54 320 eP    55 36.00  -1.9
        2.0s    20.00nm          4.8mb
                    sP   55 42.50
CNCB   139.49 125 ePKP  05 11.00  -5.7X
LPB    139.54 124 PKP   05 12.00  -4.6X
LPAZ   139.63 124 PKP   05 12.20  -4.9X
     S.D. = 0.9  on  10 of  18 obs.
-----------------------------------
? OCT 27, 1993  12h 15m 07.44± 0.93s
   39.159 N ± 7.8km   27.466 E ± 9.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
     ML 2.7 (ISK).

IZM      0.78 192 ePg   15 22.70   0.1
                    eSg  15 36.40
DST      1.00  63 ePn   15 26.30  -0.2
EZN      1.11 307 ePn   15 28.00  -0.2
EDC      1.22  14 ePn   15 30.50   0.3
     S.D. = 0.4  on   4 of   4 obs.
-----------------------------------
& OCT 27, 1993  13h 26m 38.32s
   63.269 N          151.055 W
   DEPTH =   9.1km
 CENTRAL ALASKA                   (  1)
     <AEIC>. ML 2.5 (AEIC).

KTH      0.29  12 iP    26 43.99  -0.4
                    eS   26 48.41
TRF      0.39  62 iP    26 46.04  -0.3
                    eS   26 52.10
HUR      0.71 114 eP    26 51.98  -0.4
                    eS   27 01.90
CUT      0.94 157 iP    26 56.11  -0.2
                    eS   27 09.41
RND      1.00  81 eP    26 56.64  -0.8
                    eS   27 10.65
MCK      1.06  63 eP    26 57.94  -0.4
BWN      1.15  37 eP    27 00.09   0.2
                    eS   27 16.64
SKT      1.31 190 iP    27 02.13  -0.5
                    eS   27 19.29
NEA      1.58  33 eP    27 06.79   0.3
                    eS   27 26.97
DHY      1.68  95 eP    27 08.45   0.3
                    eS   27 31.32
PWA      1.71 161 P     27 08.30  -0.1
MLY      1.77   4 eP    27 08.67  -0.7
WRH      1.78  46 eP    27 10.42   0.9
```

		eS	27	34.05	
GHO	1.80	146	eP	27 08.98	-0.8
SUA	1.82	175	eP	27 09.87	-0.2
PLRM	1.91	151	eP	27 10.94	-0.3
PMR	1.91	151	ePd	27 10.29	-0.9
SML	1.93	138	eP	27 10.70	-1.0
NCG	1.94	196	eP	27 11.24	-0.6
CCB	1.99	45	eP	27 13.73	1.2
			eS	27 40.01	
CGLM	2.02	193	eP	27 12.72	-0.3
CRP	2.07	195	eP	27 12.77	-1.1
			eS	27 42.02	
CP2	2.09	196	eP	27 13.95	-0.1
			eS	27 41.36	
MDM	2.10	35	eP	27 15.69	1.6
			eS	27 42.27	
BGL	2.11	198	eP	27 14.46	0.2
CKN	2.12	195	eP	27 14.92	0.5
CKT	2.14	195	eP	27 14.95	0.1
HDA	2.15	56	eP	27 15.86	1.1
SPU	2.15	193	eP	27 14.78	0.0
PMS	2.15	160	P	27 15.00	0.2
CKL	2.17	197	eP	27 15.55	0.4
FBA	2.18	40	eP	27 15.79	0.6
			eS	27 44.94	
KNK	2.22	146	eP	27 15.92	0.0
SCM	2.25	128	eP	27 15.82	-0.5
BKG	2.28	195	eP	27 16.69	-0.1
TTA	2.28	264	(P)	27 17.68	0.9
GLM	2.36	41	eP	27 19.36	1.5
ILB	2.38	49	eP	27 18.33	0.3
IL1	2.38	49	eP	27 18.87	0.8
TOA	2.54	115	P	27 20.00	-0.4
PAX	2.56	94	eP	27 21.02	0.4
CFI	2.60	142	eP	27 21.98	0.8
SDG	2.63	104	eP	27 21.56	-0.1
PWL	2.74	151	eP	27 23.17	0.0
DFR	2.80	197	eP	27 25.45	1.3
SLKM	2.80	172	eP	27 25.63	1.5
NCT	2.86	199	eP	27 26.76	1.8
TZL	2.87	113	eP	27 24.86	-0.3
REF	2.90	196	eP	27 26.42	0.8
MPA	2.90	163	eP	27 25.29	-0.2
RDW	2.92	197	eP	27 27.43	1.5
IM3	2.96	338	eP	27 24.67	-1.7
KLU	2.98	124	eP	27 27.08	0.4
IMA	3.03	339	eP	27 25.47	-1.9
SVW	3.05	227	P	27 33.00	[illegible]
FID	3.32	137	eP	27 31.69	[illegible]
GLB	3.84	115	eP	27 39.08	[illegible]
BC3	4.21	89	eP	27 43.12	[illegible]

58 obs. associated

---

* OCT 27, 1993 13h 27m 11.33± [illegible]s
42.712 N ±24.0km 24.159 E ±[illegible]km
DEPTH = 5.0km (geophysicist)
BULGARIA [illegible]
ML 3.1 (THE).

SRS	1.65	195	ePb	27 40.64	[illegible]
			eSb	28 01.68	
KNT	1.81	212	ePb	27 43.52	[illegible]
			eSb	28 05.96	
VAY	1.83	221	iPn	27 44 [illegible]	[illegible]
SOH	1.98	198	ePb	27 45 [illegible]	[illegible]
			eSb	28 11 [illegible]	
SKO	2.15	251	ePn	27 48 [illegible]	[illegible]
GRG	2.19	217	ePn	27 48 [illegible]	[illegible]
THE	2.26	204	ePn	27 50 [illegible]	[illegible]
ALN	2.30	141	ePn	27 50 [illegible]	[illegible]
OUR	2.38	183	ePn	27 52 [illegible]	[illegible]

S.D. = 0.7 on 9 of [illegible]

OCT 27, 1993 14h 03m [illegible]
42.637 N ± 4.2km 18 869 E [illegible]
DEPTH = 10.0km (geophysi[illegible]
NORTHWESTERN BALKAN REGION [illegible]
ML 3.0 (TIR).

NKY	0.20	28	iPgc	03 08 [illegible]	[illegible]
			iSg	03 12 [illegible]	
HCY	0.33	235	iPgd	03 10 [illegible]	[illegible]
			iSg	03 15 [illegible]	
BDV	0.36	185	iPgc	03 10 [illegible]	[illegible]
			iSg	03 16 [illegible]	
BRY	0.36	318	iPgc	03 10 [illegible]	[illegible]
			iSg	03 16 [illegible]	
TTG	0.36	125	iPgd	03 10.82	-0.4
			iSg	03 16.55	
ULC	0.73	157	iPgc	03 16.78	-1.5
			iSg	03 28.23	
SDA	0.75	141	ePg	03 19.50	0.9
			iSg	03 31.70	
PLE	0.79	29	iPgd	03 18.66	-0.7
			iSg	03 30.75	
IVA	0.79	72	iPgd	03 18.73	-0.7
			iSg	03 30.82	
PVY	0.82	93	iPgd	03 19.13	-0.7
			iSg	03 31.35	
BCI	0.93	107	iPgd	03 20.70	-0.9
			iSg	03 35.20	
LACI	1.18	148	ePn	03 25.50	-0.4
			iSn	03 43.00	
TIR	1.49	150	ePn	03 30.50	-0.2
			iSn	03 53.00	
HVAR	1.86	288	iPn	03 35.20	-0.9
			iSn	03 59.60	
SKO	2.02	108	iPn	03 39.30	0.9
BERA	2.10	157	ePn	03 41.30	1.8
OHR	2.10	136	ePn	03 41.80	2.2
			i	03 46.80	
			i	04 09.00	
			i	04 13.00	
			Lg	04 19.50	
KBN	2.47	144	ePn	03 48.00	3.0X
TPE	2.49	159	ePn	03 45.00	-0.2
LSK	2.81	152	ePn	04 00.50	10.8X
VAY	3.06	114	ePn	03 58.70	5.6X
KNT	3.35	115	eP	03 57.16	-0.2
SRS	3.84	112	eP	04 04.78	0.4
VBY	3.87	319	ePn	04 07.00	2.2
			eSn	04 51.50	
TRI	4.79	312	e(Pn)	05 04.30	46.5X
			e	05 12.40	
			e(Sg)	05 35.10	

S.D. = 1.1 on 21 of 25 obs.

? OCT 27, 1993 14h 08m 56.66± 0.96s
39.271 N ± 8.5km 27.725 E ± 9.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
ML 2.7 (ISK).

DST	0.77	64	ePg	09 12.10	0.3
IZM	0.94	203	ePg	09 14.50	-0.2
			eSg	09 29.80	
EDC	1.08	6	ePn	09 16.50	-0.5
EZN	1.22	298	iPn	09 19.60	0.3

S.D. = 0.7 on 4 of 4 obs.

---

* OCT 27, 1993 14h 44m 47.83± 0.87s
26.865 S ± 8.1km 26.733 E ± 7.3km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
ML 2.6 (PRE).

BFS	0.06	126	iPc	44 48.10	-1.4
			S	44 48.90	
PPY	0.66	96	eP	45 01.20	0.1
WSR	1.01	8	eP	45 07.60	0.1
SWZ	1.30	256	eP	45 11.90	-0.5
			S	45 29.70	
SEY	1.65	152	iPc	45 19.00	1.2
			S	45 40.10	
[illegible]	1.79	51	eP	45 20.10	0.4
			S	45 44.00	

S.D. = 1.1 on 6 of 6 obs.

---

* OCT 27, 1993 15h 06m 40.77s
[illegible] N 154.274 W
DEPTH = 4.0km
ALASKA PENINSULA (12)
<AEIC>. ML 3.3 (AEIC), 3.6
PMR).

[illegible]	0.42	52	iP	06 49.13	0.0
[illegible]	0.51	356	eP	06 50.40	-0.6
[illegible]	0.79	33	iP	06 56.03	-0.6
			eS	07 07.19	
[illegible]	0.81	30	eP	06 56.42	-0.6
[illegible]	0.81	32	iP	06 56.71	-0.3
			eS	07 08.73	
[illegible]	0.81	31	iP	06 56.55	-0.5
[illegible]	0.83	34	eP	06 56.83	-0.5
AUL	0.83	31	iP	06 56.81	-0.5
BGM	0.87	326	eP	06 56.46	-1.7
			eS	07 07.48	
SYI	0.99	93	iP	06 58.45	-1.6
			eS	07 11.70	
PDB	1.12	2	iP	07 00.60	-1.7
			eS	07 14.98	
OPT	1.12	28	iP	07 01.45	-0.9
			eS	07 17.17	
KDC	1.32	134	ePc	07 04.15	-1.6
			eS	07 20.36	
INE	1.52	24	iP	07 07.38	-1.6
			eS	07 27.48	
XLV	1.53	58	eP	07 08.44	-0.5
ILIM	1.56	25	iP	07 08.04	-1.4
HOM	1.68	53	iP	07 10.76	-0.2
			eS	07 33.05	
CNPM	1.79	60	eP	07 11.92	-0.7
			eS	07 35.84	
RED	1.91	23	eP	07 13.86	-0.6
RS2	1.95	23	eP	07 14.26	-1.0
RSO	1.95	23	eP	07 14.61	-0.6
RDW	1.96	22	eP	07 14.43	-0.9
REF	1.99	23	eP	07 14.77	-1.0
			eS	07 41.16	
NCT	2.01	19	eP	07 14.94	-1.1
NNL	2.05	47	eP	07 17.41	1.0
BRLK	2.06	56	eP	07 17.25	0.7
			eS	07 43.19	
DFR	2.09	22	eP	07 16.09	-1.0
SVW	2.53	345	eP	07 20.71	-2.7
			eS	07 57.64	
NKA	2.58	35	eP	07 24.92	0.9
BKG	2.61	22	eP	07 23.71	-0.8
CKL	2.71	20	eP	07 25.31	-0.7
CKT	2.74	21	eP	07 25.50	-0.9
SPU	2.75	23	eP	07 25.45	-1.1
SLKM	2.76	47	iP	07 26.37	-0.3
BGL	2.77	19	eP	07 25.70	-1.1
CKN	2.77	21	eP	07 26.00	-0.8
CP2	2.79	21	eP	07 26.26	-1.0
CRP	2.81	21	ePc	07 26.19	-1.3
SEW	2.85	58	eP	07 28.32	0.4
CGLM	2.88	22	iP	07 27.54	-0.8
NCG	2.94	20	eP	07 28.60	-0.6
MPA	3.09	52	eP	07 31.76	0.5
SUA	3.31	31	eP	07 33.83	-0.7
PMS	3.50	41	P	07 36.70	-0.4
LTI	3.56	65	eP	07 37.10	-0.8
SKT	3.59	21	eP	07 37.52	-0.8
PWA	3.71	34	P	07 40.70	0.7
PWL	3.72	51	eP	07 39.20	-1.0
PMR	3.90	39	eP	07 40.84	-1.8
KNK	4.01	44	eP	07 42.73	-1.6
GHO	4.10	38	eP	07 44.29	-1.3
CFI	4.13	50	eP	07 46.21	0.3
CUT	4.23	26	eP	07 47.68	0.2
HIN	4.32	63	eP	07 47.67	-1.1
SML	4.32	41	eP	07 47.48	-1.3
FID	4.46	59	eP	07 49.45	-1.3
VZW	4.57	55	eP	07 50.42	-1.8
SGAM	4.96	64	eP	07 56.57	-1.2
KLU	5.05	52	eP	07 56.38	-2.7
TOA	5.29	46	eP	08 01.50	-1.0
BALM	6.46	63	eP	08 16.58	-2.5
FBA	6.96	23	eP	08 24.00	-1.9
IMA	7.43	2	eP	08 29.73	-2.9

63 obs. associated

---

* OCT 27, 1993 15h 10m 39.27± 2.01s
15.137 N ±14.3km 88.890 W ±23.9km
DEPTH = 33.0km (normal)
HONDURAS (72)
ML 4.5 (GCG).

YUP	1.28	224	iPd	11 01.53	0.4
			iS	11 19.37	
GCG	1.68	251	ePd	11 06.52	-0.4
IXG	1.79	238	ePd	11 08.51	0.0
			eS	11 32.71	
PCG	1.82	246	eP	11 08.41	-0.6
			eS	11 33.79	
TPX	3.27	266	iP	11 30.00	0.6
			iS	12 18.00	
SCX	3.94	294	iP	11 48.50	9.6X
			(S)	12 30.00	
OXX	7.77	285	iP	12 38.00	4.8X

27d 15h

```
LVVM     8.54 303 (P)    12 40.00   -3.7X
IISM     8.97 296 (P)    12 55.00    5.4X
MEO     21.42 338 iPc    15 26.50   -0.1
TUL     21.59 345 iP     15 27.70   -0.6
ACO     23.34 339 iPd    15 46.20    0.7
WRA    138.59 257 PKP    30 02.80   -1.6X
         0.8s     0.30nm
GBA    148.40  26 PKP    30 29.00    7.8X
     S.D. = 0.6  on   8 of  14 obs.
-------------------------------------
?  OCT  27, 1993  15h 43m 00.95± 2.97s
    5.862 S ±25.7km  145.822 E ±13.8km
    DEPTH =  10.0km  (geophysicist)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.3 (PMG).

YYYY     0.40 159 eP     43 09.50    0.2
LAT      1.42 124 eP     43 26.90    0.1
MNDI     2.17 262 eP     43 42.00    4.1X
WWKK     3.12 315 eP     43 53.60    2.4X
PMG      3.76 159 eP     43 59.80   -0.5
CTA     14.15 178 eP     46 31.00    7.4X
WR2     17.89 217 eP     47 11.80    0.1
                  eS     50 41.60
     S.D. = 0.6  on   4 of   7 obs.
-------------------------------------
%  OCT  27, 1993  15h 43m 16.97± 3.13s
    44.060 N ±25.9km     7.266 E ±10.5km
    DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                     (545)
      ML 1.6 (STR).

TOUF     0.05 195 Pg     43 18.14   -1.2
AUTN     0.13 119 Pg     43 20.02   -0.4
AURF     0.18 166 Pg     43 20.70   -0.3
MVIF     0.18 207 Pg     43 20.76   -0.4
SAOF     0.22 109 Pg     43 21.63   -0.1
CALN     0.41 222 Pg     43 25.53    0.1
     S.D. = 0.6  on   6 of   6 obs.
-------------------------------------
    OCT  27, 1993  16h 03m 48.06± 0.65s
    45.319 S ± 7.6km  166.858 E ± 5.6km
    DEPTH =  33.0km  (normal)
    4.7mb (  1 obs.)
 OFF W. COAST OF S. ISLAND, N.Z. (161)
      ML 4.7 (WEL).

MSZ      1.00  50 P      04 05.80    0.1
                  S      04 25.20
SIZ      1.79 151 P      04 16.70   -0.4
TUZ      2.05 109 P      04 21.30    0.5
                  eS     04 46.70
BWZ      2.29  71 P      04 25.60    1.4
ODZ      2.69  85 P      04 30.30    0.3
WVZ      3.58  53 P      04 44.10    1.5
MQZ      4.45  71 P      04 53.40   -1.5
                  eS     05 46.50
LTZ      4.65  59 P      04 57.00   -0.8
                  eS     05 52.00
DSZ      5.07  47 P      05 03.90    0.2
KHZ      5.63  61 P      05 12.10    0.5
THZ      5.65  53 eP     05 12.10    0.1
QRZ      6.11  45 eP     05 18.30   -0.2
KIW      7.39  56 eP     05 35.80   -0.5
MNG      7.88  56 eP     05 41.90   -1.2
TOO     17.76 288 iPc    07 54.50    0.2
         0.4s    28.00nm          4.7mb
WRA     36.87 303 P      10 55.70    0.5
         0.9s     0.30nm          3.2mb X
LAT     42.19 330 eP     11 38.60   -0.7
     S.D. = 0.9  on  17 of  17 obs.
-------------------------------------
    OCT  27, 1993  16h 32m 10.96± 0.54s
    42.743 N ± 3.9km   18.541 E ± 4.7km
    DEPTH =  10.0km  (geophysicist)
 NORTHWESTERN BALKAN REGION         (383)

BRY      0.16   1 iPgc   32 14.82    0.1
                  iSg    32 17.85
HCY      0.30 186 iPgc   32 17.20    0.0
                  iSg    32 22.50
NKY      0.34  78 iPgd   32 17.96   -0.1
                  iSg    32 23.79
BDV      0.51 155 iPgc   32 21.20    0.0
                  iSg    32 29.17
TTG      0.62 120 iPgc   32 22.94   -0.4
                  iSg    32 32.94
PLE      0.86  47 iPgd   32 27.43   -0.1
                  iSg    32 40.23
ULC      0.94 146 iPgc   32 29.17    0.3
                  iSg    32 43.19
IVA      1.01  82 iPgd   32 30.38    0.3
                  iSg    32 45.16
PVY      1.07  97 iPgd   32 31.25    0.1
                  iSg    32 47.82
HVAR     1.60 287 iPn    32 39.20   -0.1
                  iSn    33 01.20
     S.D. = 0.2  on  10 of  10 obs.
-------------------------------------
*  OCT  27, 1993  16h 39m 29.30± 1.09s
    5.979 S ±12.3km  145.839 E ±12.4km
    DEPTH =  10.0km  (geophysicist)
    3.5mb (  1 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY     0.29 154 eP     39 36.50    1.1
LAT      1.34 121 ePd    39 53.40   -0.6
MNDI     2.18 265 eP     40 09.50    3.2X
WWKK     3.22 317 eP     40 21.30    0.4
PMG      3.65 159 iPd    40 26.80   -0.2
WR2     17.81 218 eP     43 38.40   -0.6
         0.6s     2.60nm          3.5mb
                  i      43 43.80
     S.D. = 1.0  on   5 of   6 obs.
-------------------------------------
    OCT  27, 1993  16h 49m 46.01± 0.53s
    42.752 N ± 4.0km   18.563 E ± 4.6km
    DEPTH =  10.0km  (geophysicist)
 NORTHWESTERN BALKAN REGION         (383)

BRY      0.15 355 iPgc   49 49.64    0.1
                  iSg    49 52.34
HCY      0.31 189 iPgd   49 52.37   -0.1
                  iSg    49 57.49
NKY      0.33  79 iPgd   49 52.79    0.0
                  iSg    49 58.44
BDV      0.51 157 iPgc   49 56.11   -0.2
                  iSg    50 04.11
TTG      0.61 122 iPgc   49 58.08   -0.2
                  iSg    50 07.78
PLE      0.84  46 iPgc   50 02.02   -0.3
                  iSg    50 14.82
ULC      0.94 147 iPgd   50 04.19    0.3
                  iSg    50 18.37
IVA      0.99  83 iPgc   50 04.96    0.1
                  iSg    50 20.22
PVY      1.05  98 iPgc   50 06.22    0.3
                  iSg    50 22.34
HVAR     1.61 286 iPn    50 14.60    0.1
                  iSn    50 35.60
     S.D. = 0.2  on  10 of  10 obs.
-------------------------------------
*  OCT  27, 1993  16h 51m 37.20± 1.36s
    23.311 S ± 6.5km   71.594 W ±14.0km
    DEPTH =  59.1 ± 17.6 km
 OFF COAST OF NORTHERN CHILE        (121)

HJA      5.69  90 ePd    52 04.30 -56.9X
YJA      5.74  80 ePc    53 02.00   -0.2
SLA      5.75 105 i(P)   53 06.00    3.8X
FSA      5.78 120 ePc    53 04.20    1.8
MOCB     5.88  71 P      53 03.60   -0.7
ARE      6.81   1 eP     53 17.00   -0.1
                  iS     54 30.00
CNCB     7.30  28 P      53 24.60    0.4
LPB      7.50  27 P      53 27.00    0.2
         1.2s   250.00nm          5.8mb X
                  S      55 34.00
LPAZ     7.71  26 P      53 29.80   -0.1
                  S      55 13.60
CCH      7.81  42 P      53 36.10    5.1X
RTLL     8.46 162 e(P)   53 53.70   14.1X
RTCB     8.51 164 e(P)   53 58.00   17.6X
ZON      8.60 163 e(P)   53 34.10   -7.5X
CFA      8.78 161 e(P)   53 53.00    8.9X
PEL      9.83 176 eP     54 10.00   11.6X
TCA     10.13 144 eP     54 01.20   -1.4
RFA     11.74 167 eP     54 24.50    0.2
NNA     12.32 335 eP     54 42.00    9.9X
         0.8s     8.21nm          4.7mb X
                  eS     56 45.70
PPD     18.76  90 eP     55 53.40   -0.8
VAO     22.64  94 eP     56 35.00    0.7
BAO     23.50  75 eP     56 42.90    0.1
WR2    130.10 213 ePKP   10 52.30    9.5X
         0.7s     2.20nm
WRA    130.12 213 PKP    10 53.50   10.7X
         0.5s     1.00nm
GBA    149.14 103 PKP    11 29.00   12.2X
         1.0s     4.00nm
MAT    151.13 304 (PKP) 11 35.00   15.7X
     S.D. = 1.0  on  12 of  25 obs.
-------------------------------------
*  OCT  27, 1993  17h 45m 30.55± 1.23s
    5.882 S ±11.1km  146.109 E ±11.0km
    DEPTH =  10.0km  (geophysicist)
 EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY     0.38 201 eP     45 38.70    0.2
LAT      1.18 131 eP     45 53.40    0.8
MNDI     2.45 264 eP     46 12.00    0.5
WWKK     3.34 312 eP     46 23.60   -0.4
PMG      3.65 164 eP     46 27.00   -1.3
     S.D. = 1.2  on   5 of   5 obs.
-------------------------------------
*  OCT  27, 1993  17h 51m 36.87± 1.63s
    23.222 S ± 7.7km   70.780 W ±14.1km
    DEPTH =  51.8 ± 13.4 km
    4.8mb ( 11 obs.)
 NEAR COAST OF NORTHERN CHILE       (122)

HJA      4.94  91 ePc    52 51.90    1.4
                  S      53 00.50
YJA      4.98  79 ePd    52 52.00    0.5
SLA      5.06 108 ePd    52 54.00    1.7
MOCB     5.15  69 P      52 55.80    1.9
FSA      5.19 124 ePc    52 55.20    1.3
ARE      6.76 354 eP     53 08.00   -8.2X
                  iS     54 22.50
CYA      6.87 140 iPd    53 16.00   -1.5
                  S      53 25.50
CNCB     6.90  23 iPd    53 16.10   -2.3
LPB      7.12  21 P      53 19.80   -1.5
         1.5s   833.33nm          6.2mb X
                  S      55 28.00
CCH      7.26  38 eP     53 24.00    0.7
LPAZ     7.33  20 P      53 20.50   -4.1X
                  S      54 10.00
RTPR     8.02 153 eP     53 30.00   -3.3X
RTLL     8.33 166 e(P)   53 43.00    5.2X
RTCB     8.42 168 e(P)   53 44.00    5.0X
ZON      8.50 168 eP     53 39.30   -0.8
CFA      8.65 165 e(P)   53 41.00   -1.2
TCA      9.78 147 iP     53 53.00   -4.7X
IHA      9.80 184 eP     54 14.50   16.7X
PEL      9.88 180 eP     53 55.00   -4.1X
MRA     10.19 155 e(P)   53 58.90   -4.3X
RFA     11.68 171 ePc    54 16.50   -7.1X
                  S      56 55.00
NNA     12.57 332 eP     54 29.50   -6.0X
         0.7s    12.33nm          5.0mb
                  iS     56 38.70
PPD     18.01  90 eP     55 42.30   -2.9X
VAO     21.90  94 eP     56 24.80   -2.6X
CACB    22.27  91 iPd    56 29.20   -2.0
                  e      56 31.20
                  e      56 37.80
BAO     22.76  75 Pc     56 33.20   -2.7X
                  i      56 42.50
                  i      56 51.00
                  i      57 53.80
SOB1    31.81  69 (P)    57 57.00   -2.0X
FVM     63.62 343 iP     02 03.40   -1.3
         1.0s    20.00nm          5.1mb
SPA     66.92 180 iPc    02 25.70   -0.2
         1.1s    41.67nm          5.4mb
ALQ     67.02 329 iP     02 29.50    2.6
         0.9s     4.20nm          4.5mb
KDS     67.44  64 eP     02 27.50   -2.2X
GOL     70.44 332 iP     02 50.00    2.0
         0.9s     8.33nm          4.7mb
LIC     70.53  74 P      02 46.86   -1.8
         0.7s     4.50nm          4.5mb
TIC     70.72  74 P      02 49.10   -0.8
         0.9s    11.50nm          4.8mb
KIC     70.84  74 P      02 49.18   -1.5
         0.8s    18.00nm          5.1mb
LKO     71.57  71 P      02 52.90   -2.1
         1.0s    16.50nm          4.9mb
RSSD    73.62 336 eP     03 06.80    0.1
         1.0s     8.13nm          4.6mb
```

```
EVAL   85.30  46 eP    04 10.00   0.5
EJIF   85.53  47 eP    04 11.50   0.8
EPRU   85.97  47 eP    04 11.50  -1.4
EHOR   86.43  46 P-    04 19.00   3.9X
ELUQ   86.94  47 eP    04 18.50   0.8
BUL    90.39 112 iPc   04 36.50   1.9
YKA    92.24 341 eP    04 50.20   8.3X
        0.8s     3.70nm          4.9mb
WR2   130.58 212 ePKP  10 44.30   0.0
        0.5s     5.20nm
                  i    10 54.50
WRA   130.59 212 PKP   10 45.00   0.7
        0.5s     3.90nm
POO   146.68  91 ePKP  11 15.00   1.5
GBA   148.43 102 PKP   11 20.00   3.7X
LEM   150.10 177 iPKPd 11 27.20   8.1X
HYB   150.70  96 ePKP  11 25.50   5.7X
NDI   150.77  72 ePKP  11 26.00   6.4X
MAT   151.70 305 ePKP  11 27.00   6.2X
        1.0s    11.00nm
     S.D. = 1.5  on  29 of  52 obs.
-----------------------------------
   OCT  27, 1993  17h 57m 14.90± 0.97s
    5.952 S ± 9.1km  145.997 E ± 8.9km
   DEPTH =  10.0km  (geophysicist)
   3.6mb (  1 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY    0.29 186 eP    57 21.00   0.0
LAT     1.22 125 iPd   57 38.00   0.3
MNDI    2.34 265 eP    57 54.50   0.3
WWKK    3.31 314 eP    58 07.60  -0.2
PMG     3.62 162 eP    58 11.70  -0.5
WR2    17.93 218 eP    01 26.10   0.0
        0.7s     3.20nm          3.6mb
     S.D. = 0.4  on   6 of   6 obs.
-----------------------------------
? OCT  27, 1993  18h 30m 20.60± 5.29s
    5.587 S ±52.7km  145.944 E ±16.0km
   DEPTH =  10.0km  (geophysicist)
   4.0mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.4 (PMG).

LAT     1.50 136 eP    30 47.80   0.2
MNDI    2.34 256 eP    31 07.00   7.0X
WWKK    3.03 310 eP    31 19.60  10.1X
PMG     3.98 162 iPd   31 21.90  -1.1
CTA    14.42 179 iPd   33 48.00   1.2
WR2    18.18 217 eP    34 34.80  -0.1
        0.6s     8.20nm          4.1mb
                  eS   38 02.50
ASPA   21.39 212 eP    35 10.60  -0.2
        1.1s     7.40nm          4.0mb
     S.D. = 1.2  on   5 of   7 obs.
-----------------------------------
   OCT  27, 1993  21h 16m 48.95± 0.30s
   18.279 S ± 3.2km  177.874 W ± 3.2km
   DEPTH = 616.9 ±  3.8 km
   5.3mb ( 85 obs.)
 FIJI ISLANDS REGION              (181)
      Mw 5.8 (HRV).
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 29S, 45C
      Centroid Location:
      Origin Time        21:16:55.7 0.4
      Lat 17.80S 0.03 Lon 177.62W 0.03
      Dep 641.0 1.9 Half-duration  2.4
      Moment Tensor;   Scale 10**17 Nm
        Mrr=-1.98 0.09  Mtt= 1.68 0.14
        Mff= 0.31 0.13  Mrt=-1.71 0.13
        Mrf=-2.88 0.12  Mtf= 3.58 0.14
       Principal Axes:
        T  Val=  5.92  Plg=22  Azm=137
        N       -1.87     33       32
        P       -4.05     48      254
      Best Double Couple:Mo=5.0*10**17
       NP1:Strike=271 Dip=37 Slip= -25
       NP2:        22     75      -125

SVA     3.49 272 eP    18 13.90   1.2
VUN     3.49 274 iP    18 13.90   1.1
MBU     3.50 291 eP    18 14.60   1.8
AFI     7.29  54 iPd   18 40.20  -2.6X
PVC    13.15 270 iPc   19 43.00   4.2X
BKM    13.22 270 iPc   19 41.50   2.0
                  iS   22 05.10
DZM    15.20 253 iPd   20 00.30   1.6
                  iS   22 36.60
                  i    26 37.60
                  i    27 02.60
OUZ    18.50 203 eP    20 33.30   3.6X
KUZ    19.24 196 eP    20 38.10   1.6
HBZ    19.54 189 eP    20 37.40  -1.8
PUZ    20.01 189 eP    20 41.40  -2.2
                  eS   23 50.30
WLZ    20.34 195 P     20 48.30   1.8
URZ    20.38 191 eP    20 45.00  -1.9
                  S    23 53.80
NOZ    20.58 189 eP    20 48.80   0.1
MOZ    21.14 196 P     20 55.70   1.9
PGZ    22.83 192 P     21 08.40  -0.5
MNG    22.99 193 eP    21 08.70  -1.7
                  eS   24 33.90
HNR    23.24 289 P     21 12.00  -0.8
CAW    23.55 193 eP    21 14.00  -1.4
MRW    23.75 194 P     21 16.20  -0.9
TCW    23.83 195 eP    21 16.60  -1.2
QRZ    23.94 198 P     21 19.40   0.6
                  eS   24 55.30
THZ    24.70 197 eP    21 23.20  -2.4
                  S    25 03.00
DSZ    25.00 199 P     21 28.00  -0.2
KHZ    25.15 195 P     21 28.00  -1.4
                  eS   25 10.60
LTZ    25.82 197 P     21 34.00  -1.4
                  S    25 24.30
WVZ    26.54 199 P     21 40.60  -0.9
MQZ    26.58 195 P     21 41.20  -0.7
AFR    26.74  93 iPc   21 43.40  -0.1
        0.7s   242.50nm         5.9mb
PAE    26.91  93 iPc   21 45.00   0.0
        0.6s   139.60nm         5.8mb
PPT    26.92  93 iPc   21 44.80  -0.3
        0.7s   275.20nm         6.0mb
     Z  26s  1475.00um         7.4MszX
PPN    27.06  93 iPc   21 46.40   0.1
        0.7s   115.10nm         5.6mb
TVO    27.21  93 iPc   21 47.90   0.2
        0.8s   399.70nm         6.1mb
LMZ    27.58 200 P     21 49.60  -1.0
BWZ    28.12 199 P     21 53.80  -1.4
        0.6s   232.00nm         6.0mb
ODZ    28.36 197 P     21 56.50  -0.8
MSZ    28.88 201 P     22 02.40   0.7
        0.5s   105.00nm         5.7mb
PMO    28.89  88 iPc   22 02.30   0.2
        1.2s   645.00nm         6.1mb
VAH    29.10  89 iPc   22 03.80  -0.1
        1.1s   394.60nm         6.0mb
TPT    29.16  88 iPc   22 04.20  -0.2
        1.4s   791.10nm         6.2mb
RUV    29.34  89 iPc   22 02.60  -3.4X
        1.2s   761.70nm         6.2mb
TUZ    29.48 198 P     22 07.40   0.6
        1.0s   265.00nm         5.8mb
SIZ    30.76 199 P     22 18.60   1.0
RIV    31.69 235 iPd   22 27.00   1.4
CNB    33.61 233 eP    22 47.50   5.7X
KVG    34.42 293 eP    22 46.70  -1.9
PMG    35.02 280 iPd   22 54.20   0.7
        1.0s   600.00nm         6.1mb
LAT    36.11 284 eP    23 04.20   1.8
TOO    37.33 231 iPd   23 13.90   1.6
        0.5s   200.00nm         5.9mb
STK    38.90 242 iPd   23 26.60   1.5
        0.9s   176.40nm         5.6mb
                  i    23 44.00
                  iS   28 42.00
WWKK   40.39 286 eP    23 38.40   1.2
ADE    41.87 238 iPd   23 49.90   1.2
JAY    43.50 286 ePd   24 01.70   0.1
MHA    43.88  30 eP    24 03.35  -1.0
DHH    43.95  27 ePc   24 03.83  -1.0
WR2    45.04 260 iPc   24 12.40  -1.1
        0.7s   220.30nm         5.8mb
                  eS   30 03.70
WRA    45.06 260 P     24 13.10  -0.5
        0.7s    53.90nm         5.2mb
ASPA   45.18 255 iPc   24 14.10  -0.4
        0.5s   267.50nm         6.0mb
     Z  21s     0.50um         4.4Msz
                  ipP  24 32.70  75kmX
                  eScP 28 39.30
                  iS   30 09.60
                  iScS 33 03.60
GUA    48.44 308 e(P)  24 38.60  -0.5
        0.9s   685.71nm         6.1mb
GUMO   48.50 308 eP    24 24.10 -15.5X
        1.0s   592.50nm
                  e    24 38.20
FORT   50.31 245 eP    24 52.00  -0.8
        0.7s   183.00nm         5.6mb
SLKI   50.40 275 ePd   24 52.00  -1.6
KNA    50.94 264 iPd   24 57.20  -0.3
        0.8s   182.00nm         5.5mb
WARB   51.64 251 iPc   25 02.30  -0.2
                  e    31 28.50
SWI    52.82 283 iPc   25 10.50  -0.5
COOL   56.26 245 eP    25 33.70  -1.1
        0.9s   172.00nm         5.3mb
MBL    58.38 256 eP    25 48.20  -1.1
        0.8s   144.00nm         5.3mb
MEEK   58.78 250 iPd   25 51.00  -0.9
        0.8s   167.00nm         5.3mb
KLB    59.12 244 iPd   25 53.40  -0.6
        0.8s   231.00nm         5.5mb
NWAO   59.49 242 iPd   25 56.20  -0.2
        0.8s    48.00nm         4.8mb
RKG    59.60 240 eP    25 57.30   0.1
        0.7s    48.00nm         4.8mb
SBA    60.08 184 eP    26 01.40   1.7
BAL    60.09 245 iPd   26 00.00  -0.4
        0.8s   244.00nm         5.5mb
MUN    60.41 243 iPc   26 02.80   0.3
        0.8s   569.00nm         5.9mb
MRWA   60.82 246 iPd   26 04.80  -0.5
        0.8s   101.00nm         5.2mb
CSY    66.02 205 eP    26 50.50  13.1X
        0.7s    86.10nm
KAKJ   67.16 324 P     26 43.70  -1.0
CHJJ   67.71 323 P     26 47.30  -0.8
IIDJ   67.93 322 P     26 48.60  -1.0
WKYJ   68.46 320 P     26 52.70  -0.1
OFUJ   68.47 327 eP    26 51.40  -1.2
MAT    68.51 323 iPd   26 51.70  -1.2
        1.1s    89.87nm         5.2mb
                  eS   35 07.00
NIIJ   68.55 324 P     26 52.30  -0.9
YAMJ   68.66 325 eP    26 53.20  -0.6
MTMJ   68.77 323 P     26 53.80  -0.8
TSRJ   69.11 321 P     26 56.00  -0.5
TKSJ   69.26 319 P     26 57.30  -0.2
KKM    69.32 284 ePd   27 05.50   7.2X
KAGJ   69.56 315 P     26 59.00  -0.3
BAG    69.70 296 eP    27 00.00  -0.6
ADK    69.87   1 eP    26 58.13  -2.4
        0.6s    42.18nm         5.1mb
KUSJ   70.09 332 eP    27 01.10  -1.0
HOOJ   70.19 330 eP    27 03.00   0.4
YONJ   70.42 319 P     27 03.80  -0.4
KUMJ   70.43 316 eP    27 03.80  -0.5
MRRJ   71.28 329 eP    27 09.40   0.4
ASAJ   71.82 331 eP    27 12.90   0.8
SPA    71.83 180 iPc   27 13.80   1.6
        0.6s   231.71nm         5.9mb
LEM    73.21 268 ePd   27 21.60   0.7
YSS    74.04 333 iPd   27 24.00  -0.6
        1.0s    60.00nm         5.1mb
                  e    27 42.50
                  e    36 46.00
SDN    74.80  10 eP    27 26.40  -2.2
        0.6s    92.36nm         5.5mb
STAN   76.24  43 ePd   27 37.65   0.7
        1.1s   160.00nm         5.5mb
SAO    76.34  44 ePd   27 38.05   0.5
        0.8s    73.57nm         5.2mb
BCH    76.35  45 ePd   27 38.39   0.7
SSE    76.37 310 Pd    27 37.00  -0.7
        0.6s    16.00nm         4.7mb
                  pP   29 40.00 586kmX
                  S    36 36.00
COE    76.48  43 eP    27 38.76   0.5
BKS    76.48  42 ePd   27 38.79   0.6
        1.0s   100.00nm         5.3mb
PHAM   76.50  45 eP    27 38.67   0.3
NTYM   76.51  42 eP    27 38.40   0.1
MHC    76.55  43 iPd   27 39.29   0.5
        0.9s    90.00nm         5.2mb
ARN    76.62  43 ePd   27 39.80   0.7
```

27d 21h

ABL	76.75	46 eP	27	40.44	0.4
KMPM	76.84	39 ePd	27	40.93	0.7
HMR	76.92	42 (P)	27	41.33	0.8
ARC	77.15	39 ePd	27	42.79	1.0
	1.5s	120.00nm			5.2mb
FHC	77.16	39 eP	27	42.79	0.9
	1.0s	73.80nm			5.1mb
PLM	77.59	49 iPd	27	45.29	0.7
PEC	77.67	48 ePd	27	45.01	0.3
	0.6s	58.83nm			5.2mb
ISA	77.71	46 P	27	45.36	0.4
	0.8s	76.63nm			5.2mb
CMB	77.76	43 iPd	27	45.30	0.1
	0.9s	70.00nm			5.1mb
WDC	77.90	40 eP	27	46.12	0.4
	0.8s	25.80nm			4.7mb
ORV	77.93	41 iPd	27	46.14	0.2
	1.1s	60.00nm			5.0mb
MIN	78.33	40 ePd	27	47.90	-0.3
	1.0s	50.00nm			4.9mb
MMPM	78.41	44 eP	27	49.27	0.3
YBH	78.49	39 iPd	27	49.71	0.8
	0.8s	60.00nm			5.1mb
MEMM	78.50	44 ePc	27	50.36	1.5
NJ2	78.56	309 Pc	27	50.00	0.6
	1.0s	50.00nm			4.9mb
MTUM	78.57	44 ePd	27	50.35	0.7
KDC	78.63	14 ePd	27	48.28	-0.9
	0.8s	36.46nm			4.9mb
GSC	78.66	47 ePd	27	50.45	0.5
LBFM	78.75	40 eP	27	50.62	0.1
MDJ	78.78	325 Pd	27	50.90	0.7
	0.8s	79.00nm			5.2mb
		S	37	03.00	
MRCM	78.79	44 eP	27	51.51	0.7
GLA	78.90	50 eP	27	52.08	0.8
BONR	79.08	44 ePd	27	53.06	0.7
TNP	79.86	44 ePd	27	56.87	0.5
	0.8s	36.75nm			4.9mb
TPNV	79.91	46 eP	27	57.15	0.6
	0.7s	31.25nm			4.9mb
KGM	80.01	275 ePd	27	58.40	1.1
QIZ	80.07	294 eP	27	58.60	1.1
SNY	80.59	320 Pd	28	00.00	0.3
	0.8s	11.00nm			4.4mb
		S	37	20.00	
CN2	80.62	322 eP	28	00.00	0.2
	1.0s	56.00nm			5.0mb
		S	37	23.00	
SVW	81.11	11 ePd	28	00.73	-1.3
	0.7s	28.09nm			4.9mb
WHN	81.23	306 Pd	28	04.00	[illegible]
	1.0s	45.00nm			5.0mb
CP2	81.89	12 ePd	28	04.58	[illegible]
CRP	81.91	12 ePd	28	04.18	[illegible]
ARUT	82.26	46 ePd	28	09.11	[illegible]
TTA	82.75	10 eP	28	09.90	[illegible]
PMR	82.84	13 eP	28	09.50	[illegible]
	0.6s	48.30nm			5.2mb
IPM	83.00	277 ePd	28	13.80	[illegible]
	0.9s	140.40nm			5.5mb
SIT	83.03	22 eP	28	11.31	[illegible]
	1.1s	24.12nm			4.7mb
MSU	83.49	46 ePd	28	15.45	[illegible]
KLU	83.50	15 iPd	28	13.00	[illegible]
MAW	83.68	200 iP	28	16.60	[illegible]
	1.0s	41.67nm			[illegible]
DUG	83.89	44 ePd	28	16.[illegible]	[illegible]
	0.9s	10.03nm			4.4mb
TOA	83.97	14 eP	28	16.0[illegible]	[illegible]
BALM	84.03	17 eP	28	15.8[illegible]	[illegible]
SNG	84.23	279 eP	28	20.9[illegible]	[illegible]
	1.1s	126.58nm			[illegible]
BJI	84.40	315 Pd	28	19.[illegible]	
	1.2s	33.00nm			4.[illegible]
SRU	84.90	46 ePd	28	2[illegible]	[illegible]
DAU	85.03	45 eP	28	2[illegible]	[illegible]
EMUT	85.04	45 eP	28	2[illegible]	[illegible]
PV09	85.58	47 eP	28	25.[illegible]	[illegible]
PV10	85.59	47 ePd	28	24.9[illegible]	[illegible]
		epP	30	21.39	[illegible]
GYA	85.66	300 iPd	28	26.0[illegible]	[illegible]
	1.2s	65.00nm			[illegible]
		S	38	14.00	
LTX	85.76	57 eP	28	26.85	[illegible]
TIY	85.89	312 Pd	28	27.0[illegible]	[illegible]
	0.9s	47.00nm			5.[illegible]

ALQ	85.93	51 ePd	28	26.87	0.4
	1.0s	40.88nm			5.1mb
ILT	85.93	360 iPd	28	24.40	-1.0
	1.2s	52.00nm			5.1mb
PV08	85.95	47 eP	28	27.08	0.4
IMA	86.05	10 eP	28	25.08	-1.2
	0.8s	11.52nm			4.7mb
FBA	86.06	12 ePd	28	24.66	-1.5
	0.6s	48.81nm			5.4mb
XAN	86.89	307 Pd	28	31.80	0.9
	0.8s	65.00nm			5.4mb
		S	38	22.00	
LRM	86.93	40 iPd	28	31.30	0.2
NST	87.49	287 eP	28	35.50	1.6
HHC	87.89	314 Pd	28	36.60	1.1
	1.0s	43.00nm			5.2mb
KMI	88.45	297 Pd	28	40.50	2.0
	2.0s	160.00nm			5.5mb
GOL	88.74	47 ePd	28	40.09	0.5
	0.8s	16.03nm			4.9mb
BTO	88.84	314 eP	28	40.00	0.2
		S	38	42.00	
GLD	88.86	47 eP	28	41.16	1.1
	1.4s	66.54nm			5.3mb
BDT	89.03	288 eP	28	42.00	1.0
	0.6s	46.40nm			5.6mb
CHTO	89.60	290 iPd	28	44.90	1.3
	1.0s	39.75nm			5.3mb
CD2	89.70	303 iPd	28	45.00	1.1
		S	38	50.00	
YAK	90.09	338 eP	28	43.70	-1.2
LZH	91.52	307 Pd	28	53.60	1.3
	1.0s	70.00nm			5.6mb
		S	39	05.00	
SNA	91.59	178 e(P)	28	54.10	2.2
	0.9s	78.00nm			5.7mb
CIT	91.72	325 eP	28	53.00	0.3
MEO	91.82	54 iPc	28	53.30	-0.3
ACO	92.08	52 iPd	28	54.70	0.0
INK	92.11	15 ePd	28	53.10	-1.0
	0.8s	17.00nm			5.1mb
YKA	94.45	25 eP	29	04.00	-0.9
	0.6s	12.10nm			5.3mb
GTA	95.66	310 eP	29	11.30	0.2
	1.0s	12.00nm			5.1mb
TIK	96.63	345 iPd	29	13.00	-1.6
	1.0s	19.00nm			5.3mb
ZAK	96.99	321 eP	29	15.70	-0.9
	1.0s	10.00nm			5.1mb
		e	33	23.50	
RES	105.64	16 ePKP	34	03.00	-0.8
GBA	107.89	279 PKP	34	09.00	-0.7
FRU	114.93	309 ePKP	34	21.00	-1.5
LMN	118.89	47 ePKPc	34	29.00	-0.9
QUE	120.39	295 ePKP	34	34.70	1.2
DAG	120.52	5 ePKP	34	30.00	-2.1
	0.7s	9.59nm			
ARU	123.43	326 iPKPd	34	37.60	-0.7
	0.8s	60.00nm			
GRM	123.64	205 ePKP	34	41.00	1.5
	0.5s	30.00nm			
SUR	126.55	200 ePKP	34	50.50	5.2X
	0.5s	52.00nm			
MAIO	126.70	302 iPKPd	34	45.00	-0.4
BLF	127.47	207 ePKP	34	36.50	-10.6X
ASH	127.48	304 ePKP	34	46.50	-0.2
[illegible]	129.39	211 ePKP	34	51.10	0.2
	1.4s	40.00nm			
FAF	133.06	345 ePKP	34	42.00	-14.5X
[illegible]	133.82	216 ePKP	35	00.00	0.6
		iSKP	37	34.90	
[illegible]	134.84	344 ePKP	34	47.30	-12.6X
[illegible]	136.80	354 PKP	34	49.30	-14.4X
	0.8s	2.00nm			
[illegible]	136.81	306 ePKP	34	54.00	-10.6X
[illegible]	136.85	200 ePKP	35	04.50	-0.7
	0.5s	23.00nm			
		e	37	43.50	
[illegible]	136.99	349 iPKP	34	54.50	-9.5X
[illegible]	137.37	351 ePKP	34	52.10	-12.6X
	0.4s	4.30nm			
EPE	137.57	310 ePKP	35	04.00	-1.8
MUT	141.51	354 iPKPc	35	06.70	-5.5X
	0.8s	24.00nm			
EDU	141.60	5 ePKP	35	06.60	-5.8X
[illegible]	141.62	5 ePKP	35	06.60	-5.9X
EAB	141.84	6 ePKP	35	08.10	-4.7X

COP	141.85	351 iPKPc	35	08.00	-4.8X
	0.9s	30.25nm			
EBH	141.86	5 ePKP	35	08.20	-4.6X
BSD	141.96	348 iPKPc	35	08.10	-4.9X
	0.7s	26.00nm			
ESY	142.25	4 ePKP	35	08.00	-5.5X
EAU	142.26	5 ePKP	35	09.60	-3.9X
EBL	142.37	5 ePKP	35	09.80	-3.9X
EKA	142.79	5 PKPc	35	10.90	-3.5X
	1.3s	53.90nm			
KVT	143.14	315 iPKP	35	13.00	-2.6X
AAE	143.29	260 PKP	35	17.00	0.1
WIM	143.82	7 ePKP	35	14.70	-1.5
DCN	144.25	10 iPKPd	35	16.20	-0.8
	0.7s	172.00nm			
DLF	144.41	9 iPKPd	35	16.60	-0.6
	0.8s	332.00nm			
IAS	144.41	330 ePKP	35	15.00	-2.4X
KAS	144.50	317 iPKPd	35	17.90	0.0
WME	144.60	7 ePKP	35	17.10	-0.5
YRC	144.71	7 ePKP	35	17.40	-0.3
VAL	145.02	13 ePKP	35	19.30	1.0
YRH	145.11	7 ePKP	35	18.20	-0.3
OJC	145.13	340 ePKP	35	17.90	-0.7
	0.6s	139.00nm			
		i	35	37.20	
PTT	145.15	330 ePKP	35	20.00	1.3
WIT	145.35	355 ePKP	35	20.00	1.2
CFR	145.51	327 ePKP	35	19.00	-0.3
UZH	145.58	336 ePKP	35	20.00	0.7
	1.0s	480.00nm			
		i	35	22.00	
KSP	145.61	344 iPKPd	35	19.00	-0.3
	0.8s	220.00nm			
		id	35	21.00	
		ic	35	39.60	
		e	37	42.00	
		e	38	04.00	
HCG	145.73	6 ePKP	35	18.70	-0.8
VRI	145.76	329 ePKPd	35	21.00	1.2
SPC	145.87	339 ePKP	35	18.10	-2.0
		epPKP	37	42.30	
CLL	145.93	348 iPKP	35	21.50	1.7
	0.9s	255.00nm			
		pPKP	37	42.00	
HTR	146.01	6 ePKP	35	19.40	-0.5
HAE	146.11	5 ePKP	35	21.70	1.6
BRG	146.14	347 iPKPd	35	20.10	-0.1
	1.0s	150.00nm			
		i	35	22.00	
		i	35	40.10	
		epPKP	37	35.90	
WTS	146.15	355 ePKP	35	20.00	-0.1
	0.9s	230.20nm			
		i	35	22.20	
BHL	146.29	304 PKP	35	22.00	0.9
MLR	146.41	329 ePKPc	35	10.00	-11.0X
HGH	146.49	6 ePKP	35	19.40	-1.3
MOX	146.83	349 ePKP	35	21.30	0.0
	1.6s	158.00nm			
		i	35	24.30	
		e	35	27.10	
		epPKP	37	47.20	
PRU	146.83	345 ePKPd	35	21.00	-0.3
	0.7s	95.40nm			
		e	35	24.20	
		e	35	27.30	
		e	35	42.30	
		e	37	44.40	
		e	39	06.50	
VRAC	146.91	343 iPKPd	35	24.70	3.3X
	1.3s	268.90nm			
		e	35	28.10	
PSZ	147.07	338 iPKPd	35	25.10	3.2X
HOF	147.10	348 iPKPc	35	22.00	0.2
		i	35	25.00	
BNS	147.14	354 iPKPd	35	25.00	3.2X
FAM	147.19	307 ePKP	35	25.50	3.1X
EYL	147.23	319 iPKP	35	25.20	2.8X
HRT	147.39	319 ePKP	35	25.20	2.6X
ENN	147.45	356 ePKP	35	22.50	0.2
	0.7s	6.30nm			
		i	35	25.80	
		e	35	29.00	
		e	37	49.00	
UCC	147.51	357 PKP-	35	26.00	3.6X
MEM	147.60	355 iPKPd	35	25.98	3.5X

```
       1.0s    47.30nm
CSS    147.71 307 ePKP  35 26.80   3.5X
SRO    147.71 339 ePKP  35 27.20   4.4X
TNS    147.73 352 iPKPd 35 26.70   3.8X
ZST    147.76 341 e(PKP)35 22.20  -0.7
                  i     35 27.10
                  epPKP 37 46.40
SNF    147.80 357 iPKPd 35 26.70   3.9X
GRF    147.82 349 ePKPd 35 23.40   0.4
                  id    35 27.30
                  ec    35 31.80
                  e(pPKP35 45.50
KHC    147.86 346 iPKPd 35 23.00  -0.1
       1.0s    67.00nm
                  i     35 27.10
                  e     35 32.00
                  e     36 29.50
                  e     37 49.00
VKA    147.93 342 iPKPd 35 27.50   4.3X
                  i     35 32.50
                  i     36 27.00
GZR    147.96 332 ePKPd 35 23.00  -0.4
GEC2   148.10 345 PKP   35 23.10  -0.4
       0.7s     3.59nm
                  e     35 27.60
                  e     35 32.70
                  e     35 45.90
                  e     37 47.10
DOU    148.20 357 PKPd  35 27.70   4.2X
PPCY   148.48 308 ePKP  35 28.50   4.1X
WLF    148.52 355 iPKPd 35 29.03   5.1X
       1.0s    80.00nm
                  ic    35 47.41
KMR    148.73 344 iPKP- 35 29.40   5.0X
EDC    148.78 320 iPKP  35 27.50   2.8
LANF   149.03 353 PKP   35 24.80   0.0
DIM    149.03 325 iPKP  35 30.00   5.0X
HOFF   149.05 353 PKP   35 23.61  -1.2
SRBF   149.09 353 PKP   35 24.80  -0.1
FUR    149.27 348 ePKP  35 24.40  -0.8
                  i     35 30.60
                  i     35 37.10
BHG    149.34 346 iPKPd 35 30.60   5.3X
                  i     35 38.00
                  i     35 47.60
KDZ    149.37 324 iPKP  35 31.00   5.4X
ALN    149.51 323 ePKP  35 30.40   4.6X
WLS    149.64 353 PKP   35 25.23  -0.6
RZN    149.73 325 iPKP  35 31.00   4.7X
KBA    149.83 345 iPKPd 35 25.00  -1.3
       0.9s     9.30nm
                  i     35 31.00
                  i     35 40.50
ECH    149.86 353 PKP   35 24.70  -1.4
VTS    149.87 328 iPKPd 35 32.00   5.5X
VITF   149.97 355 PKP   35 25.69  -0.6
WATA   150.00 347 iPKPd 35 25.70  -0.8
                  i     35 31.80
                  i     35 40.40
EZN    150.03 321 iPKP  35 30.80   4.2X
WTTA   150.06 347 iPKPd 35 26.20  -0.5
       0.8s    13.20nm
                  i     35 32.30
                  i     35 37.90
MOTA   150.09 348 iPKPd 35 26.00  -0.7
       0.8s    12.60nm
                  i     35 32.00
                  i     35 39.10
FEL    150.09 352 PKP   35 24.59  -2.0X
SLE    150.13 351 iPKPc 35 26.60   0.0
PTJ    150.16 340 iPKP  35 32.80   6.1X
SQTA   150.19 348 iPKPd 35 26.30  -0.5
       0.8s    14.90nm
                  i     35 32.40
                  i     35 41.60
CIN    150.22 316 iPKPd 35 34.00   7.1X
MOF    150.22 353 PKP   35 24.37  -2.4X
ZAG    150.23 340 iPKPd 35 32.50   5.8X
MMB    150.32 326 iPKPd 35 33.00   6.0X
ZLA    150.43 351 ePKP+ 35 27.20   0.2
KKB    150.46 327 iPKPd 35 33.00   5.8X
LJU    150.46 342 ePKP  35 27.30   0.2
                  iPKPbc35 33.00
                  e     35 39.40
                  e     35 41.50
                  e     35 43.50
                  e     35 50.50
                  e     36 09.50
BBS    150.56 353 PKP   35 26.55  -0.7
OGA    150.56 348 iPKPc 35 27.90   0.4
                  i     35 34.30
VOY    150.66 343 ePKP  35 27.30  -0.2
                  iPKPbc35 33.20
                  e     35 49.70
SRS    150.73 326 ePKP  35 32.70   5.1X
VBY    150.74 341 ePKP  35 27.90   0.4
                  iPKPbc35 33.90
LOMF   150.75 353 PKP   35 25.80  -1.8
OSS    150.91 349 ePKPc 35 28.30   0.3
LLS    150.93 350 ePKPc 35 28.30   0.3
TRI    150.99 343 ePKP  35 33.80   6.0X
                  e     35 44.00
OUR    151.06 324 ePKP  35 34.00   5.9X
SOH    151.07 325 ePKP  35 33.40   5.2X
KNT    151.07 326 ePKP  35 33.57   5.4X
VAY    151.12 327 iPKP  35 34.00   5.8X
       1.0s    70.00nm
                  i     35 45.30
RIY    151.14 342 iPKP  35 34.20   6.1X
SKO    151.21 329 iPKPd 35 34.70   6.4X
       0.9s    90.00nm
VDL    151.22 349 ePKPc 35 28.90   0.4
GRG    151.48 327 ePKP  35 34.56   5.8X
TMA    151.69 350 ePKPc 35 29.20   0.1
MMK    151.89 351 ePKPc 35 30.50   1.0
DIX    151.93 352 ePKPc 35 30.70   1.1
EMS    152.00 353 ePKPc 35 30.50   0.9
FNA    152.13 328 ePKP  35 36.44   6.7X
OHR    152.17 329 iPKP  35 29.50  -0.3
       0.6s   130.00nm
                  i     35 37.00
                  i     35 47.50
HVAR   152.38 337 iPKPc 35 37.10   7.2X
IGT    153.59 327 ePKP  35 39.60   7.9X
ERUA   154.70  16 ePKP  35 33.00  -0.1
GUD    157.07  12 ePKP  35 37.00   0.6
EPLA   157.16  16 ePKP  35 36.50   0.1
ETOR   157.25   8 ePKP  35 52.00  15.4X
EVAL   159.25  20 ePKP  35 40.00   1.2
EVIA   159.32  10 ePKP  35 39.50   0.6
EHOR   159.49  17 ePKP  35 39.50   0.5
EBAN   159.52  13 ePKP  35 40.00   0.9
EPRU   160.29  18 ePKP  35 41.00   1.1
ECOG   160.42  14 ePKP  35 39.00  -1.1
EJIF   160.70  19 ePKP  35 48.00   7.7X
AVE    162.77  28 ePKP  35 43.00   0.6
                  i     36 36.00
KDS    165.06 110 iPKP  35 44.50  -0.5
                  i     36 47.30
LIC    166.13 149 PKP   35 45.97   0.1
       1.0s    19.50nm
KIC    166.39 150 PKP   35 46.19   0.1
       0.9s    21.50nm
TIC    166.50 148 PKP   35 46.25   0.0
       1.0s    20.00nm
LKO    168.54 138 PKPd  35 47.43  -0.2
       0.9s    16.00nm
     S.D. = 1.0  on 277 of 352 obs.
-----------------------------------
&  OCT  27, 1993  21h 21m 42.46s
   60.540 N          151.186 W
   DEPTH =  48.9km
 KENAI PENINSULA, ALASKA          ( 14)
      <AEIC>. ML 3.0 (AEIC).

NKA      0.21 353 iPd   21 52.36   1.6
SLKM     0.48  93 iPc   21 52.99  -0.5
DFR      0.74 275 iPd   21 56.13  -0.8
BKG      0.75 316 iPd   21 56.31  -0.7
                  eS    22 08.22
REF      0.75 267 iPd   21 56.41  -0.7
                  eS    22 08.09
SPU      0.77 327 eP    21 56.55  -0.7
                  eS    22 08.16
RS2      0.78 265 iPd   21 56.87  -0.7
BRLK     0.79 169 eP    21 56.82  -0.7
                  eS    22 08.72
RED      0.79 262 ePd   21 56.75  -0.9
                  eS    22 08.58
RDW      0.81 267 iPd   21 57.08  -0.8
                  eS    22 08.94
CKT      0.83 323 eP    21 57.32  -0.8
NCT      0.86 272 iPd   21 57.80  -0.8
CKL      0.87 320 eP    21 57.95  -0.7
CGLM     0.87 333 eP    21 58.02  -0.6
CRP      0.87 327 eP    21 57.63  -1.1
CP2      0.89 325 eP    21 58.14  -0.9
MPA      0.90  92 eP    21 58.19  -0.8
                  eS    22 11.26
HOM      0.91 195 eP    21 59.10   0.0
BGL      0.93 321 iPd   21 59.05  -0.5
SUA      0.95  13 iPc   21 59.04  -0.8
                  eS    22 13.51
SEW      0.97 116 eP    21 59.13  -0.8
                  eS    22 13.52
NCG      0.99 332 eP    21 59.78  -0.5
ILIM     1.00 243 eP    21 59.52  -0.8
                  eS    22 13.25
CNPM     1.02 181 iPd   21 59.81  -0.8
                  eS    22 14.11
INE      1.05 244 ePc   22 00.25  -1.0
                  eS    22 14.50
PMS      1.06  48 P     22 00.50  -0.8
PWA      1.28  29 P     22 03.70  -0.6
OPT      1.36 230 ePd   22 04.81  -0.6
PWL      1.44  76 eP    22 05.06  -1.5
                  eS    22 22.68
PLRM     1.45  43 eP    22 05.61  -1.1
                  eS    22 23.85
PMR      1.45  43 eP    22 05.13  -1.5
                  eS    22 20.96
SKT      1.46 354 ePc   22 06.30  -0.5
                  eS    22 25.09
KNK      1.59  55 eP    22 07.51  -1.2
                  eS    22 26.64
AUE      1.62 224 eP    22 08.44  -0.5
AUL      1.62 225 eP    22 08.68  -0.4
AGU      1.64 225 eP    22 09.08  -0.3
AUH      1.64 225 eP    22 09.09  -0.3
AUW      1.64 225 eP    22 09.11  -0.3
AUI      1.65 224 eP    22 08.94  -0.6
GHO      1.65  41 eP    22 08.38  -1.2
PDB      1.68 245 eP    22 08.74  -1.2
                  eS    22 30.75
LTI      1.73 105 ePc   22 08.30  -2.3
CFI      1.79  67 ePc   22 09.59  -1.9
MTU      1.85 106 eP    22 10.10  -2.2
SML      1.88  46 eP    22 11.36  -1.4
CUT      1.92  13 eP    22 12.70  -0.6
SYI      2.03 198 eP    22 13.98  -0.9
CDD      2.04 219 eP    22 14.45  -0.6
MCNL     2.09 231 eP    22 14.46  -1.3
SVW      2.25 287 eP    22 14.19  -3.8
SCM      2.28  54 eP    22 17.53  -0.9
HIN      2.32  92 eP    22 16.08  -3.0
FID      2.33  83 eP    22 15.65  -3.4
                  eS    22 41.82
VZW      2.33  75 eP    22 16.54  -2.6
VLZ      2.45  74 eP    22 18.32  -2.4
HUR      2.56  16 P     22 18.80  -3.5
                  S     22 56.00
KLU      2.74  67 eP    22 22.64  -2.3
TOA      2.88  55 P     22 28.50   1.5
TRF      2.95   8 eP    22 27.59  -0.5
KTH      3.03   2 eP    22 28.49  -0.6
DHY      3.12  34 eP    22 29.48  -1.1
SDG      3.36  51 eP    22 31.98  -1.8
HMT      3.44  90 eP    22 32.76  -2.2
PAX      3.65  46 eP    22 36.43  -1.5
GLB      3.71  73 eP    22 35.77  -2.9
WAX      4.12  88 P     22 40.20  -4.4
WRH      4.20  19 eP    22 43.96  -1.6
HDA      4.35  25 eP    22 46.17  -1.5
BALM     4.36  80 eP    22 44.14  -3.8
CCB      4.41  19 eP    22 46.60  -1.9
MLY      4.51   2 eP    22 49.57  -0.5
FBA      4.65  18 ePc   22 49.75  -2.1
ILB      4.69  23 eP    22 50.59  -1.8
TMW      4.77  51 eP    22 51.33  -2.3
IMA      5.66 350 eP    23 03.84  -2.5
       75 obs. associated
-----------------------------------
*  OCT  27, 1993  21h 40m 06.10± 1.87s
   32.386 S ±11.9km   71.307 W ±17.1km
   DEPTH =  33.0km  (normal)
 NEAR COAST OF CENTRAL CHILE      (135)
      MD 4.0 (SAN).

ROCH     0.64 157 iP+   40 19.11   0.3
                  iS    40 29.86
JACH     0.67 116 iPd   40 18.76  -0.5
```

27d 21h

```
                iS    40 29.38
PEL     0.92 145 iPd   40 22.74   0.0
                iS    40 36.04
LCCH    1.11 191 eP+   40 25.55   0.2
                iS    40 42.05
TACH    1.30 166 iP+   40 28.51   0.4
                iS    40 46.35
PCH     1.40 152 iP+   40 29.38  -0.2
                iS    40 47.97
LNV     1.57 183 eP    40 31.46  -0.5
RTCB    2.31  68 ePd   40 42.50  -0.3
                S     41 11.00
RTCV    2.41  78 eP    40 44.00  -0.1
                S     41 14.00
RTLL    2.63  67 ePd   40 46.20  -1.1
                S     41 15.00
CFA     2.72  74 e(P)  40 50.20   1.7
                S     41 22.00
TCA     5.81  81 eP    41 28.20  -4.1X
     S.D. = 0.8  on  11 of  12 obs.
-----------------------------------
?  OCT  27, 1993  22h 22m 20.41± 1.53s
    4.790 S ±15.0km  144.695 E ±13.3km
   DEPTH = 113.9 ± 21.8 km
   4.8mb (  1 obs.)
 NEAR N COAST OF NEW GUINEA, PNG.(200)

MDG     1.17 113 ePc   22 43.70  -0.3
WWKK    1.58 317 iPd   22 48.90   0.1
MNDI    1.70 217 eP    22 50.50  -0.1
YYYY    1.92 139 eP    22 53.60   0.4
PMG     5.20 152 eP    23 33.00  -4.1X
WR2    18.12 213 iPd   26 26.20  -0.1
        0.4s    24.90nm          4.8mb
     S.D. = 0.5  on   5 of   6 obs.
-----------------------------------
?  OCT  27, 1993  22h 30m 43.56± 4.12s
   44.048 N ±29.8km    7.246 E ±18.2km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                  (545)
      ML 1.0 (STR).

TOUF    0.03 177 Pg    30 45.31  -0.5
AUTN    0.14 112 Pg    30 47.21   0.1
                Sg    30 49.71
MVIF    0.17 204 Pg    30 47.88   0.4
                Sg    30 51.44
AURF    0.17 160 Pg    30 47.64   0.1
                Sg    30 51.84
SAOF    0.23 105 Pg    30 49.16   0.6
                Sg    30 52.64
     S.D. = 0.6  on   5 of   5 obs.
-----------------------------------
*  OCT  27, 1993  22h 38m 43.86± 1.20s
    6.473 S ±12.7km  146.737 E ±19.8km
   DEPTH = 100.5 ± 10.0 km
   4.2mb (  1 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

LAT     0.32 126 iPd   38 58.50  -0.3
YYYY    0.80 287 eP    39 03.00   0.3
MDG     1.54 322 eP    39 10.90  -0.2
PMG     2.94 172 eP    39 30.00   0.4
WR2    18.00 221 eP    42 48.60  -0.5
        0.7s    11.20nm          4.2mb
GBA    71.62 287 P     49 57.00   0.2
     S.D. = 0.6  on   6 of   6 obs.
-----------------------------------
   OCT  27, 1993  22h 53m 48.14± 0.87s
   38.203 N ± 7.3km   30.181 E ± 9.6km
   DEPTH =   5.0km  (geophysicist)
 TURKEY                          (366)
      ML 3.5 (ISK).

KHL     0.53 283 iPg   53 58.00  -0.8
                iSg   54 05.00
BCK     0.81 156 iPg   54 04.30  -0.1
ALT     0.85 356 iPg   54 03.70  -1.4
                eSg   54 16.00
CIN     1.76 251 eP    54 23.00   3.5X
DST     1.85 320 ePn   54 21.60   0.8
GPA     2.09   3 ePn   54 24.60   0.4
EYL     2.36 360 ePn   54 27.70  -0.6
EDC     2.80 321 ePn   54 35.00   0.6
ISK     2.99 343 ePn   54 38.00   1.0
     S.D. = 1.0  on   8 of   9 obs.
-----------------------------------
*  OCT  27, 1993  22h 54m 38.49± 0.86s
    5.838 S ± 7.2km  145.945 E ±12.0km
   DEPTH =  10.0km  (geophysicist)
   3.4mb (  1 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY    0.40 177 iPd   54 46.60  -0.2
MDG     0.61 344 iPc   54 50.70   0.0
LAT     1.33 128 eP    55 02.90  -0.2
WWKK    3.19 313 eP    55 38.30   8.6X
PMG     3.74 161 eP    55 38.00   0.4
WR2    17.99 218 eP    58 50.30  -0.1
        0.7s    2.20nm          3.4mb
     S.D. = 0.3  on   5 of   6 obs.
-----------------------------------
&  OCT  28, 1993  00h 09m 07.95s
   35.230 N          118.076 W
   DEPTH =   8.4km
 CENTRAL CALIFORNIA              ( 39)
      <PAS-P>. ML 3.6 (PAS), 3.3 (GS).

SNDC    0.20 245 P     09 12.23  -0.2
WJPM    0.38 299 P     09 15.09  -0.6
BMTC    0.44 258 P     09 15.96  -0.9
ISA     0.54 323 iPc   09 17.62  -1.2
ARVC    0.63 261 P     09 19.60  -0.9
NMC     0.63  13 P     09 19.52  -1.0
TOW     0.63  24 P     09 20.09  -0.5
WCHM    0.65   0 P     09 19.97  -1.3
FTC     0.76 242 P     09 22.02  -1.0
RCWM    0.80  26 P     09 22.67  -1.0
ABL     1.01 248 eP    09 26.30  -1.1
SSK     1.06 163 eP    09 27.14  -1.1
RYS     1.20 241 P     09 30.94   0.3
PEC     1.53 150 eP    09 34.07  -1.6
BCH     1.65 269 eP    09 36.52  -0.8
PHBM    1.92 302 P     09 43.06   1.8
PHAM    1.99 288 eP    09 42.28   0.1
PLM     2.12 151 eP    09 42.56  -1.8
MTUM    2.16 350 eP    09 44.83   0.0
PDRM    2.17 301 P     09 44.91   0.1
TPNV    2.27  40 eP    09 45.04  -1.3
CWCR    2.27 355 P     09 49.62   3.2
HTCR    2.36 346 P     09 52.02   4.1
ORC     2.45 349 P     09 52.11   3.1
MRCM    2.46 352 ePn   09 49.86   0.7
MMPM    2.50 342 (P)   09 50.60   0.8
MEMM    2.53 344 (Pn)  09 51.00   1.1
BONR    2.73 356 ePn   09 52.70  -0.3
TNP     2.93  13 (P)   09 55.23  -0.6
SAO     3.13 300 ePn   09 55.98  -2.5
CMB     3.36 327 (Pn)  10 01.63  -0.2
GLA     3.46 128 (Pn)  10 02.24  -1.0
                ePg   10 11.77
ARN     3.50 308 (P)   10 03.10  -0.7
       33 obs. associated
-----------------------------------
?  OCT  28, 1993  01h 11m 10.87± 0.98s
   31.622 S ±26.8km   68.623 W ±14.1km
   DEPTH = 100.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA    (137)

RTCB    0.20 312 iPd   11 25.00  -0.6
                S     11 37.50
RTCV    0.25 163 iPd   11 25.50  -0.2
                S     11 37.50
RTLL    0.32  24 iPd   11 26.20   0.4
                S     11 38.70
CFA     0.33  87 ePc   11 26.90   1.0
                S     11 39.80
MRA     2.60 108 ePc   11 52.10   0.2
TCA     3.46  86 eP    12 03.00  -0.7
     S.D. = 0.9  on   6 of   6 obs.
-----------------------------------
   OCT  28, 1993  01h 52m 06.51± 0.16s
   41.604 N ± 3.3km  142.024 E ± 3.0km
   DEPTH =  67.3km  ( 37 depth phases)
   5.2mb ( 85 obs.)
 HOKKAIDO, JAPAN  REGION         (224)
      Mw 5.4 (HRV).
      CENTROID, MOMENT TENSOR    (HRV)
      Data Used: GDSN
      L.P.B.: 25S, 40C
      Centroid Location:
      Origin Time        01:52: 9.7 0.5
      Lat 41.54N 0.04 Lon 142.03E 0.05
      Dep  68.5 3.1 Half-duration  1.8
      Moment Tensor;   Scale 10**16 Nm
        Mrr= 9.94 0.45  Mtt=-1.08 0.93
        Mff=-8.86 0.73  Mrt= 2.73 0.59
        Mrf= 7.63 0.69  Mtf=-5.27 0.68
       Principal Axes:
        T  Val= 12.71  Plg=71  Azm=282
        N        1.50       4       24
        P      -14.20      18      115
      Best Double Couple:Mo=1.3*10**17
       NP1:Strike=213 Dip=27 Slip=  99
       NP2:        22      64       85

MRRJ    1.08 319 iPd   52 25.80  -0.4
                eS    53 10.00
HOOJ    1.22  50 P     52 28.10   0.1
                eS    52 45.20
AOMJ    1.63 231 P     52 33.50   0.0
                eS    52 52.60
KUSJ    2.49  52 iPd   52 43.80  -1.7
                eS    53 12.30
OFUJ    2.54 186 P     52 45.30  -0.9
                eS    53 15.90
ASAJ    2.55  10 eP    52 46.60   0.2
                eS    53 17.70
YAMJ    3.75 205 eP    53 03.90   0.7
                eS    53 44.30
NIIJ    4.95 209 P     53 20.50   0.5
YSS     5.43   5 iPc   53 26.30  -0.5
        0.8s   110.00nm          5.2mb
     Z  21s     5.60um          4.8MszX
     N  21s     6.80um
     E  21s     4.80um
                eS    54 26.00
KAKJ    5.58 196 P     53 25.90  -3.0X
                eS    54 29.20
KUR     5.59  48 eP    53 28.00  -1.0
        1.0s  2150.00nm          6.4mb X
     Z  16s     8.40um          3.8Msz
     N  16s     3.40um
     E  16s     8.40um
                eS    54 27.00
MAT     5.86 212 eP    53 33.00   0.2
        1.1s    92.41nm          5.0mb
                (S)   54 40.00
MTMJ    5.99 215 P     53 35.10   0.4
CHJJ    6.03 204 P     53 34.60  -0.5
IIDJ    6.91 209 P     53 48.60   1.2
VLA     7.65 285 iPc   53 58.00   0.4
        1.0s   125.00nm          5.6mb
     E  12s     2.00um
                iS    55 30.00
TSRJ    7.68 220 P     54 00.40   2.4
YONJ    9.28 229 eP    54 22.50   2.5
MDJ     9.58 292 eP    54 25.70   1.7
        1.0s   140.00nm          5.9mb
     Z  22s     5.60um          4.2MszX
     N  11s     0.61um
     E  11s     1.42um
TKSJ    9.88 222 eP    54 27.80  -0.4
SHNJ   11.40 233 eP    54 51.40   2.7X
CN2    12.39 286 P     55 05.00   3.1X
        1.2s    32.00nm          5.1mb
     Z  14s     2.66um          4.2Msz
     N  10s     1.04um
     E  10s     1.25um
                epP   55 10.50
                ePP   55 15.00
                eS    57 20.00
KUMJ   12.71 228 eP    55 09.00   2.9X
SKR    13.30  42 eP    55 20.00   6.3X
        1.0s   220.00nm          5.8mb
     Z  16s     3.40um          4.8Msz
     N  16s     2.80um
     E  16s     3.40um
SNY    13.79 277 Pc    55 22.00   1.9
        1.0s    28.00nm          4.7mb
     Z  29s     5.60um          4.5Msz
     E  11s     0.91um
                sP    55 41.00
                sS    58 12.50
DL2    15.80 267 eP    55 48.00   1.9
        1.0s   310.00nm          5.4mb
     Z  27s     1.72um          3.9Msz
     N  10s     0.57um
                sP    56 10.00
                eS    58 46.00
BJI    19.61 274 eP    56 29.00  -2.9X
```

```
      1.0s   110.00nm          5.1mb
    Z  14s     2.06um          4.5Msz
    E  14s     2.23um
               ePP    56 46.00
               eS     00 02.00
               eSS    00 36.00
SSE   19.74 245 Pd    56 33.00  -0.4
      1.0s    42.00nm          4.7mb
    Z  20s     1.80um          4.9MszX
    N  16s     2.00um
    E  16s     1.60um
TIA   20.08 263 Pd    56 35.30  -1.6
    Z  29s     1.97um          4.3MszX
    N  13s     0.75um
    E  13s     0.66um
NJ2   20.80 250 Pd    56 42.40  -1.9
      0.8s    43.00nm          4.8mb
    Z  22s     1.22um          4.2Msz
    N  14s     1.04um
    E  13s     1.10um
               pP     57 00.00  83kmX
               eS     00 33.00
YAK   21.74 344 iPc   56 51.90  -1.6
      1.1s   165.00nm          5.3mb
    Z  18s     1.30um          4.4Msz
    N  18s     1.20um
    E  12s     0.80um
               i      57 14.00 107kmX
               eS     00 46.00
               eSS    01 19.00
CIT   21.92 308 eP    56 54.00  -1.5
HHC   22.87 278 P     57 03.60  -1.3
      1.0s    32.00nm          4.7mb
    N  12s     0.43um
    E  12s     0.69um
               eS     01 09.00
TIY   23.05 270 eP    57 05.00  -1.7
      1.2s    54.00nm          4.9mb
BTO   24.07 278 eP    57 15.00  -1.6
      1.0s    44.00nm          4.9mb
    N  11s     0.44um
    E  13s     0.78um
WHN   24.84 253 Pc    57 23.00  -0.9
      0.6s    78.00nm          5.3mb
    N  20s     3.70um
    E  18s     1.59um
               pP     57 39.50  72km
               S      01 40.00
XAN   27.10 265 P     57 42.60  -2.2
      0.6s    16.00nm          4.8mb
    Z  38s     2.00um          4.4MszX
    N  15s     0.81um
    E  15s     0.41um
               pP     57 57.00  59km
               S      02 16.00
IRK   27.57 306 ePc   57 49.00   0.1
    Z  18s     1.85um          4.7Msz
    E  17s     1.41um
               e      58 04.50  65km
               e      58 46.50
               e      02 24.00
ZAK   28.04 302 iPd   57 51.00  -2.0
      1.2s    52.00nm          5.0mb
    Z  13s     1.66um          4.8MszX
    N  12s     0.57um
    E  16s     1.46um
               eS     02 31.00
LZH   30.07 272 eP    58 10.00  -1.6
      1.4s    49.00nm          5.0mb
    Z  30s     1.72um          4.5MszX
    E  15s     0.57um
               pP     58 30.00  87kmX
               eS     03 00.00
               eSS    04 42.00
TIK   30.81 352 eP    58 14.00  -3.5X
      1.0s    12.00nm          4.6mb
               e      58 30.00  66km
               e      59 15.00
BAG   31.16 223 ePc   58 22.90   1.5
GTA   31.94 280 eP    58 26.50  -1.4
      1.0s    46.00nm          5.3mb
    Z  18s     3.02um          5.0Msz
    E  15s     1.15um
               pP     58 41.50  61km
               sP     58 48.50
               PP     59 35.00
               PcP    01 17.20
               eS     03 30.00
               ScP    04 54.50
               PcS    05 01.00
               ScS    08 51.00
CD2   32.41 263 eP    58 30.00  -2.0
      0.7s    60.00nm          5.5mb
    Z  31s     1.80um          4.6MszX
    N  10s     0.72um
GYA   32.71 254 P     58 34.00  -0.7
      0.8s    36.00nm          5.3mb
    Z  24s     1.20um          4.5MszX
               ScP    04 53.00
ILT   33.70  26 iPd   58 39.40  -3.3X
      2.0s   110.00nm          5.4mb
    Z  18s     0.90um          4.5Msz
    E  18s     0.60um
               i      58 52.70  51kmX
               eS     03 58.00
               e      09 00.00
QIZ   35.43 240 eP    58 59.30   1.3
               S      04 28.00
KMI   36.34 256 Pd    59 06.00   0.0
      2.0s   100.00nm          5.4mb
    Z  20s     1.20um          4.7Msz
    N  15s     0.90um
    E  15s     0.80um
               eS     04 42.00
NRI   39.20 333 iPc   59 26.70  -2.4
      1.2s    76.00nm          5.5mb
    Z  20s     7.50um          5.5Msz
    E  21s     7.40um
               e      59 44.00  70km
               e      01 36.00
               eS     05 24.00
               e      08 49.00
WMQ   39.38 292 P     59 30.50  -0.5
      1.0s    91.00nm          5.6mb
    Z  18s     2.36um          5.1Msz
    E  15s     2.25um
               PcP    01 38.00
               S      05 30.00
               SS     08 22.50
TTA   41.46  38 eP    59 48.50   0.7
SVW   41.65  40 eP    59 50.60   1.2
      0.9s    26.10nm          5.0mb
LSA   42.45 271 iPc   59 56.20  -0.7
    Z  26s     1.39um          4.7MszX
               S      06 11.00
IMA   42.56  33 eP    59 56.22  -0.7
      0.8s    13.25nm          4.8mb
CHTO  43.04 251 ePd   00 01.40   0.2
      0.7s    27.80nm          5.2mb
CP2   43.28  40 ePd   00 03.64   0.8
CRP   43.32  40 eP    00 03.50   0.3
KDC   43.51  45 eP    00 03.78  -0.8
      0.9s    12.85nm          4.7mb
BDT   44.04 250 eP    00 09.00  -0.2
      0.7s    21.50nm          5.1mb
NST   44.33 247 eP    00 12.00   0.4
SLKM  44.33  41 eP    00 09.82  -1.4
PMR   44.74  39 eP    00 13.50  -0.9
      0.9s    27.41nm          5.1mb
FBA   45.03  35 ePc   00 16.45  -0.3
      0.8s    82.63nm          5.6mb
TOA   46.06  38 eP    00 25.60   0.6
KLU   46.27  39 eP    00 26.21  -0.4
BALM  48.06  39 eP    00 39.89  -0.8
FRU   48.70 295 eP    00 46.00   0.2
      2.0s   110.00nm          5.5mb
    Z  24s     1.20um          4.8MszX
               e      01 00.00  53kmX
KSH   49.12 291 P     00 50.50   1.3
      1.4s   100.00nm          5.7mb
    Z  20s     1.87um          5.1Msz
    N  14s     0.64um
    E  14s     0.10um
               pP     01 03.00  45kmX
               PP     02 47.00
               ScP    05 57.00
               ScS    10 33.00
INK   50.13  29 eP    00 56.00  -0.4
      0.9s    29.00nm          5.3mb
SNG   50.19 239 eP    01 01.00   3.6X
SVE   52.11 316 ePd   01 11.00  -0.5
      1.5s   160.00nm          5.8mb
    Z  19s     3.00um          5.3Msz
    N  19s     1.00um
    E  19s     2.50um
               e      03 16.00 720kmX
KGM   52.55 232 ePd   01 15.40   0.1
ARU   53.30 316 (P)   01 19.00  -1.4
      1.2s   120.00nm          5.8mb
    Z  18s     2.50um          5.3Msz
    N  20s     1.00um
    E  18s     1.50um
               e      01 34.00  56kmX
NIL   53.75 285 iPc   01 26.27   2.3
      0.6s     0.03nm          2.5mb X
KHKI  55.32 212 ePd   01 34.00  -1.5
               e      03 17.10 525kmX
LEM   57.57 222 iPd   01 51.60  -0.1
RES   58.07  15 ePd   01 53.00  -1.4
      0.9s    54.00nm          5.7mb
               pP     02 12.50  76km
HYB   58.90 266 eP    02 00.00  -1.0
      0.8s    30.80nm          5.5mb
QUE   60.12 285 eP    02 19.30   9.9X
SDF   61.00 337 iP    02 14.30  -0.3
DAG   61.28 355 iPc   02 14.50  -1.9
      0.6s    56.00nm          5.9mb
WB5   61.58 188 iPd   02 16.90  -2.1
               i      02 43.00 105kmX
               iPcP   02 50.30
WRA   61.65 188 P     02 17.50  -2.0
WR2   61.65 188 iPc   02 17.30  -2.2
      0.9s    26.20nm          5.4mb
               i      02 38.70  84kmX
ASH   61.94 297 eP    02 22.00   0.6
MAIO  62.05 295 eP    02 23.00   0.7
GBA   62.13 263 Pd    02 23.00   0.1
MCW   63.21  48 (P)   02 30.92   1.2
               ipP    02 48.88  68km
GMW   63.86  49 (P)   02 33.48  -0.5
MOS   63.89 322 eP    02 33.00  -1.0
BMW   64.20  50 eP    02 36.61   0.3
RMW   64.46  48 (P)   02 39.37   1.4
               ipP    02 57.38  68km
KAF   64.48 332 eP    02 36.60  -1.1
      0.6s    24.90nm          5.3mb
PUL   64.52 329 ePd   02 37.50  -0.5
    Z  18s     0.90um          5.0Msz
               e      02 56.00  70km
OBN   64.74 322 iPd   02 38.00  -1.5
      1.0s    70.00nm          5.6mb
    Z  19s     1.50um          5.2Msz
    N  19s     1.00um
    E  19s     0.70um
               e      02 58.00  77km
               e      03 17.00
LON   64.86  49 eP    02 39.73  -0.8
ASPA  65.37 188 eP    02 42.40  -1.4
      0.9s    18.00nm          5.0mb
    Z  23s     0.40um          4.6MszX
               ipP    03 03.70  82kmX
               eS     08 47.00
VGB   66.15  50 (P)   03 08.32  19.5X
DPW   66.21  46 eP    02 48.77  -0.4
NEW   66.56  46 eP    02 50.84  -0.5
      0.9s    24.91nm          5.2mb
GRO   66.92 308 eP    02 54.00   0.4
      1.0s    50.00nm          5.4mb
FHC   66.99  55 eP    02 55.17   1.0
      1.1s    33.99nm          5.2mb
KMPM  67.13  56 eP    02 56.29   1.2
               epP    03 14.29  67km
YBH   67.22  54 ePc   02 55.71   0.0
               epPc   03 12.11  60km
               isPc   03 15.96
LGPM  67.63  55 eP    02 58.35   0.0
WDC   68.01  55 eP    02 59.99  -0.5
      0.9s     7.84nm          4.7mb
PYA   68.05 310 eP    02 48.00 -12.7X
               i      03 10.00  85kmX
               i      03 21.00
MIN   68.72  55 eP    03 02.70  -2.4
               ipPc   03 20.45  66km
               isPc   03 24.50
WARB  68.93 195 eP    03 06.00  -0.2
      0.7s    17.00nm          5.1mb
UPP   69.07 334 iP    03 06.30  -0.4
               i      03 29.00  88kmX
ORV   69.26  55 ePd   03 07.49  -0.8
               ipPc   03 23.64  59km
               isPc   03 27.54
```

28d 02h

```
ERE     69.52 306 eP     03 10.00    0.1
MNK     69.55 325 eP     03 06.00   -3.7X
      Z  18s      1.48um          5.3Msz
TAB     69.67 303 eP     03 11.00    0.0
BKS     69.82  57 eP     03 11.09   -0.6
                  epPc   03 27.59   60km
                  isPc   03 31.54
HMR     69.92  57 (P)    03 14.35    2.1
                  epP    03 32.99   69km
HFS     70.13 335 eP     03 11.90   -1.3
        0.4s    20.30nm          5.4mb
NB2     70.17 337 P      03 12.80   -0.7
        1.0s    35.00nm          5.2mb
NAO     70.45 337 P      03 07.30   -7.9X
MHC     70.51  57 eP     03 14.94   -1.2
                  isPc   03 35.74
COE     70.55  57 (P)    03 17.29    1.1
                  epP    03 35.25   66km
ARN     70.58  57 eP     03 16.77    0.4
                  ipP    03 34.81   67km
LRM     70.58  46 eP     03 16.40   -0.1
SHI     70.66 293 eP     03 17.00   -0.1
CMB     70.88  56 ePd    03 18.25    0.1
                  ipPc   03 34.25   58km
                  isPc   03 38.15
MEMM    72.00  55 eP     03 26.40    1.6
BONR    72.21  55 eP     03 25.79   -0.7
FRB     72.23  14 ePd    03 25.40   -0.3
        1.0s    48.00nm          5.4mb
                  pP     03 45.00   73km
MRCM    72.26  55 eP     03 27.24    0.5
                  ipP    03 46.11   70km
TNP     72.79  54 eP     03 29.90    0.1
        0.7s    18.51nm          5.1mb
BCH     72.84  58 eP     03 30.75    0.8
                  ipP    03 48.74   66km
HVU     73.02  49 eP     03 31.22    0.2
ISA     73.55  57 eP     03 33.50   -0.6
        1.2s    16.40nm          4.8mb
ABL     73.60  58 (P)    03 35.34    0.8
                  ipP    03 53.50   67km
BSD     73.66 331 iPc    03 34.40    0.2
        1.0s    51.00nm          5.4mb
KIS     73.71 319 eP-    03 54.00   19.4X
      Z  20s      0.80um          5.0Msz
DUG     74.04  50 eP     03 35.79   -1.1
        0.8s     7.46nm          4.7mb
COP     74.07 333 iPc    03 37.50    1.0
        0.8s    35.82nm          5.4mb
TPNV    74.11  55 P      03 38.27    0.9
        0.8s     7.86nm          4.7mb
MUD     74.51 335 iPc    03 38.80   -0.3
        0.9s    16.00nm          4.9mb
DAU     74.79  49 ePc    03 42.17    0.7
GSC     74.83  56 (P)    03 42.01    0.5
ARUT    75.26  52 (P)    03 45.70    1.7
                  ipPc   04 04.03   67km
ULM     75.45  34 eP     03 47.00    2.4
                  pP     04 06.50   72km
PEC     75.52  58 eP     03 44.22   -1.2
        1.1s    22.87nm          5.0mb
                  ipP    04 04.81   77km
OJC     75.52 326 eP     03 45.30    0.3
        1.0s    91.00nm          5.7mb
                  i      03 54.20   29kmX
                  i      04 04.50
MSU     75.52  51 eP     03 46.13    0.5
VRI     75.56 319 ePc    03 47.50    2.1
UZH     75.62 324 eP     03 47.00    1.4
                  e      04 06.80   74km
PLM     76.06  58 (P)    03 49.39    0.8
                  ipP    04 07.31   66km
SRU     76.08  50 eP     03 48.65    0.0
SPC     76.11 325 eP     03 48.30   -0.3
MLR     76.22 319 eP     03 48.00   -1.2
KSP     76.47 328 eP     03 50.00   -0.4
                  ic     03 51.50    5kmX
                  i      04 11.00
PSZ     77.22 324 eP     03 55.50    0.8
PV09    77.29  50 eP     03 55.52    0.0
BRG     77.37 329 iP     03 56.40    1.1
        1.2s    26.00nm          5.1mb
CLL     77.38 330 iP     03 54.90   -0.4
        1.3s    46.00nm          5.3mb
                  e      04 12.00   62km
PV10    77.43  50 ePd    03 56.86    0.6
                  epP    04 16.96   75km
PV08    77.51  49 eP     03 57.28    0.5
KAC     77.53 343 eP     03 56.50    0.4
GLA     77.54  57 eP     03 57.69    1.0
                  ipP    04 16.97   71km
VRAC    77.55 327 eP     03 57.30    1.0
        1.3s    65.50nm          5.4mb
                  e      04 17.10   73km
KPL     77.75 343 eP     03 57.70    0.4
KSB     77.82 343 eP     03 58.20    0.6
PRU     77.84 328 iPd    03 58.10    0.2
        1.0s   170.00nm          6.0mb
SRO     77.99 325 iP     04 00.70    1.9
ZST     78.21 326 eP     04 00.60    0.6
WIT     78.36 334 eP     04 02.50    1.8
                  e      04 20.00   63km
MOX     78.43 330 iPc    04 01.80    0.6
        1.3s    27.00nm          5.0mb
      Z  21s     0.60um          4.9Msz
HOF     78.60 330 eP     04 02.90    0.8
        1.0s    18.00nm          5.0mb
KHC     78.90 328 P      04 04.50    0.7
        1.0s    21.40nm          5.0mb
                  e      04 13.50   29kmX
                  e      04 21.00
                  e      06 57.00
EKA     78.99 341 Pc     04 04.40    0.3
        1.0s    18.30nm          5.0mb
WTS     79.00 334 eP     04 05.00    0.8
GEC2    79.08 328 P      04 05.10    0.2
        1.2s     8.78nm          4.6mb
                  e      04 08.10   10kmX
                  e      04 12.20
                  e      04 25.20
                  e      04 28.30
WET     79.16 329 iPd    04 06.00    0.8
        1.0s    34.00nm          5.2mb
GRF     79.35 330 eP     04 07.00    0.8
        1.0s    54.00nm          5.4mb
                  ePcP   04 12.40
                  epP    04 24.00   61km
                  esP    04 34.00
                  e      04 45.30
JAQ     79.59  22 eP     04 05.00   -2.4
BNS     79.75 333 iPc    04 08.70    0.4
BHG     80.31 328 iPc    04 12.60    1.2
        1.0s    37.00nm          5.3mb
ENN     80.34 333 eP     04 12.00    0.6
        1.0s    24.00nm          5.1mb
                  e      04 47.00  139kmX
FUR     80.58 329 eP     04 14.00    1.2
        0.9s    44.00nm          5.4mb
KBA     80.65 327 iPc    04 14.40    1.0
        1.1s    35.10nm          5.2mb
UCC     80.83 334 P      04 14.00    0.0
SKO     81.02 319 iP     04 16.50    1.3
                  i      04 34.00   63km
SNF     81.10 334 P      04 14.70   -0.7
WATA    81.14 328 iPd    04 16.40    0.5
WTTA    81.18 328 iPd    04 16.60    0.4
        0.8s    11.70nm          4.9mb
WLF     81.20 333 P      04 19.00    3.1X
ALQ     81.31  51 eP     04 15.06   -2.0
        0.9s     4.63nm          4.4mb
                  ipP    04 37.40   84kmX
MOTA    81.32 329 iPc    04 16.60   -0.3
        1.0s    42.00nm          5.3mb
                  i      04 17.90    4kmX
DOU     81.36 334 P      04 17.20    0.4
SQTA    81.38 329 iPc    04 17.00   -0.1
        1.2s    36.00nm          5.2mb
                  i      04 18.20    4kmX
DLF     81.66 342 eP     04 19.50    1.2
OGA     81.74 328 iPc    04 20.20    1.1
        1.0s    11.00nm          4.8mb
DCN     81.79 342 eP     04 20.30    1.3
OHR     81.98 319 iP     04 20.90    0.6
        0.8s    40.00nm          5.4mb
OSS     82.24 329 ePc    04 22.60    0.9
ZLA     82.24 330 eP+    04 22.30    0.8
LLS     82.52 330 ePc    04 23.90    0.7
VDL     82.66 329 ePc    04 25.70    1.8
TMA     83.21 329 ePc    04 27.20    0.5
MMK     83.60 330 ePc    04 30.00    1.2
DIX     83.78 330 ePc    04 31.00    1.3
ACO     84.09  45 iPc    04 30.70   -0.5
FIR     84.19 327 eP     04 25.00   -6.4X
LSD     84.40 330 P      04 33.91    1.0
RSL     84.41 330 P      04 33.38    0.6
RSP     84.63 330 P      04 33.59   -0.2
PCP     84.64 329 P      04 33.87    0.1
BHB     84.88 330 P      04 34.10   -0.9
RRL     85.00 330 P      04 35.42   -0.4
FIN     85.05 329 P      04 35.01   -0.8
ROB     85.11 329 P      04 35.65   -0.5
PZZ     85.23 329 P      04 35.52   -1.3
ENR     85.34 329 P      04 34.92   -2.5
STV     85.37 329 P      04 35.24   -2.2
IMI     85.43 329 P      04 36.89   -0.9
SSB     85.52 331 P      04 39.27    1.1
MEO     85.83  46 iPc    04 40.10    0.2
TUL     86.45  44 iP     04 43.30    0.4
GAC     86.85  25 eP     04 44.00   -0.6
LTX     86.97  53 eP     04 44.57   -1.1
FVM     87.47  39 (P)    04 48.13    0.4
        1.7s    43.16nm          5.3mb
                  ipP    05 06.71   67km
LMN     89.69  18 eP     04 59.00    0.7
MAW    123.84 207 ePKP   11 08.80   11.8X
        2.9s     8.40nm
                  ePKKP  20 23.10
LPAZ   143.82  55 PKPd   11 37.80    1.2
                  i      20 10.00
                  SS     34 20.80
LPB    144.02  55 PKP    11 32.00   -4.7X
CNCB   144.31  55 PKP    11 36.80   -0.6
CCH    145.87  53 PKP    11 39.60   -0.1
SOB1   147.63   5 ePKP   11 43.50    1.2
YJA    149.84  59 e(PKP)11 48.00    1.9
FSA    152.20  65 ePKPd 11 57.50    8.6X
BAO    152.71  21 ePKP   11 57.00    7.0X
BDFB   152.71  21 (PKP) 11 47.82   -2.2
                  iPKPbc11 57.32
                  epP    12 08.57
BDF    152.76  21 ePKP   11 53.30    3.2X
        1.1s     1.35nm
                  e      12 09.80
     S.D. = 1.1  on 214 of 236 obs.
-----------------------------------
*  OCT  28, 1993  02h 53m 17.13± 0.47s
   46.706 S ±10.8km   93.729 W ± 8.5km
   DEPTH =  10.0km  (geophysicist)
   5.5mb ( 16 obs.)
 SOUTHERN PACIFIC OCEAN            (692)

PEL     22.16  61 eP     58 16.00    1.2
MOCB    34.13  52 P      00 05.40    0.7
ARE     35.36  39 eP     00 16.00    0.9
CNCB    36.65  44 P      00 28.40    2.1
LPB     36.84  44 P      00 30.70    3.0X
      Z  20s     0.71um          4.4Msz
                  LR     11 12.00
LPAZ    37.03  44 P      00 29.00   -0.6
                  LR     11 36.00
CCH     37.08  47 P      00 30.30    0.7
PPD     42.10  69 eP     01 11.10    0.2
VAO     44.25  74 eP     01 27.20   -1.3
SBA     46.77 197 iPc    01 49.40    1.7
SNA     47.40 153 e(P)   01 51.70   -1.1
        1.3s   115.38nm          5.8mb
BAO     48.92  66 eP     02 04.00   -1.4
                  i      02 06.10
                  i      02 11.60
                  i      02 18.80
SOB1    58.28  68 (P)    03 15.00    0.7
SGS     80.42  11 eP     05 30.85    0.9
UYO     80.50 359 iPd    05 31.20    0.8
PRM     81.07  10 eP     05 32.38   -1.0
WMOK    81.20 356 eP     05 33.19   -0.9
        1.3s    42.61nm          5.3mb
MEO     81.23 356 iPd    05 33.50   -0.8
JSC     81.39  10 eP     05 32.65   -2.4
LHS     81.65  11 eP     05 36.28   -0.1
MYNC    81.86   8 eP     05 36.42   -1.1
        1.3s    82.35nm          5.7mb
ALQ     82.08 349 ePc    05 38.19   -0.7
        1.4s    26.35nm          5.1mb
TUL     82.26 358 iP     05 39.40   -0.1
PLM     82.38 341 eP     05 41.69    1.2
ACO     83.17 356 iPc    05 43.50   -0.8
GSC     84.23 341 ePd    05 51.22    1.4
FVM     84.36   3 eP     05 49.55   -0.7
        1.4s    44.58nm          5.5mb
NAV     84.45  10 eP     05 48.92   -1.8
BCH     84.90 339 eP     05 53.48    0.3
```

```
ISA     84.96 340 P     05 53.66   0.2
        1.5s    44.85nm          5.5mb
TPNV    85.70 342 eP    05 58.59   1.4
        1.3s    41.54nm          5.5mb
PV10    85.80 348 eP    05 56.13  -1.7
PV09    85.94 348 eP    05 58.47  -0.1
ARUT    85.95 344 eP    05 59.82   1.4
MSU     86.43 346 eP    06 00.88   0.0
SAO     86.74 338 ePd   06 01.59  -0.5
        2.0s    60.00nm          5.5mb
MEMM    86.98 340 eP    06 05.22   2.0
TNP     86.99 342 eP    06 01.96  -1.6
        1.6s    46.61nm          5.5mb
BONR    87.11 341 eP    06 03.92  -0.4
COE     87.26 338 eP    06 05.81   1.1
ARN     87.32 338 eP    06 04.63  -0.3
MHC     87.34 338 ePd   06 06.09   0.9
        2.2s   120.00nm          5.8mb
STAN    87.53 338 ePd   05 54.75 -11.2X
CMB     87.68 339 ePd   06 06.15  -0.5
        1.5s    30.00nm          5.4mb
BKS     87.99 338 ePd   06 08.94   0.8
        1.6s    50.00nm          5.6mb
DAU     88.13 347 eP    06 09.82   0.7
DUG     88.18 345 eP    06 09.82   0.7
        1.6s    24.22nm          5.3mb
ORV     89.39 339 eP    06 14.94   0.2
        1.9s    40.00nm          5.4mb
HVU     89.72 346 eP    06 16.58   0.1
MIN     90.17 339 eP    06 17.50  -1.1
        2.4s    60.00nm          5.4mb
WDC     90.62 338 ePd   06 18.80  -1.6
        1.8s    50.00nm          5.5mb
LGPM    91.01 338 eP    06 22.70   0.3
LBFM    91.18 339 eP    06 23.19  -0.1
BMW     96.34 340 eP    06 47.15   0.5
YYYY   105.48 243 ePKP  11 36.50  -5.8X
GBA    146.18 164 PKP   12 58.00  -0.3
OBN    148.18  56 iPKPd 13 03.30   3.0X
        1.2s    48.00nm
POO    150.10 156 ePKP  13 11.00   6.5X
CHTO   150.29 205 ePKPd 13 08.00   3.3X
        1.1s    17.08nm
     S.D. = 1.1  on  53 of  59 obs.
-----------------------------------
*  OCT  28, 1993  03h 04m 47.66± 0.77s
   5.931 S ± 7.5km  145.976 E ±10.9km
   DEPTH =  10.0km  (geophysicist)
   4.2mb (  2 obs.)  4.0Msz (  1 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
     ML 4.6 (PMG).

YYYY    0.31 181 iPd    04 55.40   1.3
MDG     0.70 344 iPc    05 02.30   0.8
LAT     1.25 126 iPc    05 10.50  -0.5
                eS      05 26.00
MNDI    2.32 264 eP     05 31.50   4.8X
WWKK    3.28 314 eP     05 46.20   6.0X
PMG     3.65 161 eP     05 45.80   0.5
WR2    17.93 218 iPd    08 59.00   0.1
        1.0s    14.90nm          4.1mb
                i       09 05.30
                eS      12 12.80
ASPA   21.12 212 iPc    09 33.40  -1.7
        0.9s    11.40nm          4.2mb
     Z  18s     0.60um           4.0Msz
                i       09 38.30
                eS      13 51.60
DZM    25.47 131 iPc    10 17.90   0.1
GBA    70.74 287 P      16 14.00   7.5X
MOCB  138.87 132 PKP    24 17.00  -0.6
CNCB  139.53 124 PKP    24 13.00  -6.0X
LPB   139.58 124 (PKP)  24 11.00  -7.9X
LPAZ  139.67 124 PKP    24 02.70 -16.7X
                i       24 11.20
PPD   147.46 149 (PKP)  24 41.00   9.2X
     S.D. = 1.1  on   8 of  15 obs.
-----------------------------------
?  OCT  28, 1993  03h 44m 06.04± 4.77s
   11.380 N ±41.6km   69.631 W ±21.5km
   DEPTH =  33.0km  (normal)
 NEAR COAST OF VENEZUELA          ( 97)

CANV    0.86 113 iPd    44 22.20   0.5
MORO    1.39 111 eP     44 29.40   0.0
TOV     1.59 186 ePn    44 32.60   0.3
GUAC    2.60 117 eP     44 46.40  -0.5
CEOS    2.66 151 eP     44 47.50  -0.1
                eS      45 26.70
SDV     2.67 202 ePnd   44 47.60  -0.2
                eSn     45 18.70
OLLA    3.09 116 eP     44 53.70  -0.1
                eS      45 31.20
     S.D. = 0.4  on   7 of   7 obs.
-----------------------------------
   OCT  28, 1993  04h 29m 27.85± 0.25s
   11.659 N ± 4.7km   87.770 W ± 3.8km
   DEPTH =  31.1km  (  6 depth phases)
   4.9mb ( 24 obs.)  4.7Msz (  1 obs.)
 NEAR COAST OF NICARAGUA          ( 74)
      Felt (II) at San
      Salvador, El Salvador.

VSM     1.83 344 iPd    29 58.50   0.6
LFU     2.46 328 iPc    30 06.00  -0.7
VSS     2.52 325 eP     30 07.20  -0.5
TME     2.81 327 iPc    30 11.30  -0.3
YPE     3.08 323 iPd    30 15.30  -0.3
YUP     3.21 322 ePd    30 16.95  -0.5
                eS      30 55.71
IXG     3.62 314 ePc    30 21.38  -1.9
                eS      31 00.64
GCG     3.96 318 eP     30 29.22   1.0
                eS      31 11.03
TPX     5.43 307 (P)    30 49.30   0.4
BRU     5.86 118 eP     30 57.58   2.3
                iS      32 03.56
DVD     6.14 121 eP     31 00.96   2.1
                eS      32 01.08
SCX     6.91 317 (P)    31 21.30  11.7X
ECO     8.26 105 eP     31 30.84   2.2
UPA     8.53 107 eP     31 33.70   1.5
OXX    10.21 303 (P)    31 55.62   0.0
LVVM   11.59 315 (P)    32 14.00  -0.2
IISM   11.78 309 (P)    32 12.73  -4.1X
PPM    12.80 306 (P)    32 31.56   0.6
ACX    12.81 295 (P)    32 28.73  -1.9
IIA    12.87 307 iP     32 31.79   0.4
III    13.12 302 iP     32 35.17   0.2
UNM    13.38 306 (P)    32 38.30  -0.2
CRX    13.82 305 (P)    32 45.00   0.8
MRX    15.19 303 iP     33 02.95   1.1
                (S)     35 02.95
SDV    17.09  98 iPd    33 26.80   0.5
TOV    17.76  94 eP     33 35.30   0.7
CAR    20.49  91 eP     34 24.00  17.9X
HBF    22.23  17 eP     34 24.34   0.8
SGS    22.44  16 eP     34 26.42   0.9
OXF    22.80 357 eP     34 29.25   0.2
PRM    22.86  12 iPd    34 30.40   0.7
LTX    22.99 322 P      34 29.14  -2.0
UYO    23.22 346 iPd    34 33.50   0.3
JSC    23.29  14 eP     34 34.19   0.4
MYNC   23.54   7 ePc    34 37.17   0.8
        0.7s    45.38nm          5.1mb
LHS    23.59  14 eP     34 37.58   0.9
TKL    24.17   8 (P)    34 42.39   0.0
MEO    25.04 339 iPd    34 50.10  -0.7
WMOK   25.06 338 eP     34 50.54  -0.5
        0.7s    58.04nm          5.3mb
FNO    25.07 341 iPd    34 51.20   0.1
TUL    25.21 345 iP     34 52.10  -0.3
ELC    25.55 357 eP     34 54.88  -0.7
PCO    26.27 343 iPc    35 03.30   1.0
BLA    26.29  13 eP     35 02.42   0.0
        0.8s    29.18nm          4.9mb
NAV    26.31  13 eP     35 02.54  -0.1
FVM    26.32 355 eP     35 02.48  -0.2
        0.6s    16.11nm          4.8mb
ACO    26.96 340 iPc    35 07.50  -1.1
CVL    27.50  16 eP     35 13.23  -0.3
CBN    28.02  18 eP     35 18.00  -0.2
ALQ    28.73 327 eP     35 25.73   0.8
        0.9s     7.48nm          4.4mb
GLD    31.97 334 eP     35 53.58   0.1
        1.2s    18.89nm          4.9mb
GOL    31.99 334 eP     35 53.20  -0.6
        0.8s    19.74nm          5.1mb
BINY   32.12  17 eP     35 53.61  -1.0
        1.0s    53.73nm          5.4mb
ARE    32.25 150 eP     35 57.00   0.7
PV08   32.63 329 eP     36 00.20   0.7
GLA    32.68 315 eP     36 00.19   0.5
PV10   32.68 328 eP     35 59.20  -0.7
PV09   32.82 328 eP     36 01.14   0.0
SRU    34.00 327 eP     36 11.04  -0.2
PLM    34.27 314 eP     36 14.32   0.7
CNCB   34.39 145 P      36 14.70  -0.5
MSU    34.47 325 eP     36 15.46   0.1
EMUT   34.67 328 eP     36 17.03  -0.1
RSNY   34.69  17 eP     36 16.07  -0.8
        1.2s    71.71nm          5.5mb
ARUT   34.71 323 eP     36 17.68   0.4
PEC    34.77 314 eP     36 17.78   0.1
        1.2s    34.90nm          5.2mb
GSC    35.30 317 eP     36 23.23   0.9
DAU    35.34 328 eP     36 22.84   0.0
GAC    35.51  15 eP     36 26.00   2.2
TPNV   35.90 319 eP     36 28.67   1.2
        1.2s    44.98nm          5.3mb
CCH    35.91 143 P      36 26.50  -1.4
DUG    36.01 327 eP     36 27.87  -0.4
        1.2s    10.62nm          4.6mb
ISA    36.64 316 eP     36 34.68   1.1
        1.2s    19.83nm          4.9mb
HVU    37.13 328 eP     36 38.42   0.7
TNP    37.20 320 eP     36 38.59   0.2
        1.2s    32.69nm          5.1mb
BCH    37.50 314 P      36 42.29   1.4
BONR   37.81 319 eP     36 44.62   0.9
PHAM   38.05 315 eP     36 45.88   0.5
MEMM   38.06 318 eP     36 46.06   0.7
MMPM   38.09 318 eP     36 46.47   0.4
ULM    39.05 352 eP     36 53.50   0.0
                pP      37 03.00  32km
CMB    39.22 318 ePd    36 55.70   0.6
SAO    39.26 315 eP     36 55.49   0.1
        0.8s    12.08nm          4.7mb
LMN    39.28  26 eP     36 55.00  -0.5
                pP      37 04.00  30km
ARN    39.62 316 eP     36 58.66   0.2
COE    39.67 316 eP     37 00.01   1.2
MHC    39.69 316 ePd    37 00.19   1.0
LRM    40.00 333 eP     37 11.70   9.9X
                e       39 07.60
STAN   40.08 316 ePd    37 03.55   1.3
HMR    40.22 317 eP     37 04.88   1.6
BKS    40.37 316 ePd    37 05.74   1.2
ORV    40.78 319 ePd    37 08.44   0.5
NTYM   40.92 317 eP     37 09.17   0.1
MIN    41.29 320 ePd    37 12.20  -0.1
WDC    42.01 320 eP     37 16.45  -1.6
LBFM   42.03 321 eP     37 18.33  -0.1
                ePcP    39 13.96
LGPM   42.38 320 eP     37 21.16   0.0
                ePcP    39 14.86
KMPM   42.94 318 eP     37 26.43   0.7
FHC    43.05 319 eP     37 27.13   0.5
        1.2s   155.37nm          5.6mb
JAQ    43.12  10 eP     37 24.50  -2.4
                pP      37 33.50  30km
VGB    43.91 326 eP     37 35.17   1.7
NEW    43.95 332 eP     37 33.14  -0.6
        0.8s    14.73nm          4.8mb
                ePcP    39 18.94
DPW    44.18 331 eP     37 35.78   0.1
                ePcP    39 20.17
LON    45.25 327 eP     37 44.18  -0.1
                ePcP    39 23.69
RMW    45.70 328 eP     37 48.04   0.2
BMW    45.85 326 eP     37 48.87  -0.1
GMW    46.27 327 eP     37 51.83  -0.4
MCW    47.02 329 eP     37 58.04  -0.1
                ePcP    39 31.02
PEL    47.44 160 eP     38 00.20  -1.5
BAO    47.81 124 eP     38 03.50  -1.4
                i       38 13.60  34km
                i       38 21.00
PPD    48.99 133 eP     38 11.70  -2.1
RSTA   52.26 134 (P)    38 37.00  -1.7
VAO    52.75 131 eP     38 39.00  -3.5X
FRB    53.76  10 eP     38 56.00   6.9X
        1.0s    28.00nm          5.2mb
YKA    54.29 345 eP     38 52.50  -0.6
        1.0s     7.10nm          4.7mb
RES    63.13 358 eP     39 52.50  -2.0
        0.9s     5.00nm          4.6mb
BALM   63.14 334 eP     39 54.59  -0.3
INK    63.86 343 eP     39 59.00  -0.4
        1.3s    13.00nm          4.9mb
KLU    64.90 333 eP     40 05.94  -0.4
```

28d 04h

```
PMR    66.37 333 eP    40 15.10  -0.5
CRP    67.64 332 eP    40 22.67  -1.3
SVW    69.21 331 eP    40 33.18  -0.4
KDS    73.62  80 eP    40 57.30  -3.4X
DAG    73.96  13 eP    40 55.50  -6.1X
AVE    75.69  58 eP    41 10.00  -2.4
                  i    41 20.00  32km
EKA    77.45  36 Pc    41 30.60   8.9X
       0.9s     3.70nm          4.4mb
NB2    84.21  29 P     41 55.90  -1.5
       1.3s    10.80nm          4.9mb
GRF    86.95  40 eP    42 15.50   4.3X
     Z  21s     0.30um          4.7Msz
MOX    86.96  39 e(P)  42 14.60   3.4X
                  eSg  51 08.10
CLL    87.63  38 e(P)  42 14.00  -0.4
KHC    88.58  40 eP    42 18.00  -1.1
                  e    42 27.00  28km
GEC2   88.74  40 P     42 17.00  -2.9
       0.7s     0.74nm          4.1mb
                  e    42 20.80  12kmX
                  e    42 27.20
ZST    91.09  40 eP    42 30.20  -0.6
BUL   118.54 107 ePKP  48 17.30   2.0
HHC   124.78 342 PKP   48 26.00  -0.6
GTA   128.71 352 ePKP  48 33.50  -0.7
LZH   131.26 347 PKPc  48 39.50   0.3
     Z  25s     0.27um          4.8MszX
XAN   131.86 341 PKP   48 39.70  -0.6
ASPA  138.68 247 ePKP  48 48.00  -5.4X
       0.9s     6.60nm
GYA   139.60 340 PKP   48 54.60  -0.5
KMI   142.03 344 ePKP  49 03.00   3.3X
WARB  144.52 241 ePKP  49 00.50  -3.1X
       0.4s     2.00nm
QIZ   144.91 330 PKP   49 03.00  -1.4
POO   144.95  31 iPKPc 49 05.50   1.0X
       0.8s     7.46nm
HYB   148.11  25 ePKP  49 12.50   2.8X
       1.2s    85.70nm
                  e    49 22.00
CHTO  149.01 348 ePKPc 49 11.30   0.2
       2.0s   101.16nm
BDT   150.51 347 ePKP  49 18.50   5.2X
       1.0s    62.10nm
GBA   150.93  31 PKP   49 15.00   1.0
NST   151.74 344 ePKP  49 16.00   0.8
     S.D. = 1.0  on 132 of 149 obs.
-----------------------------------
% OCT  28, 1993  04h 29m 43.87± 0.77s
   32.323 S ± 9.3km   67.408 W ± 7.3km
   DEPTH =  10.0km  (geophysicist)
 MENDOZA PROVINCE, ARGENTINA      (139)

CFA     1.00 315 e(P)  30 02.90   0.0
                  S    30 15.80
RTLL    1.34 317 ePc   30 08.00  -0.6
                  S    30 25.00
MRA     1.44  94 ePd   30 09.10  -0.9
                  S    30 27.00
RTCB    1.45 305 ePc   30 10.70   0.5
                  S    30 29.00
TCA     2.59  68 eP    30 27.50   0.9
                  (S)  31 00.00
RFA     2.60 200 ePc   30 26.80   0.1
                  S    31 09.00
     S.D. = 0.9  on   6 of   6 obs.
-----------------------------------
*  OCT  28, 1993  05h 09m 57.27± 0.96s
    5.875 S ± 7.9km  145.986 E ±12.9km
   DEPTH =  10.0km  (geophysicist)
   4.0mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.0 (PMG).

YYYY    0.36 183 iPd   10 05.90   1.1
MDG     0.65 342 ePd   10 10.60   0.3
LAT     1.28 128 e(P)  10 21.00   0.0
                  eS   10 42.40
MNDI    2.33 263 eP    10 42.00   5.5X
WWKK    3.25 313 eP    10 54.70   5.4X
PMG     3.70 162 eP    10 55.00  -0.7
WR2    17.98 218 eP    14 08.40  -0.7
       0.6s     5.00nm          3.8mb
ASPA   21.17 212 eP    14 47.60   2.4X
       0.8s     7.00nm          4.1mb
     S.D. = 1.1  on   5 of   8 obs.
-----------------------------------
*  OCT  28, 1993  05h 33m 53.80± 2.60s
   35.882 N ±18.9km   21.501 E ±18.7km
   DEPTH =  33.0km  (normal)
 CENTRAL MEDITERRANEAN SEA        (400)
      ML 3.6 (THE). MD 3.7 (ATH).

VLI     1.43  54 ePg   34 18.50   0.9
                  eSb  34 27.00
VAM     2.25 101 ePb   34 29.20  -0.2
IGT     3.76 346 ePn   34 51.56   0.7
                  eSn  35 32.32
LIT     4.28  10 ePn   34 59.52   1.2
                  eSn  35 48.04
PAIG    4.39  22 ePn   34 59.44  -0.4
THE     4.88  13 ePn   35 06.84   0.1
FNA     4.90 359 ePn   35 07.84   0.8
GRG     5.12   8 ePn   35 09.84  -0.3
                  eSn  36 06.28
SOH     5.14  16 ePn   35 10.44  -0.1
                  eSn  36 09.16
OHR     5.25 354 ePn   35 11.00  -1.1
KNT     5.38  11 ePn   35 13.36  -0.5
                  eSn  36 13.12
SRS     5.48  17 ePn   35 14.12  -1.1
     S.D. = 0.8  on  12 of  12 obs.
-----------------------------------
*  OCT  28, 1993  05h 37m 55.04± 1.15s
    6.982 S ± 8.1km  129.531 E ±10.5km
   DEPTH = 113.7 ± 12.9 km
   4.9mb (  8 obs.)
 BANDA SEA                        (280)

SLKI    2.01 120 iPc   38 29.50   0.7
                  iS   38 51.50
TLE     3.47  68 iPd   38 48.80   0.6
                  iS   39 18.50
MTN     6.04 165 iPc   39 22.70  -0.7
KNA     8.75 185 iPc   39 59.20  -1.0
       0.3s   203.00nm          6.4mb X
                  eS   41 32.20
WR2    13.72 160 iPc   41 01.20  -4.8X
                  i    41 04.30
                  iS   43 23.70
MBL    16.93 213 eP    41 47.80   1.4
       0.7s    55.00nm          4.9mb
ASPA   17.11 166 iPc   41 46.80  -1.9
       0.6s    50.40nm          5.0mb
     Z  19s     0.50um          4.2Msz
                  eS   44 42.60
PMG    17.61  99 eP    41 55.00   0.2
KKM    18.55 314 ePd   42 15.00   9.1X
WARB   19.29 188 eP    42 14.00   0.3
       0.5s    19.00nm          4.7mb
                  eS   45 41.00
CTA    20.80 130 iPc   42 32.00   2.8X
                  e    42 46.50
                  e(S) 46 07.00
MEEK   22.14 207 eP    42 46.50   4.1X
TPI    22.19 280 ePc   42 44.00   1.1
                  e    44 00.00
FORT   23.71 183 eP    42 59.00   1.4
       0.6s    20.00nm          4.7mb
STK    27.21 157 eP    43 29.00  -1.1
       1.9s     3.60nm          3.6mb X
                  ipP  43 53.10 111kmX
                  eS   48 32.60
BDT    38.60 309 eP    45 09.00   0.2
       0.7s    21.50nm          5.1mb
CHTO   39.58 311 iPc   45 18.00   1.1
       1.8s    54.58nm          5.1mb
BJI    48.39 346 eP    46 25.00  -2.2
       1.0s     6.00nm          4.4mb
LZH    49.17 332 Pc    46 33.00  -0.6
       1.6s    35.00nm          5.0mb
                  pP   46 53.50  83kmX
                  sP   47 03.50
                  PP   48 45.00
GBA    55.62 292 P     47 20.00  -1.6
GEC2  112.11 320 PKP   56 17.70  -1.1
       0.6s     0.60nm
MOCB  148.24 152 PKP   57 28.10   1.0
RSTA  148.53 183 ePKP  57 31.00   4.1X
VAO   150.01 186 (PKP) 57 35.00   5.7X
CNCB  150.69 144 PKP   57 33.00   1.9
LPB   150.84 143 PKP   57 37.00   5.8X
LPAZ  151.02 143 PKP   57 32.20   0.5
PPD   151.16 178 ePKP  57 37.00   6.0X
     S.D. = 1.3  on  20 of  28 obs.
-----------------------------------
   OCT  28, 1993  06h 01m 26.81± 0.35s
    5.722 S ± 5.3km  145.956 E ± 6.6km
   DEPTH =  10.0km  (geophysicist)
   4.9mb ( 11 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 5.0 (PMG).

MDG     0.50 339 iPd   01 42.10   5.1X
YYYY    0.52 179 iPd   01 37.60   0.3
LAT     1.40 132 eP    01 52.60   0.3
MNDI    2.33 259 eP    02 13.50   7.6X
WWKK    3.12 312 ePc   02 25.50   8.5X
PMG     3.85 162 iPd   02 26.60  -0.8
KVG     5.76  57 eP    03 00.80   6.4X
CTA    14.28 179 iPc   04 53.00   1.7
       0.8s    29.85nm          5.0mb
     Z  18s     5.84um          4.0Msz
                  i    04 58.00
                  eS   07 30.00
HNR    14.35 106 eP    04 54.00   1.9
MTN    16.25 243 eP    05 17.20   0.4
       0.8s   140.00nm          5.1mb
WR2    18.08 218 iPd   05 39.50  -0.4
       0.8s    38.70nm          4.6mb
WRA    18.09 218 P     05 40.20   0.1
       0.7s    13.80nm          4.2mb
GUMO   19.21 357 eP    06 01.60   7.8X
ASPA   21.28 212 iPd   06 14.60  -1.3
       1.0s    28.70nm          4.6mb
     Z  23s     1.10um          4.2MszX
                  i    06 19.20
                  iS   10 15.40
BKM    24.81 120 iPc   06 51.50   0.9
DZM    25.62 131 iPd   06 57.10  -1.3
STK    26.34 188 eP    07 03.40  -1.4
       1.0s     8.40nm          4.4mb
MAT    42.66 351 eP    09 25.00  -0.3
                  eS   15 48.00
NST    50.10 296 eP    10 25.00   0.5
KMI    52.01 308 eP    10 48.50   9.4X
       1.5s    50.00nm          5.2mb
                  pP   10 53.50  17kmX
CHTO   52.34 299 eP    10 42.20   0.7
BJI    53.16 332 eP    10 35.50 -11.7X
       1.5s    14.00nm
     Z  20s     0.36um          4.4Msz
CSY    65.26 195 P     12 04.90  -5.7X
ADK    65.64  24 (P)   12 13.26   0.1
       1.1s    22.66nm          5.3mb
HYB    70.39 291 eP    12 44.50   0.9
GBA    70.66 286 P     12 47.00   1.8
POO    75.00 291 eP    13 14.00   3.2X
PMR    83.41  26 eP    13 54.90  -0.5
       0.7s     8.20nm          5.0mb
IMA    83.67  21 eP    13 57.10   0.2
SPA    84.31 180 iPc   13 59.70  -0.5
       0.6s     4.07nm          4.8mb
KLU    84.78  27 eP    14 02.31  -0.2
TOA    84.90  26 eP    14 03.30   0.3
FBA    85.33  23 eP    14 03.61  -1.5
       0.9s     8.12nm          4.9mb
BALM   86.24  28 eP    14 08.71  -1.1
MOCB  139.02 132 PKP   20 58.50   1.5
CNCB  139.66 124 PKP   20 52.60  -5.8X
LPB   139.71 124 ePKP  20 50.00  -8.3X
LPAZ  139.81 123 PKP   20 49.90  -8.8X
RSTA  146.47 155 ePKP  21 08.80  -0.5
PPD   147.64 149 ePKP  21 14.00   2.8X
                  e    21 20.40
LKO   151.55 279 PKP   21 24.20   6.7X
       0.8s    20.00nm
BDFB  154.66 147 (PKP) 21 20.10  -1.7
     S.D. = 1.1  on  28 of  42 obs.
-----------------------------------
?  OCT  28, 1993  06h 06m 16.91± 0.98s
   32.057 N ±12.3km  116.554 E ±13.0km
   DEPTH =  33.0km  (normal)
 SOUTHEASTERN CHINA               (664)
      ML 3.2 (BJI).

NJ2     1.95  90 Pgc   06 48.00  -0.3
                  Sg   07 15.00
WHN     2.42 232 Pn    06 54.00  -0.9
                  Pg   07 00.00
```

```
                    Sn    07 22.50
                    Sg    07 32.20
SSE      4.07 102   Pg    07 30.50   12.1X
                    Sg    08 21.10
TIA      4.17   6   ePg   07 20.10    0.3
                    Sg    08 09.30
TIY      6.58 330   ePg   08 06.60   12.7X
                    Sg    09 21.60
QIZ     14.31 207   eP    09 40.20    1.0
     S.D. = 1.4  on   4 of   6 obs.
-------------------------------------
&  OCT  28, 1993  06h 06m 46.51s
   41.410 N          126.211 W
   DEPTH =   7.9km
 OFF COAST OF NORTHERN CALIFORNIA( 34)
      <GM-P>. MD 3.5 (GM). ML 3.8
      (GS).

KCTM     1.70 123   P     07 14.73   -1.9
FHC      1.79 109   ePc   07 15.57   -2.4
KSXM     1.80  76   P     07 15.81   -2.4
KJJM     1.85 128   P     07 16.32   -2.6
KMPM     1.87 121   ePc   07 16.73   -2.4
KHMM     1.95 105   P     07 18.23   -2.1
KOMM     2.08  93   P     07 20.22   -2.0
KHBM     2.38 107   P     07 24.12   -2.6
KKPM     2.52 119   P     07 25.54   -3.0
LGPM     2.60 100   ePc   07 27.17   -2.5
LBKM     2.69  96   P     07 28.82   -2.2
KBNM     2.75 122   P     07 30.34   -1.5
WDC      2.90 105   ePc   07 31.48   -2.4
KRKM     2.96 128   P     07 32.45   -2.3
GBDM     2.96 131   P     07 32.00   -2.7
LHEM     3.01  85   P     07 34.84   -0.7
GAS      3.19 122   P     07 35.72   -2.3
LBFM     3.25  90   eP    07 38.08   -1.0
LGMM     3.29  85   P     07 38.93   -0.6
LDBM     3.49 105   P     07 40.60   -1.8
LMEM     3.62 102   eP    07 42.38   -1.9
MIN      3.65 105   P     07 42.34   -2.3
MGL      3.89 113   P     07 45.12   -2.8
OGOM     3.92 115   P     07 45.10   -3.2
ORV      4.04 116   eP    07 46.90   -3.1
NTYM     4.07 137   eP    07 47.44   -2.9
ORAM     4.14 116   P     07 49.47   -2.0
NDHM     4.22 127   P     07 55.59    3.0
COE      5.44 138   eP    08 07.11   -2.7
ARN      5.44 137   eP    08 06.95   -2.9
BMW      5.50  22   eP    08 08.36   -2.4
CMB      5.61 125   eP    08 08.76   -3.6
VGB      5.70  42   eP    08 11.35   -2.2
LON      6.21  29   eP    08 18.10   -2.6
RMW      6.82  26   eP    08 27.16   -2.2
BONR     7.01 117   eP    08 34.01    1.8
ISA      8.34 131   eP    08 49.18   -1.5
GSC      9.58 127   (P)   09 04.34   -3.4
HVU     10.07  83   (P)   09 13.49   -1.2
DUG     10.23  92   eP    09 14.68   -2.2
MSU     11.16 100   eP    09 27.23   -2.3
SRU     12.20  96   eP    09 43.18   -0.6
PV09    13.42  97   (P)   09 59.61   -0.5
PV10    13.53  97   (P)   09 59.34   -2.1
PV08    13.76  96   (P)   10 01.58   -3.0
        45 obs. associated
-------------------------------------
?  OCT  28, 1993  06h 15m 22.58± 3.30s
   67.792 N ±24.3km   10.321 E ±25.5km
   DEPTH =  10.0km  (geophysicist)
 NORWEGIAN SEA                     (642)
      MD 3.1 (BER).

LOF      1.26  73   eP    15 46.10    0.1
                    eS    16 06.45
NSS      3.34 168   eP    16 15.29   -0.6
                    eS    16 54.92
TRO      3.64  56   eP    16 13.16   -6.9X
MOL      5.37 194   eP    16 44.23   -0.4
                    eS    17 39.61
NRA0     7.11 175   Pn    17 09.82    0.8
                    Sn    18 27.27
HFS      7.83 168   eP    17 19.60    0.4
       0.3s     1.70nm          4.8mb X
KAF      8.83 123   eP    17 32.80   -0.3
     S.D. = 0.7  on   6 of   7 obs.
-------------------------------------
*  OCT  28, 1993  06h 49m 37.01± 0.70s
   5.812 S ± 7.5km  145.979 E ±11.1km
   DEPTH =  10.0km  (geophysicist)
   4.4mb (  1 obs.)  3.7Msz (  1 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.5 (PMG).

YYYY     0.43 181   iPc   49 45.90    0.1
MDG      0.59 340   iPd   49 49.10    0.1
LAT      1.32 130   ePd   50 01.40    0.0
MNDI     2.33 261   eP    50 19.50    3.2X
WWKK     3.20 313   eP    50 32.40    4.0X
PMG      3.76 162   eP    50 35.70   -0.6
CTA     14.19 179   iP    53 04.00    3.7X
ASPA    21.22 212   eP    54 26.20    0.8
       0.8s     13.30nm          4.4mb
     Z  20s      0.30um          3.7Msz
                    eS    58 23.60
BKM     24.74 120   iP    55 01.50    1.4
DZM     25.55 131   iPc   55 06.80   -1.1
GBA     70.71 287   P     00 55.00   -0.7
CNCB   139.59 124   PKP   08 58.00  -10.5X
LPAZ   139.74 124   ePKP  09 02.00   -6.8X
     S.D. = 0.9  on   8 of  13 obs.
-------------------------------------
?  OCT  28, 1993  07h 04m 50.56± 3.15s
   16.187 S ±26.7km  168.122 E ±28.7km
   DEPTH =  30.4 ± 13.3 km
   4.4mb (  4 obs.)
 VANUATU ISLANDS                   (186)

BKM      1.48 176   iP    05 15.00   -0.3
PVC      1.56 173   iP    05 22.50    6.1X
DZM      6.06 195   iPc   06 20.90    0.3
                    iS    07 41.90
CTA     21.14 256   iP    09 41.00    5.6X
WR2     32.28 258   eP    11 19.20    0.2
       0.7s     1.90nm          4.1mb
WRA     32.30 258   P     11 19.10   -0.1
       0.6s      0.60nm          3.7mb
ASPA    32.96 251   eP    11 24.70   -0.2
       0.7s     13.50nm          5.0mb
     Z  23s      0.20um          3.8MszX
SPA     73.91 180   iPc   16 24.70    0.2
       1.0s      7.50nm          4.7mb
     S.D. = 0.4  on   6 of   8 obs.
-------------------------------------
   OCT  28, 1993  07h 28m 12.93± 0.61s
   38.220 N ± 5.4km   22.764 E ± 6.6km
   DEPTH =  10.0km  (geophysicist)
 GREECE                            (364)
      ML 3.0 (ATH), 2.8 (THE).

ATH      0.79 108   eP    28 29.60    1.3
AGG      0.87 337   ePg   28 29.14   -0.5
                    eSg   28 41.66
VLI      1.51 175   iPd   28 38.50   -1.5
VLS      1.71 269   eP    28 43.50    0.5
PAIG     1.85  22   ePb   28 45.06    0.2
LIT      1.89 354   ePb   28 45.50    0.0
                    eSb   29 10.02
KZN      2.22 340   eP    28 50.00   -0.4
IGT      2.31 305   ePn   28 52.98    1.4
THE      2.41   4   ePn   28 52.10   -0.9
SOH      2.64  10   ePn   28 56.26    0.0
GRG      2.75 354   ePn   28 57.94    0.1
FNA      2.78 338   ePn   28 58.30    0.0
KNT      2.94   2   ePn   29 00.94    0.4
                    eSn   29 36.66
SRS      2.96  12   ePn   29 00.42   -0.4
OHR      3.26 333   ePn   28 58.00   -7.2X
     S.D. = 0.8  on  14 of  15 obs.
-------------------------------------
*  OCT  28, 1993  07h 40m 17.14± 1.08s
   14.394 N ±16.1km   92.612 W ± 7.3km
   DEPTH =  63.8 ± 10.5 km
   4.4mb (  1 obs.)
 NEAR COAST OF CHIAPAS, MEXICO     ( 69)
      MD 4.6 (GCG).

TPX      0.61  34   iP    40 29.50   -1.3
                    (S)   40 40.00
GCG      2.02  84   eP    40 50.33    0.6
                    eS    41 18.79
IXG      2.10  96   iPc   40 50.99    0.1
                    eS    41 21.76
SCX      2.33 359   iP    40 55.00    1.2
                    iS    41 25.00
YUP      2.73  94   eP    40 59.75    0.1
OXX      4.78 305   iP    41 28.00   -0.5
                    (S)   42 25.30
LVVM     6.46 326   (P)   41 48.00   -3.8X
IISM     6.46 316   (P)   41 54.00    2.2
PPM      7.40 310   iP    42 04.50   -0.9
                    (S)   43 34.00
ACX      7.40 290   (P)   42 04.00   -0.9
III      7.68 302   (P)   42 10.00    1.0
CRX      8.40 307   (P)   42 26.00    7.0X
MRX      9.76 304   iP    42 37.00   -0.3
UYO     19.76 355   iPc   44 43.30   -1.4
MEO     21.00 346   iPc   44 56.60   -0.9
TUL     21.62 353   iP    45 10.00    6.4X
ACO     22.97 346   e(P)  45 11.50   -5.4X
LRM     35.51 336   eP    47 10.50    0.5
INK     59.89 344   eP    50 19.00    0.6
       1.0s      3.00nm          4.4mb
GBA    150.49  20   PKP   00 18.00   19.6X
     S.D. = 1.2  on  15 of  20 obs.
-------------------------------------
&  OCT  28, 1993  07h 56m 36.32s
   59.542 N          153.064 W
   DEPTH =  99.9km
 SOUTHERN ALASKA                     ( 2)
      <AEIC>.

AGU      0.26 226   eP    56 51.30    1.8
RED      0.89   9   iP    56 54.99   -1.0
                    eS    57 09.86
RSO      0.94   9   iP    56 55.66   -0.9
RS2      0.94   9   iP    56 55.68   -0.9
                    eS    57 10.57
RDW      0.95   8   iP    56 55.78   -0.9
                    eS    57 11.29
REF      0.97  11   iP    56 55.93   -0.9
                    eS    57 11.31
NCT      1.03   4   iP    56 56.44   -1.0
                    eS    57 12.08
DFR      1.07  10   iP    56 56.98   -0.9
                    eS    57 13.03
BKG      1.58  14   iP    57 03.10   -1.0
CKL      1.70  12   iP    57 04.42   -1.2
SPU      1.72  17   iP    57 04.54   -1.3
SLKM     1.73  55   eP    57 05.20   -0.7
                    eS    57 26.00
CKN      1.74  14   eP    57 05.08   -1.0
BGL      1.76  11   iP    57 05.35   -1.0
CP2      1.78  13   eP    57 05.01   -1.7
CRP      1.79  14   eP    57 05.15   -1.7
KDC      1.82 170   eP    57 03.04   -4.0
                    eS    57 29.30
CGLM     1.85  16   iP    57 06.29   -1.2
NCG      1.92  13   iP    57 07.34   -1.1
PMR      2.83  42   eP    57 18.51   -2.0
                    eS    57 52.30
KLU      4.04  58   eP    57 34.10   -3.0
                    eS    58 19.00
BALM     5.54  70   eP    57 55.00   -2.9
                    eS    58 54.00
FBA      5.91  22   eP    57 59.72   -3.2
IL1      5.99  26   eP    58 00.53   -3.5
ILB      5.99  26   eP    58 00.56   -3.4
IM3      6.47 358   eP    58 07.91   -2.7
BC3      6.48  52   eP    58 09.27   -1.5
BM3      8.75  22   eP    58 37.52   -4.3
        28 obs. associated
-------------------------------------
*  OCT  28, 1993  08h 47m 54.09± 0.97s
   5.872 S ± 8.2km  145.902 E ±12.8km
   DEPTH =  10.0km  (geophysicist)
   3.6mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY     0.37 170   eP    48 00.70   -1.1
MDG      0.63 349   eP    48 06.30   -0.4
LAT      1.35 126   eP    48 19.40    0.5
MNDI     2.25 263   eP    48 35.00    2.9X
WWKK     3.19 314   eP    48 50.90    5.7X
PMG      3.73 161   eP    48 32.50  -20.4X
WR2     17.93 218   eP    52 05.10   -0.2
       0.7s      2.30nm          3.4mb
                    i     52 10.40
ASPA    21.13 212   eP    52 42.80    1.2
       1.5s      6.00nm          3.7mb
     S.D. = 1.3  on   5 of   8 obs.
-------------------------------------
   OCT  28, 1993  09h 09m 18.62± 0.93s
```

28d 09h

```
   14.713 N ±12.7km   93.790 W ± 7.6km
   DEPTH =  38.0 ±  7.8 km
   4.6mb (  7 obs.)
 NEAR COAST OF CHIAPAS, MEXICO    ( 69)

TPX      1.49  82 iP     09 44.00   0.7
                 (S)     10 05.00
SCX      2.30  29 iP     09 59.50   4.6X
                 iS      10 33.00
GCG      3.16  92 eP     10 08.20   1.0
                 eS      10 48.15
IXG      3.28  99 eP     10 07.95  -1.0
                 iS      10 47.00
OXX      3.68 310 iP     10 14.00  -0.7
YUP      3.90  97 eP     10 18.13   0.3
IISM     5.46 322 (P)    10 45.00   5.3X
LVVM     5.61 333 (P)    10 40.00  -1.7
ACX      6.22 291 (P)    10 55.00   4.5X
PPM      6.34 314 iP     10 52.00  -0.6
III      6.55 305 (P)    10 55.00  -0.3
CRX      7.31 310 iP     11 08.00   1.9
MRX      8.64 306 (P)    11 24.00  -0.2
LTX     17.18 330 eP     13 18.33   0.8
UYO     19.38 358 iPc    13 42.60  -1.7
OXF     20.11  11 eP     13 51.66  -0.3
                 e       14 12.24
WMOK    20.44 348 eP     13 54.09  -1.4
         1.1s    22.72nm          4.4mb
MEO     20.45 349 iPc    13 54.50  -1.1
TUL     21.18 355 iP     14 05.50   2.4
ACO     22.41 349 iPc    14 15.00  -0.4
ELC     22.84   9 eP     14 16.89  -2.7X
FVM     23.37   7 (P)    14 21.80  -2.9X
SDV     23.39 102 eP     14 26.30   1.1
PV08    27.15 334 ePc    15 01.74   1.0
PV10    27.15 333 eP     15 00.53  -0.1
PV09    27.29 333 eP     15 02.87   0.8
PLM     27.97 316 eP     15 09.01   1.0
MSU     28.73 329 ePc    15 15.56   0.6
ARUT    28.84 326 ePc    15 17.02   1.2
DAU     29.80 333 eP     15 25.29   0.7
HVU     31.58 332 eP     15 40.77   0.7
BONR    31.73 321 ePc    15 42.21   0.6
LRM     34.76 337 eP     16 07.30  -0.5
LPAZ    39.89 140 P      16 32.80 -18.7X
MOCB    45.18 142 P      17 32.70  -1.7
YKA     49.95 348 eP     18 09.60  -1.0
         0.9s     8.60nm          4.8mb
BAO     54.38 122 eP     18 39.00  -5.6X
INK     59.27 344 eP     19 18.00  -0.5
         1.0s     3.00nm          4.4mb
FBA     61.91 337 eP     19 34.97  -1.6
         0.9s     3.22nm          4.5mb
EKA     78.40  36 Pd     21 17.10   0.3
         1.1s    10.50nm          4.8mb
NB2     84.34  28 P      21 49.10   1.1
         1.0s    12.60nm          5.0mb
GEC2    90.15  39 PKP    22 15.00  -1.5
         0.9s     1.69nm          4.3mb
                 e       22 26.80
GBA    150.56  18 PKP    29 09.00   5.8X
     S.D. = 1.1  on  35 of  43 obs.
-----------------------------------
   OCT  28, 1993   09h 12m 41.73± 0.47s
   31.395 S ± 7.1km   69.175 W ± 7.6km
   DEPTH = 117.5 ± 11.9 km
 SAN JUAN PROVINCE, ARGENTINA     (137)
      MD 4.5 (SAN).

RTCB     0.33 106 iPd     12 59.00   0.1
ZON      0.45 110 iPd     12 52.40  -7.0X
                 eS      13 02.40
RTLL     0.61  84 iPd     13 00.20  -0.2
                 S       13 08.70
CFA      0.83 105 iPd     13 03.00   0.8
                 S       13 16.00
MDZ      1.51 170 P       13 10.90   1.3
                 S       13 33.10
JACH     1.76 223 iP+     13 12.94   0.3
                 iS      13 38.20
FCH      2.15 206 iPd     13 19.13   1.4
                 iS      13 47.13
PEL      2.16 216 iPd     13 17.94   0.3
                 iS      13 45.72
ROCH     2.21 224 iP+     13 18.11  -0.4
                 iS      13 45.43
SAN      2.41 211 iP+     13 20.92   0.1
                 iS      13 50.89
PCH      2.49 207 eP      13 22.49   0.5
                 iS      13 54.64
RTPR     2.54  65 iPd     13 22.30  -0.1
                 S       13 49.00
TACH     2.70 213 iPd     13 23.98  -0.7
                 iS      13 57.49
LCCH     2.90 224 iP+     13 26.00  -1.3
CACH     2.97 203 iPd     13 28.75   0.4
                 iS      14 04.79
MRA      3.12 110 iPc     13 31.00   0.8
                 S       14 00.10
LNV      3.17 216 eP      13 28.84  -2.1
RFA      3.42 170 iPc     13 34.00  -0.3
                 S       14 12.30
TCA      3.92  90 iPc     13 40.20  -0.9
                 (S)     14 19.00
CYA      4.15  46 iPd     13 42.50  -1.8
                 S       14 28.00
FSA      5.98  28 ePd     14 08.00  -1.1
CNCB    14.56   5 P       16 05.00   1.2
LPB     14.83   4 P       16 09.00   1.9
LPAZ    15.07   4 P       16 10.00  -0.3
     S.D. = 1.1  on  23 of  24 obs.
-----------------------------------
*  OCT  28, 1993   09h 26m 30.14± 0.84s
    5.771 S ± 7.3km  145.790 E ±14.1km
   DEPTH =  10.0km  (geophysicist)
   4.1mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      ML 4.5 (PMG).

YYYY     0.50 159 eP      26 40.00  -0.3
                 eS      26 47.50
MDG      0.52 359 iPd     26 40.40  -0.2
MNDI     2.15 260 eP      27 13.50   6.7X
PMG      3.86 159 eP      27 30.00  -0.8
CTA     14.24 178 eP      29 55.00   1.0
WR2     17.94 217 eP      30 41.90   0.4
         0.9s     8.40nm          3.9mb
                 eS      34 38.60
ASPA    21.16 212 eP      31 17.40  -0.5
         1.1s    17.20nm          4.3mb
      Z  19s     0.20um          3.5Msz
                 eS      35 14.60
BKM     24.92 120 iPc     31 57.00   2.0
DZM     25.72 131 iPd     32 01.10  -1.5
     S.D. = 1.3  on   8 of   9 obs.
-----------------------------------
   OCT  28, 1993   09h 50m 06.31± 0.68s
    6.879 S ± 4.0km  128.785 E ± 5.4km
   DEPTH = 182.2 ±  7.3 km
   5.1mb ( 26 obs.)
 BANDA SEA                        (280)

SLKI     2.72 114 iPc     50 52.00  -0.2
                 iS      51 16.50
TLE      4.13  73 iPc     51 12.30   2.6
                 iS      51 54.00
MTN      6.36 159 eP      51 37.50  -1.4
         0.2s   694.00nm          6.6mb X
KNA      8.82 180 iPd     52 09.90  -1.4
         0.2s   228.00nm          6.3mb X
                 iS      53 42.30
KHKI    13.14 263 eP      53 07.00  -0.3
                 e(S)    55 32.00
                 e       57 58.00
WRA     14.06 158 P       53 15.39  -3.5X
WR2     14.08 158 eP      53 14.90  -4.2X
         0.5s   157.10nm          5.7mb
                 i       53 19.30
                 eS      55 42.20
WWKK    15.12  78 eP      53 32.50   0.3
MBL     16.63 210 iPd     53 49.40  -1.1
         0.4s    39.00nm          5.2mb
                 eS      56 43.00
MDG     16.98  85 eP      53 55.70   1.0
ASPA    17.40 164 iPd     53 58.30  -1.4
                 eS      57 02.20
KKM     17.95 315 ePc     54 15.00   9.4X
         0.6s    28.70nm          4.8mb
PMG     18.36  99 iPc     54 12.50   2.6X
WARB    19.31 186 eP      54 20.00   0.3
                 i       54 23.50
                 i       54 29.00
                 eS      58 52.00
LEM     21.02 269 ePd     54 40.00   2.9X
CTA     21.44 129 iPc     54 41.90   0.9
                 e       54 49.00
TPI     21.45 280 ePd     54 43.00   1.9
                 e       56 00.00
MEEK    21.91 205 eP      54 45.80   0.2
                 eS      58 50.50
FORT    23.79 182 eP      55 03.50  -0.1
         0.6s    51.00nm          5.3mb
BAG     24.52 341 ePc     55 11.00   0.1
STK     27.60 156 iPd     55 37.50  -1.1
         0.6s     9.80nm          4.7mb
ADE     29.41 163 eP      55 56.50   1.7
QIZ     31.80 324 P       56 16.00   0.2
TOO     34.12 156 eP      56 36.50   0.8
                 e       57 36.10
KAGJ    37.90   3 P       57 08.10   0.6
SSE     38.45 349 Pc      57 12.00   0.0
         1.0s    32.00nm          4.9mb
CHTO    38.95 311 iPc     57 17.80   1.4
         1.4s    39.42nm          4.9mb
KUMJ    39.24   3 P       57 18.50   0.0
DZM     39.32 117 iPc     57 19.70   0.2
GYA     39.48 328 iPc     57 21.80   1.1
         0.8s    54.00nm          5.2mb
WHN     39.70 340 iPc     57 23.70   1.4
         0.9s    85.00nm          5.4mb
NJ2     39.85 347 Pc      57 24.40   0.9
         0.8s    43.00nm          5.1mb
KMI     40.68 322 Pc      57 32.50   1.8
         1.0s    90.00nm          5.3mb
SHNJ    40.84   3 eP      57 31.40  -0.2
TKSJ    40.94   7 P       57 32.80   0.3
WKYJ    41.38   9 eP      57 36.20   0.1
YONJ    42.07   6 P       57 42.10   0.4
IIDJ    43.00  11 P       57 48.90  -0.4
CHJJ    43.76  12 P       57 53.60  -1.8
MTMJ    44.05  10 P       57 56.80  -1.0
MAT     44.09  11 iPd     57 56.50  -1.5
         0.8s    20.90nm          4.7mb
KAKJ    44.17  13 P       57 57.20  -1.4
TIA     44.24 346 eP      57 58.60  -0.6
CD2     44.57 329 eP      58 01.90   0.0
         0.6s   110.00nm          5.6mb
XAN     44.83 336 P       58 03.00  -1.0
         0.6s    48.00nm          5.2mb
NIIJ    44.92  12 P       58 03.60  -0.9
YAMJ    46.03  12 P       58 13.50   0.2
TIY     46.91 342 iPd     58 19.90  -0.5
OFUJ    47.26  14 P       58 22.70  -0.2
BJI     48.11 347 eP      58 29.00  -0.5
         1.0s    28.00nm          4.8mb
                 PcP     59 53.00
LZH     48.74 333 iPd     58 35.00   0.4
         1.4s   170.00nm          5.4mb
HHC     50.06 343 P       58 44.60   0.0
         1.0s    18.00nm          4.6mb
MRRJ    50.33  12 P       58 45.90  -0.5
CN2     50.53 357 Pc      58 47.00  -0.9
         0.6s    28.00nm          5.0mb
HOOJ    50.78  14 P       58 50.10   0.3
MDJ     51.26   1 Pd      58 53.20  -0.2
         0.8s    19.00nm          4.8mb
LSA     51.28 317 iPd     58 55.70   1.3
         0.8s    74.00nm          5.4mb
KUSJ    51.80  15 P       58 56.60  -0.9
ASAJ    52.28  13 P       59 00.50  -0.5
GTA     53.29 332 iPd     59 08.70   0.0
         1.0s    76.00nm          5.4mb
                 ScP     03 52.50
                 S       06 23.50
GBA     54.89 292 P       59 19.00  -1.5
HYB     55.18 297 eP      59 21.50  -1.2
POO     59.76 296 eP      59 54.80   0.1
WMQ     62.64 328 P       00 14.00   0.4
         1.0s    56.00nm          5.4mb
MAIO    77.67 309 iPd     01 45.30   0.8
         0.8s     9.88nm          4.6mb
SPA     83.16 180 iPd     02 12.00  -1.0
         0.4s    39.47nm          5.5mb
SDN     84.86  33 eP      02 20.63  -0.7
         0.5s    34.44nm          5.4mb
SLKM    91.52  29 eP      02 51.79  -1.2
FBA     93.39  25 eP      02 58.75  -2.7
         0.7s     2.39nm          4.5mb
BALM    95.42  29 eP      03 10.25  -0.8
GEC2   111.55 320 PKP     08 20.20  -0.5
         0.6s     1.84nm
```

```
                    e      08 23.40
PV09  119.18  50 ePKP   08 37.00   1.1
PV10  119.28  50 ePKP   08 35.94  -0.1
RSSD  120.98  42 iPKPd  08 38.40  -0.6
LTX   125.90  59 ePKP   08 47.29  -1.5
ELC   134.08  43 ePKP   09 06.00   2.0
YJA   147.92 154 ePKPc  09 31.00   1.5
NNA   148.36 126 iPKPd  09 34.00   4.2X
       1.0s    20.00nm
MOCB  148.66 153 PKP    09 31.50   0.8
BRU   148.89  84 iPKPd  09 36.43   5.2X
DVD   149.01  85 ePKP   09 34.58   3.8X
ARE   149.33 139 e(PKP) 09 37.00   5.4X
CNCB  151.21 145 PKP    09 36.30   1.6
PPD   151.27 180 ePKP   09 40.00   6.0X
LPB   151.36 144 PKP    09 36.80   2.0
LPAZ  151.54 144 PKP    09 36.20   0.9
                 i      09 42.20
CCH   151.74 149 PKP    09 42.50   7.3X
UPA   151.88  84 iPKPd  09 41.01   5.9X
     S.D. = 1.1  on  76 of  88 obs.
-----------------------------------
*  OCT  28, 1993  09h 56m 42.45± 1.22s
   14.361 N ±18.3km   93.257 W ± 7.3km
   DEPTH =  59.6 ± 13.4 km
   4.5mb (  1 obs.)
 NEAR COAST OF CHIAPAS, MEXICO    ( 69)
      MD 4.6 (GCG).

TPX     1.11  61 iP     57 01.00  -1.0
                (S)     57 18.00
SCX     2.44  14 iP     57 21.00   0.5
                iS      57 50.00
GCG     2.65  85 eP     57 24.39   0.7
                eS      58 00.46
IXG     2.72  94 iPd    57 24.92   0.1
                eS      58 00.75
YUP     3.35  92 eP     57 33.94   0.2
OXX     4.30 309 iP     57 40.00  -7.0X
IISM    6.06 320 (P)    58 16.00   4.4X
LVVM    6.16 331 (P)    58 07.00  -5.9X
ACX     6.83 292 (P)    58 21.00  -1.4
PPM     6.95 313 iP     58 26.30   1.8
III     7.17 305 (P)    58 28.00   0.7
CRX     7.93 310 (P)    58 37.00  -1.0
MRX     9.26 306 (P)    58 56.50   0.6
MEO    20.90 348 iPc    01 20.10  -2.0
TUL    21.58 354 iP     01 33.70   4.8X
ACO    22.86 348 iPd    01 42.30   0.7
LRM    35.29 337 eP     03 35.10   1.2
YKA    50.40 347 eP     05 35.00  -0.5
        0.8s     3.90nm          4.5mb
     S.D. = 1.2  on  14 of  18 obs.
-----------------------------------
*  OCT  28, 1993  10h 00m 57.25± 1.55s
   32.703 S ± 8.8km   71.585 W ±13.9km
   DEPTH =  33.0km  (normal)
 NEAR COAST OF CENTRAL CHILE      (135)
      MD 3.2 (SAN). Felt (III) at
      Valparaiso. Also felt at La
      Ligua, Papudo, Petorca,
      Quintero and Zapallar.

IHA     0.32 188 iPd    01 04 [illegible]
                iS      01 10 [illegible]
ROCH    0.55 119 iPd    01 07 [illegible]
                iS      01 16 [illegible]
LCCH    0.77 179 iPd    01 11 [illegible]
                iS      01 22 [illegible]
JACH    0.84  89 iP+    01 11 [illegible]
                iS      01 23 [illegible]
PEL     0.87 120 iP+    01 12 [illegible]
                iS      01 25 [illegible]
SAN     1.08 134 iP+    01 1[illegible]
                iS      01 31 [illegible]
TACH    1.09 150 iP     01 1[illegible]
                iS      01 3[illegible]
FCH     1.25 120 iP     01 1[illegible]
                iS      01 3[illegible]
LNV     1.26 173 (P)    01 18 [illegible]
                (S)     01 35 [illegible]
PCH     1.28 136 iP     01 19 [illegible]
                iS      01 37 [illegible]
CACH    1.63 150 iP     01 26 [illegible]
RTCB    2.66  64 ePc    01 40 [illegible]
                S       02 18 [illegible]
RTCV    2.71  73 eP     01 41 [illegible]
                S       02 19.00
RTLL    2.98  63 ePc    01 43.50   0.2
                S       02 23.00
CFA     3.04  70 ePd    01 45.00   0.8
                S       02 28.00
RFA     3.32 129 ePc    01 49.00   0.9
RTPR    4.95  62 e(P)   02 10.00  -1.2
MRA     4.97  88 e(P)c  02 10.00  -1.5
                (S)     03 13.10
TCA     6.09  79 eP     02 24.50  -3.0X
     S.D. = 1.0  on  18 of  19 obs.
-----------------------------------
   OCT  28, 1993  11h 13m 57.49± 1.14s
   34.390 N ±10.5km   26.203 E ± 5.3km
   DEPTH =  46.6 ±  8.3 km
   4.6mb ( 12 obs.)
 CRETE                            (370)
      MD 4.5 (ATH).

NPS     1.00 331 ePn    14 15.40   0.1
VAM     1.93 302 ePn    14 30.00   1.5
VLI     3.53 312 ePn    14 50.50  -0.7
CIN     3.55  25 eP     14 53.00   1.6
IZM     4.09  12 eP     15 00.50   1.3
ATH     4.10 331 ePn    14 53.00  -6.3X
BCK     4.70  48 eP     15 08.00   0.3
PRK     4.85   1 ePn    14 55.00 -14.7X
PPCY    5.09  83 eP     15 15.00   1.9
                eS      16 09.00
EZN     5.43   1 iP     15 17.10  -0.8
DST     5.56  20 eP     15 18.80  -1.0
ALT     5.61  33 eP     15 13.00  -7.7X
CSS     5.90  82 eP     15 24.50  -0.1
                eS      16 26.00
LIT     6.42 334 eP     15 33.14   1.2
FAM     6.45  82 eP     15 29.00  -3.3
IGT     6.96 319 eP     15 38.80  -0.6
GRG     7.21 336 eP     15 43.40   0.4
KNT     7.25 340 eP     15 43.96   0.5
KEK     7.38 318 eP     15 43.50  -1.8
FNA     7.44 330 eP     15 46.88   0.6
VAY     7.49 339 iP     15 56.60   9.8X
OHR     7.96 329 eP     15 52.70  -0.7
SKO     8.45 335 eP     15 58.50  -1.6
        1.2s    90.00nm          5.6mb X
                i       16 10.50
ISR    10.74   1 eP     16 41.00   9.5X
CMP    10.90 356 ePc    16 51.00  17.3X
MLR    11.09 359 eP     16 40.00   3.6X
VRI    11.47   2 eP     16 49.00   7.5X
HVAR   11.61 322 ePn    16 37.10  -6.2X
KBA    15.96 326 iPc    17 43.10   2.7X
WTTA   16.90 324 iPc    17 55.60   3.3X
        0.8s    13.40nm          4.1mb
GEC2   17.17 331 Pn     17 55.20  -0.3
MOTA   17.22 323 iPc    17 56.00  -0.3
        1.0s    16.30nm          4.1mb
                i       17 58.00
KHC    17.45 331 eP     17 59.80   0.9
                e       18 11.50
                e       18 45.00
                S       21 38.00
PRU    17.79 335 eP     17 55.60  -7.5X
                e       18 04.30
                e       18 41.00
[illegible]    17.96 339 eP     18 04.60  -0.6
[illegible]    18.74 335 i(P)   18 16.60   1.9
[illegible]    18.85 329 eP     18 14.30  -1.9
     Z  18s     0.30um
[illegible]    19.42 331 e(P)   18 22.70   0.1
[illegible]    21.23 322 iPc    18 40.68  -0.6
        0.9s    90.00nm          5.1mb
[illegible]    21.94  16 ePc    18 49.00   0.6
        1.6s    56.00nm          4.7mb
[illegible]    22.04 324 eP     18 50.50   1.1
        1.0s    30.00nm          4.7mb
[illegible]    22.29 321 P      18 52.20   0.3
[illegible]    22.70 322 P      18 58.30   2.4
[illegible]    23.23 294 eP     19 02.00   0.6
[illegible]    23.41 289 eP     19 02.60  -0.6
[illegible]    24.42 288 eP     19 12.60  -0.2
[illegible]    25.58 287 eP     19 08.30 -15.5X
[illegible]    25.61 285 eP     19 08.00 -16.1X
[illegible]    27.02 346 eP     19 36.20  -0.6
        0.4s     3.20nm          4.3mb
     Z  17s     0.17um          3.7MszX
                LR      29 42.00
KAF    27.74   0 eP     19 42.10  -1.2
NB2    28.36 345 P      19 47.50  -1.5
        0.8s     3.60nm          4.1mb
EKA    29.16 325 Pc     19 55.90  -0.3
        1.2s    22.70nm          4.7mb
DAG    47.01 347 eP     22 25.50   0.1
        0.6s     4.67nm          4.6mb
HYB    49.49  96 eP     22 45.50   0.0
GBA    50.59 101 P      22 54.00   0.2
GTA    57.57  62 eP     23 44.50  -0.4
        1.5s     8.00nm          4.6mb
                pP      23 52.50  26kmX
LZH    61.77  64 eP     24 10.00  -3.8X
        1.5s    16.00nm          4.9mb
CD2    63.86  69 eP     24 28.20   0.6
GYA    68.16  72 P      24 55.60   0.3
YKA    78.44 343 eP     25 54.70   0.2
        0.8s     4.10nm          4.5mb
MAT    85.20  49 eP     26 31.00   0.7
     S.D. = 1.1  on  46 of  61 obs.
-----------------------------------
%  OCT  28, 1993  11h 28m 32.07± 1.14s
   31.514 S ±18.2km   68.754 W ±13.9km
   DEPTH = 100.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA     (137)

RTCB    0.05 305 iPd    28 46.00  -0.5
                S       28 57.20
RTLL    0.30  53 iPd    28 47.50   0.6
                S       28 58.50
RTCV    0.39 152 iPc    28 47.50   0.1
                S       29 00.00
RTPR    2.27  59 eP     29 09.00   0.2
MRA     2.74 110 e(P)   29 15.50   0.5
TCA     3.56  88 eP     29 25.50  -0.9
     S.D. = 0.7  on   6 of   6 obs.
-----------------------------------
   OCT  28, 1993  11h 56m 45.36± 0.48s
   26.339 S ± 4.4km   27.478 E ± 5.9km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA         (584)
      ML 3.7 (PRE). mbLg 3.8 (BUL).

PRY     0.59 180 iPc    56 56.10  -1.0
                S       57 02.30
KSR     0.70 312 eP     56 59.00  -0.5
BFS     0.83 228 eP     57 02.60   0.5
                S       57 13.30
SLR     0.94  50 eP     57 03.90   0.0
                S       57 15.60
SEK     1.98 176 eP     57 20.50   0.4
                S       57 43.90
SWZ     2.10 246 eP     57 23.00   1.2
                S       57 51.90
BFT     2.40  75 eP     57 27.00   0.9
                S       57 54.50
BLF     2.99 202 eP     57 33.70  -0.7
                S       58 07.90
FRS     3.90 209 eP     57 47.00  -0.2
                S       58 26.50
HVD     4.59 202 eP     57 27.50 -29.7X
BUL     6.25  10 iPn    58 20.40  -0.3
                iSn     59 30.00
                iSg     00 01.00
GRM     6.99 186 eP     58 28.10  -2.9X
                S       59 44.50
SUR     8.37 222 eP     58 55.50   5.1X
                S       00 25.50
KRI     9.67  12 iPn    59 08.00  -0.4
                iSn     00 53.20
                iSg     01 47.00
CER     9.97 223 eP     59 07.50  -4.9X
TUH    10.02 224 e(P)   59 30.00  17.0X
WIN    10.17 289 eP     59 11.10  -4.2X
                S       00 50.10
MTD    10.25  23 iPn    59 13.30  -3.0X
                iSn     01 00.00
                iSg     02 02.00
     S.D. = 0.8  on  11 of  18 obs.
-----------------------------------
%  OCT  28, 1993  11h 57m 49.11± 1.10s
   41.230 N ± 9.6km   29.063 E ± 7.5km
   DEPTH =   5.0km  (geophysicist)
 TURKEY                           (366)
      ML 2.8 (ISK).

ISK     0.16 181 iPg    57 52.40  -0.1
```

28d 11h

```
                    eSg   57 54.90
HRT      0.61 131 ePg   58 00.90  -0.5
                    eSg   58 08.90
EYL      1.06 128 ePn   58 09.90   0.2
DMK      1.15 302 iPn   58 11.00   0.0
EDC      1.27 226 ePn   58 12.60  -0.5
DST      1.66 192 ePn   58 19.80   0.8
     S.D. = 0.6  on   6 of   6 obs.
-------------------------------------
   OCT  28, 1993  12h 34m 07.56± 1.35s
   37.710 S ± 8.6km  176.678 E ± 7.0km
   DEPTH = 221.1 ± 11.7 km
 NORTH ISLAND, NEW ZEALAND        (159)

WIZ      0.44  66 P     34 36.20  -0.8
TAZ      0.54 194 P     34 36.60  -0.7
URZ      0.65 148 Pc    34 36.20  -1.5
                  S     34 52.30
PATZ     0.75 206 P     34 37.50  -1.0
WLZ      0.87 259 P     34 38.70  -0.3
                  S     34 57.10
PAHZ     1.18 166 P     34 40.60  -0.5
KUZ      1.23 321 Pd    34 42.10   0.8
HBZ      1.29  86 eP    34 42.00   0.2
PUZ      1.30 107 P     34 42.00   0.1
                  S     35 02.00
NOZ      1.40 131 P     34 43.10   0.5
MOZ      1.68 241 P     34 46.10   1.1
NGZ      1.69 210 P     34 45.60   0.3
CNZ      1.73 210 P     34 46.00   0.4
MAHZ     1.75 148 P     34 46.70   1.0
TTH      1.83 176 P     34 47.00   0.6
WAHZ     2.00 187 P     34 48.10   0.0
TEHZ     2.28 177 P     34 51.40   0.6
BSZ      2.49 213 P     34 53.90   0.8
PGZ      2.92 186 P     34 58.20   0.4
MNG      3.05 197 P     34 59.40   0.1
                  eS    35 33.80
KIW      3.43 203 P     35 03.60  -0.2
MTW      3.56 194 P     35 05.20  -0.1
CAW      3.62 200 P     35 05.80  -0.2
AMW      3.66 191 P     35 06.70   0.2
BLW      3.77 194 P     35 07.60  -0.2
MRW      3.83 203 P     35 08.20  -0.4
                  S     35 50.50
WEL      3.86 202 P     35 08.90   0.0
TCW      3.96 207 P     35 09.80  -0.3
QRZ      4.48 225 eP    35 16.90   0.4
THZ      4.98 215 eP    35 22.80  -0.1
LTZ      6.09 212 eP    35 36.20  -0.7
MQZ      6.73 206 eP    35 44.00  -1.0
                  S     36 53.70
ODZ      8.62 210 eP    36 09.80   0.2
     S.D. = 0.6  on  33 of  33 obs.
-------------------------------------
?  OCT  28, 1993  12h 58m 05.65± 2.11s
   13.774 N ±15.4km  144.040 E ±38.8km
   DEPTH =  96.2 ± 19.8 km
   4.4mb (  4 obs.)
 MARIANA ISLANDS                  (216)
      Felt (III) at Yona, Santa Rita
      and Tamuning, Guam.

GUMO     0.82 103 Pn    58 24.00  -0.2
                  Pg    58 24.30
                  iS    58 35.70
PJG      0.82 103 eP    58 24.40   0.2
GUA      0.88 105 Pg    58 24.20  -0.5
                  eS    58 35.50
MAT     23.27 348 (P)   03 07.00   1.6
WR2     34.84 196 eP    04 50.80   1.3
        0.5s     4.70nm          4.7mb
                  i     05 24.00
ASPA    38.51 195 eP    05 21.20   0.8
        0.6s     3.70nm          4.4mb
WARB    43.17 203 eP    06 02.40   3.8X
        0.3s     2.00nm          4.4mb
STK     45.45 183 eP    06 15.90  -0.8
        0.4s     2.60nm          4.4mb
KIC    143.11 301 PKP   17 29.00  -2.0
TIC    143.19 302 PKP   17 29.20  -1.9
LIC    143.43 301 PKP   17 30.00  -1.5
LPAZ   148.85  99 PKP   17 42.30   1.2
LPB    148.88  99 ePKP  17 41.00   0.1
CNCB   148.98 100 PKP   17 43.00   1.7
MOCB   150.77 109 PKP   17 47.10   3.4X
     S.D. = 1.5  on  13 of  15 obs.
-------------------------------------
?  OCT  28, 1993  14h 17m 14.77± 1.43s
    5.934 S ± 8.4km  146.111 E ±21.1km
   DEPTH =  10.0km  (geophysicist)
   3.7mb (  1 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY     0.34 205 eP    17 21.50  -0.3
MDG      0.75 334 eP    17 28.90  -0.6
MNDI     2.45 265 eP    17 59.50   3.9X
WWKK     3.38 313 eP    18 09.40   0.7
PMG      3.60 163 eP    18 12.00   0.2
ASPA    21.19 212 eP    22 09.70   6.8X
        1.3s     4.40nm          3.7mb
     S.D. = 1.0  on   4 of   6 obs.
-------------------------------------
%  OCT  28, 1993  15h 00m 02.00± 0.80s
   26.442 S ± 8.5km   27.431 E ± 8.1km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA         (584)
      ML 3.1 (PRE).

PRY      0.49 176 eP    00 11.50  -0.3
                  S     00 17.00
BFS      0.74 232 eP    00 16.50  -0.2
                  S     00 25.70
SLR      1.04  48 eP    00 21.40  -0.8
                  S     00 33.20
SEK      1.88 175 eP    00 35.80   0.5
                  S     00 59.20
SWZ      2.02 248 eP    00 38.00   0.7
                  S     01 03.20
BFT      2.47  73 eP    00 44.50   0.8
                  S     01 14.00
BLF      2.88 202 eP    00 54.40   4.9X
                  S     01 25.10
FRS      3.79 209 eP    01 01.50  -0.8
     S.D. = 0.8  on   7 of   8 obs.
-------------------------------------
*  OCT  28, 1993  15h 01m 37.90± 0.52s
    0.108 N ±12.4km   16.833 W ±11.8km
   DEPTH =  10.0km  (geophysicist)
   4.7mb (  5 obs.)
 NORTH OF ASCENSION ISLAND        (407)

KDS     13.20  20 iP    04 42.70  -5.4X
                  iS    07 02.30
LSZ     47.02 111 iPc   10 13.00   1.1
        1.0s    11.00nm         4.9mb
BUL     48.81 117 iP    10 24.60  -1.2
MOCB    52.14 243 P     10 52.30   0.7
CNCB    53.11 249 P     10 59.00   0.0
LPB     53.16 249 P     10 58.00  -1.2
                  LR    27 32.00
SKO     54.08  35 eP    11 04.80  -0.2
GEC2    55.22  24 P     11 13.20  -0.3
        0.9s     1.86nm          4.1mb
                  e     11 18.90
                  e     13 11.20
                  e     13 16.30
KHC     55.40  24 eP    11 17.50   2.9X
ZST     56.19  27 eP    11 19.70  -0.5
BRG     56.92  23 eP    11 30.70   5.2X
NB2     64.46  15 P     12 16.60  -0.1
        0.9s     3.10nm          4.5mb
DAG     76.58 360 eP    13 31.00   1.3
        0.6s     4.00nm          4.7mb
SPA     90.11 180 iPc   14 39.80   0.4
        0.9s     9.09nm          5.0mb
WRA    145.57 127 PKP   21 18.40  -0.6X
        0.7s     1.60nm
WR2    145.59 127 ePKP  21 16.60  -2.5X
        1.4s     5.20nm
     S.D. = 0.9  on  11 of  16 obs.
-------------------------------------
*  OCT  28, 1993  15h 37m 48.58± 2.83s
   46.804 N ±16.7km   11.040 E ±13.8km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                   (545)
      ML 2.1 (VIE).

OGA      0.06 351 iPgc  37 50.90  -0.2
SQTA     0.43  15 iPgd  37 57.70   0.3
                  iSg   38 08.60
SCE      0.52  63 ePg   37 58.60  -0.5
MOTA     0.54   5 iPgc  37 59.40  -0.2
                  iSg   38 11.70
WTTA     0.61  41 iPgc  38 01.10   0.0
                  iSg   38 15.20
WATA     0.65  34 iP    38 02.00   0.4
KBA      1.60  79 iP    38 17.40   0.2
                  iPg   38 18.20
                  iSg   38 43.20
TRI      2.18 119 eP    38 54.00  28.6X
     S.D. = 0.4  on   7 of   8 obs.
-------------------------------------
   OCT  28, 1993  16h 04m 35.32± 0.50s
   26.379 S ± 4.4km   27.423 E ± 5.6km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA         (584)
      ML 3.1 (PRE). mbLg 3.0 (BUL).

PRY      0.55 175 eP    04 46.40   0.1
                  S     04 52.90
KSR      0.70 317 eP    04 49.00  -0.3
BFS      0.77 228 eP    04 51.20   0.3
                  S     05 01.60
SLR      1.00  50 eP    04 54.80  -0.1
                  S     05 08.40
SEK      1.94 175 eP    05 09.00  -0.5
                  S     05 31.50
SWZ      2.04 246 eP    05 11.50   0.7
BFT      2.46  74 eP    05 17.50   0.6
                  S     05 49.00
BLF      2.93 202 eP    05 23.00  -0.6
                  S     05 58.00
BUL      6.30  10 iPn   06 11.20  -0.2
                  iSn   07 20.20
                  iSg   07 50.30
     S.D. = 0.5  on   9 of   9 obs.
-------------------------------------
?  OCT  28, 1993  16h 19m 37.57± 4.53s
   32.920 S ±23.2km   71.635 W ±27.1km
   DEPTH =  10.0km  (geophysicist)
 NEAR COAST OF CENTRAL CHILE      (135)
      MD 3.6 (SAN).

ROCH     0.53  96 iP+   19 49.85   1.5
                  iS    19 57.49
LCCH     0.56 174 iP    19 50.41   1.6
                  iS    19 58.18
PEL      0.83 106 iP+   19 53.46  -0.2
                  iS    20 03.41
JACH     0.91  75 iP    19 54.73  -0.3
                  iS    20 07.06
TACH     0.94 142 iP    19 55.27  -0.2
                  iS    20 06.59
LNV      1.05 170 iPd   19 56.31  -1.0
                  iS    20 09.56
PCH      1.17 127 iP    19 58.03  -1.5
                  iS    20 11.43
     S.D. = 1.4  on   7 of   7 obs.
-------------------------------------
%  OCT  28, 1993  16h 45m 35.06± 0.66s
   31.524 S ±14.7km   67.327 W ± 7.2km
   DEPTH = 120.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA     (137)

CFA      0.78 264 iPc   45 55.40   0.0
                  S     46 10.00
RTLL     1.00 281 iPd   45 57.00  -0.4
                  S     46 13.70
RTCB     1.26 271 iPd   46 00.50   0.3
                  S     46 18.00
RTPR     1.41  30 eP    46 02.00   0.3
MRA      1.64 123 iPc   46 04.70   0.3
                  S     46 25.50
TCA      2.35  86 iPc   46 13.10  -0.4
                  (S)   46 40.00
     S.D. = 0.4  on   6 of   6 obs.
-------------------------------------
*  OCT  28, 1993  17h 15m 59.81± 0.97s
    4.009 N ±17.3km   74.050 W ±22.7km
   DEPTH =  33.0km  (normal)
 COLOMBIA                         (103)
      Felt at Villavicencio.

BOG      0.61 359 iPc   16 12.00  -0.3
                  iS    16 24.00
FUQ      1.48  12 iPd   16 28.00   3.2X
BMG      3.19  18 iPd   16 53.00   4.0X
PSO      4.31 230 eP    17 06.00   0.9
SDV      5.92  35 ePn   17 28.80   1.1
                  eSn   18 35.30
```

```
TOV     7.13  36 eP    17 44.40  -0.1
WR2   148.10 238 iPKPc 35 40.30  -1.1
       0.4s     6.00nm
                e     35 44.20
WRA   148.12 238 PKP   35 40.80  -0.6
       0.6s     1.70nm
     S.D. = 1.1  on   6 of   8 obs.
-------------------------------------
%  OCT  28, 1993  17h 34m 36.15± 0.99s
    8.950 N ±17.8km   70.341 W ± 9.4km
   DEPTH =  33.0km  (normal)
 VENEZUELA                          (101)

SDV     0.30 258 iPgc  34 44.00   0.0
                 iSg   34 49.60
TOV     0.99  33 ePgc  34 49.50  -4.3X
                 eSg   34 59.60
CEOS    1.98  88 eP    35 08.60   0.5
                 iS    35 33.40
CANV    2.56  36 eP    35 17.00   0.8
                 iS    35 49.60
MORO    2.76  46 iP    35 18.40  -0.8
                 iS    35 52.50
GUAC    3.27  68 iP    35 26.30  -0.2
OLLA    3.65  73 iP    35 31.50  -0.3
                 iS    36 11.30
     S.D. = 0.7  on   6 of   7 obs.
-------------------------------------
?  OCT  28, 1993  17h 44m 34.12± 2.63s
   31.271 S ±43.5km   69.263 W ±32.9km
   DEPTH = 120.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA     (137)

RTCB    0.45 119 iPd   44 52.20   0.1
                 S     45 03.50
RTLL    0.68  95 iPd   44 53.50  -0.2
                 S     45 06.70
RTCV    0.85 134 eP    44 55.00  -0.1
                 S     45 09.00
CFA     0.94 111 ePd   44 56.10   0.2
                 S     45 11.00
MRA     3.23 112 ePc   45 24.10   0.0
     S.D. = 0.2  on   5 of   5 obs.
-------------------------------------
?  OCT  28, 1993  18h 22m 06.13± 1.21s
   38.898 N ± 8.9km   26.943 E ±14.2km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                         (365)
      ML 3.0 (ISK).

IZM     0.56 153 iPg   22 17.50   0.0
                 eSg   22 23.80
EZN     1.04 333 iPn   22 25.80   0.0
DST     1.49  61 ePn   22 33.00   0.1
EDC     1.61  26 ePn   22 34.60  -0.1
     S.D. = 0.1  on   4 of   4 obs.
-------------------------------------
&  OCT  28, 1993  19h 22m 54.95s
   63.282 N          151.155 W
   DEPTH =  12.9km
   3.4mb (  1 obs.)
 CENTRAL ALASKA                     (  1)
      <AEIC>. ML 4.1 (AEIC), 4.3
      (PMR).

KTH     0.29  21 iPd   23 01.14  -0.1
                 eS    23 05.79
TRF     0.43  66 iPc   23 03.36  -0.5
HUR     0.75 113 iPc   23 09.02  -0.4
                 eS    23 18.99
CUT     0.97 155 iPd   23 13.37   0.3
RND     1.05  82 iPc   23 13.99  -0.5
MCK     1.09  65 iPc   23 15.12  -0.1
                 eS    23 29.94
BWN     1.17  39 iPd   23 17.00   0.5
SKT     1.32 188 iPd   23 19.29   0.3
                 eS    23 36.17
NEA     1.59  34 iPd   23 21.59  -1.3
                 eS    23 44.80
DHY     1.73  95 eP    23 25.11   0.1
                 eS    23 48.49
PWA     1.74 160 P     23 24.80  -0.2
MLY     1.77   6 iPd   23 24.98  -0.5
WRH     1.81  47 iPd   23 24.70  -1.3
                 eS    23 50.85
GHO     1.83 145 iPd   23 26.14  -0.3
                 eS    23 50.67
SUA     1.84 174 ePd   23 26.72   0.2
                 eS    23 51.57
PLRM    1.94 150 eP    23 27.93   0.1
                 eS    23 53.88
PMR     1.94 150 eP    23 27.34  -0.5
                 eS    23 53.46
NCG     1.94 194 eP    23 28.33   0.3
                 eS    23 53.52
SML     1.97 137 iPd   23 27.90  -0.6
CCB     2.02  46 iPd   23 27.51  -1.5
CGLM    2.02 192 eP    23 29.52   0.3
CRP     2.08 193 eP    23 29.92  -0.1
CP2     2.09 195 eP    23 30.48   0.2
BGL     2.11 196 eP    23 31.24   0.8
MDM     2.12  36 iPd   23 29.11  -1.4
CKN     2.12 194 eP    23 31.54   1.0
CKT     2.15 194 eP    23 31.69   0.7
CKL     2.17 195 eP    23 32.02   0.7
HDA     2.18  57 ePd   23 30.03  -1.3
PMS     2.18 159 P     23 31.70   0.3
FBA     2.20  41 ePd   23 29.92  -1.7
TTA     2.24 263 ePc   23 30.84  -1.4
                 eS    24 05.15
KNK     2.26 145 ePd   23 32.60   0.0
                 eS    24 02.10
BKG     2.28 194 ePc   23 33.18   0.3
                 eS    24 02.26
SCM     2.29 128 eP    23 33.65   0.6
                 eS    24 02.64
GLM     2.38  42 iPd   23 32.75  -1.5
                 eS    24 05.05
IL1     2.40  50 ePd   23 32.95  -1.6
ILB     2.40  50 ePd   23 32.97  -1.6
THY     2.44  84 eP    23 34.22  -0.9
NKA     2.55 181 eP    23 39.35   2.8
DJE     2.55  71 eP    23 35.68  -1.0
TOA     2.58 115 P     23 37.40   0.2
PAX     2.60  94 eP    23 37.95   0.5
CFI     2.64 142 eP    23 38.85   1.0
SDG     2.68 104 eP    23 37.37  -1.2
PWL     2.77 150 eP    23 40.59   0.8
DFR     2.80 196 eP    23 40.71   0.5
SLKM    2.82 171 eP    23 41.20   0.7
                 eS    24 15.60
NCT     2.86 198 eP    23 41.80   0.7
REF     2.90 195 eP    23 42.60   0.8
RDW     2.92 196 eP    23 42.75   0.7
MPA     2.93 162 eP    23 43.12   1.1
RS2     2.93 196 eP    23 43.29   1.1
IM3     2.93 339 ePd   23 41.44  -0.6
RED     2.97 196 eP    23 43.85   1.1
IMA     3.00 340 ePd   23 42.18  -1.0
SVW     3.02 226 ePn   23 41.86  -1.5
                 ePg   23 48.85
                 eSg   24 28.20
KLU     3.03 124 iPd   23 44.25   0.8
                 eS    24 22.90
VZW     3.10 134 eP    23 45.02   0.5
VLZ     3.12 132 iPd   23 45.05   0.3
                 eS    24 23.47
DOT     3.21  80 eP    23 46.72   0.7
SEW     3.29 165 eP    23 48.85   1.7
PRP     3.32  45 ePd   23 46.17  -1.5
ILIM    3.33 196 eP    23 48.09   0.3
INE     3.36 197 eP    23 49.73   1.5
FID     3.36 137 eP    23 48.54   0.3
LTI     3.61 153 eP    23 51.15  -0.6
HIN     3.64 141 P     23 55.40   3.2
TMW     3.68  86 P     23 55.00   2.2
CVA     3.75 135 eP    23 54.22   0.5
CNPM    3.77 181 eP    23 54.79   0.8
PDB     3.80 204 eP    23 54.32   0.0
GLB     3.89 115 ePc   23 56.39   0.7
FYU     4.15  35 P     23 58.40  -0.9
RAGM    4.23 130 eP    24 00.89   0.4
BC3     4.25  89 eP    23 59.81  -1.1
TGL     4.67 119 eP    24 06.16  -0.7
BALM    4.71 115 iPc   24 07.13  -0.3
SYI     4.73 188 P     24 04.90  -2.7
WAX     4.85 122 P     24 10.50   1.1
BM3     4.98  31 iPd   24 08.11  -3.0
CTGM    5.16 112 eP    24 13.89   0.1
KDC     5.59 187 (P)   24 17.99  -1.8
INK     8.80  47 ePd   25 02.20  -2.4
       0.6s     4.00nm          4.9mb X
YKA    16.54  76 eP    26 53.20   5.5
       0.7s     2.10nm          3.4mb
       85 obs. associated
-------------------------------------
*  OCT  28, 1993  19h 41m 17.42± 1.22s
   31.234 S ± 8.1km   68.079 W ± 9.6km
   DEPTH = 113.5 ± 16.4 km
 SAN JUAN PROVINCE, ARGENTINA     (137)

RTLL    0.35 254 eP    41 33.50  -0.6
                 S     41 45.00
CFA     0.40 200 iPc   41 34.30   0.0
                 S     41 46.20
ZON     0.60 239 eP    41 32.00  -3.7X
                 eS    41 42.00
RTCB    0.67 248 iPc   41 36.20   0.0
                 S     41 48.50
RTCV    0.74 212 iPc   41 37.00   0.2
                 S     41 50.00
RTRS    1.59 311 eP    41 46.50   0.6
                 S     42 07.00
RTPR    1.64  56 iPd   41 46.90   0.4
                 S     42 08.00
TCA     2.99  93 iPd   42 04.60   0.4
                 (S)   42 38.00
CYA     3.42  36 ePd   42 09.00  -0.9
                 S     42 47.00
RFA     3.54 185 iPc   42 11.40  -0.2
                 S     42 52.50
     S.D. = 0.6  on   9 of  10 obs.
-------------------------------------
   OCT  28, 1993  19h 49m 48.11± 0.62s
   49.165 N ± 5.6km    6.924 E ± 7.2km
   DEPTH =  10.0km  (geophysicist)
 GERMANY                            (543)
      ML 2.6 (STR).

LANF    0.61 107 Pg    49 59.50  -0.9
WLF     0.71 315 iPd   50 01.11  -1.0
                 iS    50 10.63
CDF     0.79 163 Pg    50 02.32  -1.2
                 Sg    50 13.02
ECH     0.96 171 Pg    50 06.16  -0.3
                 Sg    50 19.26
VITF    1.14 214 Pg    50 08.33  -1.0
                 Sg    50 23.22
MOF     1.32 174 Pg    50 12.53  -0.1
TNS     1.45  42 ePgc  50 15.40   1.0
                 eSn   50 34.20
FEL     1.48 150 Pg    50 15.98   1.1
ENN     1.73 338 ePg   50 19.50   1.2
       0.5s    11.10nm
                 eSg   50 44.50
DOU     1.78 302 iP    50 18.30  -0.8
                 i     50 20.70
LOMF    1.82 182 Pg    50 21.72   2.0
GEC2    4.47  92 Pn    50 56.00  -1.6
                 Sn    51 47.10
                 Sg    52 13.50
     S.D. = 1.3  on  12 of  12 obs.
-------------------------------------
?  OCT  28, 1993  21h 45m 16.76± 0.98s
    5.946 S ± 7.9km  146.067 E ±12.6km
   DEPTH =  10.0km  (geophysicist)
 EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY    0.31 198 eP    45 23.40   0.1
                 eS    45 28.00
MDG     0.75 338 iPc   45 31.40   0.0
LAT     1.17 128 eP    45 38.80   0.2
WWKK    3.36 313 eP    46 16.60   6.3X
PMG     3.60 163 eP    46 13.50  -0.3
     S.D. = 0.4  on   4 of   5 obs.
-------------------------------------
?  OCT  28, 1993  21h 48m 20.53± 4.06s
   52.215 N ±74.8km  168.028 W ±39.5km
   DEPTH =  33.0km  (normal)
   4.0mb (  5 obs.)
 FOX ISLANDS, ALEUTIAN ISLANDS    (  9)

ADK     5.35 270 eP    49 39.30  -0.8
       1.5s    27.03nm          4.5mb X
                 (S)   50 26.10
KLU    15.17  44 eP    51 52.38  -1.5
IMA    15.66  22 eP    52 04.53   4.4X
       0.9s     3.59nm          3.6mb
FBA    16.41  31 eP    52 10.04   0.4
       0.9s     6.72nm          3.8mb
MAT    40.52 269 eP    55 58.00   0.1
```

28d 21h

```
NB2     67.10   0 P      59 12.70   0.4
        0.6s     0.90nm          4.0mb
HFS     68.00 359 eP     59 17.30  -0.6
        0.4s     2.00nm          4.6mb
GEC2    79.31 359 P      00 25.90   1.9
        1.2s     2.19nm          4.0mb
                  e      00 32.50
                  e      00 35.80
GBA     93.68 298 P      01 50.00  15.1X
     S.D. = 1.4  on   7 of   9 obs.
-----------------------------------
? OCT  28, 1993  22h 32m 25.03±10.82s
   45.243 S ±23.7km  166.376 E ±89.5km
   DEPTH =  69.2 ± 36.5 km
 OFF W. COAST OF S. ISLAND, N.Z. (161)

MSZ      1.24  63 P      32 46.60  -0.3
                  S      33 03.50
TUZ      2.40 108 eP     33 02.80   0.1
                  S      33 30.50
BWZ      2.59  75 P      33 06.10   0.7
ODZ      3.03  88 Pd     33 11.30  -0.3
MQZ      4.75  73 eP     33 35.00  -0.7
LTZ      4.91  62 eP     33 38.30   0.3
DSZ      5.27  50 eP     33 42.70  -0.4
THZ      5.88  56 eP     33 52.20   0.6
                  S      34 56.70
     S.D. = 0.6  on   8 of   8 obs.
-----------------------------------
*  OCT  28, 1993  22h 39m 26.90± 1.84s
   39.325 N ± 7.8km   19.285 E ±15.1km
   DEPTH =   5.0km  (geophysicist)
 GREECE-ALBANIA BORDER REGION    (392)
      MD 3.4 (ATH). ML 3.0 (THE).

KEK      0.55  46 ePg    39 38.70   0.7
                  eSg    39 48.80
SRN      0.78  45 ePg    39 43.10   0.6
                  iSg    39 54.60
IGT      0.84  75 ePg    39 44.80   1.2
                  eSg    39 57.96
TPE      1.12  30 ePg    39 49.00   0.7
VLO      1.15   8 ePg    39 48.90   0.0
LSK      1.31  50 iPnd   39 50.70  -0.9
                  iSn    40 09.10
BERA     1.47  20 ePn    40 02.60   8.6X
VLS      1.53 138 iPbc   39 55.50   0.5
KBN      1.74  41 ePn    39 59.20   1.3
TIR      2.07  12 ePn    40 19.50  16.8X
OHR      2.13  33 iPn    40 03.20  -0.4
KZN      2.15  62 ePg    40 08.50   4.5X
FNA      2.17  47 ePn    40 04.48   0.3
                  eSn    40 29.88
LIT      2.59  72 ePn    40 10.24   0.0
                  eSn    40 41.44
GRG      2.89  55 ePn    40 13.82  -0.7
                  eSn    40 46.64
SKO      3.11  31 ePn    40 08.00  -9.5X
VAY      3.21  51 ePn    40 25.00   6.1X
KNT      3.32  55 ePn    40 19.04  -1.5
                  eSn    40 55.92
SOH      3.46  63 ePn    40 21.60  -1.0
                  eSn    41 01.36
OUR      3.75  73 ePn    40 26.04  -0.7
                  eSn    41 07.68
     S.D. = 0.9  on  15 of  [illegible]
-----------------------------------
   OCT  28, 1993  23h 00m 51.[illegible]
   38.316 N ± 5.3km   21.95[illegible]
   DEPTH =  10.0km  (geophysi[illegible]
   3.5mb (  1 obs.)
 GREECE
      ML 3.2 (THE), 3.1 (ATH

VLS      1.08 263 ePb    01 1[illegible]
ATH      1.43 103 ePb    01 1[illegible]
IGT      1.75 314 ePb    01 1[illegible]
                  eSb    01 4[illegible]
VLI      1.78 154 ePb    01 2[illegible]
LIT      1.83  13 ePb    01 2[illegible]
                  eSb    01 4[illegible]
KZN      1.99 356 ePg    01 28 5[illegible]
                  eSn    01 51 0[illegible]
PAIG     2.10  39 ePb    01 25 4[illegible]
                  eSb    01 52 2[illegible]
KEK      2.18 310 ePn    01 26 [illegible]
                  eSn    01 53 5[illegible]
```

```
FNA      2.50 350 ePn    01 33.18   0.5
                  eSn    02 05.86
OUR      2.56  37 ePn    01 32.66  -0.7
                  eSn    02 03.65
GRG      2.66   7 ePn    01 36.26   1.4
                  eSn    02 06.86
SOH      2.73  23 ePn    01 35.54  -0.3
                  eSn    02 08.86
OHR      2.93 343 iPn    01 42.50   3.8X
                  i      01 48.50
                  i      02 20.00
                  i      02 30.60
                  Lg     02 37.50
KNT      2.94  14 ePn    01 39.06   0.3
                  eSn    02 13.46
VAY      3.04   9 iPn    01 41.50   1.3
SRS      3.07  24 ePn    01 39.22  -1.4
                  eSn    02 17.26
VAM      3.42 147 ePn    01 45.50  -0.1
SKO      3.67 354 ePn    01 54.00   4.7X
NB2     23.72 347 P      06 02.00  -1.9X
        0.6s     0.80nm          3.5mb
     S.D. = 1.0  on  13 of  19 obs.
-----------------------------------
*  OCT  28, 1993  23h 07m 00.42± 1.91s
   39.413 N ± 9.2km   19.663 E ±20.2km
   DEPTH =  10.0km  (geophysicist)
 GREECE-ALBANIA BORDER REGION    (392)
      MD 3.2 (ATH). ML 2.9 (TIR).

KEK      0.32  19 iPgc   07 06.50  -0.5
                  eSg    07 11.40
SRN      0.53  29 ePg    07 10.10  -1.1
                  iSg    07 17.60
TPE      0.92  17 ePn    07 20.90   2.9X
LSK      1.03  44 ePg    07 18.90  -1.1
                  iSg    07 34.00
VLO      1.06 353 ePn    07 20.90   0.5
BERA     1.31  10 ePn    07 47.90  23.3X
VLS      1.43 149 ePb    07 25.70  -0.7
                  eSb    07 47.00
KBN      1.49  35 ePn    07 35.70   8.5X
KZN      1.85  61 ePb    07 34.80   2.2
                  eSn    07 58.00
OHR      1.91  27 ePn    07 34.00   0.7
SKO      2.89  27 ePn    07 51.50   4.2X
VAY      2.93  48 ePn    07 53.00   5.2X
     S.D. = 1.5  on   7 of  12 obs.
-----------------------------------
*  OCT  29, 1993  00h 08m 31.40± 1.98s
    6.798 S ±11.6km   75.888 W ±13.0km
   DEPTH = 133.5 ± 24.4 km
   4.5mb (  7 obs.)
 NORTHERN PERU                   (111)

NNA      5.24 190 iPd    09 50.00   1.2
        0.4s    25.42nm          4.8mb
                  eS     10 34.00
ARE     10.52 156 eP     11 07.00   6.8X
LPAZ    12.11 142 P      11 19.60  -1.7
                  i      11 33.10
LPB     12.31 142 P      11 23.00  -0.8
                  i      11 35.20
CNCB    12.60 143 P      11 27.00  -0.7
                  i      11 38.30
CCH     14.19 139 P      11 56.00   8.1X
MCCB    17.46 146 P      12 30.30   1.7
[illegible]  19.00  29 iP     12 45.80   0.3
[illegible]  19.06  22 iPd    12 46.80   0.7
[illegible]  19.10  23 iPd    12 47.00   0.4
PPI     28.14 125 eP     14 17.70   4.6X
[illegible]  44.37 338 iPc    16 30.40   0.2
[illegible]  46.58 334 iPc    16 47.40  -0.3
[illegible]  56.70 336 eP     18 03.00  -0.5
        0.9s     5.11nm          4.5mb
[illegible]  57.15 328 (P)    18 06.16  -0.7
                  e      18 59.97
[illegible]  57.83 327 eP     18 10.89  -0.4
        0.7s     3.02nm          4.4mb
                  epP    18 41.29 127kmX
[illegible]  59.40 345 eP     18 23.00   1.1
[illegible]  60.37   0 eP     18 26.50  -1.9
[illegible]  61.72 332 eP     18 37.20  -0.8
NEW     65.70 331 eP     19 02.79  -0.8
        0.9s     7.46nm          4.6mb
KDS     66.14  73 iP     19 07.50   0.6
YKA     75.19 343 eP     19 59.70  -0.8
```

```
        0.6s     3.00nm          4.2mb
INK     84.92 342 eP     20 53.00   0.9
        1.0s     3.00nm          4.1mb
MBC     86.66 351 ePd    21 03.00   2.4
        0.7s     9.00nm          4.8mb
LZH    150.85   0 ePKP   28 10.60   6.3X
        1.4s    16.00nm
                  sP     38 43.00
GBA    152.91  73 PKP    28 17.00   9.5X
     S.D. = 1.2  on  21 of  26 obs.
-----------------------------------
   OCT  29, 1993  00h 41m 41.75± 0.29s
   36.234 N ± 5.9km   77.735 E ± 4.4km
   DEPTH = 147.8km  (  5 depth phases)
   4.8mb ( 40 obs.)
 KASHMIR-XINJIANG BORDER REGION  (324)

FRU      7.02 341 iPd    43 19.40  -3.8X
        1.6s   300.00nm          5.5mb
                  i      44 30.00
QUE     10.86 239 eP     44 08.70  -5.6X
                  eS     46 02.70
MAIO    14.72 276 eP     45 05.00   1.1
                  eS     47 28.00
ASH     15.57 282 eP     45 07.00  -7.4X
        1.3s   100.00nm          5.0mb
HYB     18.76 178 eP     45 50.70  -1.3
        1.0s    35.00nm          4.6mb
                  eS     48 54.00
UER     19.26  32 iP     45 55.20  -1.7
        0.9s    50.00nm          4.9mb
LZH     21.07  83 Pd     46 16.00   0.4
        2.0s    43.00nm          4.5mb
                  pP     46 45.00 156km
                  PP     47 33.50
GBA     22.54 181 P      46 31.00   1.2
                  S      50 28.00
ZAK     23.21  44 iPc    46 37.30   1.2
        2.0s    66.00nm          4.7mb
SVE     23.58 336 ePd    46 41.00   1.4
ARU     23.96 333 iPc    46 43.80   0.5
        0.8s    40.00nm          5.0mb
KMI     24.12 110 eP     46 46.00   0.6
TAB     25.04 284 eP     46 55.00   1.2
CHTO    25.50 127 ePc    46 56.80  -1.1
        0.9s    12.79nm          4.5mb
GRO     25.52 296 iPc    46 59.00   1.0
        1.0s   110.00nm          5.4mb
ERE     26.32 289 iP     47 06.60   1.1
PYA     27.48 297 iP     47 14.00  -1.8
BOD     32.32  36 eP     47 56.70  -1.7
        0.6s     7.00nm          4.6mb
OBN     33.74 317 iPd    48 10.20  -0.5
        1.5s    42.00nm          5.0mb
KAS     34.37 292 eP     48 17.00   0.7
VRI     39.06 300 ePc    48 55.50  -0.1
MLR     39.64 300 ePc    49 01.00   0.5
KAF     40.85 326 iP     49 10.20   0.2
        0.5s    10.20nm          4.7mb
NUR     41.26 323 iP     49 13.80   0.4
        0.3s    14.50nm          5.1mb
SPC     43.18 306 eP     49 30.70   1.3
OJC     43.39 308 eP     49 30.80   0.0
TIK     44.03  21 eP     49 35.00  -0.7
        0.6s    10.00nm          4.6mb
                  e      51 15.00 550kmX
SRO     44.61 304 eP     49 41.00   0.4
UPP     44.65 321 iP     49 40.70  -0.1
ZST     45.36 305 e(P)   49 45.80  -0.8
KSP     45.56 309 eP     49 48.00  -0.1
BSD     46.07 315 iPd    49 50.80  -1.2
        0.8s    17.00nm          4.7mb
HFS     46.64 322 eP     49 56.20  -0.3
        0.4s    37.60nm          5.4mb
PRU     46.78 308 ePc    49 58.10   0.3
        0.8s    11.80nm          4.6mb
                  i      50 03.10  17kmX
                  e      50 50.50
BRG     47.04 309 iPc    50 00.20   0.4
        0.9s    50.00nm          5.2mb
                  i      50 33.40 147km
COP     47.44 316 iPd    50 03.70   0.9
        0.8s    50.75nm          5.3mb
GEC2    47.50 306 P      50 03.30  -0.2
        0.8s     7.45nm          4.4mb
                  e      50 08.10  16kmX
                  e      51 56.80
```

```
KHC     47.53 307 iPc    50 04.20   0.5
        0.7s     9.20nm          4.6mb
                  e      50 38.00 149km
                  e      52 27.50
CLL     47.57 310 iPd    50 03.80  -0.1
        1.1s    26.00nm          4.8mb
                  e      50 37.00 146km
NB2     47.87 323 P      50 05.80  -0.3
        0.7s    36.40nm          5.2mb
WET     47.98 307 iPc    50 07.80   0.7
NAO     48.06 323 P      50 00.57  -6.9X
BHG     48.24 305 iPd    50 09.60   0.5
MOX     48.53 309 iPc    50 11.70   0.4
        1.1s    19.00nm          4.7mb
GRF     48.95 308 iPc    50 15.90   1.3
        1.3s    51.00nm          5.1mb
MUD     49.19 317 iPc    50 16.30   0.0
        0.8s    11.00nm          4.6mb
FUR     49.21 306 iPd    50 17.70   1.1
        0.6s    29.00nm          5.2mb
OGA     49.65 304 iPc    50 19.40  -0.8
        0.7s     6.00nm          4.4mb
WTS     51.25 311 eP     50 32.50   0.5
        0.7s    27.40nm          5.1mb
ENN     52.06 310 eP     50 37.50  -0.6
        0.7s    10.50nm          4.7mb
WLF     52.17 309 iPc    50 38.97   0.1
        0.9s    10.80nm          4.6mb
FIN     52.25 302 P      50 38.46  -1.1
IMI     52.55 301 P      50 41.80  -0.1
LSD     52.61 303 P      50 42.12  -0.4
RSP     52.63 303 P      50 40.93  -1.6
BHB     52.71 303 P      50 41.34  -1.7
ENR     52.78 302 P      50 42.49  -1.1
PZZ     52.92 302 P      50 44.87   0.2
RRL     53.01 303 P      50 44.55  -0.9
DOU     53.04 310 Pc     50 45.30   0.0
        0.7s    43.30nm          5.4mb
SNF     53.13 310 P      50 46.00   0.1
EKA     56.22 317 Pc     51 07.90  -0.4
        0.8s    24.80nm          5.2mb
DAG     56.53 344 iPd    51 09.80  -0.4
        0.7s     9.59nm          4.8mb
KAC     56.75 320 eP     51 11.60  -0.4
KSB     56.90 320 eP     51 12.50  -0.5
KPL     56.98 320 eP     51 12.90  -0.7
GRBF    57.28 302 P      51 15.39  -0.6
LESF    57.38 302 P      51 16.25  -0.4
ESEL    57.46 298 iPc    51 18.20   1.0
ENSF    58.11 302 P      51 21.93   0.0
EGRA    58.79 302 iPd    51 23.60  -2.8
ECRI    60.13 303 eP     51 35.80   0.2
ECHE    60.27 299 eP     51 37.10   0.5
ETOR    60.53 301 eP     51 38.20  -0.2
EALH    61.31 298 eP     51 44.20   0.5
EVIA    61.75 299 iPd    51 47.00   0.3
GUD     62.05 301 iPc    51 48.30  -0.4
EHUE    62.17 298 iPd    51 49.40  -0.1
ENIJ    62.26 297 iPc    51 50.50   0.5
EBAN    62.86 299 iPc    51 53.80  -0.2
ECOG    63.10 298 iPc    51 54.90  -0.8
EGUA    63.30 297 eP     51 56.70  -0.1
ELUQ    63.47 298 eP     51 58.00   0.0
EPRU    64.43 298 eP     52 03.70  -0.5
EJIF    64.83 298 eP     52 06.00  -0.8
MBC     67.27   4 ePd    52 23.80   2.1
        0.7s    12.00nm          4.8mb
IMA     70.63  20 eP     52 43.10   0.5
        0.9s     9.80nm          4.6mb
FBA     73.10  19 eP     52 57.92   0.9
        0.8s     7.98nm          4.5mb
                  e      53 21.84  92kmX
                  e      53 31.97
INK     73.18  12 eP     52 58.00   0.6
        1.0s     3.00nm          4.0mb
                 pP      53 33.00 142km
ASPA    79.76 129 iPc    53 35.70   0.9
        0.8s     9.50nm          4.6mb
YKA     81.11   6 eP     53 42.20   1.0
        0.6s     6.70nm          4.6mb
ARE    146.33 298 ePKP   01 10.00   4.1X
     S.D. = 0.9  on  87 of  92 obs.
-------------------------------------
?  OCT  29, 1993  00h 52m 51.24± 2.82s
    6.016 N ±21.0km   72.699 W ±53.5km
   DEPTH =  33.0km  (normal)
 NORTHERN COLOMBIA                ( 99)
```

```
SDV      3.51  36 ePnc   53 45.50   0.5
                 eSn    54 23.30
TOV      4.73  37 ePn    54 01.60  -0.5
                 eSn    55 51.20
CEOS     5.26  55 iPd    54 09.80   0.0
                 iS     55 04.20
LPAZ    22.62 169 P      57 51.80   0.5
LPB     22.86 169 eP     57 49.00  -4.5X
CNCB    23.16 168 P      57 56.00  -0.5
     S.D. = 0.7  on   5 of   6 obs.
-------------------------------------
   OCT  29, 1993  01h 43m 47.56± 1.01s
   10.247 S ± 4.7km  160.949 E ± 5.5km
   DEPTH =  52.0 ±  8.9 km
   5.1mb ( 15 obs.)  4.5Msz (  2 obs.)
 SOLOMON ISLANDS                  (193)

HNR      1.28 309 iPc    44 10.00   0.7
                 iS     44 17.00
BKM     10.22 137 iPc    46 13.10  -1.4
                 iS     48 01.50
DZM     12.88 157 iPd    46 50.30   0.0
                 iS     49 07.60
QIS     22.96 241 iPd    48 50.20   1.7
BWA     26.66 204 iPc    49 22.90  -0.6
CNB     27.10 201 iPc    49 28.10   0.6
        0.8s    29.00nm          5.0mb
CAN     27.23 202 iPc    49 29.10   0.4
STK     28.01 217 eP     49 36.10   0.4
        1.6s     5.80nm          4.0mb X
ASPA    29.04 239 iPd    49 43.90  -1.3
        0.5s     9.10nm          4.7mb
      Z  22s     1.70um          4.6Msz
                 ipP    49 59.30  64kmX
TOO     30.56 205 iPd    49 59.10   0.6
        0.4s    60.00nm          5.7mb
KNA     31.81 257 iPd    50 09.60   0.0
ADE     31.89 216 iPd    50 10.90   0.6
NOZ     32.13 154 eP     50 12.30   0.1
MNG     32.87 159 P      50 17.40  -1.3
WARB    36.09 239 iPd    50 46.60   0.1
        0.6s    19.00nm          5.2mb
MBL     40.93 250 iPc    51 26.60  -0.2
        0.6s    29.00nm          5.2mb
MEEK    43.11 242 iPd    51 45.00   0.3
BAL     45.77 237 iPd    52 05.80  -0.2
MRWA    45.99 239 iPd    52 08.00   0.3
        0.4s     7.00nm          4.9mb
MUN     46.58 235 eP     52 12.50   0.1
LEM     52.80 269 iPd    53 00.50   0.0
MDJ     61.54 335 eP     54 01.00  -0.6
CN2     62.72 332 eP     54 08.50  -1.0
        1.0s    23.00nm          5.3mb
                 esP    54 26.00
GYA     64.10 306 P      54 19.20   0.1
BJI     64.96 323 eP     54 34.00   9.8X
        1.4s    12.00nm          4.7mb
XAN     66.15 314 eP     54 30.50  -1.5
        1.0s     4.50nm          4.4mb
KMI     66.71 303 Pd     54 47.50  11.5X
        1.5s    60.00nm
                 pP     54 52.00  14kmX
CHTO    67.61 295 eP     54 40.80  -0.7
CD2     68.41 309 eP     54 46.20  -0.1
LZH     70.77 314 eP     55 00.00  -0.8
        2.0s    33.00nm          4.9mb
      Z  20s     0.25um          4.5Msz
                 pP     55 09.00  29kmX
                 sP     55 13.00
SVW     78.89  20 eP     55 47.47   0.7
        0.8s    75.73nm          5.7mb
SPA     79.82 180 iPc    55 51.60  -0.2
        1.0s    45.00nm          5.4mb
KLU     82.63  23 (P)    56 07.22   0.7
TOA     82.91  22 e(P)   56 17.60   9.7X
IMA     83.07  17 eP     56 08.26  -0.5
        1.0s     5.39nm          4.5mb
MAW     83.67 202 iP     56 12.50   0.9
        1.1s    55.56nm          5.5mb
BALM    83.76  24 eP     56 12.82   0.5
FBA     84.09  20 eP     56 13.03  -0.7
        0.7s     8.60nm          4.9mb
HYB     85.88 288 eP     56 23.50  -0.2
GBA     86.17 284 P      56 25.00   0.0
ARN     86.40  51 (P)    56 27.29   1.4
LGPM    86.42  48 eP     56 27.55   1.5
RMW     88.99  41 eP     56 38.68   0.5
```

```
GSC     89.60  54 eP     56 42.50   1.2
NB2    124.62 343 PKP    02 41.00  -1.6
        0.8s     2.10nm
LSZ    126.77 242 iPKPd  02 48.00  -0.2
GEC2   132.81 331 PKP    02 57.70  -1.0
        0.5s     0.84nm
                  e      03 18.20
                  e      03 20.80
                  e      03 25.10
                  e      03 30.20
EGRA   144.19 336 ePKP   03 18.00  -1.5
ECRI   144.66 339 ePKP   03 19.70  -0.7
EMON   145.40 345 ePKP   03 27.00   5.4X
ETOR   146.04 337 iPKPd  03 23.50   0.6
GUD    146.98 339 ePKP   03 26.00   1.6
EVIA   148.08 335 ePKP   03 29.20   3.0X
EALH   148.26 333 ePKP   03 29.20   2.8X
EHUE   148.81 334 ePKP   03 31.20   3.8X
EBAN   149.01 336 ePKP   03 31.00   3.4X
EVAL   150.61 340 iPKPd  03 35.70   5.7X
EPRU   150.61 337 iPKPd  03 30.70   0.7
SOB1   150.91 131 ePKP   03 36.00   4.9X
EJIF   151.16 337 ePKP   03 36.60   5.8X
     S.D. = 0.9  on  49 of  60 obs.
-------------------------------------
&  OCT  29, 1993  01h 45m 02.00s
   60.846 N          151.618 W
   DEPTH =  77.6km
 KENAI PENINSULA, ALASKA          ( 14)
     <AEIC>.

NKA      0.21 119 ePc    45 14.98   1.3
BKG      0.39 306 iPd    45 14.30  -0.6
                  eS     45 24.41
SPU      0.40 328 eP     45 14.65  -0.3
                  eS     45 24.52
CKT      0.46 321 iPd    45 14.68  -0.8
CKN      0.47 324 eP     45 15.01  -0.5
CKL      0.50 315 iPd    45 15.03  -0.8
CRP      0.50 328 eP     45 14.69  -1.2
                  eS     45 25.06
CGLM     0.50 338 iPd    45 15.03  -0.8
CP2      0.52 324 ePd    45 15.34  -0.8
BGL      0.56 318 ePd    45 15.68  -0.7
DFR      0.58 245 eP     45 15.89  -0.7
                  eS     45 26.92
NCG      0.62 335 iPd    45 16.32  -0.6
                  eS     45 28.02
REF      0.64 237 iPd    45 16.69  -0.6
                  eS     45 28.18
RSO      0.68 236 eP     45 17.05  -0.6
RS2      0.68 236 iPd    45 17.06  -0.7
RDW      0.69 239 eP     45 17.21  -0.6
NCT      0.71 247 eP     45 16.94  -0.9
                  eS     45 28.38
RED      0.71 234 eP     45 17.26  -0.7
                  eS     45 29.19
SUA      0.75  34 eP     45 17.83  -0.6
                  eS     45 30.63
SLKM     0.77 116 iPc    45 17.79  -0.7
NNL      0.82 169 eP     45 20.13   1.1
ILIM     1.02 221 eP     45 20.58  -0.9
                  eS     45 36.11
INE      1.06 223 eP     45 21.06  -1.1
PMS      1.08  67 P      45 21.70  -0.5
SKT      1.14   2 iPd    45 21.96  -1.0
                  eS     45 38.35
BRLK     1.15 161 eP     45 22.17  -0.9
                  eS     45 37.97
PWA      1.17  45 P      45 23.10  -0.1
                  S      45 39.40
MPA      1.17 107 eP     45 22.26  -1.0
HOM      1.19 181 eP     45 23.26  -0.3
                  eS     45 39.94
SEW      1.31 124 eP     45 23.61  -1.4
CNPM     1.34 172 iPd    45 24.56  -1.0
                  eS     45 42.23
XLV      1.40 182 eP     45 25.04  -1.2
PLRM     1.42  57 eP     45 25.74  -0.8
PMR      1.42  57 eP     45 24.58  -1.9
OPT      1.44 215 eP     45 26.36  -0.5
GHO      1.60  53 eP     45 27.64  -1.4
PWL      1.61  88 ePc    45 27.25  -1.8
KNK      1.64  68 ePc    45 27.93  -1.5
                  eS     45 48.46
PDB      1.66 231 eP     45 28.27  -1.5
CUT      1.69  22 eP     45 29.06  -1.1
```

29d 01h

```
AUW     1.75 213 eP    45 30.21  -0.7
SML     1.86  57 eP    45 30.75  -1.7
CFI     1.91  78 eP    45 30.82  -2.2
                eS     45 55.42
SVW     1.97 279 ePc   45 31.69  -2.3
LTI     2.03 112 eP    45 32.44  -2.4
MCNL    2.15 221 eP    45 35.27  -1.2
CDD     2.18 209 eP    45 35.62  -1.2
SYI     2.28 190 eP    45 37.04  -1.1
SCM     2.29  63 eP    45 36.68  -1.8
FID     2.52  90 eP    45 37.78  -3.8
VLZ     2.59  81 eP    45 39.83  -2.7
KLU     2.84  74 eP    45 43.36  -2.6
TOA     2.90  62 P     45 45.40  -1.5
DHY     3.00  40 eP    45 46.66  -1.8
GLB     3.83  78 eP    45 56.66  -3.2
WRH     3.99  23 eP    45 59.41  -2.5
BALM    4.53  84 eP    46 05.50  -4.2
IMA     5.32 351 eP    46 16.05  -4.7
        58 obs. associated
-------------------------------------
&  OCT  29, 1993  02h 45m 58.69s
   58.247 N          151.681 W
   DEPTH =   7.3km
 KODIAK ISLAND REGION              ( 13)
      <AEIC>. ML 3.0 (AEIC).

SYI     0.52 315 eP    46 08.16  -1.0
                eS     46 15.60
KDC     0.66 221 iPc   46 11.11  -0.8
                eS     46 20.65
XLV     1.21 359 eP    46 19.20  -2.3
                eS     46 36.46
CDD     1.23 305 eP    46 20.33  -1.6
                eS     46 36.43
CNPM    1.30  10 eP    46 20.76  -2.3
                eS     46 37.80
HOM     1.42   1 eP    46 23.33  -1.5
                eS     46 41.78
AUE     1.42 322 eP    46 23.50  -1.4
AUI     1.42 321 eP    46 23.15  -1.7
                eS     46 42.21
AGU     1.44 322 eP    46 23.84  -1.4
AUH     1.45 321 eP    46 23.55  -1.8
AUL     1.46 322 eP    46 24.29  -1.1
AUW     1.46 321 eP    46 24.02  -1.4
BRLK    1.58  15 eP    46 24.70  -2.4
                eS     46 44.73
OPT     1.62 331 eP    46 26.60  -1.2
MCNL    1.67 305 eP    46 27.34  -1.2
                eS     46 48.96
NNL     1.81   6 eP    46 31.37   0.9
ILIM    1.95 341 eP    46 30.33  -2.3
                eS     46 57.58
INE     1.95 339 eP    46 30.72  -2.0
PDB     2.02 321 eP    46 31.78  -1.7
                eS     46 57.64
SEW     2.19  31 eP    46 31.92  -4.0
RED     2.25 346 eP    46 34.22  -2.7
                eS     47 03.46
RSO     2.29 347 eP    46 34.84  -2.8
RS2     2.29 347 eP    46 34.87  -2.8
REF     2.31 347 eP    46 35.02  -2.9
                eS     47 04.84
RDW     2.32 346 eP    46 35.19  -2.8
SLKM    2.39  18 eP    46 35.36  -3.5
DFR     2.41 348 eP    46 36.28  -2.9
NCT     2.41 345 eP    46 36.45  -2.7
BKG     2.85 354 eP    46 41.92  -3.5
SPU     2.95 356 eP    46 43.29  -3.5
CKL     2.98 354 eP    46 43.97  -3.3
CRP     3.04 356 (P)   46 45.72  -2.5
CP2     3.04 355 eP    46 44.83  -3.4
BGL     3.05 354 eP    46 45.12  -3.1
CGLM    3.08 357 eP    46 45.51  -3.1
PWL     3.13  32 eP    46 45.18  -4.1
NCG     3.18 356 eP    46 47.07  -3.0
PMS     3.19  19 P     46 47.00  -3.3
SUA     3.26   8 eP    46 47.23  -4.1
SVW     3.50 327 eP    46 52.00  -2.6
PWA     3.53  14 P     46 55.40   0.4
PWA     3.53  14 eP    46 52.32  -2.7
CFI     3.55  32 eP    46 51.08  -4.1
KNK     3.57  26 eP    46 51.73  -3.8
PMR     3.59  20 (P)   46 52.35  -3.5
FID     3.65  44 eP    46 51.30  -5.5
SKT     3.75   1 eP    46 54.42  -3.7
VLZ     3.96  41 eP    46 56.73  -4.4
SCM     4.21  29 eP    47 00.65  -4.0
KLU     4.36  39 eP    47 02.21  -4.7
BALM    5.50  55 eP    47 17.87  -5.2
        51 obs. associated
-------------------------------------
   OCT  29, 1993  02h 49m 04.95± 0.48s
   40.624 N ± 4.9km   22.492 E ± 4.0km
   DEPTH =  10.0km  (geophysicist)
 GREECE                            (364)
      MD 3.3 (ATH). ML 2.7 (THE).

GRG     0.34 348 ePg   49 11.60  -0.4
                eSg    49 17.40
THE     0.36  89 ePg   49 12.44   0.1
                eSg    49 18.12
LIT     0.52 180 ePg   49 14.60  -0.9
                eSg    49 23.00
KNT     0.62  30 ePg   49 17.12  -0.3
                eSg    49 25.16
KZN     0.63 240 iPbd  49 15.90  -1.9
SOH     0.68  73 ePg   49 18.40  -0.1
                eSg    49 29.04
VAY     0.70   5 iPn   49 18.40  -0.3
                iSn    49 33.20
                Lg     49 38.50
FNA     0.86 281 ePg   49 22.16   0.6
                eSg    49 34.36
SRS     0.97  59 ePg   49 22.96  -0.4
                eSg    49 37.20
PAIG    1.14 127 ePg   49 26.44   0.1
                eSg    49 42.96
OUR     1.17 104 ePb   49 27.60   0.8
                eSb    49 44.00
KBN     1.30 271 ePn   49 28.00  -1.0
OHR     1.37 291 iPn   49 30.70   0.5
                i      49 33.30
                i      49 54.80
                i      49 58.10
                Lg     49 59.50
SKO     1.56 330 eP    49 32.50  -0.3
TPE     1.92 261 ePn   49 42.00   4.0X
BERA    1.94 273 ePn   49 44.00   5.8X
IGT     1.98 237 ePn   49 41.96   3.0
RDO     2.37  76 ePn   49 49.00   4.6X
ALN     2.71  83 ePn   49 48.80  -0.6
VLS     2.85 212 ePg   49 59.00   7.6X
MLR     5.48  26 eP    50 30.00   1.3
     S.D. = 1.1  on  17 of  21 obs.
-------------------------------------
   OCT  29, 1993  02h 54m 15.51± 0.71s
   40.674 N ± 5.5km   22.516 E ± 4.8km
   DEPTH =   5.0km  (geophysicist)
 GREECE                            (364)
      ML 2.2 (THE).

GRG     0.30 343 ePg   54 21.34  -0.1
                eSg    54 27.50
THE     0.34  97 ePg   54 22.30  -0.1
                eSg    54 28.42
KNT     0.57  31 ePg   54 26.94   0.1
                eSg    54 35.86
VAY     0.65   4 ePn   54 28.00  -0.5
SOH     0.65  77 ePg   54 28.42  -0.2
                eSg    54 37.38
FNA     0.87 278 ePg   54 33.06   0.3
                eSg    54 45.34
SRS     0.93  61 ePg   54 34.54   0.8
                eSg    54 47.06
PAIG    1.16 130 ePg   54 37.30  -0.4
                eSg    54 53.14
OUR     1.17 106 ePg   54 37.86   0.1
     S.D. = 0.4  on   9 of   9 obs.
-------------------------------------
%  OCT  29, 1993  03h 16m 46.90± 0.59s
   44.337 N ± 5.5km    7.410 E ± 5.6km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                    (545)
      ML 1.7 (GEN).

ENR     0.11 176 P     16 50.20   0.4
                S      16 52.12
STV     0.11 214 P     16 49.83   0.0
                S      16 51.57
PZZ     0.28 307 P     16 52.81   0.0
                S      16 56.65
ROB     0.33  97 P     16 54.14   0.3
                S      16 59.49
BHB     0.52 348 P     16 57.25  -0.1
                S      17 04.25
IMI     0.55 141 P     16 57.52  -0.5
                S      17 04.80
FIN     0.59 102 P     16 58.76  -0.1
     S.D. = 0.3  on   7 of   7 obs.
-------------------------------------
   OCT  29, 1993  04h 09m 05.61± 0.11s
   51.509 N ± 2.9km  178.184 W ± 1.6km
   DEPTH =  34.0km  ( 64 depth phases)
   5.8mb (156 obs.)  5.3Msz ( 58 obs.)
 ANDREANOF ISLANDS, ALEUTIAN IS. (  7)
      Mw 5.8 (GS), 5.7 (HRV). ML 5.9
      (PMR). Ms 5.0 (BRK). Felt (IV)
      on Adak.
      MOMENT TENSOR SOLUTION
      Dep  36            No. of sta: 34
      Moment Tensor;    Scale 10**17 Nm
        Mrr= 4.95        Mtt=-3.15
        Mff=-1.80        Mrt= 1.65
        Mrf= 2.07        Mtf=-3.84
       Principal axes:
        T  Val=  5.58  Plg=76  Azm=290
        N        1.37       7       48
        P       -6.94      12      139
      Best Double Couple:Mo=6.3*10**17
       NP1:Strike=238 Dip=33 Slip= 102
       NP2:         43     58       82
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 48S, **C
      Centroid Location:
      Origin Time        04:09: 8.4 0.2
      Lat 51.49N 0.02 Lon 177.75W 0.03
      Dep  47.1 1.6 Half-duration  1.8
      Moment Tensor;    Scale 10**17 Nm
        Mrr= 3.56 0.06  Mtt=-2.98 0.10
        Mff=-0.58 0.07  Mrt= 1.73 0.13
        Mrf= 1.97 0.15  Mtf=-2.03 0.11
       Principal Axes:
        T  Val=  4.47  Plg=70  Azm=293
        N        0.41      11       54
        P       -4.88      17      148
      Best Double Couple:Mo=4.7*10**17
       NP1:Strike=254 Dip=30 Slip= 112
       NP2:         49     62       78

ADK     1.01  67 iPc   09 25.11   1.7
                (S)    09 50.08
SMY     4.91 287 eP    10 20.86   1.9
                (S)    11 19.11
SDN    11.22  63 eP    11 45.09  -1.5
PET    14.26 285 eP    12 29.00   2.2
       1.0s   110.00nm          5.4mb
     N 18s      4.40um
     E 18s      5.50um
                eS     15 10.00
ANM    14.70  22 eP    12 36.69   4.1X
SVW    15.70  44 eP    12 48.32   2.7
KDC    16.07  57 eP    12 49.20  -1.1
       0.8s   251.40nm          5.4mb
SKR    16.16 277 eP    12 50.00  -1.5
     Z 20s      4.90um
     N 16s      3.30um
     E 20s      2.40um
                eS     15 56.00
ILT    16.45 359 iPd   12 59.30   4.3X
       1.2s  1008.00nm          5.8mb
     Z 16s      4.80um          4.6Msz
     N 16s      9.10um
TTA    16.48  38 ePc   12 58.71   3.2
       1.2s   408.91nm          5.4mb
CP2    17.25  45 ePc   13 08.99   3.6
CRP    17.29  46 ePc   13 09.05   3.2
SLKM   17.91  49 eP    13 13.09  -0.4
PWA    18.45  46 eP    13 20.00   0.1
       1.0s   313.70nm          5.4mb
PMS    18.45  47 eP    13 20.70   0.6
PMR    18.76  46 eP    13 24.68   0.9
       0.7s    77.77nm          5.0mb
                S      17 12.99
IMA    19.14  31 iPc   13 29.44   1.0
       1.2s   515.48nm          5.6mb
KLU    20.20  48 eP    13 39.15  -0.8
TOA    20.26  46 eP    13 39.10  -1.4
COL    20.61  38 eP    13 43.07  -0.9
```

```
        1.0s   372.97nm          5.7mb
FBA     20.61  38 eP    13 42.77  -1.2
        0.3s    50.42nm          5.4mb
BALM    21.79  50 eP    13 54.61  -1.6
BRW     22.10  18 eP    14 00.61   1.6
KUR     23.26 268 iPc+  14 12.00   1.4
        1.0s   910.00nm          6.2mb
      Z 18s     4.10um          4.9Msz
      E 18s     5.90um
                 epP    14 23.00  43km
SIT     25.29  60 eP    14 29.72  -0.4
        0.8s    47.51nm          5.1mb
YSS     25.69 275 iPc+  14 35.30   1.4
        1.0s   630.00nm          6.2mb
      Z 17s     3.20um          4.9MszX
      N 17s     1.40um
      E 18s     2.20um
                 i      14 47.30  47kmX
                 eS     19 01.00
                 eSSS   20 22.00
KUSJ    26.29 266 P     14 38.70  -0.8
ASAJ    27.06 270 P     14 48.00   1.4
INK     27.13  35 ePc   14 46.30  -0.6
        1.0s    41.00nm          5.0mb
HOOJ    27.56 266 P     14 51.10   0.0
MRRJ    28.92 268 P     15 03.00  -0.3
YAK     29.61 311 eP    15 07.10  -2.2
        1.2s   105.00nm          5.5mb
      Z 18s    11.10um          5.5Msz
      N 19s     1.60um
      E 18s     7.00um
                 iPPP   16 10.00
                 i      18 11.00
                 i      21 53.00
                 i      25 41.00
AOMJ    30.39 265 eP    15 17.60   1.1
OFUJ    30.46 262 eP    15 17.60   0.5
TIK     30.71 330 iPc+  15 18.00  -1.0
        2.0s   123.00nm          5.4mb
      Z 16s     9.50um          5.5MszX
                 i      15 30.50  48kmX
                 e      16 22.00
                 i      18 14.00
                 e      20 26.00
                 i      25 47.00
YAMJ    32.03 262 eP    15 31.50   0.6
KAKJ    33.19 259 eP    15 40.70  -0.3
NIIJ    33.25 262 P     15 41.90   0.4
MBC     33.34  22 iPc   15 43.70   1.8
        1.2s   349.00nm          6.1mb
                 PP     16 58.30
                 PPP    17 11.80
                 PcP    18 23.20
                 S      20 58.70
                 PcS    22 04.50
                 SS     23 14.70
OPA     33.65 145 eP    15 44.10  -1.0
HON     33.99 145 P     16 00.00  12.0X
      Z 21s     7.24um          5.4Msz
CHJJ    34.02 260 P     15 48.90   0.7
MAJO    34.19 261 eP    15 49.63   0.0
        0.9s   296.95nm          6.2mb
                 i      18 26.05
MAT     34.19 261 eP    15 50.00   0.3
        1.1s   345.57nm          6.2mb
      Z 20s     3.90um          5.1Msz
                 eS     21 12.00
VLA     34.28 276 iPc-  15 49.50  -0.9
        1.2s   450.00nm          6.3mb
      Z 11s     1.00um          4.8MszX
      N 18s     1.10um
      E 17s     1.00um
                 i      16 07.00  72kmX
                 i      17 05.00
                 iPPP   17 18.00
                 iS     21 15.00
                 i      21 33.00
                 iSS    23 19.00
                 iSSS   23 57.00
                 i      26 08.00
MTMJ    34.41 262 P     15 52.30   0.6
YKA     34.86  47 eP    15 54.10  -1.1
        0.8s    29.60nm          5.3mb
MCW     34.91  72 iPc   15 57.03   1.2
                 ipP    16 06.85  34km
MDJ     34.93 280 iPc   15 55.30  -0.7
        1.1s   140.00nm          5.8mb
```

```
                 S      21 19.00
IIDJ    35.06 260 P     15 58.30   1.1
GMW     35.45  74 iPc   16 01.77   1.4
                 ipP    16 12.17  36km
BMW     35.69  76 iPc   16 03.56   1.1
                 epP    16 13.92  36km
RMW     36.08  74 iPc   16 06.86   1.1
                 epP    16 16.99  35km
TSRJ    36.21 262 P     16 07.70   0.8
LON     36.41  75 iPc   16 09.42   0.9
                 S      21 49.46
SHW     36.42  76 ePc   16 10.04   1.3
                 epP    16 20.21  35km
                 S      21 50.65
WKYJ    37.32 261 P     16 17.60   1.3
VGB     37.65  76 iPc   16 20.05   1.1
                 ePP    16 29.73
CN2     37.90 281 Pc    16 20.50  -0.5
        1.2s    91.00nm          5.5mb
      Z 25s     3.76um          5.1MszX
      N 18s     2.83um
      E 18s     2.12um
                 epP    16 32.00  42km
                 ePP    17 50.00
                 eS     22 06.00
                 eSS    24 42.00
YONJ    38.00 264 eP    16 22.60   0.7
DPW     38.03  71 eP    16 22.03  -0.1
                 epP    16 32.03  34km
FHC     38.22  84 iPc   16 25.64   1.9
        0.8s   130.57nm          5.8mb
KMPM    38.35  85 ePc   16 26.70   1.7
                 epP    16 36.36  33km
TKSJ    38.43 262 eP    16 27.20   1.7
NEW     38.48  70 ePc   16 25.47  -0.4
        1.0s   707.14nm          6.4mb
YBH     38.48  82 iPc   16 27.86   1.8
        1.1s   110.00nm          5.6mb
      Z 21s     3.20um          5.1Msz
                 ePP    18 16.52
                 eS     22 21.52
                 eLQ    25 02.52
                 eLR    26 49.52
LGPM    38.87  83 iPc   16 30.85   1.5
                 eS     22 16.93
SHK     38.92 264 eP    16 30.50   0.9
LBFM    39.21  82 iPc   16 33.74   1.5
WDC     39.24  84 ePd   16 33.14   0.9
        1.0s    76.54nm          5.4mb
      Z 18s     1.51um          4.9Msz
                 e      22 40.77
RES     39.47  25 eP    16 34.00   0.3
        1.0s    10.00nm          4.5mb X
LMEM    39.87  83 ePc   16 38.81   1.1
                 epP    16 48.49  33km
MIN     39.96  83 iPc   16 38.90   0.5
        2.0s   380.00nm          5.8mb
SNY     40.13 280 iPc   16 40.20   0.6
        1.2s   600.00nm          6.2mb
      Z 21s     3.07um          5.1Msz
      N 16s     1.78um
      E 17s     2.25um
                 pP     16 51.50  40km
                 PP     18 12.00
                 S      22 37.00
SHNJ    40.16 265 P     16 41.30   1.4
NTYM    40.47  87 eP    16 42.72   0.4
                 epP    16 52.45  33km
                 ePcP   18 44.16
ORV     40.49  84 iPc   16 42.94   0.4
        0.9s    40.00nm          5.2mb
      Z 21s     1.80um          4.9Msz
                 ePP    18 40.39
                 eS     22 43.39
                 eLQ    26 03.39
                 eLR    28 14.39
CIT     40.80 299 eP    16 40.50  -4.5X
      Z 20s     6.49um          5.5Msz
      E 20s    13.00um
ZSP     40.99  87 iP    16 47.52   0.9
BKS     41.05  87 iPc   16 47.84   0.7
        1.0s   100.00nm          5.5mb
      Z 20s     2.30um          5.0Msz
                 ePP    18 31.09
                 eS     23 02.09
                 eLQ    26 10.09
                 eLR    28 09.09
```

```
HMR     41.15  86 eP    16 49.49   1.6
                 epP    17 01.49  44km
PCC     41.19  87 iP    16 48.51   0.2
STAN    41.37  87 iPc   16 50.50   0.7
        1.3s   290.00nm          5.8mb
KUMJ    41.40 263 P     16 51.40   1.3
MHC     41.75  87 iPc   16 53.59   0.5
        1.5s   190.00nm          5.6mb
COE     41.78  87 ePc   16 54.09   0.9
                 ePcP   18 49.22
                 epPcP  18 57.20
ARN     41.81  87 ePc   16 54.16   0.7
                 ePcP   18 48.88
CMB     42.10  85 iPc   16 56.80   0.9
        1.3s   110.00nm          5.4mb
      Z 21s     3.30um          5.2Msz
                 eS     23 13.31
                 eLQ    26 46.31
                 eLR    28 45.31
SAO     42.23  88 eP    16 57.17   0.3
        1.2s    95.82nm          5.4mb
      Z 17s     1.95um          5.1MszX
                 epP    17 06.63  32km
                 S      23 14.34
KAGJ    42.28 261 eP    16 58.70   1.4
LRM     42.47  71 ePc   16 58.00  -1.0
PRS     42.55  88 iP    17 00.25   0.7
DL2     43.05 277 P     17 04.00   0.5
        1.5s   770.00nm          6.2mb
      Z 20s     1.88um          5.0Msz
      N 15s     1.61um
                 S      23 26.00
FRI     43.17  86 iP    17 05.11   0.6
MMPM    43.21  85 ePc   17 06.33   1.1
                 ipP    17 15.09  29km
MEMM    43.23  85 iPc   17 06.68   1.7
                 ePP    18 54.64
BONR    43.45  84 iPc   17 08.17   1.0
PHAM    43.47  88 ePc   17 07.71   0.7
                 epP    17 16.81  30km
MRCM    43.49  84 ePc   17 08.62   1.2
MTUM    43.66  85 iPc   17 09.65   0.9
TNP     44.04  83 iPc   17 12.44   0.6
        1.0s    84.52nm          5.5mb
BCH     44.08  88 ePc   17 12.60   0.5
                 epP    17 22.05  32km
PTI     44.16  74 ePc   17 13.90   1.2
                 ipP    17 24.21  35km
NRI     44.29 330 iPc+  17 12.40  -0.8
        1.2s    92.00nm          5.5mb
      Z 16s     6.70um          5.7MszX
      E 19s    14.00um
                 e      17 25.00  46kmX
                 e      18 56.00
HVU     44.55  76 iPc   17 16.49   0.6
ISA     44.78  87 iPc   17 17.32  -0.4
        0.9s    64.42nm          5.5mb
      Z 21s     1.98um          5.0Msz
                 epP    17 26.33  30km
                 ScP    22 50.41
                 S      23 55.31
ABL     44.84  88 ePc   17 18.60   0.2
TPNV    45.35  84 ePc   17 22.16  -0.2
        0.7s    74.48nm          5.7mb
      Z 21s     5.42um          5.5Msz
                 epP    17 31.97  33km
DUG     45.47  78 eP    17 22.88  -0.3
        1.0s   254.09nm          6.1mb
      Z 21s     2.41um          5.1Msz
                 S      23 55.59
IRK     45.66 303 eP    17 23.30  -1.1
        1.4s    36.00nm          5.1mb
      Z 20s     2.63um          5.2Msz
      N 19s     1.17um
      E 18s     1.85um
                 e      17 40.00  66kmX
                 i      19 02.00
                 e      19 10.00
                 e      27 16.00
BJI     45.72 282 Pc    17 26.00   1.0
        1.2s   170.00nm          5.8mb
      Z 24s     7.96um          5.6MszX
      N 17s     2.19um
                 epP    17 36.00  34km
                 ePP    19 13.00
                 eS     24 02.00
                 esS    24 20.00
```

29d 04h

```
                 eSS   27 16.00
GSC    46.06  86 ePd   17 27.66  -0.1
SSK    46.21  88 ePc   17 29.09  -0.1
DAU    46.28  76 eP    17 30.14   0.3
                 epP   17 40.38  35km
                 eS    24 15.96
ARUT   46.56  81 ePc   17 32.08   0.2
                 epP   17 42.92  38km
PEC    46.75  87 ePc   17 32.66  -0.6
       1.0s   51.79nm          5.5mb
                 epP   17 41.71  30km
MSU    46.89  79 ePc   17 34.27  -0.3
                 epP   17 44.66  35km
                 eS    22 52.02
EMUT   46.91  77 iPc   17 35.12   0.4
                 epP   17 44.49  31km
ZAK    47.21 301 iPc   17 36.70   0.1
       1.1s  104.00nm          5.7mb
     Z  21s    4.60um          5.4Msz
     E  19s    6.03um
                 e     19 07.00 468kmX
                 e     19 30.00
                 eS    24 20.00
                 e     27 28.00
                 e     27 43.00
PLM    47.30  88 iPc   17 37.92   0.2
SRU    47.53  77 eP    17 39.34  -0.2
TIA    47.53 278 Pc    17 40.00   0.7
       1.0s  320.00nm          6.3mb
     Z  23s    2.38um          5.1MszX
     N  22s    4.02um
                 sP    17 55.00
                 eS    24 28.00
HHC    48.02 286 iPd   17 43.80   0.5
       1.2s  710.00nm          6.6mb
     N  18s    3.06um
     E  19s    4.86um
                 sP    18 02.00
PJG    48.10 232 eP    17 40.60  -3.3X
GUMO   48.10 232 eP    17 41.63  -2.3
       1.1s  484.40nm          6.4mb
                 esP   17 57.07
GUA    48.12 232 eP    17 40.10  -4.0X
       0.8s  208.96nm          6.2mb
RSSD   48.35  68 ePc   17 44.83  -1.1
       0.6s  101.48nm          6.0mb
                 epP   17 54.15  31km
                 ePcP  19 11.93
SSE    48.38 269 Pc    17 46.50   0.5
       1.0s  360.00nm          6.4mb
     Z  20s    2.30um          5.2Msz
                 pP    18 00.00  50kmX
                 S     24 40.00
PV09   48.76  77 ePd   17 48.29  -0.9
                 eScP  23 07.34
                 eS    24 50.23
GLA    48.77  87 ePc   17 48.89  -0.1
PV10   48.89  77 ePd   17 49.68  -0.5
                 eScP  23 07.55
PV08   49.00  77 eP    17 50.17  -1.0
BTO    49.10 287 iPd   17 53.00   1.4
       1.2s  790.00nm          6.6mb
     N  17s    1.17um
     E  20s    2.74um
                 pP    18 02.50  32km
                 PP    19 47.00
                 S     24 57.00
                 sS    25 11.00
                 eSS   28 24.00
NJ2    49.19 272 Pc    17 52.00  -0.2
       1.0s  170.00nm          6.0mb
     Z  22s    1.83um          5.0Msz
                 pP    18 06.00  53kmX
ULM    49.29  57 eP    17 53.00   0.2
TIY    49.45 282 Pc    17 55.30   1.0
       0.9s  280.00nm          6.3mb
     Z  26s    4.53um          5.4MszX
     N  16s    2.40um
                 PP    19 52.00
                 S     25 01.50
GOL    50.27  73 eP    18 00.32  -0.4
       1.7s 1243.12nm          6.6mb
     Z  20s    4.07um          5.4Msz
                 ipP   18 11.04  37km
GLD    50.33  73 eP    18 01.59   0.5
       1.3s  314.41nm          6.2mb
     Z  22s    4.10um          5.4Msz
```

```
                 ipP   18 12.02  36km
UER    51.29 307 iPc   18 07.00  -1.0
       1.5s   60.00nm          5.3mb
                 iS    25 31.00
DAG    51.32   6 iPd   18 06.50  -1.4
       0.7s   12.33nm          5.0mb
ALQ    52.69  79 ePd   18 18.13  -0.9
       1.2s   90.28nm          5.6mb
     Z  21s    2.07um          5.2Msz
                 ePcP  19 28.74 428kmX
                 e     19 44.61
                 S     25 34.85
FRB    52.71  32 eP    18 17.50  -1.0
       1.0s   39.00nm          5.3mb
GDH    52.93  22 eP    18 40.00  19.9X
                 e     26 20.00
                 e     30 02.00
WHN    53.03 274 iPc   18 21.00  -0.3
       1.0s  330.00nm          6.3mb
     N  18s    1.36um
     E  22s    3.01um
                 pP    18 34.20  48kmX
XAN    54.01 281 Pd    18 27.50  -1.0
       1.0s  220.00nm          6.1mb
     Z  23s    2.58um          5.2MszX
     N  16s    0.96um
     E  16s    1.92um
                 sP    18 44.00
                 PcP   19 34.00
                 PP    20 30.00
                 PcS   23 32.00
                 S     26 00.00
                 SS    29 47.00
QZH    54.34 266 iPc   18 31.00   0.0
       1.2s  300.00nm          6.2mb
     Z  20s    1.49um          5.1Msz
                 pP    18 45.00  51kmX
LZH    55.72 287 iPd   18 41.00  -0.1
       1.6s 1140.00nm          6.7mb
     Z  20s    6.10um          5.7Msz
     E  17s    3.38um
                 sP    18 54.50
                 PP    20 47.00
                 PPP   22 00.00
                 S     26 25.00
                 sS    26 40.00
GTA    55.88 292 iPc   18 41.50  -0.7
       1.5s  550.00nm          6.4mb
     Z  20s    8.64um          5.8Msz
     E  18s    2.71um
                 pP    18 50.00  28km
                 sP    18 54.50
                 PP    20 48.00
                 eS    26 24.00
                 sS    26 39.00
                 ScS   28 24.00
ACO    55.94  72 iPd   18 41.20  -1.4
JAQ    56.74  44 eP    18 45.50  -2.5
WMOK   57.49  74 eP    18 52.13  -1.5
       1.0s  176.42nm          6.1mb
     Z  21s    3.79um          5.5Msz
                 epP   19 03.60  39km
                 S     26 47.66
MEO    57.58  74 iPd   18 53.30  -0.9
OCO    57.73  72 iPd   18 53.90  -1.4
LTX    58.25  82 eP    18 56.02  -3.1X
TUL    58.47  71 iP    18 59.20  -1.2
TRO    58.53 353 eP    19 00.20  -0.1
GZH    58.97 269 P     19 03.20  -0.8
       1.2s  140.00nm          6.0mb
                 eS    27 08.00
HKC    59.02 267 P     19 05.00   0.6
CD2    59.32 282 iPd   19 05.60  -0.9
       1.2s  510.00nm          6.5mb
     Z  18s    3.09um          5.5Msz
     E  15s    1.45um
                 sP    19 19.80
                 S     27 12.00
                 isS   27 29.00
WMQ    59.59 303 P     19 07.40  -0.8
     Z  20s    1.07um          5.0Msz
     E  20s    2.56um
                 pP    19 14.00  22kmX
                 PcP   19 50.00
                 PP    21 26.00
                 sS    27 36.00
                 ScS   28 55.00
```

```
CCM    59.63  66 P     19 14.80   6.4X
       1.1s  207.25nm          6.2mb
SLM    59.81  65 P     19 20.00  10.4X
     Z  18s    1.08um          5.0Msz
FVM    60.15  66 iPc   19 10.30  -1.7
       0.6s  173.90nm          6.4mb
     Z  21s    1.97um          5.2Msz
                 epP   19 20.11  32km
                 ePcP  19 56.24
UYO    60.46  71 iPd   19 12.20  -1.9
GYA    60.69 276 iPc   19 15.50  -0.4
       1.2s  290.00nm          6.3mb
     Z  22s    2.38um          5.3Msz
                 pP    19 30.00  53kmX
                 PP    21 30.00
                 S     27 28.00
                 sS    27 44.00
MIAR   60.72  70 ePc   19 14.98  -0.9
       1.2s  400.06nm          6.4mb
     Z  20s    1.45um          5.1Msz
                 ipP   19 25.48  35km
                 S     27 31.13
ELC    61.32  65 iPd   19 18.31  -1.6
ELF    61.46  56 P     19 21.15   0.3
DLA    61.57  56 P     19 22.25   0.7
LST    61.56  66 eP    19 20.24  -1.4
                 esP   19 35.56
LDN    61.64  56 P     19 22.10   0.1
SVE    61.70 328 iPc   19 22.00  -0.3
       1.9s  240.00nm          6.0mb
     Z  20s    7.00um          5.8Msz
     N  20s    3.50um
     E  20s    4.00um
                 eS    27 37.00
                 eSSS  34 30.00
ACTO   61.81  55 P     19 23.55   0.3
AKU    62.14   9 iP    19 26.60   1.6
       0.7s   16.44nm          5.3mb
TYNO   62.27  55 P     19 26.57   0.3
WLVO   62.43  53 P     19 27.06  -0.2
STCO   62.55  54 P     19 27.85  -0.2
GAC    62.58  50 ePc   19 26.40  -1.8
ARU    62.71 328 iPc+  19 28.50  -0.4
     Z  18s    3.00um          5.5Msz
     N  18s    1.50um
     E  18s    2.00um
                 e     19 38.50  32km
                 e     20 06.00
                 (S)   28 16.00
OXF    63.17  68 ePc   19 31.21  -1.1
                 ipP   19 41.33  33km
                 ePcP  20 08.21
YSNY   63.40  55 (P)   19 33.14  -0.6
       1.2s  136.27nm          5.9mb
     Z  19s    2.54um          5.4Msz
                 epP   19 44.09  36km
                 ePcP  20 06.75
                 S     28 03.67
DAV    63.87 247 eP    19 34.00  -3.1X
RSNY   63.88  51 (P)   19 35.27  -1.6
       1.1s   31.18nm          5.3mb
                 epP   19 45.55  33km
KMI    64.09 278 Pc    19 38.00  -0.7
       1.4s  410.00nm          6.3mb
                 pP    19 52.00  50kmX
                 PP    22 03.00
                 eS    28 09.00
                 sS    28 30.00
QIZ    64.15 268 Pc    19 38.00  -0.9
       1.2s  100.00nm          5.8mb
YOMI   64.30 227 ePc   19 39.60  -0.3
MDG    64.38 221 eP    19 31.00  -9.4X
BINY   64.89  53 P     19 50.00   6.5X
     Z  19s    1.48um          5.2Msz
CBM    65.07  45 eP    19 43.17  -1.3
       1.2s   56.31nm          5.5mb
     Z  21s    1.18um          5.1Msz
                 epP   19 54.23  36km
                 ePcP  20 17.05
                 epPcP 20 28.16
KAF    65.07 348 iP    19 42.90  -1.4
       0.6s   47.60nm          5.8mb
LBNH   65.36  49 ePc   19 45.19  -1.2
       1.3s   61.62nm          5.5mb
     Z  19s    2.33um          5.4Msz
TKL    65.55  63 (P)   19 47.00  -0.8
MYNC   65.78  64 eP    19 47.68  -1.6
```

```
      0.6s   271.87nm          6.5mb
    Z  19s     1.95um          5.3Msz
               epP    19 58.35  35km
               S      28 31.47
NAV   65.98  60 eP     19 49.38  -1.1
               epP    20 00.22  35km
               ePcP   20 19.06
               epPcP  20 29.50
MOL   66.18 357 eP     19 49.92  -1.4
BLA   66.25  60 ePc    19 51.84  -0.5
      1.2s   164.69nm          6.0mb
               epP    20 01.83  32km
GPD   66.54  53 eP     19 52.77  -1.2
TBR   66.56  53 eP     19 52.77  -1.4
LSCT  66.65  52 P      20 10.00  15.3X
    Z  21s     2.26um          5.3Msz
CVL   66.73  58 eP     19 54.63  -0.6
               epP    20 05.47  35km
               ePcP   20 24.20
GMTN  66.78  53 eP     19 55.20  -0.3
MRX   66.79  87 iP     19 56.70   0.9
PAL   66.82  53 eP     19 54.09  -1.7
               epP    20 04.89  35km
               ePcP   20 22.04
NUR   66.83 348 iP     19 54.30  -1.2
      0.8s    29.10nm          5.4mb
HRV   66.84  50 P      20 10.00  14.1X
    Z  20s     2.67um          5.5Msz
FRU   66.87 310 eP     19 56.00  -0.1
      1.8s   110.00nm          5.7mb
    Z  22s     2.40um          5.4Msz
               e      20 21.00  99kmX
               e      22 24.00
CBN   67.14  57 eP     19 57.00  -0.8
      1.0s    35.00nm          5.4mb
               e      20 28.00 126kmX
LMN   67.36  44 eP     19 58.00  -1.1
PRM   67.49  63 eP     19 59.18  -0.9
               epP    20 09.62  34km
NB2   67.55 355 P      19 59.10  -1.1
      1.1s    31.00nm          5.3mb
LSA   67.76 290 P      20 03.60   1.2
      1.0s   450.00nm          6.5mb
    Z  20s     1.87um          5.3Msz
               pP     20 15.00  38km
               iS     29 00.00
               sS     29 16.50
NRA0  67.84 355 iPd    20 01.00  -0.9
               iPcPd  20 27.30
NRE0  67.84 355 iPc    20 06.90   5.0X
               PP     22 24.70
               S      29 04.00
               ScS    29 57.50
               SS     33 27.00
               SSS    36 48.30
CEH   67.95  60 ePc    20 01.98  -1.0
      1.2s   213.82nm          6.1mb
               epP    20 12.96  36km
               ePcP   20 27.87
JSC   67.96  62 eP     20 02.10  -0.9
               epP    20 12.76  35km
LHS   68.06  62 eP     20 02.89  -0.8
               epP    20 13.32  34km
UPP   68.26 351 iP     20 02.70  -1.7
HFS   68.30 354 eP     20 03.10  -1.7
      0.7s    25.40nm          5.4mb
KSH   68.77 307 P      20 07.80  -0.4
      1.5s   270.00nm          6.1mb
               sP     20 26.00
PPM   68.86  86 (P)    20 08.70  -0.8
KONO  69.02 356 eP     19 54.00 -15.2X
MOS   69.07 339 eP     20 10.00   0.4
               e      20 20.00  32km
               e      20 32.00
               e      22 52.00
               e      24 20.00
SGS   69.18  63 eP     20 10.22  -0.4
               epP    20 21.06  35km
HBF   69.45  63 eP     20 11.87  -0.4
               ipP    20 22.49  34km
OBN   69.89 340 iPc    20 13.00  -1.5
      1.3s   187.00nm          6.0mb
    Z  18s     3.50um          5.7Msz
    N  18s     3.00um
    E  18s     2.00um
               i      20 23.00  32km
               i      20 42.00
               ePPP   24 28.00
               eS     29 24.00
KKM   70.22 254 ePc    20 23.50   6.2X
TSM   70.62 252 ePc    20 19.50  -0.1
CHTO  71.11 277 ePc    20 22.30  -0.3
      1.2s   101.39nm          5.7mb
PMO   71.30 149 eP     20 10.70 -12.8X
      1.7s   311.70nm
TPT   71.37 149 eP     20 10.80 -13.1X
      1.1s    75.70nm
VAH   71.60 149 eP     20 12.50 -12.8X
      1.0s    40.80nm
RUV   71.64 149 eP     20 12.30 -13.2X
      1.1s    43.50nm
EDR   71.88   3 eP     20 25.80  -0.8
MUD   72.23 356 iPc    20 28.10  -0.5
      0.9s    16.00nm          5.0mb
EDU   72.24   3 eP     20 28.00  -0.7
BDT   72.26 275 eP     20 28.20  -1.2
      1.0s   124.20nm          5.9mb
ELO   72.29   3 eP     20 28.20  -0.8
EBH   72.52   3 eP     20 29.90  -0.5
EAB   72.55   4 eP     20 30.10  -0.4
NST   72.74 274 iPc    20 31.50  -0.7
MNK   72.77 344 eP     20 28.00  -3.8X
    Z  22s     2.90um          5.5Msz
COP   72.81 354 eP     20 40.00   8.0X
      0.7s    16.44nm          5.1mb
    Z  20s     0.71um          4.9Msz
               iS     30 52.00
EAU   72.93   3 eP     20 32.60  -0.1
AFR   73.10 152 eP     20 33.80  -0.3
      1.1s   170.90nm          6.0mb
PPT   73.19 151 eP     20 33.50  -1.2
      1.9s   499.20nm          6.2mb
    Z  31s  4275.00um          8.5MszX
BSD   73.19 352 iPc    20 34.60   0.3
      0.6s    28.00nm          5.4mb
PAE   73.28 152 eP     20 34.50  -0.7
      1.7s   266.20nm          6.0mb
EKA   73.45   3 Pc     20 35.60  -0.2
      1.5s   104.40nm          5.6mb
ESK   73.46   3 eP     20 35.00  -0.9
      1.2s    60.00nm          5.5mb
DZM   74.49 195 iPc    20 42.10  -0.2
NIL   74.66 305 iP     20 45.95   2.7
      0.6s     0.04nm          2.6mb X
               iPcP   20 53.78
DCN   75.24   6 eP     20 46.40   0.2
DLF   75.33   5 eP     20 46.00  -0.7
BUNI  75.63 245 ePc    20 48.00  -0.9
WIT   75.97 357 eP     20 51.50   1.2
               e      21 33.00 170kmX
TANI  75.98 246 ePc    20 50.00  -0.9
VAL   76.43   8 iP     20 54.00   1.1
DBN   76.73 358 eP     20 53.00  -1.5
    Z  20s     0.80um          5.0Msz
               e(PPS) 31 45.00
               eSS    35 50.00
               e      41 30.00
WTS   76.79 357 eP     20 55.00   0.1
      1.1s    55.20nm          5.5mb
CLL   77.12 353 iPc    20 56.20  -0.6
      1.8s   110.00nm          5.6mb
    Z  20s     1.00um          5.1Msz
KSP   77.29 351 iPc    20 57.00  -0.7
LVV   77.29 345 eP     20 59.00   1.2
    Z  20s     2.80um          5.6Msz
    N  20s     2.40um
               eS     30 41.00
               ePS    31 42.00
MKS   77.39 245 iPc    20 59.60   0.9
BRG   77.48 352 iPc    20 58.40  -0.3
      1.6s    85.00nm          5.5mb
    Z  21s     0.30um          4.6Msz
    N  21s     0.77um
    E  21s     1.40um
               i      21 08.00  31km
OJC   77.50 348 eP     20 59.00   0.1
               e      21 17.00  66kmX
BNS   77.80 357 iPc    21 01.90   1.4
MOX   77.88 354 iPc    21 01.10   0.1
      1.8s   130.00nm          5.7mb
    Z  22s     1.30um          5.2Msz
               e      21 51.30 208kmX
               eS     30 55.00
UCC   78.05 358 P+     21 02.00   0.2
ASH   78.13 318 eP     21 03.00   0.4
GRO   78.15 329 iPc+   21 04.00   1.5
      1.0s   270.00nm          6.2mb
PRU   78.30 352 iPc    21 02.70  -0.6
      1.7s   227.00nm          5.9mb
               sP     21 14.10
SNF   78.34 358 Pc     21 03.80   0.4
PYA   78.36 331 iPc+   21 03.50  -0.2
      1.3s   450.00nm          6.3mb
    Z  20s     4.00um          5.7Msz
    N  20s     3.00um
    E  20s     1.50um
SPC   78.45 348 eP     21 05.40   1.0
TNS   78.49 356 ePc    21 04.40   0.0
UZH   78.71 346 iPc    21 05.20  -0.3
      1.4s   100.00nm          5.6mb
    Z  18s     2.70um          5.6Msz
    N  18s     2.20um
               e      21 17.50  41km
               e      32 07.00
DOU   78.75 358 Pc     21 05.80   0.1
VRAC  78.77 350 eP     21 06.20   0.4
      1.0s   122.80nm          5.9mb
GRF   78.86 354 iPc    21 07.00   0.6
      1.2s   146.00nm          5.9mb
               e      21 26.10  70kmX
               e      21 40.30
MAIO  79.04 316 iPc    21 08.20   0.5
      0.8s     9.15nm          4.8mb X
               eS     31 14.00
KIS   79.14 342 iP+    21 08.00   0.1
    Z  18s     4.20um          5.8Msz
               i      21 17.00  29km
               i      21 25.00
               i      24 08.00
               e      31 10.00
               i      31 20.00
               e      31 42.00
               i      32 09.00
WLF   79.14 357 iPc    21 08.28   0.5
      1.7s    21.70nm          4.9mb
IAS   79.22 342 eP     21 09.00   0.7
KHC   79.24 352 iPc    21 08.90   0.4
      1.2s    50.00nm          5.4mb
    Z  22s     2.90um          5.6Msz
    N  20s     1.10um
    E  20s     1.20um
               i      21 16.80  25km
               e      22 29.00
WET   79.28 353 iPc    21 08.90   0.2
      1.6s   100.00nm          5.6mb
GEC2  79.51 352 P      21 09.80  -0.3
      0.7s    10.33nm          5.0mb
               PcP    21 16.40  26km
               e      21 18.10
               e      39 36.00
               e      39 55.80
               e      47 51.90
               e      48 01.40
               e      48 03.70
PTT   79.69 343 eP     21 12.00   1.1
PSZ   79.75 348 ePc    21 11.70   0.4
LANF  79.76 356 P      21 11.27   0.0
HOFF  79.79 356 P      21 12.02   0.6
ZST   79.82 350 eP     21 11.80   0.3
SRBF  79.82 356 P      21 12.02   0.5
VKA   79.83 350 iPd    21 12.50   0.8
SIM   79.95 337 eP     21 13.00   0.7
    Z  20s     4.50um          5.8Msz
               e      32 18.00
SRO   80.05 349 iP     21 13.40   0.6
STR   80.16 356 P      21 13.89   0.5
WLS   80.35 356 P      21 14.44   0.0
CDF   80.35 356 P      21 14.33  -0.2
FUR   80.38 354 eP     21 14.80   0.2
               i      21 25.90  36km
ECH   80.55 356 P      21 15.53   0.0
VITF  80.59 357 P      21 15.76   0.1
LIBD  80.60 356 P      21 15.98   0.3
QUE   80.62 307 eP     21 18.50   2.1
VRI   80.65 343 eP     21 15.00  -1.1
BHG   80.70 352 eP     21 17.20   0.9
      1.4s    67.00nm          5.4mb
IPM   80.70 266 iPc    21 16.90   0.1
      0.9s    97.20nm          5.8mb
QIS   80.72 220 iPc    21 15.60  -1.0
FEL   80.85 356 P      21 16.75  -0.5
```

29d 04h

MOF	80.92	356	P	21 17.18	-0.3
CFR	81.04	341	ePc	21 17.50	-0.5
MLR	81.16	343	ePc	21 19.00	0.1
WATA	81.18	353	iPc	21 19.00	0.0
MOTA	81.20	354	iPc	21 19.20	0.1
	1.3s	80.00nm		5.6mb	
WTTA	81.25	353	iPc	21 19.60	0.2
	1.2s	108.00nm		5.7mb	
			i	21 29.40	31km
			i	21 39.30	
			iPP	24 18.80	
KGM	81.27	262	ePc	21 20.50	0.8
BBS	81.29	356	P	21 19.49	0.1
KBA	81.29	352	iPc	21 20.30	0.7
	1.1s	152.00nm		5.9mb	
			i	21 24.00	12kmX
			i	21 27.50	
			i	21 37.30	
			iPP	24 30.90	
SQTA	81.32	354	iPc	21 19.90	0.2
	1.3s	81.40nm		5.6mb	
			i	21 31.30	37km
			i	21 40.00	
			iPP	24 34.90	
ERE	81.39	328	iPc	21 21.00	0.9
	1.0s	30.00nm		5.3mb	
ISR	81.39	343	eP	21 20.00	0.0
LOMF	81.43	357	P	21 20.36	0.2
CMP	81.54	344	iPc	21 29.00	8.2X
MTUR	81.57	344	ePc	21 21.50	0.5
KEDI	81.59	246	ePd	21 20.80	-0.6
OGA	81.68	354	eP	21 22.00	0.3
PTJ	82.21	350	eP	21 24.40	0.1
LJU	82.21	351	eP	21 24.00	-0.2
			e	21 42.50	67kmX
			i	21 50.40	
			eS	31 40.00	
			e	32 28.00	
			e	32 48.00	
			e	37 24.00	
			e	43 04.00	
DRA	82.25	344	ePd	21 26.00	1.6
VOY	82.28	352	eP	21 23.80	-0.9
ZAG	82.29	350	iP	21 25.00	0.4
TRI	82.62	352	eP	21 26.20	-0.1
			eLR	51 00.00	
TAB	82.67	326	eP	21 28.00	1.1
VBY	82.67	351	iPc	21 26.60	0.0
RIY	82.92	351	iP	21 27.20	-0.6
SRDI	83.08	247	ePd	21 26.20	-2.9
ORO	83.10	356	P	21 29.80	0.8
	1.1s	32.30nm		5.3mb	
LSD	83.31	356	P	21 31.12	0.9
KAS	83.40	336	iPc	21 31.40	0.9
RSP	83.61	356	P	21 31.72	0.2
BNI	83.73	357	P	21 33.75	1.5
	1.0s	67.50nm		5.7mb	
RRL	83.86	356	P	21 34.23	1.2
BOB	83.88	355	P	21 33.81	0.9
	0.7s	118.40nm		6.1mb	
BHB	83.92	356	P	21 33.64	0.6
PCP	84.15	355	P	21 33.96	-0.3
PZZ	84.26	356	P	21 34.00	-0.9
CKI	84.28	355	P	21 35.38	0.5
	1.0s	88.60nm		5.9mb	
PLE	84.32	347	iPc	21 35.98	0.8
MME	84.37	354	P	21 36.61	1.0
	1.3s	320.80nm		6.3mb	
ROB	84.43	356	P	21 35.29	-0.4
RSM	84.50	352	P	21 37.86	2.0
	1.3s	442.50nm		6.5mb	
FIN	84.50	355	P	21 35.01	-1.0
BDI	84.51	354	P	21 35.90	-0.2
	1.1s	24.80nm		5.3mb	
STV	84.51	356	P	21 34.42	-1.7
ENR	84.52	356	P	21 34.92	-1.2
HYB	84.53	291	ePd	21 36.00	-0.5
	1.0s	600.00nm		6.7mb	
			eSKS	32 00.00	
SFI	84.55	353	P	21 37.59	1.4
	1.0s	118.10nm		6.0mb	
PGD	84.61	353	P	21 38.00	1.3
	1.3s	481.50nm		6.5mb	
IVA	84.70	347	iPc	21 37.63	0.6
FIR	84.74	353	iPc	21 38.00	0.9
TOUF	84.74	356	P	21 37.36	0.0
AUTN	84.75	356	P	21 37.53	0.0

SAOF	84.76	356	P	21 36.38	-0.9
IMI	84.82	356	P	21 37.21	-0.4
CRE	84.84	353	P	21 38.43	0.7
	1.2s	76.70nm		5.8mb	
HVAR	84.84	349	iP	21 37.30	-0.3
PII	84.85	354	P	21 37.61	0.0
	1.2s	199.40nm		6.2mb	
BRY	84.85	348	iPc	21 37.52	-0.4
MVIF	84.86	356	P	21 37.79	-0.1
AURF	84.87	356	P	21 38.18	0.3
NKY	84.88	347	iPc	21 37.87	-0.1
ARV	84.88	352	P	21 38.74	0.9
	1.3s	402.50nm		6.5mb	
SBF	84.88	356	P	21 38.29	0.4
PVY	84.96	347	iPc	21 38.55	0.2
EYL	85.03	339	iP	21 38.50	-0.3
EMON	85.10	7	iPc	21 38.81	-0.2
BCI	85.17	347	iP	21 42.40	3.1X
TTG	85.22	347	iPc	21 39.60	0.1
HCY	85.31	348	iPc	21 39.54	-0.4
ASS	85.33	352	P	21 40.47	0.3
	1.1s	170.40nm		6.2mb	
SKO	85.35	345	iP	21 40.70	0.5
	1.2s	280.00nm		6.3mb	
	Z 20s	1.66um		5.4Msz	
			iPP	24 59.00	
			LR	02 57.00	
BDV	85.42	347	iPc	21 40.02	-0.6
RDO	85.44	342	eP	21 41.00	0.4
STS	85.56	8	iPc	21 41.02	-0.2
SDA	85.56	347	eP	21 42.50	1.3
ALN	85.58	342	eP	21 42.36	1.0
LEM	85.59	253	iPc	21 41.50	-0.4
ELIZ	85.66	2	iPd	21 41.88	0.1
ULC	85.68	347	iPc	21 41.18	-0.7
VAY	85.80	344	iP	21 43.00	0.6
	1.3s	100.00nm		5.9mb	
SINI	85.81	253	ePd	21 42.20	-0.8
PACI	85.83	254	ePd	21 42.50	-0.5
ASPA	85.84	223	iPc	21 42.70	-0.1
	0.9s	96.70nm		6.0mb	
			i	21 53.00	32km
			iS	32 01.70	
KNT	85.90	344	eP	21 43.41	0.4
LACI	85.93	347	eP	21 43.00	-0.1
AQU	85.98	351	P	21 44.22	0.8
	1.1s	347.50nm		6.5mb	
MNS	86.01	352	P	21 42.11	-1.4
	1.1s	331.00nm		6.5mb	
PGF	86.12	355	P	21 44.49	0.3
SOH	86.15	344	eP	21 43.92	-0.4
ERUA	86.16	7	iPc	21 44.26	0.0
GRG	86.18	345	eP	21 44.20	-0.2
ECRI	86.19	3	iPc	21 44.70	0.2
TIR	86.19	346	eP	21 38.00	-6.4X
EZAM	86.28	8	iPc	21 44.74	-0.1
OHR	86.29	346	iP	21 42.50	-2.5
	1.6s	180.00nm		6.1mb	
FG2	86.34	350	P	21 45.68	0.5
	1.3s	385.70nm		6.5mb	
POO	86.35	295	iPd	21 48.70	3.1X
	1.1s	367.09nm		6.5mb	
FG3	86.36	349	P	21 42.29	-3.0X
OUR	86.51	343	eP	21 45.94	0.0
FNA	86.52	345	eP	21 45.86	-0.2
DUI	86.56	351	P	21 46.81	0.5
	1.2s	150.90nm		6.1mb	
SDI	86.58	351	P	21 46.15	-0.2
	1.3s	200.70nm		6.2mb	
EGRA	86.66	2	iPc	21 47.03	0.4
KBN	86.76	346	eP	21 45.00	-2.3
KZN	86.92	345	iPc	21 47.00	-1.1
FG4	86.97	350	P	21 42.08	-6.2X
	1.1s	32.70nm		5.5mb	
LIT	87.00	344	eP	21 47.72	-0.7
DVD	87.02	80	eP	21 50.80	2.0
TPE	87.20	346	eP	21 52.00	2.6
LSK	87.26	346	eP	21 48.90	-0.8
SGO	87.56	350	P	22 02.64	11.6X
SRN	87.61	346	eP	21 50.20	-1.1
KEK	87.81	346	eP	21 51.50	-0.8
IGT	87.90	346	eP	21 52.36	-0.4
ORI	87.91	349	P	21 45.36	-7.4X
	1.1s	434.90nm		6.7mb	
MGR	87.95	350	P	21 52.59	-0.3
	1.1s	401.50nm		6.6mb	
ETOR	87.99	3	iPc	21 53.01	-0.2

GUD	88.08	5	iPc	21 53.26	-0.5
GBA	88.19	290	Pc	21 53.00	-1.4
	1.0s	999.90nm		7.1mb X	
APR	88.36	62	P	21 56.50	1.3
LRS	88.43	62	P	21 56.00	0.4
MGP	88.52	63	P	21 56.60	0.6
EPLA	88.55	6	iPc	21 55.79	-0.1
PNP	88.70	62	P	21 57.40	0.5
CLLP	88.75	62	P	21 57.70	0.6
LPR	88.95	62	P	21 58.00	-0.1
RIV	89.14	205	iPc	21 59.50	1.1
	0.9s	3697.48nm		7.7mb X	
CPD	89.14	62	P	21 59.70	0.7
GRI	89.15	349	P	21 58.54	-0.2
	0.8s	150.60nm		6.4mb	
VLS	89.19	345	eP	21 58.40	-0.5
ECHE	89.25	2	iPd	21 59.54	0.3
GMB	89.86	349	P	22 01.10	-1.1
	1.1s	94.10nm		6.0mb	
SOI	89.93	349	P	22 01.58	-0.8
	0.9s	31.70nm		5.6mb	
EVIA	90.15	3	iPc	22 03.32	-0.2
STK	90.25	213	eP	22 03.60	0.0
	1.1s	47.70nm		5.7mb	
			ipP	22 14.60	35km
MBL	90.35	235	eP	22 03.50	-0.9
	1.0s	96.00nm		6.1mb	
BWA	90.46	207	iPc	22 05.10	0.5
			i	22 15.60	33km
			i	22 27.90	
EBAN	90.57	4	iPc	22 04.97	-0.4
EHOR	90.83	6	iPc	22 06.14	-0.4
EALH	90.96	3	iPc	22 07.12	0.0
EVAL	90.97	7	iPc	22 06.88	-0.3
EHUE	90.97	3	iPc	22 07.21	-0.1
CNB	91.03	206	iPd	22 08.70	1.5
	0.4s	12.00nm		5.6mb	
CAN	91.13	206	iPc	22 08.40	0.7
			i	22 18.70	
			ipP	22 29.60	77kmX
WARB	91.25	228	eP	22 09.00	0.6
	0.6s	13.00nm		5.5mb	
ECOG	91.46	4	iPd	22 09.13	-0.5
EPRU	91.68	6	iPc	22 10.46	-0.1
EGUA	91.90	4	iPc	22 11.08	-0.4
EJIF	92.18	6	iPc	22 12.71	-0.1
SDV	93.81	71	eP	22 21.10	0.3
AVE	95.17	8	iP	22 26.00	-0.6
MEEK	95.50	233	eP	22 27.60	-0.4
SVB	95.60	61	eP	22 28.82	0.0
TRN	97.67	62	eP	22 37.28	-0.9
TBH	97.99	62	eP	22 40.01	0.4
ARE	113.09	88	ePKP	27 55.00	13.7X
KDS	115.04	15	iPKP	27 43.80	-1.0
LPAZ	115.05	85	PKP	27 51.20	5.6X
LPB	115.25	85	PKP	27 41.90	-3.8X
CNCB	115.54	85	PKP	27 46.20	-0.2
MOCB	120.32	86	PKP	27 54.40	-0.9
KIC	122.09	8	ePKP	27 57.60	-0.6
BDFB	126.70	67	ePKPc	28 06.44	-0.8
			ePP	30 03.46	
			e	30 11.26	
BAO	126.70	67	ePKP	28 06.20	-1.1
			e	28 15.60	
			e	30 03.10	
			e	30 12.90	
BDF	126.78	67	ePKP	28 06.00	-1.4
	1.0s	1.30nm			
			i	28 16.30	
			i	28 28.00	
			e	30 04.00	
TCA	128.17	94	ePKPd	28 09.00	-0.6
MRA	128.21	96	ePKPc	28 08.40	-1.1
SBA	129.43	184	ePKP	28 09.80	-0.7
PPD	129.72	75	ePKP	28 11.70	-1.1
LSZ	138.14	320	ePKP	28 20.00	-9.0X
	1.0s	2.50nm			
SPA	141.32	180	iPKPc	28 26.60	-6.6X
	0.9s	86.36nm			
BUL	142.31	316	iPKPd	28 32.60	-3.8X
BFT	146.45	309	iPKPc	28 44.00	0.6
	0.8s	300.00nm			
MAW	146.82	218	iPKP	28 42.00	-0.3
	1.0s	275.00nm			
CRZF	147.29	259	ePKP	28 48.00	4.3X
SLR	147.32	312	iPKPc	28 43.60	-1.1
	0.8s	134.33nm			

```
     Z  20s      2.84um          6.1Msz
WIN   148.77 332 iPKPc 28 46.00  -1.1
       1.5s   384.00nm
SEK   149.82 310 iPKPd 28 45.50  -3.0X
BOSA  151.10 313 ePKP  28 51.66   1.5
                 iPKPbc28 56.54
                 e     29 07.35
                 esP'bc29 13.35
BLF   151.16 312 iPKPc 28 55.20   4.7X
       0.7s   544.00nm
FRS   152.10 312 iPKPd 28 58.00   6.4X
       0.7s   133.00nm
HVD   152.74 311 iPKPd 28 35.00 -17.8X
       1.5s    90.00nm
GRM   154.42 306 iPKPc 28 55.50   0.7
       1.0s   160.00nm
SUR   156.36 317 ePKP  29 13.50  15.8X
       1.0s   100.00nm
CER   157.85 318 iPKPd 28 54.00  -5.3X
       1.2s   220.00nm
SNA   161.03 176 iPKPd 29 00.40  -1.1
       1.0s    40.00nm
     S.D. = 1.0  on 450 of 495 obs.
-------------------------------------
?  OCT  29, 1993  04h 24m 44.88± 3.59s
   37.738 N ±26.9km   29.547 E ±23.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      ML 3.2 (ISK).

KHL     0.58 358 iPg   24 57.10   0.3
                 eSg   25 08.60
CIN     1.17 264 ePg   25 07.00   0.3
                 iSg   25 25.00
ALT     1.39  18 ePn   25 10.20  -0.1
IZM     1.92 291 ePn   25 17.50  -0.5
DST     2.00 339 ePn   25 19.00  -0.1
     S.D. = 0.5  on   5 of   5 obs.
-------------------------------------
?  OCT  29, 1993  04h 49m 24.24± 3.01s
   39.802 N ±12.5km   25.743 E ±24.2km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                          (365)
      ML 3.0 (ISK).

EZN     0.45  87 iPg   49 33.20  -0.2
MFT     1.53  50 ePn   49 51.50  -0.3
EDC     1.72  71 ePn   49 54.70   0.4
IZM     1.83 139 ePn   49 56.00  -0.1
DST     2.23  94 ePn   50 02.00   0.1
     S.D. = 0.4  on   5 of   5 obs.
-------------------------------------
?  OCT  29, 1993  05h 17m 19.96± 4.83s
   18.476 N ±23.2km  103.878 W ±38.9km
   DEPTH =  33.0km  (normal)
 NEAR COAST OF MICHOACAN, MEXICO ( 56)

CGX     1.28  18 iP    17 41.80   0.0
MRX     2.82  64 iP    18 03.70   0.0
                 iS    18 29.50
CRX     4.08  76 iP    18 23.00   1.1
                 (S)   19 13.00
ACX     4.15 112 (P)   18 22.80   0.1
                 (S)   19 15.20
III     4.19  91 iP    18 23.50   0.1
                 (S)   19 14.00
UNM     4.53  78 (P)   18 37.30   9.0X
PPM     5.01  82 (P)   18 34.00  -1.4
     S.D. = 1.0  on   6 of   7 obs.
-------------------------------------
?  OCT  29, 1993  05h 40m 52.57± 4.57s
   31.504 S ±34.2km   69.309 W ±43.8km
   DEPTH = 112.9 ± 26.2 km
 SAN JUAN PROVINCE, ARGENTINA        (137)

RTCB    0.44  88 ePd   41 09.50  -0.2
                 S     41 23.00
RTLL    0.74  77 iPc   41 11.70  -0.2
                 S     41 27.50
RTCV    0.75 119 eP    41 12.00   0.1
                 S     41 28.00
CFA     0.92  97 ePd   41 13.90   0.4
                 S     41 30.60
RTRS    1.34 354 eP    41 18.00   0.1
                 S     41 39.00
MRA     3.19 107 ePc   41 41.80  -0.1
     S.D. = 0.3  on   6 of   6 obs.
-------------------------------------
*  OCT  29, 1993  06h 08m 39.21± 1.09s
   36.444 N ± 9.2km   23.792 E ±10.0km
   DEPTH =  97.7 ± 21.1 km
 SOUTHERN GREECE                     (368)

VLI     0.74 292 eP    08 56.50  -0.5
VAM     1.09 162 eP    09 00.50  -0.2
ATH     1.53 358 eP    09 06.60   0.6
NPS     1.89 128 eP    09 11.00   0.2
VLS     3.08 305 eP    09 28.50   1.7
PAIG    3.48 359 eP    09 32.22   0.0
LIT     3.79 345 eP    09 37.46   0.9
IGT     4.12 319 eP    09 40.66  -0.4
KEK     4.54 317 eP    09 45.90  -0.9
GRG     4.63 347 eP    09 47.82  -0.4
SRS     4.67 358 eP    09 48.30  -0.3
FNA     4.73 337 eP    09 49.14  -0.3
KNT     4.76 352 eP    09 49.74  -0.2
     S.D. = 0.8  on  13 of  13 obs.
-------------------------------------
?  OCT  29, 1993  07h 09m 16.85± 2.65s
   17.538 S ±42.3km   69.781 W ±13.4km
   DEPTH = 160.0km  (geophysicist)
 PERU-BOLIVIA BORDER REGION          (118)

CNCB    1.86  68 iPd   09 52.20   0.2
                 S     10 17.20
LPB     1.89  58 Pd    09 52.80   0.6
                 S     10 19.00
LPAZ    2.01  52 P     09 53.20  -0.6
                 S     10 20.60
CCH     3.48  88 P     10 11.50  -0.2
NNA     8.78 308 iPc   11 21.70   0.0
       0.4s     8.47nm          4.7mb
     S.D. = 0.6  on   5 of   5 obs.
-------------------------------------
&  OCT  29, 1993  08h 18m 07.70s
   63.431 N          151.084 W
   DEPTH =  16.8km
 CENTRAL ALASKA                      (  1)
      <AEIC>. ML 3.7 (AEIC), 3.6
      (PMR).

KTH     0.14  31 iPc   18 11.75  -0.1
TRF     0.36  86 iPc   18 15.15  -0.2
HUR     0.80 124 iPd   18 22.54  -0.2
                 eS    18 33.00
RND     1.00  90 eP    18 26.25  -0.1
                 eS    18 39.34
MCK     1.01  72 eP    18 26.56   0.2
BWN     1.03  43 eP    18 28.09   1.3
CUT     1.10 160 iPd   18 27.73  -0.1
NEA     1.45  37 eP    18 32.42  -0.8
                 eS    18 53.67
SKT     1.47 188 eP    18 33.29  -0.2
                 eS    18 52.69
MLY     1.61   5 eP    18 35.21  -0.4
WRH     1.68  50 eP    18 36.11  -0.4
DHY     1.72 100 eP    18 37.50   0.3
PWA     1.87 162 P     18 39.00  -0.3
CCB     1.89  48 ePd   18 38.48  -1.0
GHO     1.94 148 eP    18 39.90  -0.5
MDM     1.98  38 eP    18 39.81  -1.0
SUA     1.98 175 eP    18 40.81  -0.2
PLRM    2.06 153 eP    18 41.80  -0.1
PMR     2.06 153 eP    18 41.57  -0.3
                 eS    19 12.66
FBA     2.06  43 eP    18 41.30  -0.7
SML     2.07 141 eP    18 41.63  -0.5
HDA     2.07  60 eP    18 41.53  -0.6
NCG     2.10 194 ePc   18 41.87  -0.8
CGLM    2.17 192 eP    18 43.12  -0.6
CRP     2.23 193 eP    18 43.84  -0.8
                 eS    19 12.94
CP2     2.24 194 eP    18 44.24  -0.6
GLM     2.25  44 eP    18 44.03  -0.7
BGL     2.26 196 eP    18 44.69  -0.3
IL1     2.28  52 eP    18 44.01  -1.2
ILB     2.28  52 eP    18 44.06  -1.1
                 eS    19 13.28
TTA     2.29 260 eP    18 42.03  -3.4
                 eS    19 17.79
CKT     2.30 194 eP    18 45.19  -0.3
                 eS    19 14.69
SPU     2.30 192 eP    18 45.22  -0.3
PMS     2.31 161 P     18 46.00   0.4
CKL     2.32 195 eP    18 46.04   0.2
SCM     2.36 131 eP    18 46.35   0.0
KNK     2.37 148 eP    18 46.32  -0.1
THY     2.40  88 eP    18 49.73   2.9
BKG     2.43 194 eP    18 46.97  -0.4
                 eS    19 19.36
DJE     2.48  74 eP    18 49.86   1.9
PAX     2.59  98 eP    18 50.16   0.5
TOA     2.62 118 P     18 50.50   0.4
SDG     2.69 107 eP    18 51.43   0.4
NKA     2.70 182 P     18 50.50  -0.6
CFI     2.74 144 eP    18 52.46   0.8
IM3     2.81 337 eP    18 51.75  -0.9
IMA     2.87 338 eP    18 51.77  -1.9
                 eS    19 36.70
PWL     2.89 152 P     18 54.50   0.7
DFR     2.95 196 eP    18 55.58   0.9
TZL     2.95 116 eP    18 55.97   1.3
SLKM    2.96 172 eP    18 54.72  -0.1
NCT     3.01 198 eP    18 55.89   0.3
REF     3.05 195 eP    18 57.56   1.3
RDW     3.07 196 eP    18 57.24   0.7
RS2     3.08 196 eP    18 57.91   1.2
RSO     3.08 196 eP    18 58.54   1.8
KLU     3.09 127 eP    18 56.96   0.3
RED     3.13 196 eP    18 58.62   1.4
DOT     3.15  83 eP    18 59.53   2.0
SVW     3.15 224 eP    18 56.07  -1.5
                 eS    19 43.63
VZW     3.19 136 eP    18 58.76   0.7
PRP     3.19  47 eP    18 57.26  -1.0
VLZ     3.20 134 eP    18 58.44   0.2
SEW     3.43 166 eP    19 04.07   2.7
FID     3.45 139 eP    19 02.17   0.4
ILIM    3.48 196 eP    19 04.19   2.0
INE     3.51 196 eP    19 03.97   1.2
TMW     3.64  88 eP    19 05.15   0.6
LTI     3.73 154 eP    19 04.21  -1.6
CVA     3.83 137 eP    19 07.84   0.7
CNPM    3.92 181 eP    19 09.30   0.9
GLB     3.93 117 eP    19 09.71   1.2
OPT     3.93 196 P     19 11.30   2.7
PDB     3.95 203 eP    19 09.57   0.8
SGAM    4.04 134 eP    19 10.52   0.4
BC3     4.22  91 eP    19 12.42  -0.3
RAGM    4.30 132 P     19 15.10   1.2
HMT     4.48 131 eP    19 17.75   1.4
CRQM    4.60 122 eP    19 18.67   0.4
MID     4.62 148 P     19 21.70   3.4
CDD     4.68 196 P     19 21.70   2.4
TGL     4.72 121 P     19 20.20   0.3
BALM    4.74 117 eP    19 20.31   0.1
BM3     4.83  31 eP    19 19.58  -1.8
WAX     4.90 124 eP    19 22.66   0.2
KDC     5.74 188 (P)   19 35.59   1.4
INK     8.68  48 eP    20 13.50  -1.7
       87 obs. associated
-------------------------------------
%  OCT  29, 1993  08h 33m 48.62± 0.46s
   44.314 N ± 4.9km    7.493 E ± 3.8km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                      (545)
      ML 1.8 (GEN).

ENR     0.10 211 P     33 51.26  -0.2
                 S     33 53.13
STV     0.14 240 P     33 52.04   0.0
                 S     33 54.51
ROB     0.27  94 P     33 54.64   0.3
                 S     33 57.98
PZZ     0.34 304 P     33 55.79   0.1
                 S     34 00.87
IMI     0.49 145 P     33 58.81   0.1
                 S     34 04.49
FIN     0.52 101 P     33 58.95  -0.3
BHB     0.55 343 P     33 59.59  -0.3
                 S     34 06.91
PCP     0.79  73 P     34 04.03   0.0
RRL     0.79 320 P     34 04.35   0.2
     S.D. = 0.2  on   9 of   9 obs.
-------------------------------------
   OCT  29, 1993  08h 53m 29.36± 0.66s
   26.369 S ± 6.1km   27.493 E ± 7.8km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA            (584)
      ML 3.0 (PRE). mbLg 2.8 (BUL).
```

29d 08h

```
KSR     0.73 313 eP    53 44.80   0.7
SLR     0.95  49 eP    53 48.50   0.5
                 S     54 00.90
SEK     1.95 177 eP    54 04.50   0.9
                 S     54 28.90
BFT     2.39  74 eP    54 10.10   0.0
                 S     54 39.00
BLF     2.96 203 iPc   54 17.50  -0.6
                 S     54 51.50
FRS     3.88 209 eP    54 30.50  -0.4
BUL     6.28  10 ePn   55 04.00  -1.1
                 iSg   56 44.00
SUR     8.36 223 eP    55 30.80  -3.4X
     S.D. = 0.9  on   7 of   8 obs.
-----------------------------------
&  OCT  29, 1993  09h 11m 33.00s
   33.190 N          115.608 W
   DEPTH =   6.0km
 SOUTHERN CALIFORNIA                ( 43)
      <PAS-P>. ML 3.2 (PAS), 3.2 (GS).

GLA     0.67 102 ePd   11 46.78   0.3
PLM     1.06 279 ePd   11 53.23  -0.3
PEC     1.47 299 eP    11 59.05  -1.1
SSK     2.01 301 eP    12 06.96  -1.1
                 eS    12 34.43
GSC     2.33 335 ePn   12 11.82  -0.7
                 ePg   12 18.35
ISA     3.42 317 ePn   12 26.05  -2.0
                 ePg   12 38.59
ABL     3.43 300 ePn   12 28.02  -0.2
TPNV    3.79 352 ePn   12 31.76  -1.6
                 ePg   12 46.70
BCH     4.21 299 (Pn)  12 39.20   0.0
ARUT    4.92  20 (Pn)  12 48.36  -1.0
                 ePg   13 05.85
TNP     5.05 345 (Pn)  12 52.54   1.2
                 ePg   13 09.78
MEMM    5.23 330 ePn   12 51.74  -1.8
BONR    5.24 336 (Pn)  12 52.63  -1.4
                 ePg   13 13.50
MSU     6.00  27 (Pn)  13 05.11   0.4
SRU     7.20  33 (P)   13 19.16  -2.3
PV10    7.43  44 (Pn)  13 23.66  -1.2
                 ePg   13 50.12
PV09    7.46  43 (Pn)  13 26.23   0.9
PV08    7.80  44 (Pn)  13 32.14   2.1
                 ePg   13 59.89
       18 obs. associated
-----------------------------------
   OCT  29, 1993  09h 22m 13.67± 0.12s
    5.631 S ± 2.2km  145.923 E ± 2.8km
   DEPTH =  10.0km  (geophysicist)
   5.4mb ( 57 obs.)  4.9Msz ( 16 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
      Mw 5.3 (HRV).
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 38S, 59C
      Centroid Location:
      Origin Time       09:22:20.6 0.4
      Lat  5.89S 0.05 Lon 146.26E 0.05
      Dep  15.0 FIX Half-duration  1.2
      Moment Tensor;   Scale 10**16 Nm
        Mrr= 8.46 0.32  Mtt=-5.70 0.34
        Mff=-2.76 0.47  Mrt= 2.13 1.36
        Mrf=-4.24 0.94  Mtf= 4.45 0.33
       Principal Axes:
        T  Val=  9.91  Plg=72  Azm= 82
        N        0.00      12      312
        P       -9.90      13      219
      Best Double Couple:Mo=9.9*10**16
       NP1:Strike=293 Dip=33 Slip=  68
       NP2:        139     59      104

MDG     0.40 339 iPd   22 26.30   4.4X
YYYY    0.61 176 iPc   22 26.70   0.7
LAT     1.49 134 eP    22 41.90   1.5
MNDI    2.31 257 eP    22 00.00 -52.6X
WWKK    3.04 311 eP    23 09.60   6.9X
PMG     3.95 162 eP    23 16.40   0.8
KVG     5.74  58 eP    23 42.50   1.5
RAB     6.38  77 eP    23 52.00   1.9
                 iS    25 16.00
CTA    14.37 179 P     25 42.29   3.0X
HNR    14.41 106 eP    25 41.00   1.3
                 eS    28 35.00
```

```
SLKI   14.71 260 ePc   25 46.00   2.3
QIS    16.06 202 eP    26 01.30   0.1
MTN    16.26 243 iPc   26 05.00   1.2
        0.7s   665.00nm          5.9mb
WR2    18.14 217 eP    26 27.20  -0.2
        0.9s   121.10nm          5.0mb
                 eS    29 42.70
WRA    18.15 217 P     26 27.88   0.3
GUA    19.07 357 eP    26 39.80   0.9
        1.3s   538.46nm          5.6mb
GUMO   19.12 357 eP    26 40.10   0.6
        1.3s   372.10nm          5.5mb
                 eS    30 20.20
KNA    19.61 238 eP    26 45.00  -0.3
        1.0s   310.00nm          5.6mb
ASPA   21.34 212 P     27 01.80  -1.6
        1.2s   107.60nm          5.1mb
MNI    22.20 288 eP    27 13.00   1.1
DAV    23.91 302 eP    27 34.00   5.3X
BKM    24.88 121 iPc   27 38.50   0.4
PVC    24.97 121 iPc   27 39.50   0.5
DZM    25.71 131 iPc   27 44.00  -2.0
MKS    26.34 270 iPc   27 56.20   4.4X
STK    26.43 188 iPc   27 51.60  -0.9
        0.8s    39.30nm          5.2mb
                 eS    37 04.80
WARB   27.51 220 eP    28 02.00  -0.5
        0.7s    85.00nm          5.6mb
BWA    28.74 176 eP    28 13.30  -0.2
                 ipP   28 17.80  16kmX
MBL    29.63 236 eP    28 20.70  -0.9
        0.6s    17.00nm          5.0mb
CAN    29.68 175 iPc   28 21.40  -0.6
                 ipP   28 27.30  20kmX
CNB    29.71 174 iPd   28 22.10  -0.2
        0.9s    21.00nm          5.0mb
ADE    29.94 192 iPc   28 23.40  -0.9
FORT   30.13 212 eP    28 25.00  -1.0
TOO    31.79 181 iPc   28 40.30  -0.3
        1.0s   225.00nm          6.0mb
BAG    33.29 312 eP    28 55.40   1.4
MEEK   33.39 228 iPd   28 54.00  -0.6
        0.6s    39.00nm          5.5mb
COOL   34.24 220 eP    29 01.10  -0.9
        0.8s    47.00nm          5.5mb
MRWA   36.74 227 eP    29 23.60   0.4
KLB    36.91 222 eP    29 25.00   0.4
BAL    37.03 224 eP    29 26.00   0.4
                 e     31 46.00
LEM    38.09 266 ePc   29 35.50   0.6
NWAO   38.09 221 eP    29 35.00   0.5
MUN    38.19 223 eP    29 35.50   0.2
OUZ    38.96 143 P     29 43.10   1.4
RKG    39.29 219 eP    29 45.00   0.5
WKYJ   40.82 347 eP    29 57.60   0.4
WKYJ   40.82 347 P     29 58.00   0.8
TKSJ   40.97 345 eP    29 59.00   0.7
TKSJ   40.97 345 P     29 59.20   0.9
IIDJ   41.58 350 P     30 02.90  -0.5
MOZ    41.91 145 eP    30 07.30   1.3
WLZ    41.93 144 P     30 07.40   1.2
CHJJ   41.97 352 P     30 06.90   0.4
TSRJ   42.00 348 P     30 07.30   0.6
YONJ   42.26 345 P     30 09.30   0.4
QRZ    42.38 150 eP    30 11.20   1.4
AFI    42.43 104 P     30 11.50   0.8
MAT    42.57 351 eP    30 11.00  -0.4
        1.4s    83.72nm          5.3mb
     Z  20s     0.35um          4.3Msz
                 eS    36 44.00
MTMJ   42.68 350 P     30 12.60   0.2
NGZ    42.83 146 P     30 15.20   1.5
DIW    43.07 149 P     30 17.60   2.1
URZ    43.08 143 eP    30 14.20  -1.4
NIIJ   43.13 352 P     30 16.40   0.4
QIZ    43.17 305 eP    30 22.60   6.0X
KGM    43.22 279 ePc   30 18.00   0.9
WVZ    43.26 153 eP    30 16.20  -0.8
THZ    43.26 150 eP    30 17.20   0.1
HBZ    43.38 142 eP    30 18.20   0.2
MSZ    43.39 157 P     30 19.10   1.1
PAHZ   43.45 144 eP    30 19.50   0.9
SSE    43.50 329 Pd    30 20.00   0.9
        1.0s    25.00nm          4.9mb
     Z  20s     0.90um          4.7Msz
TCW    43.55 149 P     30 19.50   0.2
WAHZ   43.61 145 P     30 20.10   0.2
```

```
KIW    43.63 148 P     30 19.90  -0.1
PUZ    43.65 142 P     30 20.20  -0.1
LTZ    43.73 152 P     30 20.70  -0.2
MNG    43.76 147 P     30 21.10   0.0
MRW    43.79 148 P     30 21.00  -0.3
SNZO   43.84 148 P     30 21.80   0.1
NOZ    43.87 143 P     30 21.90   0.0
CAW    43.89 148 P     30 21.60  -0.5
BWZ    44.06 155 P     30 23.30  -0.1
MTW    44.16 148 P     30 23.90  -0.4
PGZ    44.19 147 P     30 24.70   0.1
BLW    44.29 148 P     30 24.70  -0.7
TUZ    45.13 157 P     30 31.80  -0.2
                 e     31 07.20
NJ2    45.49 327 Pd    30 36.00   1.0
        1.2s    36.00nm          5.2mb
     Z  24s     0.50um          4.4MszX
IPM    45.97 282 ePd   30 40.20   1.0
        0.9s    41.90nm          5.4mb
WHN    46.98 322 Pd    30 48.50   1.6
        1.0s    30.00nm          5.3mb
HOOJ   47.85 357 eP    30 53.70   0.2
MRRJ   48.03 355 eP    30 55.40   0.5
KUSJ   48.51 359 eP    30 58.90   0.3
TIA    49.61 329 eP    31 06.80  -0.4
GYA    49.64 312 P     31 09.40   1.6
        1.2s    36.00nm          5.2mb
NST    50.03 296 eP    31 11.00   0.2
SNY    51.45 339 eP    31 20.20  -1.0
     Z  28s     1.26um          4.8MszX
KMI    51.93 308 Pd    31 26.50   1.1
        1.5s    70.00nm          5.4mb
     Z  23s     1.50um          5.0MszX
                 pP    31 37.00  36kmX
                 sP    31 41.00
MDJ    52.13 345 Pd    31 26.30   0.0
        1.0s    25.00nm          5.1mb
CHTO   52.27 299 ePc   31 28.00   0.2
        1.0s    22.50nm          5.1mb
CN2    52.56 341 eP    31 30.00   0.4
        1.0s    17.00nm          4.9mb
     Z  16s     0.41um          4.6MszX
                 esP   31 41.00
XAN    52.72 321 P     31 30.00  -1.0
        1.0s    36.00nm          5.3mb
     Z  20s     0.61um          4.6Msz
                 pP    31 41.00  38kmX
BJI    53.06 332 eP    31 33.00  -0.3
        1.5s    28.00nm          5.0mb
     Z  24s     0.96um          4.8MszX
                 sP    31 50.50
                 PcP   32 19.00
                 eS    32 32.00
TIY    53.21 327 eP    31 34.00  -0.6
     Z  16s     0.95um          4.9MszX
CD2    54.25 315 iPc   31 42.00  -0.3
        1.2s    66.00nm          5.5mb
     Z  20s     0.94um          4.9Msz
HHC    55.96 329 P     31 54.80   0.2
        1.2s    26.00nm          5.1mb
BTO    56.59 328 eP    31 59.00  -0.2
LZH    57.24 320 Pc    32 03.50  -0.4
        1.6s    84.00nm          5.5mb
     Z  24s     0.54um          4.6MszX
     E  18s     0.40um
                 eS    40 06.00
DRV    61.07 183 iP    32 29.50  -0.2
                 S     41 20.00
HON    61.14  62 P     32 40.00   9.0X
     Z  20s     0.61um          4.7Msz
GTA    61.78 321 eP    32 34.50  -0.7
        1.5s    35.00nm          5.3mb
     Z  21s     0.70um          4.8Msz
LSA    63.16 307 P     32 46.00   1.0
        1.0s    18.00nm          5.2mb
CIT    63.68 338 eP    32 48.00   0.5
AFR    63.83 107 iPc   32 48.80  -0.2
        1.2s   216.00nm          6.2mb
PAE    64.03 107 iPc   32 50.20   0.0
        1.0s    65.60nm          5.8mb
PPT    64.03 107 iPc   32 50.10  -0.2
        1.1s   101.60nm          5.9mb
     Z  27s   575.00um          7.6MszX
TVO    64.34 107 iPc   32 52.30  -0.1
        1.4s   335.50nm          6.3mb
CSY    65.34 195 eP    33 06.80   8.8X
        0.8s    83.30nm          6.0mb
```

```
ADK     65.57  24 eP     32 59.89   0.3
        1.3s    42.45nm          5.5mb
PMO     65.58 104 iPc    33 00.20  -0.1
        1.5s   605.90nm          6.6mb X
VAH     65.84 104 iPc    33 01.80  -0.1
        1.6s   263.70nm          6.2mb
TPT     65.84 104 iPc    33 01.90  -0.1
        1.5s   337.40nm          6.3mb
RUV     66.07 104 iPc    33 03.50   0.0
        1.7s   480.80nm          6.4mb
GUN     66.77 303 P      33 08.20  -0.1
ZAK     66.81 332 iPc    33 07.00  -0.5
        1.1s    64.00nm          5.7mb
PKI     67.05 303 P      33 09.40  -0.6
KKN     67.23 303 P      33 10.70  -0.3
DMN     67.31 303 P      33 11.40  -0.2
GKN     67.84 303 P      33 14.70  -0.1
YAK     68.60 352 iPc    33 17.80  -0.8
        1.4s   100.00nm          5.8mb
                eS       42 22.00
HYB     70.33 291 eP     33 29.00  -1.1
GBA     70.60 286 P      33 31.10  -0.6
        0.5s     7.00nm          5.0mb
SBA     73.00 175 eP     33 35.00 -10.0X
NDI     74.27 302 iPc    33 51.50  -1.8
        0.8s    44.78nm          5.5mb
POO     74.94 291 eP     34 00.50   3.2X
SDN     75.08  28 eP     33 57.02  -0.3
        0.8s   123.15nm          6.0mb
ILT     77.48  13 iPc    34 10.00  -0.6
        1.1s   100.00nm          5.8mb
TIK     77.93 355 eP     34 11.00  -2.0
        1.2s    20.00nm          5.1mb
                e        34 30.00
KSH     78.31 312 eP     34 17.40   1.4
      Z  24s     0.67um          4.9MszX
ANM     78.71  19 eP     34 14.67  -2.9X
FRU     80.29 315 eP     34 27.00   0.5
        2.0s    70.00nm          5.3mb
SVW     80.35  25 ePc    34 26.91   0.4
        1.2s   217.40nm          6.0mb
MAW     82.17 203 P      34 35.50  -0.3
        0.6s    17.65nm          5.3mb
QUE     83.34 301 eP     34 44.60   1.7
PMR     83.34  26 ePc    34 40.77  -1.2
        0.6s    22.15nm          5.5mb
IMA     83.60  21 eP     34 41.75  -1.6
        1.0s    27.29nm          5.4mb
SPA     84.40 180 iPc    34 46.60  -0.9
        0.7s    42.97nm          5.8mb
NRI     84.47 342 ePc    34 45.00  -2.5X
        1.1s    28.00nm          5.4mb
KLU     84.71  27 eP     34 48.09  -0.9
TOA     84.83  26 eP     34 49.70   0.1
FBA     85.26  23 eP     34 49.81  -1.8
        0.8s    40.28nm          5.7mb
MAIO    90.42 306 eP     35 17.00  -0.1
INK     91.71  22 eP     35 21.50  -0.7
        1.0s     5.00nm          4.8mb
NTYM    94.57  52 eP     35 34.24  -1.7
LGPM    94.59  49 eP     35 36.55   0.3
WDC     94.79  50 P      35 50.00  13.0X
      Z  19s     0.56um          5.0Msz
GMW     94.98  43 eP     35 37.95   0.2
COE     95.28  53 (P)    35 39.15  -0.2
SAO     95.44  54 P      35 50.00   9.9X
      Z  18s     0.38um          4.9Msz
ORV     95.53  51 eP     35 39.78  -0.7
LON     95.62  44 (P)    35 40.48  -0.3
RMW     95.65  43 eP     35 41.60   0.7
CMB     96.34  52 P      35 50.00   5.8X
      Z  19s     0.44um          5.0Msz
BCH     96.47  55 eP     35 44.72  -0.2
MBC     96.56  14 eP     35 44.00  -0.4
        1.0s     3.00nm          4.8mb
ISA     97.80  55 P      36 00.00   9.1X
      Z  20s     0.55um          5.0Msz
NEW     98.81  42 eP     35 55.76   0.7
        0.8s     9.00nm          5.5mb
DUG    102.21  50 Pdiff 36 20.00   9.2X
      Z  20s     0.38um          4.9Msz
ALQ    107.64  55 PKP    40 50.00   6.6X
      Z  19s     0.47um          5.1Msz
BUL    113.31 245 iPKPc 40 54.70   0.2
        1.0s    15.00nm
WMOK   113.92  55 PKP    41 00.00   4.8X
      Z  20s     0.34um          5.0Msz
```

```
LSZ    114.93 250 iPKPd 40 58.00   0.3
BRG    119.81 327 ePKP  41 04.40  -1.4
CLL    120.08 328 e(PKP)41 00.00  -6.3X
GEC2   121.00 325 PKP   41 06.40  -1.9
         0.8s     1.63nm
GEC2   121.00 325 PKP   41 09.00   0.7
                  e     41 21.40
GRF    121.92 327 ePKP  41 08.00  -1.9
      Z  22s     0.30um          4.9Msz
EKA    124.60 339 PKP   41 14.10  -0.7
         1.3s     8.00nm
MYNC   125.45  51 PKP   41 30.00  12.8X
      Z  19s     0.33um          5.0Msz
BINY   127.99  39 PKP   41 30.00   8.1X
      Z  21s     0.47um          5.1Msz
RTCB   130.40 140 iPKPd 41 27.00   0.1
CFA    130.68 141 e(PKP)41 26.80  -0.5
RTLL   130.72 140 ePKPd 41 26.70  -0.7
TCA    133.09 143 ePKPd 41 31.50  -0.5
YJA    138.65 133 e(PKP)41 32.50 -10.7X
MOCB   139.11 132 PKP   41 33.00 -11.0X
CNCB   139.74 124 PKP   41 37.00  -8.4X
LPB    139.79 124 PKP   41 37.60  -7.7X
LPAZ   139.88 123 PKP   41 36.60  -9.1X
CCH    140.94 126 PKP   41 42.00  -5.2X
SDV    143.60  83 ePKP  41 48.20  -3.6X
TOV    144.38  81 ePKP  41 51.10  -1.9
MGP    145.50  66 PKP   41 52.40  -2.2
LRS    145.64  66 PKP   41 52.70  -2.2
PNP    145.86  66 PKP   41 53.30  -2.0
CLLP   145.95  66 PKP   41 53.80  -1.6
LPR    146.52  65 PKP   41 55.50  -0.9
CPD    146.56  66 PKP   41 56.00  -0.4
RSTA   146.56 155 ePKP  41 57.10   0.8
OLLA   147.30  80 iPKP  41 59.10   1.3
PPD    147.74 149 ePKP  42 00.20   2.0
VAO    148.88 157 ePKP  42 01.10   1.0
AGVB   150.20 148 ePKP  42 07.00   4.9X
                  e     42 12.90
                  e     42 36.50
                  e     43 51.90
KIC    150.82 273 PKPc  42 09.60   6.4X
TIC    151.09 274 PKPc  42 10.30   6.7X
LIC    151.10 273 PKPc  42 10.10   6.5X
LKO    151.50 280 PKP   42 09.94   5.7X
         0.9s    52.50nm
BDFB   154.76 147 ePKP  42 08.55  -0.2
                  iPKPbc42 17.57
      S.D. = 0.9  on 172 of 207 obs.
-----------------------------------
?  OCT  29, 1993  09h 42m 04.68± 1.13s
   39.070 N ±10.1km   27.867 E ±12.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.8 (ISK).

DST      0.80  48 ePg   42 20.50   0.3
                  eSg   42 32.50
IZM      0.82 215 ePg   42 20.40  -0.2
                  eSg   42 33.00
EDC      1.27 360 ePn   42 27.70  -0.6
EZN      1.41 303 ePn   42 30.90   0.5
      S.D. = 0.9  on   4 of   4 obs.
-----------------------------------
?  OCT  29, 1993  09h 54m 18.53±24.62s
   40.595 N ±168.km   22.935 E ±59.6km
   DEPTH =  10.0km  (geophysicist)
 GREECE                            (364)
      ML 1.7 (THE).

THE      0.04  31 ePg   54 20.98   0.4
                  eSg   54 21.90
SOH      0.39  54 ePg   54 26.50   0.0
                  eSg   54 32.22
KNT      0.57 357 ePg   54 30.50   0.5
                  eSg   54 38.86
SRS      0.72  43 ePg   54 33.70   1.0
                  eSg   54 44.50
      S.D. = 0.7  on   4 of   4 obs.
-----------------------------------
   OCT  29, 1993  10h 06m 08.29± 0.58s
   40.718 S ± 4.5km  174.231 E ± 5.2km
   DEPTH =  96.2 ± 10.1 km
 COOK STRAIT, NEW ZEALAND          (163)

DIW      0.25 250 Pc    06 20.40  -1.7
TCW      0.50 176 P     06 23.40  -0.4
```

```
KIW      0.54 106 P     06 23.50  -0.7
MRW      0.63 145 P     06 24.90   0.0
                  eS    06 35.60
WEL      0.70 145 P     06 25.70   0.2
                  eS    06 36.30
CAW      0.74 122 Pd    06 25.90  -0.1
MNG      0.96  84 Pd    06 28.20   0.0
                  S     06 41.50
CCW      1.03 181 P     06 31.20   2.2
MTW      1.06 115 P     06 29.30  -0.1
BSZ      1.06  30 Pc    06 29.70   0.3
BLW      1.14 125 P     06 30.50   0.1
QRZ      1.30 265 P     06 31.90  -0.3
                  S     06 47.90
AMW      1.30 118 P     06 32.40   0.2
NRZ      1.40 350 P     06 33.60   0.2
THZ      1.45 223 P     06 35.40   1.3
                  S     06 54.90
CNZ      1.82  34 P     06 39.80   0.8
NGZ      1.86  35 eP    06 40.20   0.6
WAHZ     1.92  59 P     06 39.80  -0.4
DSZ      2.10 240 P     06 43.30   0.7
TEHZ     2.10  71 P     06 43.30   0.7
MOZ      2.25  11 P     06 44.70   0.1
                  S     07 10.20
LTZ      2.53 215 P     06 49.00   0.6
WLZ      3.04  21 eP    06 56.20   1.0
MQZ      3.21 201 P     06 56.30  -1.3
                  S     07 30.40
URZ      3.31  43 P     06 57.00  -2.0
WVZ      3.51 227 eP    07 01.60  -0.2
KUZ      4.13  17 P     07 10.00  -0.3
ODZ      5.06 210 P     07 21.90  -1.3
      S.D. = 0.9  on  28 of  28 obs.
-----------------------------------
?  OCT  29, 1993  10h 20m 41.09± 0.94s
   39.142 N ± 8.0km   27.592 E ± 9.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 2.7 (ISK).

IZM      0.79 199 ePg   20 56.40   0.0
                  eSg   21 08.90
DST      0.93  60 iPn   20 58.90   0.1
EZN      1.19 305 iPn   21 03.40   0.1
EDC      1.22  10 ePn   21 03.70  -0.1
      S.D. = 0.1  on   4 of   4 obs.
-----------------------------------
*  OCT  29, 1993  11h 11m 11.56± 2.23s
   31.739 S ±11.6km   71.806 W ±19.5km
   DEPTH =  10.5 ±  3.9 km
 NEAR COAST OF CENTRAL CHILE       (135)
      MD 4.1 (SAN).

JACH     1.39 133 iP+   11 36.55  -0.5
                  iS    11 55.01
ROCH     1.40 152 iP    11 37.41   0.1
                  iS    11 56.83
PEL      1.69 146 iP+   11 41.56   0.3
                  iS    12 03.31
LCCH     1.74 173 iP    11 42.27   0.3
                  iS    12 04.03
TACH     2.04 159 iP    11 46.75   0.4
PCH      2.17 150 iP    11 48.57   0.3
LNV      2.23 172 iP    11 48.41  -0.7
RTRS     2.55  53 eP    11 54.00   0.5
                  S     12 25.00
RTCB     2.58  85 ePc   11 54.00  -0.1
                  S     12 05.70
RTCV     2.79  93 e(P)  11 58.00   1.0
                  (S)   12 35.00
RTLL     2.88  83 eP    11 57.00  -1.3
                  S     12 10.00
CFA      3.04  88 e(P)  12 01.00   0.4
                  S     12 41.00
MRA      5.22  99 e(P)  11 33.00 -58.4X
TCA      6.17  88 e(P)  12 36.00  -9.0X
      S.D. = 0.7  on  12 of  14 obs.
-----------------------------------
?  OCT  29, 1993  11h 30m 13.19±11.21s
   43.924 N ±33.1km    7.087 E ±72.5km
   DEPTH =  10.0km  (geophysicist)
 NEAR SOUTH COAST OF FRANCE        (379)
      ML 1.1 (STR).

MVIF     0.05 120 Pg    30 15.73   0.2
AURF     0.18 102 Pg    30 17.04  -0.2
```

29d 11h

```
                 Sg    30 19.48
AUTN    0.26  74 Pg    30 18.44  -0.3
                 Sg    30 22.10
SAOF    0.34  79 Pg    30 20.73   0.4
     S.D. = 0.6  on   4 of   4 obs.
-----------------------------------
   OCT  29, 1993  11h 53m 33.02± 0.16s
   38.163 N ± 1.8km  118.197 W ± 1.5km
   DEPTH =   5.0km  (geophysicist)
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      ML 4.0 (GS), 4.1 (BRK). MD 3.8
      (GM). Felt (IV) at Mina and
      (III) at Luning, Nevada.

BONR    0.22 202 iPd   53 38.53   0.9
MRCM    0.55 207 iPd   53 44.09   0.1
CWCR    0.67 187 P     53 46.70   0.2
MCSM    0.75 228 P     53 48.11  -0.2
MEMM    0.77 230 iPd   53 48.26  -0.1
TNP     0.78  96 eP    53 48.70   0.0
MMPM    0.86 230 iPd   53 49.76  -0.5
MTUM    0.86 200 iPd   53 49.90  -0.3
KVN     0.89   5 eP    53 50.87   0.2
FRI     1.68 226 iP    54 03.50   0.4
CMB     1.73 266 iPc   54 03.59  -0.4
                 eS    54 26.71
MSTM    1.76 262 P     54 04.19  -0.2
MOYM    1.89 263 P     54 06.17  -0.1
TPNV    1.97 127 ePnc  54 07.30  -0.2
                 ePg   54 09.91
                 eS    54 39.33
ASMM    2.06 289 P     54 08.92   0.1
ADWM    2.10 278 P     54 09.31   0.0
ALAM    2.21 281 P     54 10.82   0.0
AFHM    2.21 294 P     54 11.10   0.1
ARJM    2.23 284 P     54 11.28   0.1
RCWM    2.25 169 P     54 15.19   3.6X
AASM    2.31 278 P     54 12.72   0.5
AFDM    2.31 291 P     54 12.11  -0.3
NMC     2.33 174 P     54 17.46   4.8X
ARRM    2.41 285 P     54 17.86   4.1X
BRMM    2.47 238 P     54 19.79   5.1X
AARM    2.48 298 P     54 19.46   4.7X
ISA     2.50 185 ePn   54 15.63   0.5
                 ePg   54 19.23
                 eS    54 50.83
AFRM    2.55 285 P     54 20.50   4.8X
WSHM    2.59 167 P     54 16.78   0.5
PKEM    2.59 217 (P)   54 16.22  -0.1
WOFM    2.65 189 P     54 21.97   4.6X
PCL     2.69 247 P     54 22.23   4.4X
ABRM    2.75 292 P     54 23.70   5.1X
ARN     2.77 254 eP    54 18.74  -0.1
                 eS    54 59.39
GHS     2.79 249 P     54 23.82   4.6X
KPK     2.81 301 P     54 24.85   5.3X
CDAL    2.82 262 P     54 24.95   5.3X
HSPM    2.83 249 P     54 24.61   4.7X
PSMM    2.83 223 P     54 23.69   3.8X
HMR     2.84 271 (Pn)  54 21.17   1.3
MHC     2.85 254 eP    54 20.19   0.0
OWYM    2.87 298 P     54 25.59   5.2X
COE     2.90 253 (P)   54 21.62   0.9
PHAM    2.92 218 ePn   54 23.33   2.4X
ORV     2.93 299 ePc   54 20.42  -0.7
                 eS    55 03.97
MHR     2.93 255 P     54 27.38   6.2X
SAO     2.94 243 ePn   54 21.37   0.1
LRC     2.97 231 P     54 26.06   4.4X
FRP     2.97 243 P     54 26.53   4.7X
PTRM    2.98 213 P     54 25.46   3.6X
BMTC    3.04 186 P     54 28.67   5.9X
OGOM    3.05 300 P     54 23.20   0.4
OSUM    3.07 292 P     54 30.68   7.7X
GSC     3.07 158 ePn   54 22.62  -0.5
                 ePg   54 31.18
MGL     3.09 303 P     54 23.63   0.1
CPIM    3.17 268 P     54 30.64   6.1X
CVPM    3.19 266 P     54 31.81   7.0X
JRGM    3.20 251 P     54 35.60  10.7X
BKS     3.20 266 eP    54 24.70  -0.3
BCH     3.34 208 ePn   54 26.79  -0.2
AGC     3.36 266 P     54 33.27   6.1X
PCC     3.38 260 iP    54 31.14   3.7X
NMTM    3.40 282 P     54 33.27   5.5X
ABL     3.41 194 (Pn)  54 27.92  -0.2
LRDM    3.42 313 P     54 36.70   8.6X
MIN     3.43 311 eP    54 29.34   1.0
NTYM    3.52 275 ePn   54 28.75  -0.7
LMEM    3.53 313 (Pn)  54 29.78   0.0
GRTM    3.59 284 P     54 37.84   7.3X
GCRM    3.60 281 P     54 36.45   5.8X
GAXM    3.62 280 P     54 36.52   5.6X
NCFM    3.62 274 P     54 36.74   5.8X
GACM    3.73 282 P     54 41.54   9.0X
ARUT    3.78  94 ePn   54 32.46  -0.9
                 ePg   54 44.54
GHLM    3.88 285 P     54 41.27   6.6X
SSK     3.97 174 ePn   54 36.42   0.4
WDC     4.14 307 ePn   54 37.20  -1.1
LBFM    4.27 319 ePn   54 40.95   0.6
PEC     4.34 169 ePn   54 40.31  -1.0
LGPM    4.51 309 ePn   54 42.49  -1.2
DUG     4.65  62 (Pn)  54 51.24   5.5X
MSU     4.75  84 ePn   54 47.16  -0.1
                 ePg   55 02.41
PLM     4.92 167 (Pn)  54 49.58   0.0
HVU     5.51  47 (Pn)  54 59.02   1.1
GLA     5.79 151 ePn   55 01.86   0.1
DAU     5.83  65 (Pn)  55 01.38  -1.2
EMUT    5.98  72 ePn   55 04.91   0.3
SRU     6.08  79 ePn   55 06.80   0.8
PV09    7.13  85 ePn   55 21.49   0.6
                 ePg   55 45.70
PV10    7.21  85 ePn   55 21.99   0.1
                 ePg   55 46.91
PV08    7.52  84 (Pn)  55 25.88  -0.4
                 ePg   55 51.94
LRM     8.77  27 eP    56 16.70  33.1X
     S.D. = 0.6  on  55 of  92 obs.
-----------------------------------
   OCT  29, 1993  12h 12m 18.25± 0.50s
   40.626 N ± 4.1km   22.506 E ± 3.9km
   DEPTH =   5.0km  (geophysicist)
 GREECE                          (364)
      ML 2.3 (THE).

GRG     0.34 347 ePg   12 25.04  -0.1
                 eSg   12 30.92
THE     0.35  89 ePg   12 25.78   0.5
                 eSg   12 32.16
LIT     0.53 181 ePg   12 27.96  -0.8
                 eSg   12 36.68
KNT     0.61  29 ePg   12 30.50   0.0
                 eSg   12 39.48
SOH     0.67  73 ePg   12 31.94   0.2
                 eSg   12 42.96
VAY     0.70   4 iPn   12 31.50  -0.7
FNA     0.87 281 ePg   12 35.96   0.4
                 eSg   12 47.40
SRS     0.96  59 ePg   12 36.32  -0.6
                 eSg   12 52.16
PAIG    1.14 127 ePg   12 39.92  -0.1
                 eSg   12 56.28
OUR     1.16 104 ePb   12 41.08   0.7
                 eSb   12 57.04
OHR     1.38 291 ePn   12 44.70   0.5
SKO     1.57 329 ePn   12 50.50   3.7X
     S.D. = 0.6  on  11 of  12 obs.
-----------------------------------
%  OCT  29, 1993  12h 23m 13.74± 0.97s
   40.618 N ± 4.9km   22.438 E ± 7.9km
   DEPTH =   5.0km  (geophysicist)
 GREECE                          (364)
      ML 1.9 (THE).

GRG     0.34 355 ePg   23 20.85   0.3
                 eSg   23 26.98
THE     0.40  88 ePg   23 21.82   0.0
                 eSg   23 28.14
LIT     0.52 176 ePg   23 24.06  -0.1
                 eSg   23 32.66
KNT     0.65  33 ePg   23 26.46  -0.2
                 eSg   23 34.53
VAY     0.71   8 ePn   23 27.60  -0.3
SOH     0.73  73 ePg   23 27.94  -0.3
                 eSg   23 39.10
SRS     1.01  60 ePg   23 33.90   0.6
                 eSg   23 49.02
     S.D. = 0.4  on   7 of   7 obs.
-----------------------------------
%  OCT  29, 1993  12h 48m 00.90± 1.07s
   40.613 N ± 5.8km   22.462 E ± 8.9km
   DEPTH =   5.0km  (geophysicist)
 GREECE                          (364)
      ML 1.7 (THE).

GRG     0.35 352 ePg   48 07.90   0.0
                 eSg   48 13.66
THE     0.38  87 ePg   48 08.82   0.2
                 eSg   48 15.18
LIT     0.51 178 ePg   48 11.14   0.0
                 eSg   48 19.22
KNT     0.64  31 ePg   48 13.74   0.0
                 eSg   48 22.38
SOH     0.71  73 ePg   48 14.86  -0.2
                 eSg   48 26.02
     S.D. = 0.2  on   5 of   5 obs.
-----------------------------------
*  OCT  29, 1993  13h 09m 45.76± 1.47s
   51.275 N ±19.5km   16.265 E ± 8.5km
   DEPTH =  10.0km  (geophysicist)
 POLAND                          (548)

BRG     1.52 256 iPg   10 12.40  -0.5
                 iSg   10 32.10
PRU     1.69 221 Pn    10 15.20  -0.3
       0.6s    18.40nm
                 Pg    10 16.70
                 i     10 21.40
                 eSg   10 41.20
CLL     2.05 272 e(Pg) 10 21.00   0.4
                 eSg   10 47.00
OJC     2.48 114 eP    10 26.80   0.0
                 iPg   10 34.20
                 eS    11 02.00
                 eSg   11 09.00
KHC     2.75 220 ePn   10 31.30   0.5
                 Pg    10 37.00
                 Sn    11 05.20
                 Sg    11 17.50
MOX     3.01 260 ePg   10 40.20   5.9X
                 iSg   12 21.00
     S.D. = 0.6  on   5 of   6 obs.
-----------------------------------
*  OCT  29, 1993  13h 20m 32.53± 0.95s
   42.536 N ± 9.8km   23.968 E ±13.0km
   DEPTH =  10.0km  (geophysicist)
 BULGARIA                        (359)
      ML 2.8 (THE).

SRS     1.45 191 ePb   20 58.00  -0.7
                 eSb   21 20.00
KNT     1.59 211 ePb   21 00.80   0.0
                 eSb   21 24.30
VAY     1.60 221 iPn   21 01.40   0.5
ALN     2.26 136 ePn   21 10.80   0.3
                 eSn   21 40.50
MLR     3.28  25 eP    21 25.00  -0.1
     S.D. = 0.7  on   5 of   5 obs.
-----------------------------------
   OCT  29, 1993  14h 05m 28.87± 0.68s
   40.720 S ± 5.2km  174.260 E ± 5.8km
   DEPTH =  99.1 ± 10.8 km
 COOK STRAIT, NEW ZEALAND        (163)

DIW     0.27 252 P     05 41.20  -1.9
                 S     05 49.20
TCW     0.49 179 P     05 44.10  -0.6
KIW     0.52 106 P     05 44.30  -0.6
MRW     0.61 147 P     05 45.70   0.0
                 eS    05 56.50
WEL     0.68 146 eP    05 46.50   0.2
CAW     0.73 123 eP    05 46.80   0.1
MNG     0.93  84 P     05 48.90   0.1
                 S     06 02.20
MOW     1.03 133 eP    05 50.30   0.5
MTW     1.04 115 eP    05 50.30   0.4
BSZ     1.05  29 P     05 50.20   0.1
BLW     1.12 126 eP    05 51.30   0.4
QRZ     1.32 265 Pd    05 52.60  -0.6
                 S     06 08.60
NRZ     1.40 350 P     05 54.40   0.2
THZ     1.46 224 eP    05 56.20   1.2
CNZ     1.81  34 eP    06 00.30   0.7
WAHZ    1.90  58 P     06 00.60  -0.1
DSZ     2.12 240 eP    06 04.00   0.5
MOZ     2.25  11 eP    06 05.80   0.6
                 S     06 31.20
LTZ     2.54 215 eP    06 09.80   0.6
                 eS    06 38.30
```

```
WLZ     3.03  20 eP    06 17.30   1.5
MQZ     3.22 201 eP    06 17.10  -1.2
                S      06 51.20
URZ     3.30  43 eP    06 17.50  -2.0
NOZ     3.59  55 P     06 21.50  -1.9
ODZ     5.07 210 eP    06 43.20  -0.7
     S.D. = 1.0  on  24 of  24 obs.
-----------------------------------
&  OCT  29, 1993  14h 09m 37.38s
   66.042 N          148.140 W
   DEPTH =  24.7km
 NORTHERN ALASKA                (676)
      <AEIC>. ML 3.0 (AEIC), 3.5
      (PMR).

MDM     1.09 182 eP    09 55.99  -1.1
                eS     10 10.73
GLM     1.10 163 eP    09 56.26  -1.1
                eS     10 10.70
FBA     1.16 173 ePc   09 56.62  -1.4
                eS     10 10.63
PRP     1.20 115 eP    09 57.70  -1.1
                eS     10 13.48
FYU     1.29  65 eP    10 00.15   0.3
                eS     10 17.97
IL1     1.38 157 eP    10 01.33   0.2
                eS     10 18.75
ILB     1.38 157 eP    10 01.36   0.2
                eS     10 18.67
CCB     1.41 174 eP    10 00.84  -0.7
                eS     10 19.84
MLY     1.48 228 eP    10 01.11  -1.6
                eS     10 22.30
NEA     1.52 195 eP    10 03.02  -0.2
                eS     10 22.89
WRH     1.58 179 eP    10 03.02  -1.0
HDA     1.72 163 eP    10 07.74   1.7
BWN     1.96 197 eP    10 09.98   0.4
BM3     1.97  44 eP    10 08.38  -1.4
IMA     2.26 273 ePc   10 12.15  -1.8
                eS     10 44.61
DJE     2.28 152 eP    10 14.83   0.7
IM3     2.29 271 eP    10 12.55  -1.8
MCK     2.34 189 eP    10 14.83  -0.3
RND     2.66 187 eP    10 24.83   5.1
TRF     2.76 200 eP    10 17.69  -3.4
KTH     2.77 207 eP    10 23.35   2.2
DOT     2.97 142 eP    10 26.89   3.0
PAX     3.29 158 eP    10 31.77   3.2
TMW     3.51 139 eP    10 30.35  -2.3
TOA     4.05 167 eP    10 43.80   4.5
PWA     4.48 191 eP    10 48.30   [illegible]
PMR     4.49 186 (P)   10 46.53   [illegible]
TTA     4.62 231 eP    10 49.23   [illegible]
       28 obs. associated
-----------------------------------
   OCT  29, 1993  14h 31m 03.05± [illegible]
   41.187 N ± 8.4km   21.970 E ± [illegible]
   DEPTH =   5.0km  (geophysicist
 NORTHWESTERN BALKAN REGION      [illegible]
      ML 2.4 (THE), 2.0 (SKO)

GRG     0.40 125 ePg   31 11.[illegible]
                eSg    31 18.34
VAY     0.47  73 iPg   31 12.5[illegible]
                iSg    31 20.0[illegible]
FNA     0.60 228 ePg   31 15.[illegible]
                eSg    31 22.[illegible]
KNT     0.70  92 ePg   31 16.[illegible]
                eSg    31 26.[illegible]
OHR     0.89 265 iPg   31 20.[illegible]
       0.5s    40.00nm
                iSg    31 34.[illegible]
SOH     1.11 109 ePg   31 24.[illegible]
                eSg    31 4[illegible]
LIT     1.16 160 ePg   31 24.[illegible]
SRS     1.23  93 ePb   31 2[illegible].54
     S.D. = 0.2  on   8 of [illegible]
-----------------------------------
&  OCT  29, 1993  16h 14m 12.[illegible]
   33.597 N          115.918 W
   DEPTH =  11.5km
 SOUTHERN CALIFORNIA            [illegible]
      <PAS-P>. ML 2.9 (PAS).

PLM     0.83 253 eP    14 28.[illegible]
                eS     14 39.63

GLA     1.06 120 eP    14 32.25  -0.2
PEC     1.08 286 eP    14 31.97  -0.7
                eS     14 45.81
SSK     1.60 293 eP    14 41.45   0.5
                eS     15 03.58
GSC     1.85 337 eP    14 46.78   2.3
                eS     15 13.22
       5 obs. associated
-----------------------------------
   OCT  29, 1993  16h 42m 38.48± 0.69s
   41.219 N ± 5.9km   21.980 E ± 4.8km
   DEPTH =   5.0km  (geophysicist)
 NORTHWESTERN BALKAN REGION      (383)
      ML 2.3 (THE), 2.1 (SKO).

GRG     0.41 129 ePg   42 46.30  -0.5
                eSg    42 54.30
VAY     0.46  77 iPg   42 47.70   0.1
                iSg    42 54.80
FNA     0.63 227 ePg   42 50.66  -0.5
                eSg    42 59.78
KNT     0.69  94 ePg   42 51.94  -0.4
                eSg    43 01.54
SKO     0.85 332 iPg   42 55.60   0.2
                iSg    43 07.50
                Lg     43 09.00
THE     0.95 128 ePg   42 57.94   0.9
                eSg    43 11.78
SOH     1.11 110 ePg   42 59.38  -0.5
LIT     1.18 161 ePb   43 00.82  -0.2
                eSb    43 20.02
SRS     1.22  94 ePb   43 01.22  -0.5
PAIG    1.83 134 ePb   43 12.02   1.2
     S.D. = 0.7  on  10 of  10 obs.
-----------------------------------
&  OCT  29, 1993  18h 15m 20.64s
   32.433 N          114.999 W
   DEPTH =   6.0km  (geophysicist)
 W. ARIZONA-SONORA BORDER REGION ( 46)
      <PAS-P>. ML 3.0 (PAS).

GLA     0.63  13 eP    15 32.01  -1.3
PLM     1.82 301 eP    15 52.64  -0.2
PEC     2.32 309 (P)   15 59.67  -0.4
SSK     2.87 309 (P)   16 05.68  -2.3
       4 obs. associated
-----------------------------------
   OCT  29, 1993  18h 30m 08.12± 0.54s
   49.119 N ± 4.9km    6.921 E ± 5.9km
   DEPTH =  10.0km  (geophysicist)
 GERMANY                         (543)
      ML 2.6 (STR).

LANF    0.60 103 Pg    30 19.32  -0.9
HOFF    0.71 104 Pg    30 22.41   0.3
WLF     0.74 318 iPc   30 21.21  -1.4
                iS     30 30.58
CDF     0.75 161 Pg    30 22.28  -0.5
                Sg     30 33.57
WLS     0.76 158 Pg    30 22.28  -0.8
ECH     0.92 170 Pg    30 25.45  -0.2
WITF    1.10 215 Pg    30 27.98  -0.7
MCF     1.28 174 Pg    30 32.25   0.4
                Sg     30 50.23
FEL     1.44 149 Pg    30 35.43   1.1
TMO     1.49  41 ePnc  30 35.70   0.8
                eSn    30 55.40
                eSg    30 59.00
[illegible]     1.77 182 Pg    30 40.91   1.8
[illegible]     1.77 339 ePg   30 40.50   1.5
     [illegible].7s    13.20nm
                eSg    31 02.50
[illegible]     1.80 304 P     30 39.20  -0.2
                i      30 41.50
[illegible]     4.37  87 Pg    32 05.50  49.4X
                Sg     32 27.50
[illegible]     4.47  91 Pn    31 16.50  -1.1
                Sn     32 08.30
                Sg     32 32.30
[illegible]     6.81  94 eP    32 07.60  17.2X
     S.D. = 1.1  on  14 of  16 obs.
-----------------------------------
&  OCT  29, 1993  20h 00m 46.30s
   63.273 N          151.004 W
   DEPTH =   5.5km
 CENTRAL ALASKA                  (  1)
      <AEIC>. ML 2.7 (AEIC).

KTH     0.28   7 P     00 51.50  -0.6
                S      00 55.70
TRF     0.37  61 P     00 53.70  -0.1
                S      00 59.70
HUR     0.69 115 P     00 59.50  -0.6
                S      01 09.00
CUT     0.93 159 P     01 03.70  -0.8
                S      01 18.60
RND     0.98  81 P     01 04.50  -0.9
                S      01 17.90
MCK     1.04  63 P     01 05.50  -0.8
BWN     1.13  37 P     01 07.80  -0.1
SKT     1.32 191 P     01 10.80  -0.3
                S      01 27.80
PWA     1.71 162 P     01 16.70  -0.1
GHO     1.79 146 P     01 17.70  -0.4
                S      01 41.00
SML     1.92 139 P     01 19.50  -0.5
                S      01 46.40
NCG     1.95 197 P     01 19.00  -1.5
                S      01 46.60
CCB     1.97  44 P     01 20.30  -0.3
                S      01 47.90
BGL     2.12 198 P     01 21.80  -1.1
PMS     2.14 161 P     01 23.70   0.5
SPU     2.16 194 P     01 22.50  -0.9
                S      01 53.40
FBA     2.16  39 eP    01 24.35   1.0
KNK     2.21 146 P     01 24.20   0.0
BKG     2.29 196 P     01 24.20  -1.1
IL1     2.36  48 P     01 28.30   2.1
ILB     2.36  48 P     01 28.30   2.1
SLKM    2.80 172 (P)   01 33.05   0.5
IM3     2.97 338 P     01 32.00  -2.8
       23 obs. associated
-----------------------------------
%  OCT  29, 1993  21h 01m 58.49± 2.28s
   33.426 S ± 6.5km   70.915 W ± 7.3km
   DEPTH =  72.9 ± 24.1 km
 CHILE-ARGENTINA BORDER REGION   (127)
      MD 3.9 (SAN).

SAN     0.21  97 iP    02 09.66   0.0
                iS     02 17.86
TACH    0.23 185 iP+   02 09.66  -0.1
                iS     02 17.67
PEL     0.34  34 iP+   02 10.74   0.3
                iS     02 19.38
PCH     0.39 120 iPd   02 10.80  -0.1
                iS     02 19.93
ROCH    0.46 350 iP+   02 11.49  -0.2
                iS     02 21.07
FCH     0.53  80 iP+   02 12.46   0.0
                iS     02 22.96
LCCH    0.55 265 iPd   02 12.43   0.2
                iS     02 22.65
LNV     0.67 218 iP+   02 13.14  -0.3
                iS     02 23.80
IHA     0.73 303 iPd   02 14.20   0.1
                eS     02 25.60
CACH    0.74 159 iP    02 14.61   0.2
                iS     02 27.37
JACH    0.79  20 iP+   02 14.80  -0.1
                iS     02 27.01
     S.D. = 0.2  on  11 of  11 obs.
-----------------------------------
?  OCT  29, 1993  21h 09m 12.34± 6.71s
    7.046 S ±62.9km  131.148 E ±48.6km
   DEPTH = 108.7 ± 16.2 km
   4.1mb (  2 obs.)
 TANIMBAR ISLANDS REG., INDONESIA(281)

SLKI    0.94 171 iPd   09 33.00  -0.1
                iS     09 54.00
MTN     5.76 180 iPc   10 37.60   0.7
                iS     11 48.20
KNA     8.96 195 eP    11 20.00  -0.5
       0.2s    25.00nm          5.7mb X
                eS     13 01.50
WR2    13.20 167 iPd   12 12.60  -4.2X
                e      12 14.90
                eS     14 40.90
ASPA   16.74 171 iPc   13 01.20  -0.5
       0.8s    17.70nm          4.4mb
                eS     16 02.50
WARB   19.51 192 eP    13 34.00   0.4
       0.3s     2.00nm          3.9mb
```

29d 21h

```
                 eS    17 12.00
     S.D. = 1.0  on   5 of   6 obs.
-------------------------------------
   OCT  29, 1993  21h 24m 38.97± 0.86s
   39.056 S ± 5.7km  174.688 E ± 5.4km
   DEPTH = 236.1 ±  8.8 km
 NORTH ISLAND, NEW ZEALAND        (159)

MOZ      0.56   9 Pc     25 10.40  -0.1
                 eS     25 31.30
CNZ      0.68 102 Pd     25 11.10   0.0
DRZ      0.72 108 P      25 11.50   0.0
NGZ      0.72 100 Pc     25 11.30  -0.2
BSZ      0.77 166 P      25 11.60   0.1
WAHZ     1.44 117 Pc     25 15.70  -0.2
MNG      1.68 159 Pc     25 17.70   0.0
                 S      25 42.50
TTH      1.73 107 eP     25 18.80   0.7
KIW      1.81 175 P      25 18.80  -0.1
DIW      1.84 198 P      25 19.40   0.2
PAHZ     1.86  85 P      25 19.60   0.3
TEHZ     1.89 120 Pd     25 19.80   0.2
PGZ      1.98 142 P      25 20.30  -0.1
URZ      2.06  68 P      25 20.50  -0.6
                 S      25 47.60
CAW      2.07 172 P      25 21.20  -0.1
MRW      2.17 180 P      25 22.30   0.0
                 S      25 50.70
TCW      2.18 188 Pc     25 22.70   0.4
MTW      2.19 164 Pc     25 22.00  -0.4
WEL      2.23 178 P      25 22.70  -0.1
BLW      2.39 166 Pc     25 24.10  -0.3
AMW      2.40 160 P      25 24.30  -0.2
QRZ      2.43 222 P      25 24.90   0.1
                 S      25 56.60
MAHZ     2.49  94 P      25 26.10   0.6
NOZ      2.65  82 P      25 27.40   0.2
PUZ      2.96  72 P      25 30.40  -0.2
                 S      26 05.10
THZ      3.03 206 P      25 31.40   0.0
                 eS     26 08.30
HBZ      3.19  64 P      25 33.00  -0.1
DSZ      3.48 218 P      25 36.70   0.2
LTZ      4.15 205 P      25 44.80   0.3
MQZ      4.89 198 P      25 52.90  -0.6
     S.D. = 0.3  on  30 of  30 obs.
-------------------------------------
%  OCT  29, 1993  21h 50m 42.80± 1.00s
   26.389 S ±13.0km   27.467 E ±12.4km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA         (584)
      ML 2.8 (PRE).

SLR      0.98  49 eP     51 02.20   0.2
SEK      1.93 176 iPd    51 17.70   0.9
SWZ      2.07 247 eP     51 19.10   0.3
BFT      2.42  74 eP     51 23.50  -0.4
                 S      51 52.60
BLF      2.94 202 eP     51 30.10  -1.1
     S.D. = 1.1  on   5 of   5 obs.
-------------------------------------
*  OCT  29, 1993  21h 57m 03.38± 0.79s
   26.531 S ± 7.2km   27.467 E ±10.5km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA         (584)
      ML 3.0 (PRE). mbLg 3.0 (BUL).

KSR      0.84 322 eP     57 20.10  -0.1
SEK      1.79 176 eP     57 34.50  -0.8
                 S      57 58.50
BFT      2.46  71 eP     57 45.50   0.4
                 S      58 18.00
BLF      2.81 204 eP     57 54.20   4.3X
                 S      58 28.00
FRS      3.72 210 eP     58 03.50   0.7
                 S      58 47.10
BUL      6.44  10 ePn    58 41.20  -0.3
                 iSg    00 20.80
SUR      8.22 223 eP     59 15.00   8.6X
     S.D. = 0.9  on   5 of   7 obs.
-------------------------------------
   OCT  29, 1993  22h 02m 22.56± 0.70s
   51.546 N ± 4.6km   16.133 E ± 6.1km
   DEPTH =  10.0km  (geophysicist)
 POLAND                           (548)
      ML 3.7 (GRF), 3.5 (VIE).

KSP      0.71 172 iPd    02 36.60   0.0
       0.4s   150.00nm
                 iS     02 45.70
BRG      1.53 245 iPn    02 50.10   0.1
                 iPg    02 51.20
                 iSg    03 10.90
PRU      1.86 214 iPn    02 54.50  -0.2
       0.6s    94.60nm
                 iPg    02 56.40
                 i      02 58.20
                 Sn     03 13.30
                 Sg     03 19.70
CLL      1.97 264 iPn    02 56.10  -0.3
                 iPg    02 59.20
                 iSg    03 25.00
VRAC     2.26 172 iPnc   03 01.50   1.0
                 eSg    03 35.30
OJC      2.67 118 eP     03 13.80   7.4X
                 iS     03 49.40
KHC      2.92 215 Pn     03 09.50  -0.4
       0.5s    16.00nm
                 Pg     03 16.00
                 Sn     03 44.00
                 Sg     03 54.00
HOF      2.96 247 iPnc   03 10.30  -0.2
MOX      2.99 254 ePn    03 11.80   1.0
                 iPg    03 18.90
                 iSg    03 58.00
GEC2     3.12 211 Pn     03 12.90   0.1
                 Pg     03 19.00
                 Sg     03 59.80
WET      3.18 222 iPnc   03 13.90   0.3
VKA      3.29 178 iPnc   03 14.50  -0.6
                 iPg    03 24.50
                 iSn    03 48.50
                 iSg    04 07.00
                 LR     04 19.00
ZST      3.41 169 eP     03 45.60  28.7X
                 i      04 11.90
GRF      3.64 241 iPnc   03 20.30   0.2
                 ePg    03 31.00
                 eSg    04 17.60
BSD      3.64 349 iP     03 20.00  -0.1
                 i      04 02.50
BHG      4.37 210 iPnd   03 46.00  15.5X
FUR      4.62 225 iPc    03 33.80  -0.2
KBA      4.83 203 iPnc   03 37.00  -0.2
                 i      03 45.60
                 iSn    04 31.00
                 iSg    04 57.80
WATA     5.16 217 iPnd   03 41.90   0.2
                 i      03 49.30
                 iSn    04 37.30
                 iSg    05 05.90
WTTA     5.19 216 iPnc   03 42.30   0.0
                 iSg    05 10.90
MOTA     5.33 220 iPnc   03 43.60  -0.7
                 i      03 45.00
                 iSg    05 10.60
SQTA     5.39 219 iPnc   03 44.70  -0.4
       0.4s     4.20nm          4.4mb X
                 i      05 07.90
                 i      05 16.50
OGA      5.76 218 iPc    03 50.70   0.5
DOU      7.45 263 iP     04 13.80  -0.1
     S.D. = 0.5  on  21 of  24 obs.
-------------------------------------
?  OCT  29, 1993  22h 21m 51.87± 5.12s
   44.300 N ±27.4km    6.850 E ±20.7km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                           (538)
      ML 2.0 (STR).

TOUF     0.41 135 Pg     21 59.76  -0.5
MVIF     0.46 152 Pg     22 00.54  -0.7
                 Sg     22 07.10
AUTN     0.52 126 Pg     22 01.19  -1.2
AURF     0.54 140 Pg     22 02.25  -0.5
                 Sg     22 09.66
CALN     0.55 177 Pg     22 02.01  -1.0
SAOF     0.60 121 Pg     22 03.46  -0.5
                 Sg     22 11.22
REVF     0.67 146 Pg     22 05.61   0.3
PGF      2.35 137 Pn     22 30.05  -1.2
     S.D. = 0.6  on   8 of   8 obs.
-------------------------------------
&  OCT  29, 1993  22h 25m 20.25s
   60.922 N          150.124 W
   DEPTH =  35.3km
 KENAI PENINSULA, ALASKA          ( 14)
      <AEIC>. ML 3.4 (AEIC), 3.4
      (PMR).

SLKM     0.42 187 iPc    25 29.21  -0.5
PMS      0.42  40 iPd    25 29.50  -0.3
PTE      0.54  96 ePc    25 30.74  -0.6
                 eS     25 39.07
MPA      0.57 139 iPc    25 31.23  -0.6
                 eS     25 40.00
NKA      0.57 252 eP     25 32.82   1.0
SUA      0.62 331 iPd    25 31.84  -0.8
                 eS     25 41.55
PWA      0.74   9 iPd    25 33.50  -0.7
PLRM     0.83  35 eP     25 34.49  -1.0
PMR      0.83  35 iPd    25 34.12  -1.3
                 eS     25 43.98
PWL      0.88  93 eP     25 35.23  -1.0
                 eS     25 47.54
SEW      0.89 158 eP     25 34.88  -1.4
                 eS     25 48.29
KNK      0.95  58 iPc    25 36.41  -0.8
                 eS     25 49.30
GHO      1.03  34 iPd    25 37.67  -0.8
                 eS     25 50.39
CKN      1.05 288 eP     25 38.00  -0.6
CRP      1.05 290 ePc    25 37.39  -1.4
CKT      1.05 286 iPc    25 37.78  -1.0
BKG      1.05 279 iPc    25 37.91  -0.9
                 eS     25 52.36
NNL      1.06 214 eP     25 40.27   1.5
CP2      1.08 289 iPc    25 38.43  -0.9
NCG      1.10 297 iPc    25 38.77  -0.7
                 eS     25 53.67
CKL      1.11 285 iPc    25 38.78  -0.9
BGL      1.15 288 iPc    25 39.50  -0.8
CFI      1.18  76 eP     25 39.34  -1.1
BRLK     1.22 198 eP     25 40.33  -0.9
                 eS     25 56.35
SML      1.24  43 iPd    25 40.53  -0.9
SKT      1.26 328 iPc    25 41.28  -0.5
                 eS     25 57.97
DFR      1.30 256 iPc    25 41.14  -1.3
REF      1.34 252 iPc    25 41.95  -1.2
RSO      1.37 252 iPc    25 42.52  -1.1
RS2      1.37 252 ePc    25 42.48  -1.2
RDW      1.39 253 iPc    25 42.68  -1.2
RED      1.40 250 iPc    25 42.73  -1.1
                 eS     26 00.91
NCT      1.42 257 iPc    25 43.08  -1.2
HOM      1.48 211 eP     25 44.34  -0.5
CUT      1.49 357 eP     25 44.14  -0.9
CNPM     1.51 202 iPd    25 44.34  -1.0
MTU      1.54 126 eP     25 45.17  -0.7
SCM      1.63  55 eP     25 46.21  -0.9
ILIM     1.64 240 iPc    25 46.40  -0.8
                 eS     26 07.20
INE      1.69 241 iPc    25 47.15  -0.9
VZW      1.75  84 eP     25 46.47  -2.3
FID      1.79  94 eP     25 46.52  -2.9
VLZ      1.86  82 eP     25 48.67  -1.6
                 eS     26 11.07
HIN      1.86 105 eP     25 47.99  -2.4
OPT      2.00 232 eP     25 52.23  -0.2
HUR      2.08   6 eP     25 53.76   0.3
KLU      2.11  72 eP     25 52.25  -1.8
CVA      2.18  98 eP     25 52.20  -2.7
TOA      2.24  56 P      25 56.00   0.3
AUE      2.26 227 P      25 56.20   0.2
AUL      2.26 228 P      25 55.90  -0.2
AUH      2.28 228 P      25 56.20  -0.2
AUW      2.29 229 P      25 55.70  -0.7
AUI      2.29 228 P      25 56.20  -0.3
PDB      2.32 242 eP     25 55.92  -0.9
MID      2.41 127 P      25 59.90   1.8
SGAM     2.45  98 eP     25 55.71  -3.0
TZL      2.52  61 eP     25 58.49  -1.2
TRF      2.54 358 eP     26 00.97   0.8
RND      2.56  13 eP     26 01.65   1.3
SYI      2.59 207 eP     25 59.08  -1.5
KTH      2.67 352 eP     26 02.44   0.6
CDD      2.67 223 eP     26 00.64  -1.2
SVW      2.68 276 P      26 00.50  -1.6
SDG      2.71  52 eP     26 03.34   0.9
RAGM     2.74  99 eP     26 00.90  -1.9
```

```
MCNL    2.74 232 eP    26 01.47  -1.4
MCK     2.88  11 eP    26 05.98   1.2
HMT     2.95  99 eP    26 02.46  -3.3
PAX     3.01  45 eP    26 05.76  -1.0
GLB     3.10  78 eP    26 05.67  -2.4
BWN     3.28   5 eP    26 10.29  -0.2
TTA     3.44 308 P     26 11.50  -1.3
WRH     3.68  14 P     26 17.20   1.0
HDA     3.79  21 eP    26 17.35  -0.4
BALM    3.79  85 eP    26 14.71  -3.2
CCB     3.89  15 eP    26 18.31  -0.8
FBA     4.13  14 eP    26 21.89  -0.7
MLY     4.13 356 eP    26 22.13  -0.5
IL1     4.14  20 eP    26 21.63  -1.1
MDM     4.14  11 eP    26 22.28  -0.5
YAH     4.16  94 eP    26 19.54  -3.7
GLM     4.27  16 P     26 25.70   1.1
BC3     4.48  58 eP    26 26.57  -1.0
PRP     5.06  22 eP    26 34.75  -1.1
IM3     5.33 344 eP    26 38.36  -1.2
IMA     5.41 344 ePc   26 39.12  -1.6
        87 obs. associated
-----------------------------------------
&  OCT  29, 1993  23h 00m 06.90s
   35.927 N          115.701 W
   DEPTH =   6.0km  (geophysicist)
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      <PAS-P>. ML 2.8 (PAS).

GSC     1.09 236 ePd   00 26.64  -1.3
                 eS    00 40.99
ISA     2.27 264 ePd   00 43.72  -1.9
PEC     2.36 211 eP    00 45.37  -1.5
SSK     2.37 224 ePn   00 46.30  -0.8
                 ePg   00 49.55
TNP     2.47 331 (Pn)  00 46.44  -2.1
                 ePg   00 54.77
PLM     2.74 201 (P)   00 51.58  -0.8
BONR    2.90 315 (Pn)  00 54.29  -0.5
                 ePg   01 01.53
GLA     2.96 166 eP    00 53.42  -1.9
        8 obs. associated
-----------------------------------------
?  OCT  29, 1993  23h 45m 07.34± 1.01s
   17.369 N ±52.8km   77.468 E ±43.2km
   DEPTH =  10.0km  (geophysicist)
   5.0mb ( 10 obs.)
 SOUTHERN INDIA                    (314)

VRI    50.62 316 eP    53 56.50 -12.0X
MLR    51.04 315 ePc   54 00.00 -11.9X
KAF    57.08 334 iP    54 57.50   1.6
       0.3s      9.80nm          5.3mb
NUR    57.08 332 iP    54 55.60  -0.3
       0.2s      8.20nm          5.4mb
GEC2   59.89 317 P     55 13.30  -2.6
       0.6s      2.25nm          4.5mb
                  e    55 14.50
                  e    55 16.30
KBA    59.90 315 iPc   55 13.60  -2.5
       0.3s      3.70nm          4.9mb
BRG    60.05 319 iP    55 15.00  -1.7
UPP    60.11 330 iP    55 18.40   1.4
WTTA   61.08 315 iPc   55 22.30  -1.8
       0.3s      4.20nm          5.0mb
WATA   61.13 315 iPd   55 22.90  -1.5
SQTA   61.37 315 iPc   55 24.30  -1.7
       0.3s      4.70nm          5.2mb
MOTA   61.45 315 iPc   55 24.70  -1.9
       0.3s      5.00nm          5.2mb
MOX    61.48 319 e(P)  55 26.50   0.0
GRF    61.61 317 iPc   55 27.80   0.3
       0.9s      7.00nm          4.8mb
PCP    63.06 312 P     55 37.70   0.5
FIN    63.30 311 P     55 39.03   0.3
ORX    63.50 313 P     55 40.49   0.3
IMI    63.52 311 P     55 40.64   0.3
ROB    63.54 311 P     55 40.71   0.3
ENR    63.86 311 P     55 44.58   2.0
STV    63.93 311 P     55 44.58   1.6
BHB    63.99 312 P     55 43.66   0.4
RSP    64.00 312 P     55 43.59   0.1
LSD    64.07 313 P     55 46.25   2.1
PZZ    64.10 311 P     55 44.93   0.8
RRL    64.33 312 P     55 48.09   2.3
WRA    67.02 121 P     56 03.00  -0.1
       0.6s      1.40nm          4.3mb
WR2    67.04 121 eP    56 03.10  -0.2
       0.7s      3.60nm          4.7mb
EKA    70.59 323 Pc    56 35.50  10.9X
       0.4s      3.80nm
     S.D. = 1.5  on  26 of  29 obs.
-----------------------------------------
*  OCT  29, 1993  23h 54m 42.76± 2.31s
   40.421 S ±11.4km  179.454 E ±20.7km
   DEPTH =  74.8 ± 38.3 km
 OFF E. COAST OF N. ISLAND, N.Z. (160)

MAHZ    1.73 315 P     55 11.20  -0.2
TEHZ    2.07 281 eP    55 15.90  -0.2
NOZ     2.11 328 eP    55 16.60   0.1
WAHZ    2.48 286 P     55 22.20   0.4
PUZ     2.52 338 P     55 21.80  -0.5
                 S     55 47.50
URZ     2.82 319 P     55 26.40   0.0
                 eS    55 53.50
AMW     2.94 251 eP    55 28.60   0.5
HBZ     2.96 342 eP    55 28.70   0.4
MNG     3.03 265 P     55 29.30  -0.1
                 S     55 58.70
MTW     3.09 255 P     55 30.10  -0.1
CAW     3.40 257 eP    55 34.10  -0.5
KIW     3.48 261 P     55 36.00   0.3
BSZ     3.52 279 eP    55 36.80   0.6
MRW     3.69 256 eP    55 38.20  -0.4
                 S     56 15.50
TCW     4.01 257 P     55 42.70  -0.3
MOZ     4.08 296 eP    55 44.20   0.2
DIW     4.23 263 eP    55 46.30   0.1
QRZ     5.29 263 P     56 00.10  -0.8
LTZ     5.88 244 eP    56 09.80   0.5
     S.D. = 0.4  on  19 of  19 obs.
-----------------------------------------
%  OCT  30, 1993  00h 01m 54.68± 1.04s
   40.615 N ± 5.2km   22.442 E ± 8.1km
   DEPTH =   5.0km  (geophysicist)
 GREECE                            (364)
     ML 1.7 (THE).

GRG     0.34 355 ePg   02 01.68   0.1
                 eSg   02 07.60
THE     0.40  87 ePg   02 02.58  -0.1
                 eSg   02 08.84
LIT     0.51 176 ePg   02 04.86  -0.1
                 eSg   02 12.92
KNT     0.65  32 ePg   02 07.30  -0.3
                 eSg   02 16.24
SOH     0.72  73 ePg   02 08.72  -0.4
                 eSg   02 19.76
SRS     1.01  60 ePg   02 14.80   0.6
                 eSg   02 29.00
OUR     1.21 103 ePb   02 17.96   0.3
                 eSb   02 35.92
     S.D. = 0.4  on   7 of   7 obs.
-----------------------------------------
   OCT  30, 1993  00h 16m 07.01± 0.82s
   11.249 N ±17.4km   57.597 E ± 9.5km
   DEPTH =  10.0km  (geophysicist)
   4.7mb (  6 obs.)
 ARABIAN SEA                       (417)

GBA    19.52  81 P     20 37.00  -0.6
HYB    21.20  71 eP    20 55.00  -0.3
       1.0s     40.00nm          4.8mb
MAIO   25.00   4 eP    21 34.00   1.5
TAB    28.55 341 eP    22 10.00   4.8X
BDT    40.51  77 eP    23 48.00  -0.1
LOE    43.12  77 eP    24 10.00   0.4
GEC2   52.23 325 P     25 19.20  -1.3
       0.9s      0.59nm          3.5mb X
                  e    25 22.90
                  e    26 42.10
WLF    57.00 323 P     25 55.00  -0.2
DOU    58.10 323 P     26 03.00   0.1
SNF    58.44 323 P     26 05.40   0.1
BJI    58.88  50 eP    26 08.00  -0.5
       1.0s      7.00nm          4.7mb
EKA    64.35 326 Pd    26 45.40   0.3
       0.7s      1.60nm          4.3mb
DAG    76.00 347 iPd   27 55.20  -0.5
       0.8s      6.72nm          4.8mb
WR2    81.63 112 iPd   28 27.70   0.4
       1.1s      6.20nm          4.6mb
ASPA   82.21 116 iPc   28 30.70   0.5
       0.6s     10.10nm          5.1mb
     S.D. = 0.7  on  14 of  15 obs.
-----------------------------------------
*  OCT  30, 1993  00h 29m 19.39± 1.59s
   22.013 S ± 9.6km  170.547 E ±14.4km
   DEPTH = 106.6 ± 12.7 km
   4.8mb (  5 obs.)
 LOYALTY ISLANDS REGION            (189)
     Mw 5.4 (HRV).
     CENTROID, MOMENT TENSOR     (HRV)
     Data Used: GDSN
     L.P.B.:  8S, 11C
     Centroid Location:
     Origin Time        00:29:17.1 1.0
     Lat 21.99S  FIX;Lon 170.83E  FIX
     Dep  33.8 FIX Half-duration  1.1
     Moment Tensor;   Scale 10**17 Nm
       Mrr= 0.46 0.09  Mtt=-0.21 0.20
       Mff=-0.25 0.19  Mrt= 0.02 0.19
       Mrf= 0.53 0.25  Mtf= 1.17 0.09
      Principal Axes:
       T  Val=  1.17  Plg=30  Azm=311
       N        0.31      57      155
       P       -1.47      11       47
     Best Double Couple:Mo=1.3*10**17
      NP1:Strike= 93 Dip=60 Slip=  15
      NP2:        356     77      150

DZM     3.81 268 iPc   30 17.90   0.8
                 iS    30 53.80
PVC     4.74 333 iPd   30 30.50   0.6
BKM     4.84 333 iPd   30 29.80  -1.4
                 iS    31 28.00
OUZ    13.43 169 P     32 28.30   1.6
AFI    18.63  67 eP    33 24.00  -7.7X
QRZ    18.83 175 P     33 43.90  10.4X
MNG    19.01 168 P     33 33.40  -2.1
THZ    19.79 175 P     33 58.30  14.6X
CAN    23.03 230 iPc   34 18.90   3.0X
                 e     34 41.80
BWA    23.03 233 eP    34 16.60   0.6
                 i     34 40.10
PMG    25.72 296 eP    34 41.00  -0.6
STK    27.55 243 eP    34 58.80   0.7
                 e     35 23.80
                 e     41 46.40
ASPA   33.76 260 iPc   35 52.30  -0.7
       0.9s     33.30nm          5.2mb
                 iS    41 09.30
                 iScP  42 06.00
WR2    33.80 267 eP    35 51.60  -1.7X
       0.5s     10.40nm          4.9mb
                 eS    41 09.80
                 eScP  42 03.70
WRA    33.82 267 P     35 52.30  -1.2
       1.1s      4.30nm          4.2mb
WARB   40.15 255 eP    36 47.00   0.4
       0.4s      4.00nm          4.6mb
SPA    68.12 180 iPd   40 07.60  -2.1
       1.1s    595.24nm          6.4mb X
ZAK    93.25 324 eP    42 21.00  -1.7
       1.1s      8.00nm          5.0mb
BUL   123.98 224 iPKP  48 06.00  -1.5
       1.0s      7.50nm
KAF   133.08 338 iPKP  48 20.60  -2.8X
       0.4s      1.60nm
NUR   134.75 337 iPKP  48 24.40  -2.2X
       0.4s      2.60nm
SOB1  136.25 132 ePKP  48 17.10 -13.8X
MLR   142.84 318 ePKP  48 36.00  -6.1X
UZH   143.35 324 ePKPc 48 38.70  -3.9X
       1.0s     30.00nm
KPL   144.61 356 ePKPd 48 40.20  -4.3X
KSP   144.90 331 iPKPd 48 42.70  -2.5X
       1.1s     53.00nm
                 e     48 52.30
PSZ   145.07 325 ePKPd 48 43.40  -2.3X
EDU   145.18 354 ePKPd 48 42.10  -3.4X
EBH   145.53 354 ePKPd 48 43.30  -2.8X
ESY   145.76 353 ePKPd 48 43.80  -2.7X
BRG   145.88 333 iPKPd 48 45.80  -1.1
       1.0s     38.00nm
                 e     49 13.60
EAU   145.92 354 ePKPd 48 44.60  -2.2
CLL   145.93 335 iPKPd 48 44.80  -2.1
       1.7s     65.00nm
                 i     49 10.20
```

30d 00h

```
EBL   145.95 354 ePKP  48 44.60  -2.2
SRO   145.97 326 ePKP  48 46.00  -1.1
PRU   146.29 332 iPKPd 48 46.60  -1.0
       1.2s    24.10nm
                 i     49 10.90
ZST   146.34 327 ePKP  48 47.20  -0.5
EKA   146.39 354 PKPd  48 45.90  -1.7
       0.6s     9.10nm
WIT   146.85 342 ePKP  48 49.00   0.7
MOX   147.00 335 iPKPd 48 48.90   0.2
       1.8s    28.00nm
KHC   147.35 332 iPKPd 48 50.20   0.8
       1.2s    25.00nm
                 e     49 00.50
                 e     49 15.50
                 e     49 49.00
SKO   147.36 315 iPKP  48 50.30   0.7
GEC2  147.50 331 PKP   48 47.40  -2.3X
       0.5s     4.15nm
                 e     48 49.90
                 e     48 53.60
                 e     49 00.60
WTS   147.53 341 ePKP  48 49.50   0.1
       1.2s    45.50nm
WET   147.64 332 ePKP  48 50.90   1.1
GRF   147.91 334 iPKPd 48 51.70   1.5
OHR   148.19 314 ePKP  48 51.50   0.5
BNS   148.32 340 iPKPd 48 54.50   3.7X
DCN   148.68 357 ePKP  48 52.20   0.9
DLF   148.69 357 ePKP  48 52.20   0.9
BHG   148.70 330 ePKP  48 53.20   1.7
ENN   148.88 341 ePKP  48 53.50   1.9
       0.8s    14.30nm
KBA   148.95 329 iPKPd 48 53.20   1.0
       0.5s     5.20nm
FUR   149.08 333 iPKPc 48 55.00   2.9X
LJU   149.09 327 ePKP  48 54.30   2.1
                 epP'df49 05.50
VOY   149.42 327 ePKP  48 55.00   2.2
WATA  149.58 331 iPKPd 48 55.10   2.0
SNF   149.58 343 iPKPd 48 55.27   2.6X
WTTA  149.60 331 iPKPd 48 55.50   2.3X
       0.3s     5.80nm
HOFF  149.77 337 PKP   48 56.30   3.2X
WLF   149.77 340 iPKPd 48 56.41   3.4X
MOTA  149.78 332 iPKPd 48 55.70   2.3X
       0.6s    10.20nm
LANF  149.79 337 PKP   48 56.19   3.0X
SQTA  149.83 331 iPKPd 48 56.00   2.6X
       0.5s    12.20nm
DOU   149.87 342 iPKPd 48 56.20   3.0X
OGA   150.18 331 ePKP  48 57.60   3.5X
WLS   150.43 337 PKP   48 57.39   3.2X
CDF   150.46 337 PKP   48 57.39   3.1X
FEL   150.63 336 PKP   48 57.72   3.1X
ECH   150.67 337 PKP   48 57.72   3.2X
MOF   150.98 337 PKP   48 58.59   3.5X
VITF  151.08 338 PKP   48 58.82   3.7X
LOMF  151.51 336 PKP   49 00.02   4.1X
     S.D. = 1.4  on  38 of  73 obs.
-------------------------------------
?  OCT  30, 1993  02h 25m 56.53± 9.22s
    7.627 S ±80.0km  119.962 E ±39.3km
   DEPTH = 224.8 ± 37.5 km
   4.8mb (  5 obs.)
 FLORES SEA                        (279)

MTN    12.15 116 eP    28 43.70   0.0
       0.3s    45.00nm          5.3mb
MBL    13.45 181 eP    29 00.20   0.2
       0.3s     6.00nm          4.4mb
                 eS    31 14.80
WR2    18.57 133 iPd   29 58.80  -0.4
       0.4s    17.10nm          4.9mb
                 eS    33 17.10
MEEK   18.95 184 eP    30 02.20  -0.9
                 eS    33 25.20
WARB   19.52 162 iPc   30 08.80   0.0
       0.3s     9.00nm          4.8mb
ASPA   20.81 142 iPc   30 22.30   0.6
       0.4s    11.80nm          4.8mb
                 eS    33 58.50
MRWA   21.80 189 eP    30 31.50   0.3
                 eS    34 29.00
KLB    23.93 185 eP    30 52.00   0.3
     S.D. = 0.6  on   8 of   8 obs.
-------------------------------------
```

```
&  OCT  30, 1993  03h 44m 51.24s
   61.425 N          150.308 W
   DEPTH =  42.6km
 SOUTHERN ALASKA                   (  2)
     <AEIC>. ML 2.8 (AEIC).

SUA      0.21 281 iPd    44 59.18   0.1
                  eS    45 06.12
PWA      0.31  42 P     44 59.50  -0.3
PMS      0.40 116 P     45 00.80  -0.2
PMR      0.59  73 iPc   45 02.03  -1.2
                  eS    45 12.47
GHO      0.75  62 iPc   45 04.68  -0.9
                  eS    45 16.59
SKT      0.81 314 iPd   45 05.27  -1.0
                  eS    45 16.92
NKA      0.82 214 eP    45 07.32   0.9
CGLM     0.83 263 eP    45 05.92  -0.7
SPU      0.88 255 iPc   45 06.50  -0.8
                  eS    45 19.37
NCG      0.89 269 iPc   45 06.84  -0.7
                  eS    45 19.77
KNK      0.89  90 iPc   45 06.84  -0.7
                  eS    45 19.61
CRP      0.90 261 iPc   45 06.43  -1.4
SLKM     0.92 177 iPc   45 06.84  -1.1
                  eS    45 20.02
CKN      0.93 258 ePc   45 07.35  -0.7
CKT      0.94 257 iPc   45 07.34  -1.0
CP2      0.95 261 iPc   45 07.50  -1.0
CUT      0.98   1 eP    45 07.84  -0.9
CKL      1.01 258 iPc   45 08.21  -1.0
BKG      1.01 250 iPc   45 08.37  -0.9
                  eS    45 22.75
BGL      1.02 262 iPc   45 08.42  -0.9
SML      1.02  67 iPc   45 08.30  -1.0
MPA      1.05 153 iPc   45 08.91  -0.7
PWL      1.11 120 eP    45 09.97  -0.7
CFI      1.25 100 eP    45 11.55  -1.0
                  eS    45 27.91
SEW      1.39 162 eP    45 13.60  -0.9
DFR      1.43 235 iPc   45 14.14  -1.0
                  eS    45 33.04
SCM      1.48  73 eP    45 14.76  -1.1
                  eS    45 34.18
REF      1.50 232 iPc   45 15.26  -1.0
                  eS    45 35.02
RSO      1.54 232 eP    45 15.85  -0.9
RS2      1.54 232 iPc   45 15.88  -0.9
NCT      1.54 237 iPc   45 15.87  -0.9
RDW      1.54 233 iPc   45 15.99  -0.9
RED      1.57 231 eP    45 16.18  -1.0
                  eS    45 36.59
HUR      1.59  11 eP    45 17.03  -0.3
LTI      1.84 138 eP    45 18.44  -2.5
VZW      1.85 100 eP    45 19.94  -1.2
ILIM     1.88 225 eP    45 20.48  -1.0
HOM      1.89 201 eP    45 22.05   0.4
INE      1.92 226 eP    45 21.25  -1.0
VLZ      1.94  97 eP    45 20.54  -1.8
                  eS    45 44.16
MTU      1.95 137 P     45 23.80   1.4
CNPM     1.96 194 eP    45 21.28  -1.4
FID      1.98 108 eP    45 20.72  -2.2
TRF      2.03   0 eP    45 23.21  -0.6
TOA      2.08  69 P     45 23.70  -0.7
RND      2.10  18 eP    45 24.07  -0.6
KLU      2.11  86 eP    45 22.84  -2.0
HIN      2.13 117 eP    45 23.68  -1.3
KTH      2.16 353 eP    45 25.04  -0.4
OPT      2.29 220 eP    45 27.07  -0.3
CVA      2.39 110 eP    45 29.74   1.0
MCK      2.40  15 eP    45 28.84  -0.1
TZL      2.41  73 eP    45 28.08  -0.9
SDG      2.51  62 eP    45 30.09  -0.4
PDB      2.52 231 eP    45 29.49  -1.2
AUE      2.57 218 P     45 31.20  -0.1
AUL      2.57 218 eP    45 31.20  -0.1
SVW      2.59 265 eP    45 29.47  -2.2
AUH      2.59 218 P     45 32.70   1.0
AUW      2.59 219 P     45 32.20   0.6
SGAM     2.65 108 eP    45 33.82   1.3
PAX      2.75  54 eP    45 33.37  -0.6
BWN      2.78   8 eP    45 33.13  -1.3
CDD      3.01 215 eP    45 36.23  -1.3
MCNL     3.01 224 eP    45 36.80  -0.8
SYI      3.01 201 P     45 38.50   0.9
```

```
TTA      3.07 302 P     45 36.70  -1.8
GLB      3.12  87 eP    45 39.14  -0.1
HMT      3.15 108 P     45 40.20   0.6
WRH      3.22  17 P     45 40.00  -0.6
HDA      3.36  26 P     45 43.00   0.4
FBA      3.67  17 eP    45 45.75  -1.2
TGL      3.69  97 P     45 47.20  -0.2
ILB      3.70  23 eP    45 47.20  -0.2
IL1      3.70  23 eP    45 47.17  -0.2
BC3      4.31  64 eP    45 53.83  -2.3
IM3      4.83 343 eP    46 01.15  -2.1
       77 obs. associated
-------------------------------------
*  OCT  30, 1993  04h 27m 23.87± 1.24s
   46.198 N ± 8.6km   16.327 E ±13.2km
   DEPTH =  10.0km  (geophysicist)
 NORTHWESTERN BALKAN REGION        (383)
      ML 2.8 (ZAG), 2.4 (VIE). Felt
      (IV) at Ludbreg, Croatia.

PTJ      0.39 221 iPgd  27 31.50  -0.5
                  iSg   27 39.50
ZAG      0.45 212 iPg   27 31.80  -1.2
                  iSg   27 40.70
VBY      1.02 228 ePg   27 43.20   0.0
                  i(Sg) 27 59.80
LJU      1.26 264 iPnd  27 48.10   0.9
                  iSn   28 09.30
CEY      1.40 252 ePn   27 51.50   2.0
                  eSn   28 15.00
TRI      1.85 256 eP    28 27.30  31.4X
SRO      2.11  39 eP    28 00.50   0.8
KBA      2.24 294 iPgd  28 06.80   5.1X
                  iSg   28 39.80
GEC2     3.19 327 Pn    28 14.10  -1.0
                  Sn    28 51.40
                  Sg    29 07.40
KHC      3.47 329 Pn    28 18.00  -1.1
                  eSn   29 00.00
                  Sg    29 18.10
     S.D. = 1.4  on   8 of  10 obs.
-------------------------------------
   OCT  30, 1993  05h 12m 26.38± 0.84s
   31.896 S ± 7.2km   69.842 W ± 6.4km
   DEPTH = 139.3 ± 10.9 km
 SAN JUAN PROVINCE, ARGENTINA      (137)
      MD 4.2 (SAN).

RTCB     0.98  66 iPc   12 50.00  -0.3
JACH     1.01 219 iPd   12 50.58   0.0
ZON      1.05  71 iPc   12 46.00  -5.0X
                  eS    12 59.00
RTCV     1.11  89 iPc   12 51.00  -0.5
MDZ      1.29 140 iP    12 53.40   0.0
                  iS    13 14.10
RTLL     1.30  65 iPc   12 53.30  -0.1
CFA      1.40  78 iPd   12 54.80   0.4
                  S     13 12.00
PEL      1.43 210 iPd   12 54.81   0.0
                  iS    13 14.52
ROCH     1.46 222 iP+   12 55.12  -0.2
                  iS    13 15.92
FCH      1.48 195 iPd   12 56.22   0.6
                  iS    13 17.13
SAN      1.70 204 iP    12 58.02   0.3
                  iS    13 19.90
PCH      1.81 198 iP+   12 59.62   0.5
                  iS    13 23.98
TACH     1.98 207 iPd   13 01.11   0.0
                  iS    13 26.98
LCCH     2.15 222 iPd   13 02.90  -0.1
                  iS    13 29.38
LNV      2.44 212 iP    13 05.96  -0.7
                  iS    13 35.50
RFA      3.09 158 iPc   13 15.00  -0.2
                  S     14 11.00
RTPR     3.27  62 eP    13 18.00   0.6
MRA      3.54  99 iPc   13 21.10   0.1
                  S     14 00.50
TCA      4.51  84 iP    13 33.50  -0.6
                  (S)   14 21.00
CYA      4.91  47 ePd   13 39.50   0.1
     S.D. = 0.4  on  19 of  20 obs.
-------------------------------------
%  OCT  30, 1993  05h 34m 33.64± 2.52s
   18.160 N ± 8.7km   65.815 W ±18.4km
   DEPTH =  10.0km  (geophysicist)
```

```
 PUERTO RICO REGION                    ( 90)

CPD      0.15 218 P      34 37.30   0.1
LPR      0.16 341 P      34 37.30   0.0
SJG      0.32 262 P      34 40.60   0.3
                  S      34 49.20
CLLP     0.73 264 P      34 47.30  -0.6
                  S      35 01.30
PNP      0.83 263 P      34 48.90  -0.8
APR      0.92 289 P      34 51.30   0.2
LRS      0.99 278 P      34 59.20   6.8X
MGP      1.22 263 P      34 57.30   0.9
     S.D. = 0.7  on   7 of   8 obs.
-------------------------------------
   OCT  30, 1993  06h 47m 20.48± 0.41s
   52.628 N ± 7.5km  173.104 W ± 6.5km
   DEPTH = 107.9km  ( 21 depth phases)
   4.6mb ( 18 obs.)
 ANDREANOF ISLANDS, ALEUTIAN IS. (  7)

ADK      2.32 253 ePc    47 59.59   1.5
                  eS     48 27.05
SDN      7.91  65 eP     49 12.94  -1.4
SVW     12.75  41 (P)    50 19.19   0.4
TTA     13.72  35 eP     50 29.76  -1.7
CRP     14.27  44 (P)    50 39.09   0.4
SLKM    14.81  49 eP     50 45.80   0.4
PMR     15.73  46 e(P)   50 59.70   2.9X
IMA     16.61  28 (P)    51 07.22  -0.7
FBA     17.81  37 eP     51 21.63  -0.9
INK     24.42  35 eP     52 30.00   0.4
        0.8s     4.00nm          3.9mb
                  pP     52 58.00 136kmX
MBC     31.13  22 eP     53 32.50   2.3
        0.9s     3.00nm          4.0mb
HKL     34.42 151 (P)    53 59.14  -0.6
MHA     35.02 151 (P)    54 01.44  -2.9
NEW     35.15  74 eP     54 05.49   0.2
        0.8s    14.88nm          4.9mb
                  epP    54 30.74 109km
LBFM    35.98  87 eP     54 13.86   1.3
                  epP    54 37.77 102km
MAT     37.44 264 eP     54 25.00   0.5
        1.4s    58.14nm          5.3mb
CMB     38.93  90 (P)    54 37.99   0.9
        0.9s     3.22nm          4.1mb
LRM     39.14  75 eP     54 41.50   2.5
                  e      55 07.10
                  e      56 46.00
MEMM    40.04  90 eP     54 47.83   1.7
                  epP    55 11.35 101km
BONR    40.25  89 eP     54 49.43   1.2
PTI     40.85  79 eP     54 54.04   1.1
                  epP    55 19.40 110km
HVU     41.25  80 eP     54 56.72   0.5
                  epP    55 21.82 108km
GSC     42.89  91 eP     55 10.51   0.9
                  epP    55 35.02 105km
DAU     42.99  81 eP     55 12.14   1.5
                  epP    55 37.00 107km
MSU     43.62  84 eP     55 16.42   0.8
                  epP    55 40.95 105km
PLM     44.17  93 eP     55 20.70   0.6
                  epP    55 46.51 111km
SRU     44.24  82 eP     55 21.04   0.4
                  epP    55 46.21 108km
RSSD    45.02  72 eP     55 25.83  -1.0
        0.4s     1.16nm          4.0mb
                  epP    55 51.73 111km
PV09    45.47  82 (P)    55 30.33  -0.1
                  epP    55 55.69 109km
PV10    45.60  82 eP     55 31.49   0.0
                  epP    55 57.04 109km
PV08    45.71  81 eP     55 33.06   0.6
                  epP    55 58.01 106km
ULM     46.03  60 eP     55 36.00   1.6
GOL     46.96  78 eP     55 42.17   0.0
        0.7s    10.47nm          4.7mb
                  epP    56 08.75 114km
DAG     49.84   8 iPc    56 03.80   0.2
        0.7s     8.90nm          4.8mb
WMOK    54.17  78 eP     56 35.27  -1.3
        0.7s    10.71nm          5.0mb
                  epP    57 01.78 110km
LTX     55.02  86 eP     56 41.48  -1.4
                  epP    57 06.79 104km
OXF     59.84  72 (P)    57 15.18  -1.4
                  epP    57 42.63 112km
BINY    61.68  57 eP     57 28.30  -0.7
        0.4s     9.69nm          5.2mb
CBM     62.01  49 (P)    57 28.38  -2.7
        0.4s     2.14nm          4.5mb
MYNC    62.46  68 eP     57 32.64  -1.5
        0.4s     3.21nm          4.6mb
NAV     62.68  64 ePd    57 35.00  -0.7
                  epP    58 01.10 105km
TBR     63.35  57 eP     57 39.20  -0.8
CVL     63.46  62 eP     57 40.00  -0.7
                  epP    58 07.96 113km
KAF     64.58 350 iP     57 46.70  -0.9
        0.3s     1.00nm          4.2mb
LHS     64.75  66 eP     57 48.27  -0.8
                  epP    58 14.67 106km
EKA     72.08   6 Pc     58 34.30   0.2
        0.8s     5.50nm          4.4mb
DCN     73.74   9 eP     58 43.90   0.1
DLF     73.85   8 eP     58 45.00   0.6
GEC2    78.74 355 P      59 12.10   0.1
        0.9s     1.34nm          3.7mb
                  e      59 16.40
                  e      59 20.00
MTN     80.83 235 iPd    59 23.10  -0.3
        0.8s    52.00nm          5.4mb
WR2     85.41 229 iPc    59 45.70  -1.0
        0.7s     5.40nm          4.6mb
ASPA    88.86 227 iPd    00 03.40   0.1
        0.6s    16.40nm          5.3mb
     S.D. = 1.2  on  51 of  52 obs.
-------------------------------------
%  OCT  30, 1993  08h 29m 27.62± 0.49s
   42.619 N ± 3.8km   18.853 E ± 4.3km
   DEPTH =  10.0km  (geophysicist)
 NORTHWESTERN BALKAN REGION       (383)

NKY      0.22  29 iPgc   29 32.74   0.3
                  iSg    29 36.47
HCY      0.31 237 iPgc   29 34.14   0.0
                  iSg    29 39.03
BDV      0.34 183 iPgd   29 34.74   0.2
                  iSg    29 39.86
TTG      0.36 122 iPgc   29 35.06   0.1
                  iSg    29 40.94
BRY      0.36 321 iPgc   29 35.02  -0.1
                  iSg    29 40.35
ULC      0.72 156 iPgd   29 41.59  -0.2
                  iSg    29 52.49
IVA      0.81  71 iPgd   29 43.41   0.0
                  iSg    29 55.56
PLE      0.81  29 iPgc   29 43.38  -0.1
                  iSg    29 55.17
PVY      0.83  91 iPgd   29 43.53  -0.2
                  iSg    29 56.20
     S.D. = 0.2  on   9 of   9 obs.
-------------------------------------
   OCT  30, 1993  08h 30m 33.97± 0.15s
   15.437 N ± 3.3km  121.785 E ± 3.3km
   DEPTH =  38.6km  (  8 depth phases)
   5.3mb ( 69 obs.)  5.1Msz ( 18 obs.)
 LUZON, PHILIPPINE ISLANDS        (249)
      Mw 5.5 (HRV).
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 12S, 19C
      Centroid Location:
      Origin Time       08:30:36.2 0.8
      Lat 15.46N 0.13 Lon 122.32E 0.14
      Dep  15.0 FIX Half-duration  1.3
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 0.60 0.09  Mtt= 0.25 0.09
        Mff=-0.85 0.10  Mrt=-0.47 0.23
        Mrf= 1.44 0.21  Mtf=-0.32 0.10
       Principal Axes:
       T  Val=  1.71  Plg=52  Azm=233
       N        0.02      19       349
       P       -1.73      31        91
      Best Double Couple:Mo=1.7*10**17
       NP1:Strike=226 Dip=22 Slip= 149
       NP2:        345      79        71

QCP      1.05 221 eP     31 13.50  21.1X
BAG      1.51 310 iPc+   30 59.80   0.7
DAV      9.09 155 eP     32 46.00   0.2
HKC      9.93 315 iP     32 57.30   0.1
GZH     11.02 315 P      33 12.00  -0.1
QIZ     11.95 289 P      33 23.80  -1.1
     N  16s      3.20um
     E  17s      4.70um
                  S     35 34.50
SSE     15.60 358 P      34 10.50  -2.2
     Z  20s      2.80um
     N  16s      3.20um
                  S     37 10.00
WHN     16.51 337 Pd     34 28.50   4.2X
        1.5s    90.00nm          4.7mb
     N  20s      4.32um
     E  20s      2.06um
                  pP    34 36.50
NJ2     16.75 351 Pd     34 27.00  -0.4
     Z  20s      2.07um
     N  12s      1.96um
     E  13s      1.37um
                  pP    34 40.00
GYA     17.86 310 iPc    34 43.00   1.6
     Z  16s      9.71um
     N  15s      4.87um
     E  15s      3.72um
LOE     19.34 279 iPd    34 58.30  -0.9
KMI     20.28 301 Pc     35 11.00   1.6
        1.4s   300.00nm          5.4mb
     Z  16s      8.30um          5.2MszX
     N  15s      3.40um
     E  15s      3.50um
                  pP    35 23.00  53kmX
                  sP    35 26.00
NST     20.86 274 eP     35 15.50   0.3
                  e     42 21.50
TIA     21.10 349 eP     35 16.50  -1.1
     Z  30s      1.87um          4.3MszX
     N  18s      1.85um
                  eS    39 08.00
XAN     21.86 330 Pc     35 25.00  -0.2
        1.0s   150.00nm          5.4mb
     Z  15s      4.39um          5.0MszX
     N  16s      2.40um
     E  14s      3.10um
                  sP    35 45.00
                  S     39 18.00
                  SS    40 02.00
BDT     21.93 278 eP     35 25.00  -1.0
        0.8s    51.90nm          5.0mb
CHTO    22.08 282 iPc    35 27.70   0.2
        1.1s    26.21nm          4.6mb
SNG     22.30 251 eP     35 30.00   0.3
KHT     22.40 271 eP     35 32.50   1.9
GUMO    22.42  92 eP     35 31.90   1.1
        1.3s   194.90nm          5.4mb
                  e     35 41.90  37km
PJG     22.42  92 eP     35 32.20   1.4
GUA     22.47  92 eP     35 32.50   1.2
CD2     22.57 316 iPc    35 33.00   0.7
        1.2s   350.00nm          5.7mb
     Z  18s      6.90um          5.1Msz
     N  15s      5.41um
                  eS    39 39.20
IPM     23.09 244 ePc    35 37.80   0.4
TIY     23.68 341 eP     35 43.40   0.3
        1.2s    77.00nm          5.1mb
     Z  18s      5.58um          5.1Msz
     N  15s      2.43um
BJI     25.00 350 eP     35 55.50  -0.1
        1.2s    57.00nm          5.0mb
     Z  18s      1.76um          4.6Msz
     N  15s      1.36um
                  esP   36 08.00
MAT     25.61  32 eP     36 01.00  -0.5
        1.0s    10.00nm          4.3mb
     Z  20s      0.71um          4.2Msz
                  eS    40 16.00
LZH     26.06 325 iPc    36 06.50   0.6
        1.6s   160.00nm          5.3mb
     Z  19s      6.58um          5.2Msz
     N  13s      3.10um
                  sP    36 17.50
LEM     26.20 213 iPc    36 09.00   1.8
SNY     26.34   3 Pc     36 07.00  -1.1
        1.4s   110.00nm          5.3mb
     Z  20s      3.15um          4.9Msz
                  pP    36 18.50  45km
                  S     40 40.00
HHC     26.83 343 P      36 13.00   0.2
        1.4s    80.00nm          5.1mb
```

30d 08h

```
     N  17s     2.45um
     E  14s     1.54um
BTO    27.08 340 eP    36 14.00  -1.1
     N  12s     1.02um
     E  12s     0.95um
CN2    28.44   6 eP    36 27.50   0.3
       1.0s    21.00nm          4.8mb
     Z  15s     1.60um          4.7MszX
     N  15s     1.49um
     E  15s     0.38um
                eS     41 15.00
MDJ    29.83  11 eP    36 39.40  -0.3
       1.0s    15.00nm          4.7mb
GTA    30.67 325 iPc   36 46.60  -0.8
       1.0s    25.00nm          4.9mb
     Z  18s     5.14um          5.2Msz
     E  16s     1.56um
                pP     36 56.00  33km
                sP     37 00.00
LSA    31.53 302 P     36 56.20   0.8
       1.4s    50.00nm          5.2mb
     Z  20s     3.12um          5.0Msz
                PP     38 02.00
PMG    35.23 133 eP    37 25.00  -2.0
GUN    35.47 297 P     37 29.20  -0.2
PKI    35.80 296 P     37 31.80  -0.4
KKN    35.96 296 P     37 33.20  -0.2
YSS    35.98  25 ePc   37 33.00   0.0
       1.2s   100.00nm          5.6mb
     Z  17s     0.90um          4.6MszX
DMN    36.07 296 P     37 34.20  -0.2
GKN    36.56 296 P     37 38.20  -0.2
CIT    37.06 352 eP    37 42.20   0.1
WRA    37.26 160 P     38 03.00  18.9X
       0.9s    9.00nm
WR2    37.28 160 iPc   37 41.70  -2.5
       0.8s    32.40nm          5.3mb
                ipP    37 52.10  36km
                i      38 21.90
                eS     43 24.20
ZAK    37.94 341 iPc   37 49.00  -0.4
       1.2s    30.00nm          5.1mb
     Z  11s     0.88um          4.8MszX
     N  15s     0.77um
     E  15s     0.96um
                e      39 20.00 502kmX
                e      39 58.00
                e      46 10.00
                e      46 52.00
IRK    39.29 343 eP    38 00.00  -0.8
       1.2s    68.00nm          5.3mb
     Z  20s     2.02um          5.0Msz
     N  20s     1.50um
     E  20s     0.94um
                e      38 07.00  24kmX
                e      39 36.00
WMQ    40.48 321 P     38 11.70   0.9
     Z  18s     2.36um          5.1Msz
     E  15s     3.38um
                pP     38 18.30  22kmX
ASPA   40.63 163 iPc   38 11.10  -1.0
       1.0s    33.30nm          5.0mb
                eS     44 14.90
WARB   41.64 173 eP    38 20.00  -0.3
       0.5s    19.00nm          5.1mb
GBA    42.92 273 Pc    38 31.00   0.0
       1.0s     9.00nm          4.5mb
POO    45.85 281 eP    38 53.50  -1.1
FORT   46.34 173 eP    38 57.00  -1.1
YAK    46.86   5 iP    39 01.20  -0.7
       1.0s   126.00nm          5.8mb
     E  20s     1.10um
FRU    48.59 314 iPc   39 16.20   0.4
       1.6s   110.00nm          5.6mb
STK    50.74 158 eP    39 30.70  -1.5
ADE    52.64 162 eP    39 46.40  -0.2
BWA    55.68 153 eP    40 09.10   0.2
                i      40 20.50  39km
TIK    56.34   3 iPc   40 11.00  -2.1
       1.3s   160.00nm          5.9mb
     Z  18s     2.00um          5.3Msz
                i      41 07.00 252kmX
                iS     47 59.00
                ePS    48 20.00
CAN    56.70 153 eP    40 16.00  -0.2
                e      40 30.60  54kmX
CNB    56.85 153 eP    40 16.40  -0.9
```

```
TOO    57.25 158 eP    40 19.80  -0.2
       0.8s    28.00nm          5.4mb
DZM    57.49 129 iPc   40 21.90  -0.1
NRI    57.90 347 ePc   40 22.00  -2.2
     Z  18s     4.70um          5.6Msz
     E  18s     1.90um
                e      41 15.00 236kmX
MAIO   58.79 303 iPc   40 31.00  -0.1
       0.9s    20.03nm          5.2mb
ASH    59.80 305 P     40 38.50   0.6
       1.3s   280.00nm          6.2mb
SVE    61.52 327 iPc   40 49.00  -0.3
       1.1s   200.00nm          6.2mb
     Z  16s     1.50um          5.2MszX
     N  16s     1.00um
     E  16s     1.00um
                e      43 03.00 723kmX
                eS     49 21.00
ARU    62.50 326 iPc   40 55.00  -0.8
     Z  16s     2.00um          5.4MszX
     N  15s     0.50um
     E  16s     1.50um
                e      41 04.00  29km
ILT    64.53  21 iPc   41 08.00  -1.0
       1.0s    82.00nm          5.8mb
                i      41 21.00  45km
SHI    64.69 296 eP    41 11.00   0.1
TAB    69.30 305 eP    41 41.00   1.2
ERE    70.57 308 iP+   41 47.00  -0.5
       1.3s    11.00nm          4.7mb
                e      44 28.00
PYA    71.39 312 eP    41 51.00  -1.2
       1.3s   150.00nm          5.8mb
     Z  16s     2.00um          5.5MszX
TTA    72.84  28 eP    42 01.15   0.6
       1.0s     9.04nm          4.7mb
SVW    73.05  30 eP    42 02.55   0.8
       1.0s    41.00nm          5.4mb
IMA    73.80  25 eP    42 06.38   0.2
       1.4s    19.18nm          4.9mb
MOS    74.12 324 eP    42 07.00  -1.0
       1.6s   100.00nm          5.5mb
                e      42 30.00  88kmX
CP2    74.67  30 eP    42 11.44   0.0
OBN    74.75 324 iPc   42 10.80  -0.9
       1.2s    66.00nm          5.5mb
     Z  18s     1.30um          5.3Msz
     E  18s     0.80um
                i      42 29.00  67kmX
                e      44 54.00
PMR    76.13  30 eP    42 18.84  -0.5
       0.9s    25.58nm          5.2mb
FBA    76.34  26 eP    42 19.87  -0.7
       1.4s    17.19nm          4.9mb
TOA    77.45  29 eP    42 27.80   1.0
PUL    77.55 329 eP    42 43.00  15.7X
     Z  16s     1.30um          5.3MszX
     E  16s     1.20um
KLU    77.67  29 eP    42 28.54   0.5
BHL    78.41 302 P     42 32.00  -0.7
KAS    78.51 310 iPc   42 34.20   1.1
KAF    79.04 332 iP    42 34.90  -0.5
       0.5s    17.00nm          5.3mb
FAM    79.53 303 eP    42 40.00   1.3
CSS    80.08 304 eP    42 42.30   0.6
MNK    80.14 323 eP    42 40.00  -1.5
NUR    80.18 330 iP    42 41.20  -0.3
PPCY   80.89 304 eP    42 46.30   0.4
INK    81.11  21 eP    42 47.00   0.6
       1.2s     8.00nm          4.6mb
MBC    81.64  12 eP    42 50.50   1.5
       1.0s     7.00nm          4.6mb
ALT    81.72 308 eP    42 48.80  -1.5
CFR    81.73 315 eP    42 49.50  -0.5
CLI    82.00 316 eP    42 51.00  -0.5
VRI    82.54 315 ePc   42 54.50   0.2
DST    82.71 309 eP    42 54.10  -1.3
ISR    82.85 315 eP    42 57.00   1.0
MLR    83.17 315 ePc   42 57.00  -0.7
UPP    83.72 331 iP    43 00.00   0.0
MTUR   83.84 315 eP    42 59.00  -2.1
ALN    84.29 311 eP    43 03.22  -0.1
UZH    84.69 319 iPc   43 06.00   0.9
       1.8s   255.00nm          6.1mb
     Z  19s     0.70um          5.1Msz
     E  19s     0.70um
                i      43 11.80  18kmX
```

```
DAG    85.07 352 iPd   43 06.10  -0.5
       0.8s    32.09nm          5.6mb
DEV    85.11 316 ePd   43 09.00   1.7
OJC    85.75 321 iP    43 10.30  -0.1
       1.3s   127.00nm          6.0mb
                i      43 30.50  74kmX
OUR    85.96 311 eP    43 11.16  -0.5
SRS    86.02 311 eP    43 11.09  -0.9
SOH    86.28 311 eP    43 12.20  -1.1
PAIG   86.30 310 eP    43 12.96  -0.4
PSZ    86.44 319 iPc   43 14.30   0.3
KNT    86.51 312 eP    43 13.74  -0.6
THE    86.61 311 eP    43 14.08  -0.8
VAY    86.69 312 iPd   43 14.70  -0.5
       1.3s   150.00nm          6.1mb
GRG    86.93 312 eP    43 15.58  -0.9
RES    87.16   9 eP    43 18.00   1.1
       1.0s    12.00nm          5.1mb
SKO    87.30 313 iPd   43 18.50   0.3
SRO    87.48 319 iP    43 19.30   0.4
KSP    87.64 322 iPc   43 20.20   0.6
       1.4s    49.00nm          5.6mb
VRAC   88.02 321 iPc   43 22.40   1.0
       1.7s   154.00nm          6.0mb
ZST    88.11 320 eP    43 22.20   0.3
PRU    89.00 322 iPd   43 26.70   0.6
       1.1s    27.50nm          5.5mb
     Z  16s     0.50um          5.0MszX
     N  16s     0.40um
     E  16s     0.60um
BRG    89.00 323 iP    43 26.20   0.1
       1.2s    34.00nm          5.6mb
     Z  19s     1.60um          5.5Msz
     N  19s     0.21um
     E  19s     1.10um
CLL    89.37 324 iPKP  43 27.00  -0.9
       1.4s    29.00nm          5.4mb
KHC    89.91 321 iPc   43 30.90   0.4
       1.2s    19.00nm          5.3mb
     Z  18s     0.90um          5.2Msz
     N  18s     0.10um
     E  18s     0.40um
                pP     43 37.00  19kmX
                e      47 03.00
GEC2   89.95 321 P     43 31.10   0.3
       1.3s    25.30nm          5.3mb
WET    90.33 322 iPd   43 33.40   1.0
       1.2s    33.00nm          5.5mb
MOX    90.44 323 eP    43 33.50   0.6
       1.5s    28.00nm          5.4mb
     Z  21s     0.80um          5.1Msz
LJU    90.54 318 eP    43 33.50   0.1
                e      44 39.50 273kmX
YKA    90.78  23 eP    43 34.30   0.1
       1.0s     7.00nm          5.0mb
KBA    90.88 320 iPc   43 34.90  -0.3
       1.4s    53.60nm          5.7mb
                i      43 54.00  68kmX
BHG    90.91 320 iPc   43 35.50   0.4
       1.3s    79.00nm          5.9mb
VOY    90.95 318 eP    43 35.20  -0.3
GRF    91.08 323 iPc   43 37.00   1.1
       1.1s    18.00nm          5.4mb
     Z  19s     0.70um          5.1Msz
FUR    91.70 321 iPd   43 40.00   1.2
       1.4s    83.00nm          6.0mb
WTTA   91.87 320 iPc   43 39.60  -0.2
       1.0s    57.00nm          5.9mb
SQTA   92.15 320 iPc   43 41.00   0.0
       1.0s    45.70nm          5.9mb
                i      43 54.70  46km
MOTA   92.16 320 iPc   43 40.80  -0.3
       1.0s    33.20nm          5.7mb
                i      43 46.30  17kmX
                i      43 55.90
OGA    92.41 320 iPc   43 42.60   0.3
       1.0s    25.00nm          5.6mb
LANF   93.40 323 P     43 47.09   0.6
FIR    93.59 317 eP    43 49.00   1.5
FEL    93.79 322 P     43 48.35  -0.2
WLS    93.93 323 P     43 49.12   0.1
CDF    93.97 323 P     43 49.34   0.0
WLF    94.02 324 iPd   43 50.47   1.2
       1.2s    11.70nm          5.2mb
ECH    94.14 322 P     43 49.78  -0.2
BBS    94.28 322 P     43 50.55  -0.1
MOF    94.32 322 P     43 50.88  -0.1
```

```
MCW    94.35  37 (P)    43 53.01   2.0
LOMF   94.75 322 P      43 52.74  -0.1
VITF   94.82 323 P      43 52.74  -0.4
LSZ    97.33 256 iPd    44 05.20   0.1
NEW    97.82  35 eP     44 08.50   1.7
        1.0s      6.00nm          5.1mb
LTX   117.50  45 ePKP   49 17.80  -0.3
KIC   122.78 288 PKP    49 28.60   0.2
TIC   122.92 289 PKP    49 28.80   0.2
LIC   123.09 288 PKP    49 29.30   0.3
APR   145.30  14 PKP    50 10.30   0.2
LRS   145.42  15 PKP    50 10.20  -0.2
MGP   145.64  15 PKP    50 11.00   0.3
PNP   145.69  14 PKP    50 11.70   0.9
CLLP  145.69  14 PKP    50 11.70   0.9
CPD   145.88  13 PKP    50 12.30   1.1
SDV   152.88  28 ePKPd  50 24.10   1.9
RTCV  161.13 152 iPKPd  50 51.00  19.3X
RTCB  161.33 151 iPKPd  50 48.00  16.1X
RTLL  161.61 151 iPKPd  50 48.50  16.3X
LPAZ  170.42  96 PKP    50 42.30   2.0
LPB   170.43  98 PKP    50 39.00  -1.0
CNCB  170.51 100 PKP    50 44.00   3.8X
MOCB  170.89 130 PKP    50 43.00   2.8X
CCH   172.16 105 PKP    50 44.00   3.4X
     S.D. = 0.9  on 165 of 175 obs.
-------------------------------------
   OCT  30, 1993  08h 50m 29.11± 1.03s
   31.216 S ± 7.4km   69.049 W ± 6.5km
   DEPTH = 146.7 ± 16.6 km
 SAN JUAN PROVINCE, ARGENTINA     (137)
      MD 4.0 (SAN).

ZON     0.46 136 iPd    50 43.60  -6.6X
                eS      50 53.60
CFA     0.79 120 iPc    50 51.20  -1.0
                S       51 03.00
RTRS    1.10 341 eP     50 55.00   0.3
MDZ     1.67 174 iP     51 01.10   0.4
                iS      51 22.30
JACH    1.96 222 iP     51 04.68   0.6
                iS      51 30.99
FCH     2.35 206 iPd    51 09.96   0.9
                iS      51 40.57
PEL     2.37 215 iPd    51 09.03   0.0
                iS      51 38.47
ROCH    2.42 223 iP+    51 09.51  -0.2
                iS      51 39.54
SAN     2.62 211 iP     51 12.26   0.2
                iS      51 45.25
PCH     2.70 207 iP+    51 13.85   0.7
                iS      51 47.09
TACH    2.91 213 iP+    51 15.33  -0.4
MRA     3.08 114 ePc    51 18.50   0.6
                S       51 53.50
LCCH    3.10 223 iP+    51 17.64  -0.6
CACH    3.17 204 iP+    51 20.02   0.7
LNV     3.38 215 iPd    51 20.28  -1.5
RFA     3.58 172 iPc    51 24.00  -0.5
                S       52 06.00
TCA     3.82  93 iPd    51 27.60  -0.1
                (S)     52 07.00
CYA     3.95  47 iPc    51 29.40   0.0
                S       52 14.00
     S.D. = 0.7  on  17 of  18 obs.
-------------------------------------
   OCT  30, 1993  09h 17m 04.91± 0.78s
   38.246 N ± 6.1km   30.259 E ± 8.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 3.6 (ISK).

KHL     0.58 278 ePg    17 16.00  -0.8
ALT     0.82 352 iPg    17 19.30  -1.5
BCK     0.83 161 ePg    17 20.80  -0.1
                eSg     17 34.80
CIN     1.83 250 ePn    17 43.00   6.3X
DST     1.86 317 iPn    17 37.60   0.5
GPA     2.04   1 ePn    17 39.80   0.1
EYL     2.32 358 ePn    17 44.00   0.2
IZM     2.36 275 ePn    17 45.00   0.6
HRT     2.61 350 ePn    17 48.90   1.0
EDC     2.80 319 ePn    17 50.80   0.2
EZN     3.45 298 iPn    17 59.50  -0.2
KAS     4.13  40 ePn    18 25.50  16.1X
                iSg     19 19.00
     S.D. = 0.8  on  10 of  12 obs.
-------------------------------------
   OCT  30, 1993  09h 39m 30.27± 0.44s
   38.358 N ± 4.1km   30.426 E ± 3.9km
   DEPTH =   8.3 ±  2.7 km
   4.1mb (  7 obs.)
 TURKEY                           (366)
      ML 4.1 (ISK).

KHL     0.71 267 iPg    39 46.10   1.6
ALT     0.74 341 iPg    39 44.30  -0.7
BCK     0.91 172 iPg    39 46.30  -1.5
DST     1.87 312 iPn    40 03.30   0.4
GPA     1.93 357 iPn    40 03.80   0.1
CIN     2.00 248 ePn    40 05.00   0.4
IZI     2.11 340 ePn    40 06.00  -0.3
EYL     2.21 355 ePn    40 08.00   0.1
IZM     2.49 272 iPn    40 11.90   0.2
HRT     2.53 347 ePn    40 11.90  -0.4
EDC     2.81 316 iPn    40 16.80   0.5
ITU     2.95 339 iPnd   40 19.00   0.8
                iSg     41 10.00
EZN     3.51 296 iPn    40 26.50   0.3
PPCY    3.79 155 eP     40 25.00  -5.2X
KAS     3.96  39 ePn    40 33.00   0.4
DMK     4.02 330 iPn    40 33.50   0.1
CSS     4.12 145 eP     40 34.00  -0.8
ALN     4.23 308 eP     40 36.50   0.2
                eS      41 48.18
FAM     4.42 138 eP     40 41.00   1.9
BZK     4.53  36 ePn    40 39.90  -0.7
JMB     5.04 326 iP     40 47.00  -0.9
OUR     5.37 294 eP     40 52.66   0.1
PAIG    5.47 289 eP     40 53.90  -0.2
RZN     5.50 309 iP     40 53.00  -1.6
PSN     5.58 343 iP     41 51.00  55.5X
PLD     5.76 312 iP     41 57.00  59.0X
MMB     6.07 304 iP     41 07.00   4.5X
PGB     6.35 313 iP     41 05.00  -1.4
LIT     6.40 288 eP     41 08.14   1.0
KNT     6.44 298 eP     41 08.30   0.6
KKB     6.63 304 iP     41 09.00  -1.4
GRG     6.71 295 eP     41 13.10   1.5
VAY     6.73 299 iP     41 16.00   4.2X
BUC1    6.84 332 eP     41 32.00  18.8X
BUC     6.87 333 ePd    41 16.00   2.4X
CFR     7.03 347 eP     41 14.00  -1.9
SIM     7.14  22 eP     41 14.00  -3.5X
ISR     7.37 338 eP     41 21.00   0.3
FNA     7.40 292 eP     41 21.90   0.7
SKO     7.77 301 e(Pn)  41 27.00   0.7
     N  11s      4.58um
DRA     7.83 326 ePd    41 31.00   3.9X
MLR     7.87 336 ePc    41 27.00  -0.8
OHR     7.91 293 eP     41 28.20  -0.2
MTUR    7.94 331 eP     41 33.00   4.2X
VRI     7.99 341 ePc    41 28.00  -1.4
CLI     8.51 345 eP     41 36.50  -0.1
HLW     8.51 175 eP     41 35.00  -1.7
                eS      43 06.00
KIS     8.73 353 eP     41 47.00   7.4X
     Z  13s      1.70um
                e       43 16.00
DEV     9.36 326 ePc    41 48.00  -0.4
UZH    11.84 333 eP     42 27.00   4.8X
        1.4s    35.00nm          5.5mb X
TAB    12.51  86 eP     42 35.00   3.4X
VRAC   14.79 322 P      43 08.10   6.8X
GEC2   15.98 316 Pn     43 22.10   5.1X
                Sn      45 32.30
KSP    16.00 326 eP     43 17.90   0.9
KHC    16.21 317 eP     43 24.50   4.6X
        1.4s    11.00nm          3.8mb
     Z  10s      1.50um          5.5MszX
     N  10s      0.60um
     E  10s      1.10um
                e       43 39.00
PRU    16.24 321 eP     43 24.00   3.9X
     Z  11s      1.60um
     N  10s      1.20um
     E  12s      1.00um
BRG    17.10 322 eP     43 33.10   2.1
        1.1s    10.00nm          3.9mb
OBN    17.26  12 eP     43 35.00   2.0
     Z  14s      1.00um
     N  14s      0.80um
GRF    17.81 316 eP     43 38.30  -1.6
     Z  14s      1.30um
                e       43 43.20
CLL    17.84 322 e(P)   43 40.00  -0.2
        1.7s    18.00nm          3.9mb
MOS    18.05  13 eP     43 44.00   1.2
MOX    18.13 319 eP     43 50.00   6.2X
ASH    21.93  82 eP     44 25.00  -0.9
MAIO   23.17  86 eP     44 38.00  -0.2
NB2    25.68 338 P      45 00.90  -1.2
        0.9s     2.40nm          3.9mb
ARU    25.97  37 eP     45 05.50   0.8
SVE    27.15  37 eP     45 18.00   2.5
                e       46 05.90
GBA    48.27 108 P      48 16.00   2.3
ZAK    51.46  51 eP     48 40.50   2.7X
        1.6s     8.00nm          4.4mb
TIK    56.66  22 eP     49 14.00  -1.8
        2.0s    20.00nm          4.8mb
CD2    59.36  73 eP     49 34.00  -1.3
HHC    60.36  60 P      49 41.00  -1.1
XAN    61.67  68 eP     49 52.60   1.5
        1.0s     4.50nm          4.6mb
     S.D. = 1.2  on  54 of  73 obs.
-------------------------------------
% OCT  30, 1993  09h 59m 03.55± 1.00s
   38.327 N ± 6.9km   30.410 E ±10.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      ML 3.3 (ISK).

KHL     0.70 270 ePg    59 17.10  -0.3
ALT     0.76 342 iPg    59 17.60  -0.9
                eSg     59 27.80
BCK     0.88 171 ePg    59 20.30  -0.1
                eSg     59 34.30
DST     1.89 313 ePn    59 36.60   0.4
GPA     1.96 358 ePn    59 37.80   0.6
IZM     2.47 273 ePn    59 44.90   0.3
     S.D. = 0.7  on   6 of   6 obs.
-------------------------------------
& OCT  30, 1993  10h 25m 16.49s
   59.005 N          152.374 W
   DEPTH =  67.6km
 SOUTHERN ALASKA                  (  2)
     <AEIC>. ML 2.5 (AEIC).

SYI     0.40 181 iP     25 27.58  -0.7
                eS      25 35.96
AUE     0.62 305 iP     25 29.95  -0.6
AUI     0.64 302 eP     25 29.91  -0.8
                eS      25 39.83
AGU     0.65 304 iP     25 30.36  -0.6
AUH     0.66 304 iP     25 30.36  -0.7
CDD     0.66 264 iP     25 30.30  -0.7
                eS      25 41.49
AUL     0.66 305 iP     25 30.43  -0.6
AUW     0.67 303 eP     25 30.43  -0.7
HOM     0.75  29 eP     25 31.06  -1.0
                eS      25 43.07
CNPM    0.78  48 iP     25 31.72  -0.7
                eS      25 43.96
OPT     0.78 326 iP     25 31.66  -0.8
                eS      25 43.03
MCNL    1.03 281 eP     25 34.98  -0.5
                eS      25 48.24
BRLK    1.08  44 eP     25 35.88  -0.3
                eS      25 50.23
INE     1.12 342 eP     25 36.09  -0.7
                eS      25 50.02
ILIM    1.12 345 iP     25 35.81  -0.9
PDB     1.22 311 iP     25 37.21  -0.8
                eS      25 52.52
RED     1.43 352 eP     25 39.98  -1.0
RSO     1.47 353 eP     25 40.88  -0.8
RS2     1.48 353 iP     25 40.97  -0.7
REF     1.50 354 eP     25 41.16  -0.8
                eS      25 59.83
RDW     1.50 352 iP     25 41.12  -0.8
NCT     1.59 350 eP     25 41.53  -1.5
DFR     1.60 354 eP     25 42.48  -0.8
                eS      26 02.74
NKA     1.84  18 eP     25 49.44   3.1
SEW     1.85  52 eP     25 45.26  -1.3
SLKM    1.86  35 iP     25 45.84  -0.9
BKG     2.07   1 eP     25 49.42  -0.3
MPA     2.13  44 eP     25 49.55  -0.9
SPU     2.19   4 eP     25 51.09  -0.3
CKL     2.20   0 eP     25 51.53   0.0
```

30d 10h

```
CKT      2.20   2 eP     25 51.97   0.4
CP2      2.27   2 eP     25 52.50  -0.1
                eS     26 22.62
CRP      2.27   3 eP     25 52.84   0.2
CGLM     2.32   4 eP     25 53.23   0.1
NCG      2.41   2 eP     25 54.59   0.1
LTI      2.53  64 eP     25 55.37  -0.6
SUA      2.60  18 eP     25 57.29   0.2
PMS      2.65  31 P      25 57.20  -0.6
PWL      2.76  46 eP     25 57.72  -1.5
PWA      2.93  24 P      26 01.30  -0.3
SKT      3.01   8 eP     26 02.61  -0.3
PMR      3.06  30 (P)    26 00.48  -2.9
KNK      3.11  37 eP     26 02.46  -1.7
CFI      3.18  45 eP     26 03.24  -1.8
GHO      3.26  30 eP     26 05.52  -0.9
       45 obs. associated
-------------------------------------
   OCT  30, 1993  10h 41m 06.10± 0.73s
   38.574 N ± 6.8km   24.024 E ± 7.0km
   DEPTH =  17.8 ±  6.4 km
 AEGEAN SEA                        (365)
      ML 3.1 (ATH), 3.0 (THE).

ATH      0.65 202 ePb    41 18.10  -0.5
                eSb    41 28.00
PAIG     1.38 349 ePb    41 29.82  -0.6
                eSb    41 46.98
AGG      1.40 289 ePb    41 31.78   1.0
                eSb    41 50.62
OUR      1.76 359 ePb    41 35.33  -0.6
                eSb    41 54.53
LIT      1.93 323 ePb    41 39.50   1.0
                eSb    42 01.74
EZN      2.18  54 ePn    41 43.00   0.9
THE      2.21 339 ePn    41 42.22  -0.3
                eSn    42 07.94
SOH      2.30 347 ePn    41 43.50  -0.4
SRS      2.56 353 ePn    41 46.50  -1.0
                eSn    42 15.38
KNT      2.73 342 ePn    41 49.62  -0.2
                eSn    42 20.94
ALN      2.80  33 ePn    41 51.98   1.2
DST      3.73  73 ePn    42 03.50  -0.6
     S.D. = 0.9  on  12 of  12 obs.
-------------------------------------
*  OCT  30, 1993  11h 27m 32.60± 1.75s
   37.379 N ±19.3km   28.602 E ± 6.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)

CIN      0.47 298 iPgc   27 42.00  -0.1
                iSg    27 49.00
KHL      1.19  37 ePn    27 54.60  -0.3
IZM      1.47 314 iPn    27 59.20   0.0
BCK      1.58  86 ePn    28 00.80   0.0
ALT      2.05  35 ePn    28 08.00   0.4
     S.D. = 0.3  on   5 of   5 obs.
-------------------------------------
&  OCT  30, 1993  11h 36m 40.22s
   60.443 N          147.554 W
   DEPTH =  18.7km
 SOUTHERN ALASKA                   (  2)
      <AEIC>. ML 2.9 (AEIC), 3.1
      (PMR).

KNIM     0.13 224 eP     36 44.42   0.0
                eS     36 47.92
LTI      0.43 200 iPd    36 48.48  -0.6
MTU      0.46 186 eP     36 49.20  -0.3
HIN      0.52  95 iPc    36 50.10  -0.5
                eS     36 58.12
PWL      0.57 318 iPc    36 50.49  -0.9
                eS     36 58.69
FID      0.61  59 iPc    36 50.62  -1.5
                eS     36 58.62
CFI      0.75 352 iPd    36 53.39  -1.0
                eS     37 03.82
MPA      0.90 274 iPc    36 55.70  -1.2
                eS     37 08.42
CVA      0.90  83 iPc    36 55.73  -1.2
                eS     37 08.08
VLZ      0.91  40 iPd    36 55.92  -1.3
                eS     37 08.63
                eS     37 08.65
SEW      1.00 251 iPc    36 57.39  -1.4
                eS     37 10.66
KNK      1.07 336 eP     36 58.62  -1.3
                eS     37 13.29
SGAM     1.16  86 iPc    36 59.87  -1.6
MID      1.19 148 P      37 01.20  -0.6
PMS      1.27 310 P      37 01.80  -1.2
KLU      1.32  36 eP     37 02.43  -1.4
                eS     37 20.72
SLKM     1.32 274 iPc    37 02.56  -1.2
PMR      1.39 327 eP     37 02.70  -1.9
SCM      1.40   4 iPd    37 04.19  -0.7
SML      1.42 345 ePd    37 04.61  -0.5
                eS     37 23.44
RAGM     1.43  91 eP     37 03.44  -1.8
GHO      1.49 334 eP     37 05.64  -0.5
HMT      1.64  92 eP     37 06.32  -2.0
PWA      1.66 318 P      37 07.40  -1.1
TOA      1.80  21 P      37 10.60   0.0
BRLK     1.80 249 eP     37 09.07  -1.6
                eS     37 30.93
NKA      1.84 281 eP     37 11.66   0.5
SUA      1.86 305 eP     37 10.42  -1.2
TZL      1.91  32 eP     37 12.41   0.2
CNPM     2.07 245 eP     37 12.55  -1.9
                eS     37 37.27
GLB      2.08  60 eP     37 13.47  -1.3
                eS     37 38.35
HOM      2.20 251 eP     37 16.96   0.6
SDG      2.30  24 eP     37 17.52  -0.4
SPU      2.33 291 eP     37 16.02  -2.2
CGLM     2.34 294 eP     37 17.12  -1.4
TGL      2.35  80 ePc    37 16.55  -2.1
CUT      2.36 328 eP     37 17.50  -1.1
BKG      2.40 287 eP     37 17.15  -2.1
CKN      2.40 291 eP     37 18.29  -0.9
CRP      2.40 292 eP     37 17.68  -1.7
                eS     37 49.86
CKT      2.40 290 eP     37 17.57  -1.7
CP2      2.44 292 eP     37 18.22  -1.7
NCG      2.45 295 eP     37 18.22  -1.7
CKL      2.46 290 eP     37 18.05  -2.2
SKT      2.47 310 eP     37 18.32  -1.8
BGL      2.51 291 eP     37 18.73  -2.1
DFR      2.54 276 eP     37 18.90  -2.4
REF      2.55 273 eP     37 19.05  -2.5
RS2      2.58 273 eP     37 19.55  -2.4
RED      2.59 272 eP     37 19.67  -2.3
RDW      2.60 273 eP     37 19.95  -2.4
BALM     2.63  75 eP     37 20.54  -2.1
NCT      2.66 275 eP     37 20.32  -2.8
ILIM     2.72 265 eP     37 21.21  -2.6
PAX      2.72  20 eP     37 23.38  -0.6
HUR      2.73 340 eP     37 23.62  -0.3
INE      2.77 264 eP     37 22.25  -2.4
YAH      2.88  89 eP     37 23.53  -2.8
OPT      2.96 257 eP     37 25.39  -1.7
RND      3.04 349 eP     37 27.17  -1.1
CTGM     3.10  78 eP     37 27.60  -1.7
TRF      3.28 338 eP     37 31.16  -0.8
MCK      3.36 349 P      37 33.40   0.5
PDB      3.39 262 eP     37 31.81  -1.4
CDD      3.44 246 eP     37 32.57  -1.4
KTH      3.50 334 eP     37 33.93  -1.0
DOT      3.61  26 P      37 36.50   0.0
BC3      3.80  44 eP     37 37.90  -1.2
BWN      3.85 347 eP     37 38.23  -1.5
HDA      3.99   4 eP     37 40.43  -1.3
SVW      4.01 283 eP     37 41.37  -0.7
CCB      4.22 359 eP     37 43.27  -1.8
IL1      4.36   4 eP     37 44.74  -2.2
ILB      4.36   4 eP     37 44.77  -2.2
FBA      4.48 359 eP     37 46.66  -2.0
TTA      4.74 305 (P)    37 51.31  -1.2
IM3      6.22 336 eP     38 10.46  -2.9
IMA      6.28 337 eP     38 11.90  -2.4
BM3      7.12   9 eP     38 22.85  -3.2
       79 obs. associated
-------------------------------------
?  OCT  30, 1993  12h 01m 36.19± 6.66s
   32.465 S ±46.1km   71.551 W ±31.7km
   DEPTH =  31.1 ±  7.5 km
 NEAR COAST OF CENTRAL CHILE       (135)
      MD 3.5 (SAN).

ROCH     0.68 138 iPd    01 49.99   0.3
                iS     02 00.48
JACH     0.84 105 iP+    01 51.52  -0.3
                iS     02 03.09
PEL      1.00 133 iP+    01 53.89  -0.2
                iS     02 07.10
LCCH     1.01 181 iP     01 54.27   0.1
                iS     02 07.37
TACH     1.29 157 iP+    01 58.08  -0.1
                iS     02 14.32
FCH      1.37 129 iP+    01 58.72  -0.9
                iS     02 15.92
PCH      1.45 143 iPd    01 59.80  -0.7
                iS     02 17.58
LNV      1.49 176 iP     02 00.08  -1.0
                iS     02 18.58
CACH     1.83 154 iP     02 05.94  -0.2
                iS     02 28.43
     S.D. = 0.5  on   9 of   9 obs.
-------------------------------------
*  OCT  30, 1993  12h 17m 45.45± 0.69s
   30.686 N ± 9.4km  132.568 E ±13.6km
   DEPTH =  33.0km  (normal)
   4.2mb (  5 obs.)
 SOUTHEAST OF SHIKOKU, JAPAN       (237)

SHK      3.84   1 eP     18 43.00  -0.6
MAT      7.50  37 eP     19 36.00   0.7
BJI     16.29 309 eP     21 39.00   5.8X
GUN     40.59 278 P      25 24.60   0.5
         0.4s     13.00nm          5.0mb
KKN     41.13 278 P      25 29.00   0.6
WRA     50.37 178 P      26 41.50   0.0
         0.8s      1.60nm          4.1mb
WR2     50.37 178 eP     26 41.10  -0.4
         0.9s      2.80nm          4.3mb
NB2     76.97 335 P      29 40.40   4.2X
         1.0s      3.70nm          4.4mb
CLL     82.62 327 e(P)   30 14.00   7.5X
GEC2    83.89 324 eP     30 12.40  -0.8
         0.6s      0.74nm          4.0mb
                e      30 23.80
     S.D. = 0.8  on   7 of  10 obs.
-------------------------------------
   OCT  30, 1993  12h 38m 18.19± 0.97s
   38.358 N ± 6.7km   30.386 E ±10.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 3.3 (ISK).

KHL      0.68 267 iPg    38 31.60  -0.1
                eSg    38 41.60
ALT      0.73 343 iPg    38 31.80  -0.8
BCK      0.91 170 ePg    38 35.60  -0.1
                eSg    38 49.40
DST      1.85 313 ePn    38 50.90   0.6
GPA      1.93 358 ePn    38 51.80   0.4
CIN      1.97 248 eP     38 58.00   6.1X
IZM      2.45 272 ePn    38 58.90  -0.1
     S.D. = 0.6  on   6 of   7 obs.
-------------------------------------
*  OCT  30, 1993  12h 40m 22.17± 1.06s
   38.322 N ± 7.3km   30.441 E ±12.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 3.3 (ISK).

KHL      0.72 270 ePg    40 36.10  -0.3
ALT      0.78 341 iPg    40 36.80  -0.6
                eSg    40 46.80
BCK      0.87 172 ePg    40 38.90   0.0
                eSg    40 52.90
DST      1.91 313 ePn    40 55.90   0.8
GPA      1.97 357 ePn    40 56.00   0.1
CIN      2.00 250 ePn    41 05.00   8.7X
                iSg    41 32.00
     S.D. = 0.7  on   5 of   6 obs.
-------------------------------------
?  OCT  30, 1993  12h 45m 35.71± 1.50s
   38.319 N ± 9.8km   30.449 E ±17.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      ML 3.2 (ISK).

KHL      0.73 271 ePg    45 49.60  -0.5
                eSg    45 59.60
ALT      0.78 340 iPg    45 50.30  -0.7
BCK      0.86 173 ePg    45 52.40   0.0
                eSg    46 05.90
DST      1.91 313 ePn    46 09.90   1.2
CIN      2.00 250 ePn    46 14.00   4.1X
```

```
                iSg   46 44.00
     S.D. = 1.5  on   4 of   5 obs.
-------------------------------------
%  OCT  30, 1993  12h 52m 07.60± 0.75s
   37.193 N ± 6.5km    3.732 W ± 6.1km
   DEPTH =  10.0km  (geophysicist)
 SPAIN                              (377)
      mbLg 2.7 (MDD).

ECOG    0.16  58 iPd    52 09.90  -1.4
                 e      52 12.40
EGUA    0.38 159 eP     52 15.03  -0.4
                 e      52 21.50
ELUQ    0.56 311 iPd    52 19.13   0.1
                 e      52 26.10
EBAN    0.97 358 eP     52 25.80  -0.3
EHUE    1.10  55 eP     52 28.60   0.3
                 e      52 42.10
ENIJ    1.24 100 eP     52 31.58   0.9
EHOR    1.36 298 eP     52 32.58   0.0
EVIA    1.74  34 iPd    52 38.90   0.8
                 e      52 59.90
     S.D. = 0.9  on   8 of   8 obs.
-------------------------------------
*  OCT  30, 1993  13h 02m 11.50± 0.87s
    5.885 S ± 7.1km  146.008 E ±11.3km
   DEPTH =  10.0km  (geophysicist)
   3.5mb (  1 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY    0.36 186 iPc    02 18.50  -0.4
                 eS     02 24.50
MDG     0.67 340 eP     02 24.60  -0.2
LAT     1.25 128 eP     02 34.80   0.0
MNDI    2.35 263 eP     02 56.00   5.0X
PMG     3.68 162 eP     03 09.50  -0.2
WR2    17.99 218 eP     06 23.60   0.2
       0.5s     1.90nm          3.5mb
ZST   119.59 323 ePdiff17 38.30  12.8X
PRU   120.20 326 ePdiff17 28.70   0.5X
       2.2s    64.90nm
KHC   121.18 325 ePdiff17 10.50 -22.1X
                 e      17 22.80
GEC2  121.25 325 Pdiff 17 23.10 -10.0X
       1.0s     0.92nm
                 e      17 25.30
MOX   121.44 328 ePdiff17 13.90 -19.8X
     S.D. = 0.3  on   5 of  11 obs.
-------------------------------------
?  OCT  30, 1993  13h 25m 04.11± 1.13s
   14.158 S ±30.7km   73.073 W ±22.2km
   DEPTH = 146.1 ± 43.9 km
 CENTRAL PERU                       (116)

ARE     2.75 147 eP     25 49.00   0.0
NNA     4.26 300 eP     26 08.50   0.0
       0.6s    20.00nm
                 i      26 12.30
                 eS     26 58.50
LPAZ    5.22 115 iPc    26 21.40  -0.5
LPB     5.35 117 eP     26 30.00   6.6X
     Z  24s     2.33um
CNCB    5.57 119 P      26 27.20   0.6
MOCB    9.99 136 P      27 25.60  -0.1
     S.D. = 0.8  on   5 of   6 obs.
-------------------------------------
   OCT  30, 1993  14h 04m 43.49± 0.29s
   19.305 S ± 9.0km  176.231 W ± 5.7km
   DEPTH =  17.4km  ( 15 depth phases)
   5.3mb ( 33 obs.)  5.3Msz ( 10 obs.)
 FIJI ISLANDS REGION                (181)
      Mw 5.7 (HRV). Mo=1.2*10**18 Nm
      (PPT).
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 32S, 68C
      Centroid Location:
      Origin Time        14:04:45.7 0.3
      Lat 19.48S 0.03 Lon 176.10W 0.03
      Dep  15.0 FIX Half-duration  1.7
      Moment Tensor;    Scale 10**17 Nm
        Mrr=-1.26 0.05   Mtt=-2.42 0.07
        Mff= 3.68 0.07   Mrt=-1.28 0.13
        Mrf=-0.78 0.20   Mtf=-0.03 0.05
       Principal Axes:
        T  Val=  3.81   Plg= 9   Azm= 92
        N       -0.53       55       195
        P       -3.28       34       356
      Best Double Couple:Mo=3.5*10**17
       NP1:Strike=139 Dip=60 Slip=-161
       NP2:          39     74      -32

SVA     5.17 282 eP     06 03.80   1.9
VUN     5.19 284 eP     06 03.10   0.8
AFI     6.86  39 eP     06 24.00  -1.8
PVC    14.74 274 iP     08 23.10  10.1X
BKM    14.82 274 iPc    08 18.00   3.9X
DZM    16.44 257 iPc    08 35.10   0.0
                 i      16 27.20
SNZO   23.26 197 eP     09 56.00   5.2X
                 e(S)   14 25.00
HNR    25.05 290 eP     10 08.00  -0.4
RIV    32.40 237 eP     11 25.00  10.5X
CNB    34.27 235 iPc    11 32.80   1.9
       1.0s    80.00nm          5.6mb
CAN    34.56 235 eP     11 33.30   0.0
BWA    34.74 237 eP     11 32.80  -2.2
                 e      11 43.70  39kmX
PMG    36.73 280 eP     11 50.50  -1.4
LAT    37.87 284 eP     12 01.80   0.4
TOO    37.94 233 iPc    12 02.90   1.0
       1.0s   157.00nm          5.8mb
MDG    39.54 286 eP     12 09.50  -6.0X
STK    39.81 243 eP     12 16.80  -0.7
       1.1s    19.90nm          4.7mb
ADE    42.66 239 e(P)   12 41.60   0.6
WR2    46.40 261 eP     13 08.60  -2.5
       1.1s     6.00nm          4.5mb
ASPA   46.42 255 iPd    13 09.30  -2.0
       1.2s    47.70nm          5.4mb
     Z  22s     3.70um          5.3Msz
GUA    50.29 308 eP     13 42.50   1.1
GUMO   50.36 308 eP     13 42.10   0.2
WARB   52.78 251 eP     13 58.00  -2.2
       1.3s   167.00nm          5.8mb
DRV    55.03 200 eP     14 16.00  -0.1
SBA    59.17 184 eP     14 50.50   5.2X
MBL    59.65 256 eP     14 47.80  -1.6
       1.2s   171.00nm          6.1mb
DAV    63.02 289 eP     15 08.80  -3.4X
MAT    70.26 322 eP     16 02.00   4.2X
       1.1s    10.13nm          4.9mb
     Z  20s     0.71um          4.9Msz
                 eS     25 09.00
SPA    70.81 180 iPc    16 01.90   0.9
       1.1s    47.62nm          5.5mb
                 i      38 03.90
LEM    74.74 268 ePc    16 30.50   5.5X
YSS    75.66 332 (P)    16 34.40   5.1X
BCH    75.97  45 (P)    16 30.48  -1.0
                 i      16 37.29  22km
SAO    76.02  43 eP     16 31.18  -0.5
       1.1s    19.98nm          5.1mb
                 i      16 37.27  20km
COE    76.18  42 (P)    16 32.23  -0.3
ARN    76.32  42 ePc    16 34.41   1.1
                 i      16 39.11  15km
ABL    76.35  45 eP     16 34.52   0.7
KMPM   76.67  38 (P)    16 36.02   0.8
PLM    77.12  48 eP     16 36.09  -2.0
PEC    77.21  47 (P)    16 37.83  -0.5
       1.1s    20.85nm          5.1mb
ISA    77.32  45 ePd    16 39.07   0.1
       1.2s    31.30nm          5.2mb
CMB    77.46  42 (P)    16 39.60  -0.1
       1.3s    17.69nm          5.0mb
ORV    77.69  40 (P)    16 42.22   1.4
KLI    77.96 269 eP     16 40.00  -2.9
                 e      17 18.00 153kmX
GSC    78.23  46 eP     16 43.61  -0.4
LBFM   78.56  39 (P)    16 45.43  -0.5
BONR   78.75  43 eP     16 46.85  -0.2
                 e      16 52.85  19km
TNP    79.52  43 eP     16 51.60   0.4
       1.1s    17.93nm          5.0mb
TPNV   79.52  45 eP     16 49.52  -1.6
       0.6s     4.42nm          4.7mb
TUC    80.94  51 eP     17 00.02   1.3
       2.0s   109.77nm          5.5mb
                 e      17 05.08  16km
BMW    81.07  34 eP     16 58.16  -0.8
                 e      17 03.90  18km
SHW    81.41  35 eP     17 01.83   0.9
KGM    81.66 275 eP     17 03.00   0.3
SVW    81.83  10 eP     17 02.99   0.3
       1.1s    49.41nm          5.5mb
ARUT   81.86  45 (P)    17 02.47  -1.0
                 i      17 09.28  22km
GMW    81.99  33 eP     17 04.31   0.6
                 e      17 09.61  17km
LON    81.99  34 eP     17 03.31  -0.5
SLKM   82.27  13 eP     17 04.29  -0.7
RMW    82.45  34 eP     17 06.82   0.6
                 i      17 11.84  16km
CP2    82.57  11 eP     17 05.97  -0.7
CRP    82.59  11 eP     17 05.37  -1.4
MCW    82.69  32 eP     17 07.96   0.6
MSU    83.09  45 eP     17 10.77   0.9
                 e      17 16.50  18km
PMR    83.48  13 eP     17 09.98  -1.1
       1.1s    26.04nm          5.3mb
TTA    83.50   9 eP     17 11.44   0.2
       1.1s    23.34nm          5.3mb
DUG    83.54  44 eP     17 12.21   0.1
       1.1s    13.24nm          5.0mb
KLU    84.10  14 (P)    17 14.14  -0.2
HVU    84.40  42 eP     17 16.78   0.4
                 e      17 21.53  15km
SRU    84.50  45 eP     17 15.63  -1.4
BALM   84.57  16 (P)    17 17.05   0.3
TOA    84.58  14 eP     17 17.10   0.4
DPW    84.62  35 eP     17 16.94  -0.3
                 i      17 22.00  16km
EMUT   84.66  45 eP     17 18.86   1.0
                 i      17 23.61  15km
DAU    84.67  44 (P)    17 17.16  -0.8
IPM    84.67 277 ePd    17 19.90   1.8
       1.4s    77.00nm          5.7mb
LTX    85.01  57 eP     17 20.11   0.5
PV09   85.14  47 eP     17 21.14   0.8
PV10   85.15  47 eP     17 20.01  -0.3
                 i      17 26.10  19km
PTI    85.23  41 (P)    17 20.79   0.3
ALQ    85.36  51 eP     17 21.01  -0.4
       1.1s    30.50nm          5.4mb
PV08   85.51  47 (P)    17 22.96   0.7
BJI    86.23 315 eP     17 27.00   1.7
       1.5s    14.00nm          4.9mb
     Z  24s     0.76um          5.0MszX
                 eS     27 52.00
                 eSS    33 24.00
FBA    86.73  12 eP     17 25.69  -1.6
       1.1s    49.37nm          5.6mb
LRM    86.74  39 eP     17 32.60   4.6X
IMA    86.80   9 eP     17 27.86   0.1
       1.4s    24.89nm          5.2mb
GOL    88.29  47 eP     17 35.98   0.3
       0.9s    11.29nm          5.2mb
                 e      17 40.50  14km
GLD    88.42  47 (P)    17 37.52   1.4
       1.3s    25.88nm          5.4mb
NST    89.28 287 eP     17 45.00   4.6X
RSSD   91.14  43 eP     17 49.37   0.5
       1.3s    34.82nm          5.5mb
MEO    91.16  54 e(P)   17 49.10   0.2
CHTO   91.41 289 eP     17 53.00   2.7
       1.8s    49.30nm          5.6mb
YAK    91.62 338 iP     17 49.20  -1.1
       1.5s    33.00nm          5.5mb
INK    92.70  15 eP     18 01.00   5.8X
       1.2s     9.00nm          5.1mb
TIK    98.02 345 iPd    18 15.00  -4.4X
       1.4s    15.00nm          5.4mb
ZAK    98.77 320 eP     18 28.00   4.9X
       2.2s    17.00nm          5.2mb
SVE   123.94 326 ePKPd 23 47.00   5.1X
     Z  20s     0.70um          5.3Msz
     N  19s     0.50um
     E  19s     0.60um
SOB1  127.66 119 ePKP  23 50.80   0.4
BUL   133.85 213 iPKPd 24 07.50   5.3X
       1.0s     6.00nm
KAF   134.44 345 ePKP  24 02.10   0.3
       0.7s     5.00nm
TAB   138.67 306 ePKP  24 17.00   6.2X
MUD   142.68 355 ePKP  24 19.80   2.7X
       1.1s    10.00nm
KIS   145.58 329 ePKP  24 26.00   3.7X
     Z  20s     0.70um          5.4Msz
VAL   145.63  15 ePKP  24 28.20   6.0X
KAS   146.30 317 ePKP  24 24.50   0.7
```

30d 14h

```
OJC   146.61 341 ePKP  24 25.70   1.8
       1.1s    61.00nm
KSP   147.00 345 ePKP  24 25.00   0.5
       1.1s    82.00nm
                i      24 27.20
                i      24 33.20
UZH   147.14 337 ePKP  24 27.70   2.9X
       1.4s   195.00nm
     Z  22s     0.90um          5.5Msz
                i      24 32.70
                i      24 42.80
CFR   147.21 327 ePKP  24 29.00   4.0X
CLL   147.24 349 iPKP  24 26.60   1.7
       1.4s    49.00nm
                i      24 32.40
DBN   147.25 358 ePKP  24 28.00   3.2X
WTS   147.29 357 ePKP  24 27.50   2.6X
       1.1s    17.20nm
                i      24 33.90
SPC   147.37 340 ePKP  24 32.50   7.1X
VRI   147.43 330 ePKP  24 30.00   4.6X
BRG   147.48 348 iPKPc 24 28.60   3.3X
       1.2s    85.00nm
     Z  22s     0.36um          5.1Msz
     N  22s     0.84um
     E  22s     0.24um
                i      24 34.10
ISR   148.05 329 ePKP  24 29.00   2.5X
MLR   148.08 330 ePKP  24 29.00   2.4X
MOX   148.11 351 ePKP  24 30.10   3.8X
     Z  22s     0.50um          5.3Msz
PRU   148.20 347 ePKP  24 29.90   3.4X
       1.4s    68.90nm
     Z  20s     0.70um          5.4Msz
     N  20s     0.60um
     E  20s     0.10um
                i      24 35.10
BNS   148.29 356 ePKPc 24 30.80   4.2X
VRAC  148.34 344 PKP   24 30.80   4.1X
ENN   148.56 357 ePKP  24 24.00  -3.0X
       0.6s     3.10nm
                e      24 33.00
UCC   148.57 359 PKP   24 32.00   5.0X
PSZ   148.59 339 e(PKP)24 39.60  12.3X
SNF   148.86 359 PKP   24 32.20   4.7X
GRF   149.10 351 ePKPc 24 33.20   5.2X
     Z  22s     0.40um          5.2Msz
                id     24 38.80
SRO   149.20 341 ePKP  24 33.00   4.9X
KHC   149.21 347 PKP   24 33.00   4.8X
       1.3s    12.10nm
     Z  21s     0.90um          5.5Msz
     N  22s     0.50um
     E  20s     0.30um
                i      24 38.00
                i      24 48.50
                e      25 27.50
ZST   149.22 342 ePKP  24 32.00   3.9X
DOU   149.27 359 PKP   24 35.70   7.5X
WET   149.34 348 ePKP  24 33.30   4.9X
                i      24 39.40
GEC2  149.46 347 PKP   24 33.20   4.6X
       1.4s    24.01nm
                e      24 40.30
WLF   149.65 357 iPKPc 24 33.43   4.7X
       1.4s    46.00nm
                ic     24 40.78
LANF  150.22 355 PKP   24 36.71   7.1X
FUR   150.57 350 ePKP  24 36.10   5.9X
                i      24 42.10
                i      24 48.00
BHG   150.70 347 iPKPc 24 36.50   6.1X
WLS   150.82 355 PKP   24 36.38   5.8X
CDF   150.83 355 PKP   24 36.49   5.8X
ECH   151.03 355 PKP   24 36.38   5.5X
VITF  151.10 357 PKP   24 36.91   5.9X
FEL   151.29 354 PKP   24 37.37   5.9X
WTTA  151.38 349 iPKPd 24 37.30   5.6X
       1.2s    32.10nm
                i      24 44.10
                i      24 49.60
MOF   151.39 355 PKP   24 36.71   5.2X
MOTA  151.40 350 iPKPd 24 37.30   5.6X
       1.1s    46.20nm
                i      24 43.90
                i      24 53.00
PTJ   151.63 342 ePKP  24 34.90   2.9X
BBS   151.75 355 PKP   24 37.68   5.6X
LJU   151.89 344 ePKP  24 38.60   6.4X
                 ePKPab24 45.00
                 epP'ab24 55.10
LOMF  151.91 356 PKP   24 38.79   6.4X
VBY   152.19 343 ePKP  24 39.80   7.1X
                 iPKPab24 46.00
SKO   152.87 330 ePKP  24 38.00   4.2X
OHR   153.85 330 ePKP  24 40.20   5.0X
FIR   154.80 347 ePKP  24 31.00  -5.3X
     S.D. = 1.1  on  85 of 150 obs.
-----------------------------------
   OCT  30, 1993  14h 17m 58.03± 0.58s
   41.204 N ± 6.3km   21.992 E ± 4.2km
   DEPTH =  10.0km  (geophysicist)
 NORTHWESTERN BALKAN REGION        (383)
      ML 2.4 (THE).

GRG      0.40 128 ePg   18 06.30   0.1
                  eSg   18 13.86
VAY      0.45  75 iPg   18 07.40   0.2
                  iSg   18 15.00
FNA      0.63 228 ePg   18 09.89  -0.8
                  eSg   18 18.86
KNT      0.69  93 ePg   18 11.42  -0.2
                  eSg   18 21.30
SKO      0.87 332 e(Pg) 18 15.20   0.4
                  eSg   18 25.00
OHR      0.91 265 ePg   18 15.50   0.1
SOH      1.10 110 ePb   18 18.86   0.2
LIT      1.17 161 ePb   18 20.70   0.9
SRS      1.21  94 ePb   18 19.70  -0.9
     S.D. = 0.6  on   9 of   9 obs.
-----------------------------------
?  OCT  30, 1993  14h 26m 46.77± 5.36s
   44.327 N ±44.5km    6.926 W ±14.1km
   DEPTH =  10.0km  (geophysicist)
 NORTH ATLANTIC OCEAN              (402)
      mbLg 3.0 (MDD).

EMON     0.94 198 iPc   27 04.57  -0.1
                  e     27 13.10
STS      1.86 220 iPd   27 19.14   0.2
                  e     27 40.00
ERUA     1.94 185 iPd   27 20.47   0.3
                  e     27 40.90
EZAM     2.53 211 eP    27 28.32  -0.3
                  e     27 55.70
GUD      4.21 150 eP    27 52.49  -0.1
                  e     28 38.30
     S.D. = 0.3  on   5 of   5 obs.
-----------------------------------
&  OCT  30, 1993  14h 44m 21.05s
   61.323 N          150.212 W
   DEPTH =  39.2km
 SOUTHERN ALASKA                   (  2)
      <AEIC>. ML 3.2 (AEIC), 3.2
      (PMR).

SUA      0.29 299 iPd   44 29.31   0.0
                  iS    44 36.24
PMS      0.32 104 P     44 29.50  -0.1
PWA      0.37  26 P     44 29.50  -0.5
PMR      0.59  62 iPc   44 31.66  -1.2
PTE      0.74 128 eP    44 34.53  -0.5
GHO      0.76  53 iPc   44 34.53  -1.0
                  eS    44 45.93
NKA      0.77 221 ePc   44 36.20   0.8
SLKM     0.82 180 iPc   44 35.12  -1.1
                  eS    44 47.11
KNK      0.85  83 iPc   44 35.90  -0.8
                  eS    44 48.48
CGLM     0.87 270 iPc   44 36.26  -0.7
SPU      0.90 262 iPc   44 36.41  -1.0
                  iS    44 48.99
SKT      0.91 317 iPc   44 36.66  -0.9
                  eS    44 49.50
MPA      0.93 153 iPc   44 37.07  -0.8
                  eS    44 50.03
CRP      0.94 267 eP    44 36.82  -1.3
NCG      0.94 276 iPc   44 37.31  -0.7
                  iS    44 50.61
CKN      0.96 265 iPc   44 37.64  -0.6
CKT      0.97 264 iPc   44 37.56  -0.9
CP2      0.98 267 eP    44 37.49  -1.2
SML      1.02  61 iPc   44 38.05  -1.1
                  eS    44 52.77
PWL      1.02 116 ePc   44 38.33  -0.8
                  eS    44 52.71
BKG      1.02 257 iPc   44 38.20  -1.0
                  eS    44 52.83
CKL      1.04 264 iPc   44 38.47  -0.9
BGL      1.05 268 iPc   44 38.77  -0.9
CUT      1.09 359 ePd   44 39.08  -0.9
CFI      1.19  96 iPc   44 40.59  -0.8
SEW      1.28 163 eP    44 41.45  -1.3
DFR      1.41 240 iPc   44 43.74  -1.0
SCM      1.47  68 iPc   44 44.54  -1.0
REF      1.48 237 iPc   44 44.79  -0.9
RSO      1.51 236 eP    44 45.32  -0.9
RS2      1.51 236 iPc   44 45.34  -0.9
RDW      1.52 238 iPc   44 45.44  -1.0
NCT      1.53 241 iPc   44 45.54  -0.9
RED      1.55 235 iPc   44 45.66  -1.0
                  eS    45 05.28
BRLK     1.60 192 eP    44 46.10  -1.2
                  eS    45 06.28
HUR      1.68   9 eP    44 48.52   0.0
LTI      1.73 137 eP    44 46.79  -2.4
VZW      1.79  97 eP    44 48.54  -1.6
HOM      1.81 204 eP    44 49.72  -0.7
ILIM     1.84 228 ePc   44 49.81  -1.0
                  eS    45 13.86
MTU      1.84 136 eP    44 48.90  -1.9
CNPM     1.87 196 ePd   44 49.94  -1.3
VLZ      1.89  94 ePc   44 49.76  -1.6
                  eS    45 12.83
INE      1.89 229 eP    44 50.66  -1.0
FID      1.91 106 eP    44 49.41  -2.3
HIN      2.04 115 eP    44 52.11  -1.6
KLU      2.07  83 iPc   44 52.31  -1.9
                  eS    45 17.98
TOA      2.08  66 P     44 53.50  -0.7
TRF      2.14 359 eP    44 54.75  -0.4
RND      2.18  16 eP    44 55.74   0.0
OPT      2.24 223 eP    44 56.39  -0.2
KTH      2.26 352 eP    44 56.76  -0.1
CVA      2.31 108 eP    44 55.46  -2.0
TZL      2.39  70 eP    44 57.63  -1.1
MCK      2.49  13 eP    45 01.67   1.6
PDB      2.50 234 eP    44 58.62  -1.5
SDG      2.52  59 eP    44 59.69  -0.8
AUE      2.52 220 eP    45 00.02  -0.4
AUL      2.52 221 P     45 02.00   1.5
AGU      2.54 221 P     45 02.50   1.6
AUH      2.54 221 P     45 01.70   0.9
AUW      2.54 221 eP    45 01.11   0.3
SGAM     2.58 106 P     45 01.00  -0.4
SVW      2.63 268 eP    44 59.92  -2.1
PAX      2.77  51 eP    45 03.67  -0.5
RAGM     2.87 107 eP    45 04.68  -0.8
BWN      2.88   7 eP    45 06.83   1.3
SYI      2.93 203 eP    45 04.44  -1.9
CDD      2.95 217 eP    45 05.33  -1.3
MCNL     2.97 226 eP    45 06.38  -0.5
HMT      3.08 106 eP    45 05.56  -2.8
GLB      3.08  85 eP    45 06.00  -2.5
TTA      3.17 303 eP    45 07.47  -2.2
WRH      3.31  16 eP    45 11.78   0.2
HDA      3.44  24 eP    45 14.36   0.9
MLY      3.73 357 eP    45 16.73  -1.0
FBA      3.76  16 eP    45 17.13  -0.9
MDM      3.76  13 eP    45 17.66  -0.4
IL1      3.78  22 eP    45 17.91  -0.4
ILB      3.78  22 eP    45 18.50   0.2
BALM     3.82  91 eP    45 16.06  -3.0
GLM      3.89  18 eP    45 21.82   1.8
BC3      4.32  62 eP    45 23.74  -2.2
CTGM     4.32  91 eP    45 23.76  -2.3
PRP      4.71  25 eP    45 32.15   0.5
IM3      4.94 343 eP    45 32.78  -1.9
IMA      5.01 344 eP    45 33.61  -2.2
BM3      6.58  19 eP    45 57.80  -0.1
     88 obs. associated
-----------------------------------
&  OCT  30, 1993  16h 31m 05.14s
   63.146 N          151.538 W
   DEPTH =  11.3km
 CENTRAL ALASKA                    (  1)
      <AEIC>. ML 3.3 (AEIC), 3.7
      (PMR).

KTH      0.49  34 iPc   31 14.82  -0.4
TRF      0.64  61 iPc   31 17.40  -0.6
```

```
HUR      0.88 100 iPd    31 21.69   -0.3
                  eS     31 33.33
CUT      0.95 141 iPd    31 23.10    0.1
SKT      1.17 180 iPc    31 26.73   -0.2
                  eS     31 42.02
RND      1.24  77 iPd    31 27.96   -0.2
                  eS     31 44.75
MCK      1.31  62 eP     31 29.13   -0.1
                  eS     31 46.34
BWN      1.38  41 ePc    31 30.05   -0.2
PWA      1.69 152 P      31 34.90    0.3
SUA      1.73 167 eP     31 35.65    0.3
                  eS     31 58.98
NCG      1.77 190 eP     31 35.77   -0.2
                  iS     31 59.67
NEA      1.80  36 eP     31 34.53   -1.8
GHO      1.84 137 eP     31 36.90    0.0
                  eS     32 00.67
CGLM     1.86 187 eP     31 36.79   -0.4
CRP      1.91 189 ePc    31 37.42   -0.6
                  eS     32 02.74
CP2      1.92 190 iPc    31 38.09   -0.1
PMR      1.92 143 eP     31 37.81   -0.2
BGL      1.93 192 eP     31 38.62    0.3
CKN      1.95 189 eP     31 39.13    0.6
CKT      1.98 189 eP     31 39.28    0.4
SPU      1.99 187 ePc    31 38.90   -0.1
CKL      1.99 191 eP     31 39.84    0.7
SML      2.00 131 eP     31 38.75   -0.5
WRH      2.03  47 eP     31 37.80   -1.8
TTA      2.05 266 eP     31 38.32   -1.7
BKG      2.11 190 eP     31 40.95    0.1
PMS      2.12 153 P      31 41.00    0.0
CCB      2.23  46 ePc    31 40.61   -2.0
KNK      2.26 139 eP     31 43.47    0.5
MDM      2.33  37 ePc    31 42.05   -1.9
SCM      2.36 122 eP     31 45.08    0.7
HDA      2.40  56 eP     31 43.08   -1.8
FBA      2.41  41 ePn    31 42.88   -2.2
                  eS     32 20.19
NKA      2.42 177 eP     31 47.78    2.7
GLM      2.60  43 eP     31 45.86   -1.9
DFR      2.62 192 eP     31 48.62    0.5
IL1      2.62  49 ePc    31 46.03   -2.1
ILB      2.62  49 eP     31 46.05   -2.0
                  eS     32 21.67
CFI      2.65 136 eP     31 49.44    1.0
NCT      2.68 195 eP     31 50.63    1.7
TOA      2.69 110 P      31 49.20    0.1
SLKM     2.72 166 eP     31 47.72   -1.8
REF      2.72 192 eP     31 49.82    0.1
RDW      2.74 193 eP     31 50.59    0.6
PWL      2.75 145 eP     31 50.59    0.7
RS2      2.75 193 eP     31 50.88    0.7
PAX      2.77  91 eP     31 50.26    0.0
SVW      2.80 225 ePn    31 50.34   -0.4
                  eS     32 32.44
SDG      2.82 100 eP     31 50.88    0.0
MPA      2.86 158 eP     31 51.56    0.1
IM3      3.00 342 eP     31 52.78   -0.7
IMA      3.08 344 ePn    31 53.28   -1.3
KLU      3.10 120 eP     31 55.42    0.5
VZW      3.14 130 eP     31 56.14    0.7
ILIM     3.15 193 eP     31 55.50   -0.1
VLZ      3.17 127 eP     31 56.26    0.5
INE      3.18 194 eP     31 57.13    1.0
SEW      3.21 161 eP     31 58.03    1.6
FID      3.39 133 eP     31 59.94    1.0
DOT      3.40  78 eP     31 59.40    0.2
PRP      3.54  45 eP     31 59.26   -1.9
LTI      3.58 149 eP     32 01.46   -0.2
OPT      3.60 194 P      32 04.30    2.3
PDB      3.60 202 eP     32 02.23    0.3
CNPM     3.64 178 eP     32 02.82    0.3
GLB      3.99 112 eP     32 07.72    0.2
CDD      4.35 195 P      32 13.10    0.4
BC3      4.43  87 eP     32 13.06   -0.7
BALM     4.81 112 ePn    32 18.33   -0.9
BM3      5.18  31 eP     32 21.10   -3.3
        70 obs. associated
-----------------------------------
*  OCT  30, 1993  16h 43m 45.84± 1.53s
   16.720 N ±16.4km   99.087 W ± 7.7km
   DEPTH =  27.0 ±  9.8 km
 NEAR COAST OF GUERRERO, MEXICO   ( 58)

ACX      0.75 281 eP     44 00.50    0.2
                  iS     44 12.50
III      1.69 348 iP     44 13.50   -0.6
                  iS     44 36.50
OXX      2.29  81 eP     44 22.75    0.0
                  (S)    44 47.50
PPM      2.37  11 eP     44 25.00    0.7
                  (S)    44 59.50
UNM      2.60 358 (P)    44 31.00    3.7X
CRX      2.73 348 (P)    44 29.50    0.4
IISM     2.78  36 eP     44 29.25   -0.3
                  iS     45 04.00
MRX      3.58 326 (P)    44 40.50   -0.4
     S.D. = 0.7  on   7 of   8 obs.
-----------------------------------
?  OCT  30, 1993  17h 05m 06.76± 3.94s
   32.198 S ±37.9km   70.955 W ±18.9km
   DEPTH =  90.0km  (geophysicist)
 CHILE-ARGENTINA BORDER REGION    (127)
      MD 3.9 (SAN).

JACH     0.57 148 iP+    05 22.17   -0.3
                  iS     05 34.83
ROCH     0.77 184 iPd    05 24.73    0.2
                  iS     05 39.05
PEL      0.97 167 iP+    05 26.59    0.1
                  iS     05 42.60
FCH      1.26 154 iP+    05 30.43    0.2
                  iS     05 49.43
LCCH     1.37 202 iP+    05 31.56    0.3
TACH     1.45 179 iP+    05 32.37    0.1
                  iS     05 53.13
PCH      1.47 165 iPd    05 32.44   -0.1
                  iS     05 53.38
LNV      1.79 192 iP+    05 36.21   -0.5
                  iS     06 01.55
     S.D. = 0.3  on   8 of   8 obs.
-----------------------------------
*  OCT  30, 1993  17h 56m 27.89± 1.70s
    5.130 S ± 9.4km  154.366 E ±21.8km
   DEPTH =  33.0km  (normal)
   5.2mb (  5 obs.)
 SOLOMON ISLANDS                  (193)

RAB      2.38 293 iPd    57 06.00    0.5
        0.5s  4000.00nm
KVG      4.35 305 ePc    57 33.10   -0.3
PMG      8.32 239 eP     58 29.00   -0.2
GUA     20.79 333 eP     01 09.40    0.5
        0.9s   188.24nm          5.5mb
GUMO    20.85 333 eP     01 09.20   -0.4
        1.3s   196.50nm          5.3mb
                  e      01 10.60
WR2     24.41 231 iPc    01 44.50   -0.2
        0.2s    46.40nm          5.7mb
                  eS     05 41.20
ASPA    26.99 225 eP     02 10.60    1.7
        0.3s     5.80nm          4.7mb
                  eS     06 24.50
WARB    33.77 229 eP     03 09.00    0.0
        0.3s     2.00nm          4.5mb
MEEK    40.26 234 eP     04 02.00   -1.7
ACO    106.26  53 iPdiff10 27.30 -12.1X
FRB    113.83  19 ePdiff11 08.00  -4.3X
JAQ    116.78  31 ePdiff11 27.50   1.7X
                  pP     11 56.00
LSZ    122.97 248 iPdiff11 40.10 -14.2X
        1.5s     4.50nm
                  i      12 09.00
BRG    123.72 331 ePKP   15 20.80  -3.1X
        1.6s    66.00nm
                  e      15 49.80
GEC2   125.14 329 PKP    15 32.60   5.8X
        0.6s     0.88nm
DLF    129.50 345 ePdiff12 36.60  14.3X
        1.3s   205.00nm
DCN    129.64 346 ePdiff12 34.90  12.0X
        1.4s   166.00nm
     S.D. = 1.0  on   9 of  17 obs.
-----------------------------------
   OCT  30, 1993  17h 59m 02.77± 0.12s
   31.704 S ± 2.8km   68.232 W ± 3.2km
   DEPTH = 107.3km  (geophysicist)
   5.9mb ( 44 obs.)
 SAN JUAN PROVINCE, ARGENTINA     (137)
      Mw 5.8 (HRV). mb 6.3 (BRK).
      Mo=6.8*10**17 Nm (PPT). Felt
      (VI) in San Juan Province. Also
      felt in San Luis, Mendoza and
      Cordoba Provinces. Depth from
      broadband displacement
      seismograms.
      FAULT PLANE SOLUTION: P-Waves
       NP1:Strike= 52 Dip=69 Slip=  90
       NP2:        232     21        90
       Principal Axes:
        T                Plg=66  Azm=322
        P                  24       142
      Comment: The focal mechanism is
        poorly controlled and
        corresponds to normal
        faulting. The preferred fault
        plane is not determined.
      RADIATED ENERGY
       No. of sta:   5  Focal mech.  F
       Energy        4.5±1.9*10**12 Nm
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 46S, 95C
      Centroid Location:
      Origin Time       17:59: 8.5 0.2
      Lat 31.77S 0.02 Lon  68.16W 0.02
      Dep 125.6 0.8 Half-duration  2.0
      Moment Tensor;   Scale 10**17 Nm
        Mrr=-5.09 0.10  Mtt=-0.03 0.18
        Mff= 5.12 0.17  Mrt=-2.78 0.10
        Mrf=-0.82 0.10  Mtf= 2.36 0.16
       Principal Axes:
        T  Val=  6.33  Plg= 9  Azm=114
        N       -0.01      22       208
        P       -6.32      66         3
      Best Double Couple:Mo=6.3*10**17
       NP1:Strike=180 Dip=41 Slip=-125
       NP2:         43     58       -64

CFA      0.10 356 iPc    59 19.20    1.1
                  S      59 32.00
ZON      0.41 292 iPd    59 19.70    0.6
                  eS     59 29.70
RTLL     0.43 331 iPd    59 20.50    1.4
RTCB     0.53 294 ePd    59 21.00    1.1
MDZ      1.29 204 iP     59 28.60    1.3
                  iS     59 44.40
JACH     2.23 243 iPd    59 39.91    0.7
FCH      2.38 227 iPd    59 42.41    1.0
PEL      2.52 235 iPd    59 43.19    0.1
ROCH     2.67 241 iP+    59 44.58   -0.7
SAN      2.69 229 iPd    59 45.44    0.1
                  iS     00 05.00
PCH      2.71 225 iPd    59 46.04    0.4
TACH     3.00 229 iPd    59 48.83   -0.6
RFA      3.06 184 ePd    59 38.20  -12.2X
CACH     3.12 219 iPd    59 51.70    0.5
TCA      3.13  84 iPc    59 52.90    1.6
IHA      3.17 245 iPd    59 49.90   -1.8
                  i(S)   00 17.70
LCCH     3.33 237 iPd    59 52.15   -1.7
LNV      3.49 229 iP     59 54.35   -1.7
CYA      3.88  34 iPd    00 01.50    0.1
FSA      5.93  20 iPd    00 31.00    1.5
SLA      7.36  20 iPc    00 49.90    0.6
                  (S)    01 18.00
HJA      8.82  17 iPd    01 09.70    0.7
YJA      9.80  15 ePd    01 20.50   -2.2
MOCB    10.67  13 P      01 32.80   -1.5
CNCB    14.83   1 P      02 27.20   -1.5
LPB     15.10   0 iPd    02 34.00    1.9
LPAZ    15.35   0 P      02 34.60   -0.8
ARE     15.46 348 eP     02 38.00    1.5
PPD     17.89  62 iPc    03 05.10   -1.0
RSTA    18.31  72 ePc    03 10.10   -1.1
AGVB    20.09  58 iPc    03 29.70   -0.3
                  i      03 32.60   11kmX
                  e      04 02.00
                  e      04 09.80
                  eS     07 06.40
VAO     20.75  71 eP     03 36.90    0.1
                  e      03 58.30  107kmX
CACB    21.61  68 eP     03 44.60   -0.9
                  e      03 47.20    9kmX
                  e      03 49.30
                  e      04 06.80
                  e      04 21.30
                  e      04 32.40
                  e      05 01.00
```

30d 18h

		eS	07	35.60	
		e	10	25.60	
BAO	24.42	54	iPd	04 12.80	0.0
		e	04	23.10	38kmX
		e	04	25.50	
		e	04	35.20	
		e	04	38.00	
SOB1	33.83	55	ePc	05 36.00	-0.9
		e	05	40.80	16kmX
BOG	36.55	350	eP	06 01.50	1.3
		eS	11	36.00	
FUQ	37.34	351	iPd	06 07.00	0.2
SDV	40.42	356	iPd	06 30.90	-1.3
OLLA	41.51	2	iPd	06 40.00	-1.0
CAR	41.99	2	iPc	06 40.80	-4.2X
CANV	42.50	359	iPc	06 48.10	-1.0
TBH	42.50	10	iPc	06 49.67	0.6
GRW	44.07	9	iPd	07 00.87	-0.9
MGP	49.44	1	P	07 42.40	-1.3
PNP	49.50	2	P	07 42.30	-1.9
CPD	49.51	3	P	07 42.00	-2.3X
CLLP	49.52	2	P	07 42.70	-1.7
SJG	49.57	3	iPd	07 42.59	-2.2
			(sP)	08 18.85	
LRS	49.73	2	P	07 43.90	-2.1
LPR	49.78	3	P	07 44.00	-2.4X
APR	49.89	2	P	07 44.80	-2.3X
TPX	51.76	330	(P)	08 02.00	0.6
OXX	55.68	326	(P)	08 31.50	1.1
ACX	57.04	323	(P)	08 40.50	0.7
IISM	57.64	327	(P)	08 45.50	1.6
III	58.11	325	(P)	08 48.50	0.9
PPM	58.29	326	(P)	08 50.50	1.3
UNM	58.79	325	(P)	08 53.50	1.1
CRX	59.09	325	(P)	08 56.50	2.0
MRX	60.10	324	(P)	09 01.50	0.6
AGX	62.48	324	(P)	09 19.00	2.1
HBF	65.30	349	iPd	09 34.19	-0.9
MZX	65.70	321	(P)	09 38.00	0.1
SBA	65.95	191	iPd	09 40.00	1.1
JSC	66.77	348	iPd	09 43.26	-1.2
			ipP	10 10.13	107kmX
PRM	66.78	347	P	09 43.20	-1.4
			pP	10 10.00	107kmX
LHS	66.89	349	iPd	09 44.08	-1.2
			epP	10 10.15	103kmX
MBO	67.20	55	iPd	09 49.90	2.3
			iS	18 41.90	
CEH	68.01	351	ePd	09 50.66	-1.6
	1.2s	262.00nm			6.0mb
			epP	10 18.04	109kmX
			(sP)	10 29.06	
MYNC	68.09	346	ePd	09 51.16	-1.6
	1.1s	262.08nm			6.1mb
			epP	10 12.28	81kmX
			(sP)	10 29.40	
OXF	68.82	341	ePc	09 55.05	-2.2
BLA	69.50	350	iPd	10 00.74	-0.7
	1.8s	411.73nm			6.0mb
NAV	69.66	349	iPd	10 01.42	-1.0
			(pP)	10 29.30	111kmX
UYO	70.02	337	iPd	10 04.00	-0.7
CBN	70.07	352	iPc	10 04.60	-0.2
			e	10 45.00	168kmX
MIAR	70.08	338	ePd	10 04.16	-0.8
	1.3s	280.69nm			5.9mb
			ePKKP	29 58.68	
LST	70.80	342	iPd	10 08.80	-0.5
			(pP)	10 36.12	108kmX
LIC	70.99	70	Pd	10 10.80	-0.2
TIC	71.25	69	Pd	10 12.60	0.1
KIC	71.30	70	Pd	10 13.00	0.2
ELC	71.38	342	iPc	10 11.23	-1.6
			e	10 36.97	100kmX
TUH	71.44	118	iPd	10 07.00	-6.4X
	1.2s	170.00nm			5.7mb
CER	71.52	118	iPd	10 09.50	-4.4X
	1.2s	220.00nm			5.9mb
FNO	72.03	335	iPc	10 15.20	-1.5
MEO	72.04	334	iPc	10 15.70	-1.1
TUL	72.06	337	iPd	10 08.70	-8.2X
OCO	72.29	335	iPc	10 17.00	-1.3
FVM	72.36	342	iPd	10 17.66	-0.9
	0.7s	424.40nm			6.4mb
			epP	10 45.81	111kmX
GMTN	72.43	355	iP	10 18.70	-0.2
			i	10 36.30	65kmX

LKO	72.53	67	Pd	10 20.30	0.2
	1.1s	327.00nm			6.1mb
PAL	72.53	355	eP	10 18.96	-0.5
TBR	72.69	355	iPd	10 20.10	-0.3
CRNY	72.82	356	iPd	10 20.88	-0.2
SUR	73.10	118	iPd	10 31.00	7.5X
	0.9s	296.00nm			6.1mb
LSCT	73.16	356	iPd	10 23.26	0.1
	1.3s	488.40nm			6.2mb
			epP	10 50.61	107kmX
PCO	73.17	336	iPc	10 22.80	-0.6
PPT	73.78	259	P	10 27.00	-0.4
			pP	10 56.00	114kmX
POF	73.81	115	iPc	10 14.50	-12.8X
	0.5s	91.00nm			
BINY	73.88	354	iPd	10 26.99	-0.4
	1.3s	237.37nm			5.8mb
HRV	73.91	357	iPd	10 27.35	-0.1
	1.5s	466.38nm			6.1mb
YSNY	74.42	352	ePc	10 29.31	-1.2
	0.8s	142.24nm			5.8mb
			ipP	10 58.23	114kmX
MAW	74.44	163	iP+	10 30.30	0.0
	0.9s	184.21nm			5.9mb
WIN	74.71	107	iPd	10 33.00	0.1
	1.4s	150.00nm			5.6mb
TYNO	75.20	351	P	10 34.03	-0.8
DLA	75.20	350	P	10 33.20	-1.7
STCO	75.22	352	P	10 34.35	-0.6
TUC	75.31	324	iPd	10 37.07	1.2
			epPc	11 03.88	104kmX
LDN	75.32	350	P	10 34.10	-1.5
ALQ	75.41	328	iPc	10 36.98	0.4
	1.2s	307.90nm			6.0mb
			epP	11 05.14	110kmX
			esP	11 18.04	
ELF	75.49	350	P	10 35.10	-1.5
LBNH	75.65	357	iPd	10 37.76	0.3
	1.3s	250.09nm			5.9mb
			(pP)	11 04.93	106kmX
ACTO	75.73	351	P	10 36.88	-1.0
WLVO	75.83	352	P	10 37.57	-0.9
GRM	76.93	121	e(P)	10 46.50	1.4
	1.0s	120.00nm			5.7mb
LMN	77.25	2	ePd	10 46.30	0.0
			pP	11 14.50	110kmX
GAC	77.32	355	ePd	10 46.50	-0.1
FRS	77.75	117	iPd	10 59.00	9.5X
	0.8s	100.00nm			5.7mb
GLA	77.99	321	iPd	10 51.44	0.7
			pP	11 19.97	111kmX
BLF	78.72	117	iPd	10 55.60	0.5
	0.7s	122.00nm			5.8mb
GLD	78.94	332	iPd	10 56.68	0.7
	1.4s	395.09nm			6.0mb
GOL	78.96	332	ePd	10 56.31	0.1
	1.3s	335.92nm			6.0mb
			epP	11 24.12	108kmX
PLM	79.32	320	iPd	10 59.18	1.0
			ipP	11 27.74	111kmX
PV08	79.40	329	iPd	10 59.32	0.6
			ipP	11 27.98	111kmX
PV10	79.41	328	iPd	10 58.37	-0.3
PV09	79.55	329	iPd	10 59.90	0.4
			epP	11 26.85	104kmX
DRV	79.60	191	eP	10 58.80	-0.1
			S	21 00.00	
			SS	26 10.00	
PEC	79.89	320	iPd	11 01.64	0.6
	1.6s	536.72nm			6.1mb
			pP	11 30.26	111kmX
SEK	80.20	117	iPd	10 56.00	-7.1X
	1.0s	160.00nm			5.8mb
SSK	80.42	320	iPd	11 04.78	0.8
			pP	11 33.43	111kmX
SRU	80.68	328	iPd	11 05.48	0.2
			(pP)c	11 34.03	111kmX
GSC	80.77	322	iPd	11 06.42	0.7
			epPc	11 34.56	109kmX
MSU	80.96	327	iPd	11 07.54	0.7
			epP	11 36.00	110kmX
ARUT	80.99	325	iPd	11 07.85	1.0
			epPc	11 36.50	111kmX
EMUT	81.38	328	iPd	11 09.15	0.2
			(pP)	11 35.60	101kmX
ISA	81.93	321	iPd	11 12.77	1.1
	1.3s	241.27nm			5.9mb

			epPc	11 39.58	103kmX
SLR	82.03	115	iPd	11 12.30	-0.4
	1.1s	88.61nm			5.5mb
	Z 18s	2.75um			5.7Msz
DAU	82.06	328	iPd	11 13.08	0.5
			epPc	11 41.50	110kmX
CSY	82.32	179	iPKPc	11 24.40	11.3X
	0.7s	196.80nm			
BCH	82.46	319	iPd	11 15.68	1.2
			epPc	11 45.40	115kmX
DUG	82.60	327	iPd	11 15.63	0.5
	1.3s	226.45nm			5.9mb
			epPc	11 42.61	103kmX
TNP	83.10	323	iPc	11 18.50	0.6
	0.9s	100.75nm			5.7mb
PHAM	83.11	320	eP	11 18.18	0.5
BFT	83.41	116	eP	11 20.00	0.1
	1.0s	40.00nm			5.3mb
MEMM	83.68	322	iPd	11 22.07	1.6
			epP	11 51.58	114kmX
HVU	83.84	328	iPd	11 21.48	0.0
			(pP)	11 50.22	110kmX
SAO	84.36	320	ePd	11 24.73	0.7
	2.2s	560.00nm			6.1mb
CMB	84.72	321	iPd	11 26.23	0.4
	1.8s	290.00nm			5.9mb
	Z 20s	0.30um			4.7Msz
			epPc	11 54.04	106kmX
			eS	21 46.31	
			eSS	27 33.31	
			eLQ	34 46.31	
			eLR	40 21.31	
ARN	84.84	320	iPd	11 27.66	1.3
COE	84.85	320	iPd	11 28.03	1.6
			(pP)	11 56.81	110kmX
MHC	84.89	320	ePd	11 27.79	1.0
ULM	85.19	343	ePd	11 30.00	2.2
			pP	11 59.00	111kmX
STAN	85.23	320	ePd	11 29.10	0.8
	1.7s	1180.00nm			6.5mb
HMR	85.57	320	iPd	11 31.72	1.8
			(pP)	12 01.48	114kmX
BKS	85.60	320	eP	11 29.09	-1.0
	1.8s	810.00nm			6.4mb
	Z 20s	0.20um			4.5Msz
			eS	21 59.09	
			eLQ	34 49.09	
			eLR	40 48.09	
ORV	86.42	322	iPd	11 34.91	0.8
			(pP)	12 03.62	110kmX
AVE	86.43	47	iP	11 34.00	-0.3
			i	12 05.00	120kmX
PGZ	86.57	223	P	11 35.90	0.9
	0.7s	73.00nm			5.8mb
TEHZ	86.65	224	P	11 36.90	1.4
LRM	86.94	331	iPd	11 37.40	0.6
			e	12 06.30	110kmX
			e	12 16.80	
MNG	87.03	223	P	11 37.90	0.6
			e	12 07.10	112kmX
WAHZ	87.10	224	P	11 38.90	1.2
TNF	87.25	49	iP	11 44.05	5.8X
LTZ	87.43	220	P	11 39.80	0.6
	0.6s	89.00nm			6.0mb
			e	12 06.10	99kmX
WDC	87.71	322	iPd	11 39.74	-0.6
	1.2s	170.00nm			5.9mb
	Z 18s	0.30um			4.7Msz
			epP	12 07.55	105kmX
			eS	22 34.21	
			eSS	28 20.21	
			eLQ	35 25.21	
			eLR	41 55.21	
THZ	87.75	221	P	11 41.70	0.9
	0.6s	32.00nm			5.5mb
			e	12 08.70	102kmX
LBFM	87.93	323	iPd	11 42.06	0.4
IFR	88.01	48	iP	11 44.00	1.8
			i	18 51.00	
LGPM	88.11	322	iPd	11 42.70	0.3
			epPc	12 11.62	110kmX
DSZ	88.38	220	P	11 43.20	-0.6
	0.7s	196.00nm			6.3mb
			e	12 09.80	100kmX
RSA	88.46	47	iP	11 45.50	1.5
QRZ	88.59	221	P	11 44.00	-0.8
	0.6s	89.00nm			6.0mb

```
                e     12 10.70 100kmX
YBH    88.63 322 ePd   11 44.16  -0.7
       1.1s    80.00nm          5.7mb
     Z  18s     0.20um          4.6Msz
                eS    22 18.52
                eSS   28 15.52
                eLQ   36 27.52
                eLR   42 20.52
FHC    88.64 321 iPd   11 46.13   1.3
       1.6s   799.51nm          6.6mb
                ipP   12 15.98 114kmX
MOZ    88.80 224 P     11 45.60  -0.2
TZK    88.98  48 iP    11 47.50   1.0
CPS    89.21  46 iP    11 49.00   1.5
VIPM   89.61 325 P     11 50.34   0.9
EVAL   89.68  44 eP    11 50.12   0.4
JBO    89.94 327 P     11 51.43   0.6
CROR   90.13 326 P     11 52.77   1.0
EPRU   90.18  46 eP    11 53.54   1.4
VGB    90.43 326 iPd   11 53.61   0.6
                epPc  12 22.08 108kmX
VBEM   90.48 325 P     11 54.03   0.6
RNO    90.72 323 P     11 55.17   0.7
EHOR   90.73  45 iPd   11 54.61   0.1
SSOR   90.76 325 P     11 54.58  -0.1
WAH2   90.78 328 P     11 54.80   0.3
DPW    91.01 329 iPd   11 55.72   0.1
                (pP)  12 24.71 110kmX
ELUQ   91.15  46 iPd   11 57.38   0.8
ASR    91.28 326 P     11 57.60   0.6
EBG    91.35 327 P     11 57.84   0.6
ECOG   91.40  46 eP    11 58.21   0.4
SAW    91.41 328 P     11 57.32  -0.2
WTV    91.66 328 P     11 58.68   0.0
EPLA   91.70  43 eP    11 59.65   0.6
LON    91.82 326 iPd   11 59.06  -0.4
KMOR   91.82 325 P     12 00.03   0.5
EBAN   91.83  45 iPd   12 00.15   0.5
FMW    91.89 327 P     11 59.56  -0.4
ENIJ   92.05  47 eP    12 00.73   0.0
BMW    92.30 325 iPd   12 01.99   0.4
                (pP)c 12 29.39 103kmX
EHUE   92.34  46 iP+   12 01.63  -0.5
PAB    92.38  44 eP    12 02.25   0.0
                epP   12 30.46 106kmX
                e     12 38.97
                isP   12 43.23
ERUA   92.64  40 eP    12 03.43   0.2
GMW    92.86 326 iPd   12 03.78  -0.3
                (pP)c 12 32.26 107kmX
EVIA   92.91  46 eP    11 59.70  -5.0X
JCW    92.92 327 P     12 03.87  -0.6
GUD    93.20  43 eP    12 06.31   0.3
MCW    93.69 327 iPd   12 08.20   0.2
                epP   12 37.24 110kmX
STW    93.70 326 P     12 08.24   0.3
ECHE   94.44  46 iPd   12 12.1[illegible]  0.5
ECHE   94.44  46 iPd   12 12.30   0.[illegible]
ETOR   94.54  44 iPc   12 13.40   1.2
ECRI   95.39  43 eP    12 16.92   0.9
EROQ   96.03  45 iPc   12 19.83   1.0
ELIZ   96.30  43 eP    12 20.95   0.9
EGRA   96.42  44 iPd   12 22.32   1.[illegible]
ESEL   96.93  47 eP    12 24.11   1.2
YKA   100.96 340 ePdiff12 39.7[illegible]  -1.0
       0.8s    10.10nm          5.[illegible]
EKA   102.94  32 Pdiffc12 49.5[illegible]  -[illegible]
       1.2s    31.10nm          [illegible]
VITF  103.52  41 Pdiff 12 51.[illegible]
LOMF  103.53  43 Pdiff 12 52.[illegible]
MOF   103.98  42 Pdiff 12 54.[illegible]
ECH   104.18  42 Pdiff 12 55.[illegible]
CDF   104.35  42 Pdiff 12 56.[illegible]
WLF   104.38  40 iPdiff12 57.[illegible]
       1.5s    12.60nm          [illegible]
                e     13 [illegible]
WLS   104.40  42 Pdiff 12 5[illegible]
FEL   104.49  42 Pdiff 12 5[illegible]
WTS   105.96  38 e(PKP)17 [illegible]
GRF   107.24  42 ePKP  17 34.[illegible]
     Z  21s     0.20um          4.[illegible]Msz
                e(pP) 18 [illegible]
                e(sP) 18 11.5[illegible]
MOX   107.92  41 ePKP  17 17.5[illegible]  -1.[illegible]
GEC2  108.28  44 PKP   17 18.7[illegible]  -[illegible]
       0.8s     2.42nm
                e     17 41.8[illegible]
```

```
                e     17 48.20
PRU    109.28  43 ePKP  17 32.20  10.9X
       2.2s    93.90nm
                iPP   17 46.50
                e     18 05.50
                i     18 14.00
                i     18 22.50
ZST    110.02  45 ePKP  17 07.40 -15.4X
                e     17 38.70
                iPP   17 52.40
                i     18 20.20
SKO    110.17  53 e(PKP)17 42.50  19.2X
                i     18 04.50
KSP    110.66  42 ePKP  17 24.00   0.1
                e     17 58.50
                e     18 35.60
INK    110.67 339 ePdiff13 24.00   0.3
MBC    112.32 348 ePKP  17 27.00   0.7
       1.0s     4.00nm
SPC    112.32  45 ePKP  17 10.20 -17.2X
                e     17 27.90
                e     18 11.00
NB2    112.39  31 PKP   17 26.10  -0.8
       0.8s     6.20nm
MTUR   113.87  50 ePKP  17 24.00  -6.4X
MLR    114.54  50 ePKPc 17 30.00  -1.7
VRI    115.19  50 ePKP  17 30.50  -2.3
NWAO   115.51 185 ePKP  17 32.60  -1.2
                e     18 03.00
CFR    115.90  51 ePKP  17 22.00 -12.1X
MUN    116.52 184 ePKP  17 34.20  -1.5
                e     18 04.00
IMA    116.74 333 ePKP  17 31.30  -4.0X
       0.7s     4.30nm
TTA    116.74 329 PKP   17 34.86  -0.4
KLB    116.79 186 iPKPc 17 35.00  -1.3
                e     18 04.80
KIS    116.97  50 iPKP+ 17 36.00  -0.1
                i     18 53.00
BAL    117.85 185 iPKPc 17 36.90  -1.4
                e     18 07.00
MNK    118.20  42 ePKP  17 37.00  -1.2
NUR    118.40  34 iPKP  17 37.50  -0.9
       0.4s    13.10nm
MRWA   119.28 184 ePKP  17 40.00  -1.1
                e     18 10.00
KAF    119.56  33 iPKP  17 39.50  -1.0
       0.4s    13.60nm
WARB   120.71 196 ePKP  17 42.00  -1.9
       0.6s     8.00nm
ASPA   121.01 204 iPKPd 17 43.00  -1.5
       1.0s     8.00nm
     Z  23s     0.60um          5.2MszX
                epPKP 18 12.20
                iPKKP 27 47.10
                e     28 15.60
CBN    123.60  42 ePKP  17 47.50  -1.0
       1.6s   374.30nm
     Z  18s   192.60um          7.8MszX
     E  18s   212.20um
                epPKP 18 18.10
                esPKP 18 27.10
                e     36 00.00
[illegible]    124.26 206 iPKPc 17 49.50  -1.4
       0.7s     5.80nm
                ipPKP 18 19.20
                e     25 57.00
                e     26 13.80
                iPKKP 27 34.70
                i     28 03.80
                i     28 16.80
[illegible]    124.26  41 iPKPd 17 48.00  -1.8
       1.8s   250.00nm
                e     18 21.00
[illegible]    124.27 206 PKP   17 49.20  -1.7
       0.7s    82.00nm
[illegible]    124.32 206 ePKP  17 49.10  -1.9
                ePPKP 18 19.00
                esPKP 18 29.80
                ePKKP 27 34.60
                ePKKP 28 13.20
                e     30 49.00
[illegible]    125.28 314 ePKP  17 49.91  -1.9
PYA    125.84  56 iPKPc 17 53.00  -0.3
EPE    126.05  61 iPKP  17 54.00   0.1
       1.6s    16.00nm
PEP    126.55  69 iPKPd 17 54.60  -0.5
```

```
ILT    126.65 334 iPKPd 17 53.30  -0.7
       1.2s    42.00nm
                i     19 58.00
PMG    126.92 226 ePKP  17 55.50  -0.6
SHI    129.56  76 iPKP  18 02.00   1.0
ARU    135.95  40 iPKPd 18 12.30   0.2
       2.0s   200.00nm
                e     18 42.00
                e     18 54.00
                e     20 49.00
ASH    136.21  67 ePKP  18 10.00  -3.1X
MAIO   136.85  69 ePKP  18 03.00 -11.6X
                i     18 15.00
                i     21 26.00
SVE    136.97  39 ePKPd 18 14.00   0.0
       2.7s   250.00nm
                e     18 46.50
TIK    138.96 352 iPKP  18 05.00 -12.2X
       1.5s    19.00nm
     Z  22s     0.40um          5.1Msz
                e     18 15.00
                e     18 45.00
                e     21 08.00
NRI    139.94  13 ePKPd 18 18.00  -1.0
     Z  21s     2.70um          6.0MszX
                e     18 50.00
                e     21 22.00
PET    140.24 316 ePKP  18 12.00  -8.0X
                e     21 28.00
AAI    141.49 207 ePKP  18 17.30  -6.2X
QUE    141.73  80 ePKP  18 18.20  -5.6X
KLI    143.05 168 ePKP  18 23.50  -2.7X
GBA    143.76 112 PKPc  18 25.00  -2.3
GUA    144.66 247 ePKP  18 26.80  -2.1
       0.7s   783.56nm
                pP    18 56.80
GUMO   144.73 247 iPKPd 18 27.08  -1.9
                ipP   18 56.41
                e     19 15.37
PJG    144.73 247 ePKP  18 27.10  -1.9
                pP    18 56.60
HYB    146.76 107 iPKPd 18 32.80   0.5
       1.0s   310.00nm
MNI    147.47 205 ePKPc 18 32.10  -1.5
YAK    147.52 344 iPKPd 18 30.50  -1.7
       1.8s  1081.00nm
                ipP   18 58.00
FRU    148.65  59 iPKP  18 35.40   0.7
       2.0s  1780.00nm
                i     19 08.00
KUR    148.95 306 iPKPd 18 38.00   3.1X
       1.6s  1620.00nm
KGM    149.41 163 ePKPc 18 36.40  -0.2
       0.9s   223.60nm
                e     19 09.90
KSH    150.03  65 PKP   18 37.90   0.9
NDI    150.06  87 iPKPd 18 37.70   0.5
YSS    151.83 312 ePKPc 18 44.10   4.9X
       1.0s   160.00nm
                e     18 52.00
                i     19 15.10
                e     19 24.30
TSM    152.14 193 ePKPc 18 47.10   6.4X
DAV    152.32 211 ePKP  18 41.00   0.1
SNG    153.47 155 ePKP  18 27.50 -15.0X
KKM    154.14 190 ePKPc 18 50.00   6.4X
GKN    156.21  92 PKP   18 46.60   0.5
DMN    156.50  93 PKP   18 47.20   0.6
KKN    156.70  93 PKP   18 47.20   0.4
PKI    156.74  93 PKP   18 47.20   0.2
GUN    157.24  93 PKP   18 48.40   0.7
WMQ    157.54  51 iPKPd 18 47.50   0.3
MAJO   157.62 290 ePKP  18 46.52  -0.9
                iPKPab19 20.62
                i     19 50.00
MAT    157.62 290 ePKP  18 46.00  -1.4
IRK    158.74  13 ePKP- 18 48.00  -0.2
                e     19 16.00
                e     23 00.00
KHT    159.29 141 ePKP  18 50.50   0.7
CIT    159.67 357 ePKP  18 50.00   0.7
                e     19 30.00
                e     23 10.00
ZAK    160.30  16 iPKPd 18 50.30   0.5
       2.0s   131.00nm
                e     19 31.50
                e     23 07.00
```

30d 18h

```
NST   160.84 144 iPKPd 18 52.00   0.6
MDJ   161.01 318 ePKP  18 50.00  -0.8
BDT   161.53 138 ePKP  18 50.00  -2.0
LSA   162.16  91 PKP   18 54.50   1.5
     Z  40s     2.02um
                pPKP  19 22.00
CHTO  162.72 135 iPKPd 18 53.80   0.6
       1.1s    50.35nm
LOE   163.10 145 iPKPc 18 53.90   0.3
SNY   166.17 320 PKPd  18 54.00  -1.6
     Z  30s     0.88um
                pPKP  19 22.00
                PKPab 19 56.00
                PP    23 43.00
QIZ   167.26 172 PKPc  18 58.80   1.6
GTA   167.60  48 iPKPd 18 57.60   0.6
                pPKP  19 27.50
                sPKP  19 40.80
KMI   169.70 127 PKPd  18 59.50   0.6
                pPKP  19 30.00
HHC   170.87   1 PKPc  19 00.20   1.3
BJI   170.95 338 ePKP  18 59.00   0.3
     Z  28s     0.76um
                epPKP 19 28.00
                ePKPab20 12.00
BTO   171.01   9 iPKPd 19 00.50   1.6
SSE   171.93 268 PKPd  19 00.00   0.6
     Z  20s     0.90um
LZH   172.10  54 iPKPd 19 01.00   1.4
     Z  35s     1.41um
                pPKP  19 28.00
                e     20 24.00
                i     20 53.00
                PP    24 13.00
                i     24 46.00
                SKKS  30 48.00
                SS    45 16.00
CD2   173.10  95 PKP   19 00.70   0.7
                pPKP  19 30.00
                PKPab 20 29.00
                PP    24 22.30
                SKKS  30 57.50
                eSS   45 24.00
GYA   173.13 138 iPKPd 19 00.00  -0.2
TIA   173.68 317 PKPd  19 00.30   0.3
NJ2   173.96 275 PKPc  19 00.00  -0.2
TIY   173.98 355 PKPd  19 00.70   0.6
     Z  20s     1.00um
                pPKP  19 31.00
XAN   176.66  45 PKPd  19 01.50   0.6
     Z  20s     0.61um
                pPKP  19 31.00
                PKPab 20 44.70
WHN   177.50 243 PKPd  19 02.00   1.0
                PKPab 20 49.00
                PP    24 44.50
     S.D. = 1.0  on 293 of 330 obs.
-----------------------------------
%  OCT  30, 1993  18h 44m 12.84± 2.11s
   44.515 N ± 6.3km    7.044 E ±18.4km
   DEPTH =   5.0km  (geophysicist)
 NORTHERN ITALY                    (545)
      ML 2.3 (GEN).

PZZ     0.04 103 P     44 16.11   1.8
                S     44 17.17
STV     0.34 143 P     44 20.52   0.9
                S     44 24.63
BHB     0.36  26 P     44 21.01   0.9
                S     44 25.04
ENR     0.39 137 P     44 21.24   0.4
                S     44 26.00
ROB     0.63 110 P     44 26.23   0.7
RSP     0.65  13 P     44 26.41   0.5
                S     44 35.38
IMI     0.86 135 P     44 30.39   0.5
FIN     0.89 110 P     44 30.22  -0.2
     S.D. = 0.7  on   8 of   8 obs.
-----------------------------------
?  OCT  30, 1993  19h 06m 23.76± 1.22s
   31.700 S ±32.0km   68.349 W ±36.9km
   DEPTH = 100.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA      (137)

CFA     0.13  46 iPc   06 38.30   0.0
                S     06 49.70
RTCV    0.23 225 ePc   06 38.50   0.0
                S     06 50.00
RTLL    0.38 344 iPd   06 39.00  -0.1
                S     06 50.50
RTCB    0.44 299 ePd   06 39.50   0.0
                S     06 52.70
     S.D. = 0.1  on   4 of   4 obs.
-----------------------------------
*  OCT  30, 1993  19h 29m 58.23± 0.74s
   31.809 S ±11.4km   68.184 W ±11.7km
   DEPTH = 100.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA      (137)

CFA     0.21 347 iPc   30 13.40   0.5
                S     30 23.70
ZON     0.50 302 eP    30 05.00  -9.3X
                eS    30 14.00
RTLL    0.54 333 iPc   30 14.50  -0.1
                S     30 26.50
RTCB    0.62 301 iPc   30 15.00  -0.3
                S     30 27.00
RFA     2.96 184 ePc   30 44.30   0.0
                S     31 15.00
TCA     3.10  82 iP    30 46.10  -0.1
                (S)   31 23.00
     S.D. = 0.4  on   5 of   6 obs.
-----------------------------------
   OCT  30, 1993  20h 28m 38.87± 0.75s
   26.858 S ± 8.5km   26.676 E ± 7.5km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA          (584)
      ML 3.9 (PRE).

BFS     0.11 112 iPd   28 41.50   0.3
                S     28 42.50
SWZ     1.25 255 eP    29 04.90   2.3
                S     29 22.10
SLR     1.82  53 eP    29 12.50   1.2
BLF     2.28 191 eP    29 18.80   0.8
                S     29 45.20
FRS     3.12 202 iPc   29 29.50  -0.1
                S     29 59.90
HVD     3.87 195 eP    29 12.00 -28.6X
PKA     4.45 230 eP    29 47.90  -0.8
                S     30 36.90
GRM     6.43 181 eP    30 23.50   6.8X
                S     31 33.50
POF     6.45 246 eP    30 16.20  -0.6
BEW     6.54 212 eP    30 16.40  -1.8
BUL     6.92  15 iPn   30 22.00  -1.5
                iSg   32 13.10
SUR     7.50 221 eP    30 37.00   5.2X
                S     32 05.00
CER     9.10 223 eP    30 45.00  -8.9X
                S     32 30.00
TUH     9.14 224 eP    30 46.40  -8.1X
                S     32 27.00
WIN     9.70 294 eP    31 02.50   0.2
                S     32 47.50
     S.D. = 1.4  on  10 of  15 obs.
-----------------------------------
?  OCT  30, 1993  20h 40m 00.83± 1.38s
   38.352 N ± 8.9km   30.460 E ±13.9km
   DEPTH =   5.0km  (geophysicist)
 TURKEY                            (366)
      ML 3.2 (ISK).

KHL     0.74 268 iPg   40 15.30  -0.3
                eSg   40 25.80
ALT     0.75 339 iPg   40 15.50  -0.5
                eSg   40 25.90
BCK     0.90 173 ePg   40 18.50   0.0
                eSg   40 33.00
DST     1.90 312 ePn   40 35.00   0.8
     S.D. = 1.0  on   4 of   4 obs.
-----------------------------------
&  OCT  30, 1993  20h 44m 49.70s
   61.635 N          146.564 W
   DEPTH =  34.5km
 SOUTHERN ALASKA                   (  2)
      <AEIC>. ML 3.2 (AEIC), 3.4
      (PMR).

KLU     0.34 115 iPd   44 57.65  -0.5
                eS    45 04.38
SCM     0.41 299 iPc   44 58.43  -0.7
                eS    45 05.23
TOA     0.51  21 P     44 59.70  -0.7
VLZ     0.52 167 iPd   44 59.39  -1.1
                eS    45 08.17
VZW     0.58 180 iPd   45 00.36  -1.1
TZL     0.68  52 iPc   45 02.14  -0.7
CFI     0.74 232 eP    45 02.88  -0.7
                eS    45 13.37
SML     0.86 282 iPc   45 04.11  -1.3
                eS    45 16.55
FID     0.89 177 eP    45 05.29  -0.5
                eS    45 18.67
KNK     0.93 257 iPc   45 05.99  -0.5
                eS    45 18.76
SDG     1.02  28 iPc   45 06.46  -1.2
GHO     1.13 278 iPc   45 08.24  -1.2
PWL     1.16 229 iPc   45 09.21  -0.5
                eS    45 25.30
CVA     1.16 160 eP    45 09.24  -0.5
PMR     1.23 269 iPc   45 09.51  -1.2
                eS    45 25.77
HIN     1.24 179 eP    45 10.76  -0.2
SGAM    1.32 149 eP    45 11.21  -0.8
GLB     1.33  97 iPc   45 10.91  -1.4
PAX     1.44  20 iPc   45 12.41  -1.4
                eS    45 31.03
PMS     1.49 256 P     45 14.30  -0.3
RAGM    1.55 143 eP    45 14.62  -0.9
PWA     1.58 272 P     45 15.30  -0.5
HMT     1.72 138 ePc   45 16.57  -1.3
MTU     1.74 198 eP    45 17.22  -0.8
MPA     1.78 231 eP    45 17.47  -1.2
THY     1.83  12 eP    45 19.58   0.2
CUT     1.91 295 iPc   45 20.24  -0.2
HUR     1.97 315 eP    45 20.95  -0.4
SUA     2.01 267 eP    45 21.40  -0.6
TGL     2.01 114 ePc   45 20.59  -1.5
RND     2.07 330 eP    45 22.62  -0.3
SEW     2.09 224 eP    45 22.48  -0.5
SLKM    2.11 239 eP    45 22.32  -1.0
BALM    2.12 105 iPc   45 21.95  -1.7
MID     2.22 177 P     45 24.00  -0.9
DOT     2.33  29 eP    45 26.71   0.2
TMW     2.37  43 eP    45 26.20  -0.9
MCK     2.37 334 eP    45 26.57  -0.5
SKT     2.38 281 iPc   45 26.22  -1.0
NKA     2.43 250 eP    45 28.77   0.9
DJE     2.44   9 P     45 30.00   2.0
TRF     2.51 318 eP    45 28.75  -0.4
CTGM    2.61 103 eP    45 29.14  -1.4
CGLM    2.63 265 eP    45 29.33  -1.5
BC3     2.65  55 eP    45 29.90  -1.2
YAH     2.67 116 ePc   45 29.60  -1.9
SPU     2.68 263 eP    45 29.92  -1.5
NCG     2.69 268 eP    45 30.29  -1.4
CRP     2.71 265 eP    45 30.92  -1.1
                eS    46 10.44
CKN     2.73 264 P     45 33.90   1.7
CKT     2.75 263 eP    45 31.76  -0.7
CP2     2.75 265 eP    45 32.09  -0.6
HDA     2.79 357 eP    45 32.12  -0.9
KTH     2.79 316 eP    45 32.48  -0.6
BKG     2.80 261 eP    45 31.62  -1.7
CKL     2.81 264 eP    45 31.63  -1.8
BGL     2.82 265 eP    45 31.91  -1.7
BWN     2.87 334 eP    45 33.49  -0.7
WRH     2.93 347 eP    45 34.20  -0.8
CCB     3.08 350 eP    45 34.74  -2.3
CNPM    3.13 230 eP    45 36.17  -1.7
DFR     3.15 253 eP    45 36.63  -1.6
ILB     3.15 357 eP    45 35.58  -2.6
IL1     3.15 357 eP    45 35.59  -2.6
NEA     3.17 340 eP    45 36.26  -2.1
RS2     3.23 251 eP    45 38.06  -1.5
RDW     3.25 252 eP    45 38.57  -1.2
RED     3.26 251 eP    45 38.02  -1.7
NCT     3.27 254 eP    45 39.15  -0.8
FBA     3.32 351 P     45 40.70   0.1
GLM     3.39 354 eP    45 39.64  -1.9
MDM     3.42 348 eP    45 39.59  -2.4
INE     3.55 246 eP    45 41.71  -2.2
OPT     3.84 242 eP    45 46.48  -1.4
PRP     3.93   6 eP    45 48.09  -1.2
SVW     4.39 267 eP    45 52.40  -3.4
TTA     4.60 291 eP    45 55.90  -2.8
IM3     5.40 327 eP    46 06.99  -2.9
IMA     5.45 328 eP    46 09.40  -1.3
BM3     5.87   7 eP    46 14.36  -2.3
        80 obs. associated
```

```
-----------------------------------
*  OCT  30, 1993  20h 50m 37.30± 0.63s
   31.794 S ± 9.6km   68.194 W ±10.4km
   DEPTH = 100.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA     (137)

CFA     0.19 348 ePd    50 53.00   1.0
                 S      51 03.00
RTCV    0.30 257 iPd    50 52.50   0.4
                 S      51 03.90
ZON     0.48 301 eP     50 47.10  -6.1X
                 eS     50 56.10
RTLL    0.52 333 iPc    50 53.00  -0.5
                 S      51 05.00
RTCB    0.60 301 iPc    50 54.00  -0.2
                 S      51 05.50
RTRS    1.95 326 iPd    51 09.50  -0.2
RFA     2.98 184 ePc    51 23.30  -0.3
                 (S)    51 58.50
TCA     3.11  83 iPd    51 25.20  -0.2
                 (S)    51 58.00
     S.D. = 0.6  on   7 of   8 obs.
-----------------------------------
*  OCT  30, 1993  20h 58m 00.45± 1.04s
   5.048 S ±13.8km  145.052 E ± 9.2km
   DEPTH =  10.0km  (geophysicist)
   4.0mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

MDG     0.75 106 iPc    58 15.40   0.2
YYYY    1.50 142 eP     58 27.00  -0.5
MNDI    1.77 232 eP     58 33.00   1.5
WWKK    2.01 315 eP     58 34.70  -0.1
LAT     2.52 130 eP     58 42.70   0.6
PMG     4.81 154 eP     59 11.00  -3.6X
WR2    18.10 214 eP     02 08.40  -5.4X
        0.7s     7.40nm          3.9mb
ASPA   21.41 209 iPd    02 49.00  -1.8
        1.0s     8.80nm          4.1mb
     S.D. = 1.4  on   6 of   8 obs.
-----------------------------------
?  OCT  30, 1993  21h 14m 20.13± 3.44s
   31.794 S ±33.3km   68.224 W ±19.9km
   DEPTH = 106.0 ± 29.6 km
 SAN JUAN PROVINCE, ARGENTINA     (137)

CFA     0.19 356 iPd    14 35.80   0.3
                 S      14 47.20
RTCV    0.27 256 eP     14 36.00   0.2
ZON     0.46 302 iPc    14 33.20  -3.4X
                 eS     14 42.20
RTLL    0.51 336 iPc    14 36.70  -0.2
                 S      14 49.00
RTCB    0.58 302 iPc    14 37.00  -0.5
                 S      14 49.50
RTRS    1.94 326 iPd    14 52.80   0.2
                 S      15 16.90
TCA     3.13  83 iP     15 08.60  -0.1
                 (S)    15 44.00
     S.D. = 0.5  on   6 of   7 obs.
-----------------------------------
   OCT  30, 1993  21h 21m 04.14± 0.60s
    6.072 S ± 4.7km  145.951 E ± 7.0km
   DEPTH =  11.8 ±  4.3 km
   4.4mb (  6 obs.)
 NEW GUINEA, PAPUA NEW GUINEA     (202)

YYYY    0.17 174 iPd    21 08.30   0.1
MDG     0.83 348 iPc    21 20.10   0.0
LAT     1.20 119 iPc    21 25.90  -0.4
MNDI    2.28 268 eP     21 49.00   6.6X
WWKK    3.36 316 eP     22 04.60   7.0X
PMG     3.52 160 eP     22 00.00   0.2
RAB     6.46  74 e(P)   22 43.00   1.5
WR2    17.81 218 iPd    25 14.40   0.8
        0.8s    22.10nm          4.3mb
                 eS     28 39.50
ASPA   20.99 212 iPc    25 50.20   0.3
        0.9s    37.00nm          4.8mb
     Z  23s     0.60um          3.9MszX
                 eS     29 51.60
DZM    25.40 131 iPc    26 32.00  -1.3
STK    26.00 188 eP     26 38.10  -0.6
        1.8s     6.80nm          4.0mb
WARB   27.20 221 eP     26 50.00   0.2
        0.6s     5.00nm          4.4mb
XAN    53.08 321 eP     30 23.00  -0.8
        1.0s     4.50nm          4.4mb
                 pP     30 28.50  18kmX
TIY    53.59 327 eP     30 27.00  -0.5
CD2    54.58 315 eP     30 36.00   1.1
HHC    56.35 329 P      30 47.30  -0.3
GTA    62.13 321 eP     31 27.00  -0.7
        1.0s     4.00nm          4.6mb
LSA    63.45 307 P      31 37.40   0.4
WMQ    72.17 320 P      32 31.10   0.1
KIC   150.86 272 PKP    40 59.80   6.4X
TIC   151.15 273 PKP    41 00.00   6.2X
LIC   151.15 272 PKP    40 59.90   6.1X
LKO   151.60 279 PKP    41 01.15   6.6X
        0.6s    10.00nm
     S.D. = 0.8  on  17 of  23 obs.
-----------------------------------
%  OCT  30, 1993  21h 34m 22.11± 0.58s
   40.304 N ± 5.8km   29.337 E ± 5.5km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
     ML 2.7 (ISK).

IZI     0.11  72 iPg    34 25.20   0.2
                 iSg    34 26.70
HRT     0.58  26 ePg    34 33.70  -0.1
                 eSg    34 41.70
EYL     0.68  67 iPg    34 35.50  -0.2
                 eSg    34 45.20
ISK     0.79 345 ePg    34 37.70   0.3
                 eSg    34 48.70
DST     0.89 218 ePg    34 39.40   0.3
                 eSg    34 51.40
EDC     1.13 273 ePn    34 42.90  -0.3
ALT     1.38 154 ePn    34 47.40  -0.1
     S.D. = 0.3  on   7 of   7 obs.
-----------------------------------
   OCT  30, 1993  22h 08m 17.77± 0.45s
   39.723 N ± 4.3km   20.477 E ± 3.4km
   DEPTH =   5.1 ±  3.4 km
 GREECE-ALBANIA BORDER REGION     (392)
     ML 3.1 (TIR), 3.1 (THE). MD 3.3
     (ATH).

IGT     0.22 210 ePg    08 21.94  -0.3
                 eSg    08 26.54
SRN     0.40 293 iPgd   08 26.00   0.2
                 iSg    08 33.10
LSK     0.44  12 iPgc   08 25.50  -1.0
                 iSg    08 34.00
KEK     0.52 269 ePb    08 27.50  -0.8
TPE     0.67 328 iPgd   08 32.50   1.3
                 iSg    08 45.50
BERA    1.06 338 ePn    08 36.90  -1.2
VLO     1.06 315 ePn    08 39.90   1.7
                 iSn    08 56.80
KZN     1.15  59 ePn    08 39.00  -0.8
FNA     1.26  33 ePb    08 42.18   0.5
                 eSb    09 00.58
OHR     1.41  10 iPn    08 42.60  -1.5
                 i      08 46.80
                 i      09 05.30
                 i      09 07.30
                 Lg     09 08.50
VLS     1.55 177 ePn    08 46.00   0.0
LIT     1.59  76 ePb    08 47.70   1.0
                 eSb    09 09.22
TIR     1.69 344 ePn    08 48.70   0.7
                 iSn    09 18.50
GRG     1.92  49 ePn    08 51.89   0.5
                 eSn    09 17.62
LACI    2.00 343 ePn    08 52.00  -0.5
THE     2.11  64 ePn    08 54.94   0.8
                 eSn    09 20.78
VAY     2.26  44 ePn    08 56.00  -0.3
KNT     2.34  51 ePn    08 58.14   0.6
                 eSn    09 26.06
SKO     2.36  18 ePn    08 57.50  -0.3
SOH     2.46  63 ePn    08 59.18  -0.1
                 eSn    09 30.78
PAIG    2.47  84 ePn    08 59.10  -0.3
                 eSn    09 28.94
OUR     2.76  76 ePn    09 03.66   0.2
                 eSn    09 37.42
     S.D. = 0.9  on  22 of  22 obs.
-----------------------------------
&  OCT  30, 1993  22h 21m 42.93s
   63.129 N          151.469 W
   DEPTH =  11.3km
 CENTRAL ALASKA                    ( 1)
     <AEIC>. ML 2.5 (AEIC).

KTH     0.49  30 eP     21 52.38  -0.6
                 eS     21 59.81
TRF     0.62  58 eP     21 54.90  -0.6
                 eS     22 03.91
HUR     0.85  99 eP     21 58.97  -0.2
                 eS     22 10.71
CUT     0.91 142 iP     22 00.43   0.2
                 eS     22 12.23
SKT     1.15 181 eP     22 04.07  -0.3
                 eS     22 19.16
RND     1.22  76 iP     22 05.25  -0.2
                 eS     22 21.87
MCK     1.29  61 eP     22 06.81   0.1
BWN     1.38  40 eP     22 07.50  -0.5
PWA     1.66 153 P      22 12.60   0.6
SUA     1.71 168 eP     22 12.94   0.1
NCG     1.76 191 eP     22 13.25  -0.4
NEA     1.80  35 eP     22 15.02   1.0
GHO     1.80 138 eP     22 13.92  -0.3
                 eS     22 37.77
CGLM    1.85 188 iP     22 14.58  -0.2
CRP     1.90 190 eP     22 15.86   0.2
CP2     1.91 191 iP     22 16.22   0.4
BGL     1.92 193 eP     22 16.32   0.4
CKN     1.94 190 eP     22 16.80   0.6
CKT     1.97 190 eP     22 16.55   0.0
SML     1.97 131 eP     22 16.21  -0.4
SPU     1.97 188 eP     22 16.60   0.0
CKL     1.98 192 eP     22 15.36  -1.5
WRH     2.02  47 eP     22 15.56  -1.6
TTA     2.08 267 eP     22 16.14  -2.1
PMS     2.09 154 P      22 19.00   0.7
BKG     2.10 191 eP     22 18.31  -0.2
CCB     2.22  45 eP     22 18.20  -2.0
KNK     2.23 139 eP     22 21.19   0.9
SCM     2.32 122 eP     22 22.92   1.2
MDM     2.33  36 eP     22 19.74  -1.9
HDA     2.38  55 eP     22 23.80   1.4
FBA     2.40  41 P      22 26.20   3.4
ILB     2.61  49 P      22 27.20   1.5
IL1     2.61  49 eP     22 23.57  -2.1
DFR     2.61 193 eP     22 27.47   1.7
NCT     2.67 196 eP     22 27.52   0.9
SLKM    2.70 167 eP     22 28.24   1.2
REF     2.71 193 eP     22 30.51   3.1
RDW     2.73 194 eP     22 30.60   3.0
RS2     2.74 193 eP     22 30.72   2.9
SVW     2.81 226 P      22 32.50   3.8
MPA     2.83 158 eP     22 33.00   4.2
TZL     3.00 109 eP     22 31.10  -0.1
IM3     3.03 342 eP     22 31.34  -0.3
KLU     3.07 120 eP     22 33.12   0.9
ILIM    3.14 194 eP     22 37.08   3.8
       46 obs. associated
-----------------------------------
   OCT  30, 1993  22h 25m 22.05± 1.02s
   40.012 S ± 4.3km  174.477 E ± 4.7km
   DEPTH = 152.2 ± 12.1 km
 COOK STRAIT, NEW ZEALAND         (163)

BSZ     0.41  59 Pc     25 43.10  -0.1
                 S      25 55.30
NRZ     0.79 328 Pc     25 45.70   0.0
                 S      25 59.40
DIW     0.90 208 Pd     25 46.00  -0.5
KIW     0.91 159 P      25 46.00  -0.6
MNG     0.98 129 Pc     25 47.00  -0.1
                 S      26 01.60
CNZ     1.16  46 P      25 48.70  -0.1
CAW     1.18 158 Pc     25 49.00   0.1
NGZ     1.20  47 P      25 49.00  -0.3
TCW     1.21 187 P      25 49.20   0.1
MRW     1.23 172 Pc     25 49.40   0.0
                 eS     26 05.90
WEL     1.29 170 P      25 50.00   0.1
                 S      26 08.20
MTW     1.39 146 P      25 50.90   0.0
WAHZ    1.48  78 P      25 51.60  -0.3
PGZ     1.50 114 P      25 52.20   0.1
MOZ     1.53  10 P      25 52.70   0.4
                 S      26 12.90
BLW     1.55 151 P      25 52.80   0.1
AMW     1.62 143 P      25 53.60   0.2
```

30d 22h

```
QRZ      1.70 241 P     25 54.10  -0.1
                  eS    26 16.20
CCW      1.75 186 P     25 55.70   0.9
TEHZ     1.79  90 P     25 55.70   0.4
THZ      2.12 214 Pc    25 59.60   0.5
                  S     26 25.80
DSZ      2.67 229 P     26 06.30   0.4
LTZ      3.23 210 P     26 12.80  -0.2
                  S     26 48.00
MQZ      3.94 200 P     26 21.00  -1.1
                  eS    27 02.80
     S.D. = 0.4  on  24 of  24 obs.
-------------------------------------
%  OCT  30, 1993  22h 32m 54.84± 0.50s
   42.612 N ± 3.9km   18.859 E ± 4.4km
   DEPTH =  10.0km  (geophysicist)
 NORTHWESTERN BALKAN REGION       (383)

NKY      0.23  27 iPgc  33 00.12   0.4
                  iSg   33 04.17
HCY      0.31 238 iPgd  33 01.30  -0.1
                  iSg   33 05.98
BDV      0.33 184 iPgc  33 02.10   0.4
                  iSg   33 06.85
TTG      0.35 121 iPgd  33 02.20   0.2
                  iSg   33 07.56
BRY      0.37 321 iPgd  33 02.27  -0.2
                  iSg   33 07.95
ULC      0.71 156 iPgc  33 08.47  -0.4
                  iSg   33 18.79
IVA      0.81  71 iPgd  33 10.53   0.0
                  iSg   33 22.73
PLE      0.82  29 iPgc  33 10.82   0.1
                  iSg   33 22.92
PVY      0.82  91 iPgd  33 10.48  -0.4
                  iSg   33 23.51
     S.D. = 0.3  on   9 of   9 obs.
-------------------------------------
%  OCT  30, 1993  22h 53m 17.75± 0.84s
   26.916 S ± 8.7km   26.732 E ± 7.7km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA         (584)
     ML 2.7 (PRE).

BFS      0.05  70 iPd   53 18.60  -0.7
                  S     53 18.90
KSR      1.06   8 eP    53 38.50   0.2
SWZ      1.28 258 eP    53 41.80  -0.3
                  S     53 58.10
SEK      1.61 151 eP    53 47.40   0.3
                  S     54 06.90
SLR      1.82  50 eP    53 50.60   0.5
                  S     54 13.40
     S.D. = 0.7  on   5 of   5 obs
-------------------------------------
   OCT  30, 1993  23h 05m 53.01± 0.38s
   30.405 N ± 7.1km   67.651 E ± 5.3km
   DEPTH =  10.0km  (geophysicist)
   4.7mb ( 26 obs.)  4.5Msz (  3 obs
 PAKISTAN
     Felt (II) in the Quetta area

QUE      0.64 251 eP    06 05.20  -0.8
       0.5s  1380.28nm
                  eS    06 13.50
MAIO     9.00 313 eP    08 06.00  [illegible]
       0.9s    24.30nm
                  eS    09 51.00
ASH     10.76 317 eP    08 31.00  [illegible]
FRU     13.60  22 eP    09 09.00  [illegible]
       1.2s   100.00nm
                  e     11 30.00  [illegible]
HYB     16.31 140 eP    09 42.50  [illegible]
                  eS    12 29.00  [illegible]
GBA     19.00 150 P     10 18.00  [illegible]
                  S     13 41.00  [illegible]
LSA     20.35  86 P     10 36.00  [illegible]
       1.0s    27.00nm
     N  10s     0.43um
     E  10s     1.41um
                  pP    10 43.00  [illegible]
                  S     14 16.00  [illegible]
WMQ     20.78  44 P     10 36.00  [illegible]
     Z  10s     1.70um
                  pP    10 40.00  [illegible]
                  sP    10 43.00  [illegible]
                  PcP   14 40.50
```

```
ERE     21.21 304 iP    10 47.00   5.8X
                  eS    14 54.00
GRO     21.73 313 eP    10 49.00   2.8X
       1.0s   160.00nm          5.4mb
PYA     23.73 312 iPc   11 09.00   3.0X
ARU     26.76 349 eP    11 35.00   0.6
SVE     26.85 351 ePd   11 39.00   3.7X
     Z  12s     1.50um          4.8MszX
     N  12s     1.00um
     E  12s     0.60um
GTA     27.75  62 eP    11 43.50  -0.3
       1.5s    14.00nm          4.5mb
     Z  14s     0.87um          4.5MszX
     N  15s     0.70um
CHTO    30.60 105 iPc   12 09.00  -0.5
       1.0s    16.50nm          4.9mb
KMI     31.41  91 Pd    12 17.00   0.2
       1.2s    60.00nm          5.4mb
     Z  20s     1.20um          4.6Msz
OBN     33.12 327 eP    12 31.00  -0.1
       0.8s    21.00nm          5.1mb
     Z  12s     1.20um          4.8MszX
     N  12s     0.90um
     E  12s     1.00um
                  e     13 49.00
ZAK     33.24  43 eP    12 34.00   1.8
       1.0s     8.00nm          4.6mb
     Z  12s     0.49um          4.4MszX
                  eSS   20 10.00
GYA     34.42  87 iPd   12 43.00   0.1
       1.0s    29.00nm          5.1mb
XAN     34.94  73 eP    12 46.00  -1.1
       1.0s     6.30nm          4.4mb
     Z  20s     0.91um          4.5Msz
VRI     35.28 308 eP    12 52.50   2.6X
                  e     43 39.00
BTO     35.66  62 eP    12 53.00  -0.3
     N  12s     0.34um
     E  12s     0.21um
MLR     35.75 307 eP    12 52.00  -2.0
TIY     37.53  67 eP    13 05.10  -3.9X
     Z  16s     0.71um          4.6MszX
     N  15s     1.01um
UZH     38.78 311 eP    13 21.00   1.7
       1.3s    40.00nm          5.0mb
SPC     40.21 312 eP    13 33.10   1.7
                  e     43 41.90
TIA     41.39  68 eP    13 41.30   0.3
KAF     41.46 332 iP    13 39.80  -1.4
       0.4s     5.60nm          4.6mb
KSP     42.99 313 eP    13 53.30  -0.6
GEC2    44.44 310 P     14 05.30  -0.6
       0.6s     1.10nm          3.9mb
                  e     14 08.20
                  e     14 14.10
BRG     44.47 313 eP    14 07.70   1.8
KHC     44.55 311 eP    14 09.50   2.9X
KBA     44.59 308 iP    14 04.10  -3.1X
       1.0s     9.60nm          4.6mb
                  i     14 08.10
CLL     45.11 314 e(P)  14 14.00   3.0X
MCX     45.92 313 e(P)  14 17.90   0.4
     Z  22s     0.30um          4.2Msz
FIR     46.09 303 eP    14 18.50  -0.4
GRF     46.12 311 eP    14 17.20  -1.9
NBI     47.75 327 P     14 29.90  -1.9
       0.9s     3.00nm          4.4mb
[illegible]  50.41 312 P     14 53.60   1.2
[illegible]  50.58  33 eP    14 51.90  -1.6
       1.2s    25.00nm          5.0mb
     N  15s     0.50um
[illegible]  50.59 312 P     14 54.20   0.4
[illegible]  52.45  21 eP    15 06.00  -1.6
       1.0s    19.00nm          5.0mb
     Z  14s     0.40um          4.6MszX
[illegible]  62.73 222 iPd   16 23.00   2.1
       1.0s    10.00nm          5.0mb
[illegible]  73.52   2 eP    17 28.00   0.8
       0.9s     5.00nm          4.6mb
[illegible]  78.75  16 eP    18 01.00   4.0X
       0.7s     2.47nm          4.4mb
[illegible]  80.33   8 eP    18 05.50   0.2
       1.0s     3.00nm          4.2mb
FBA     81.07  15 eP    18 11.19   1.9
       1.0s     6.00nm          4.6mb
[illegible]  81.32 119 P     18 11.90   0.5
       0.7s     1.90nm          4.3mb
```

```
WR2     81.34 119 eP    18 11.00  -0.5
       0.7s     4.50nm          4.6mb
ASPA    83.22 122 iPd   18 21.10  -0.1
YKA     87.41   1 eP    18 39.40  -1.9
       0.7s     3.10nm          4.7mb
     S.D. = 1.2  on  41 of  51 obs.
-------------------------------------
*  OCT  30, 1993  23h 31m 43.59± 0.71s
   22.648 S ±20.3km   13.844 W ±11.8km
   DEPTH =  10.0km  (geophysicist)
   4.5mb (  3 obs.)
 SOUTHERN MID-ATLANTIC RIDGE      (410)

SOB1    29.17 293 eP    37 47.50   0.1
VAO     30.50 263 (P)   37 59.00  -0.3
CER     31.02 117 eP    38 34.50  30.8X
       1.0s    80.00nm
BAO     32.95 276 eP    38 21.20   0.3
                  e     38 29.60
                  i     38 32.50
PPD     34.60 264 eP    38 35.50   0.5
LSZ     40.32  87 eP    39 24.00   0.8
HJA     47.28 259 ePc   40 21.00   1.8
MOCB    47.86 261 P     40 25.10   0.7
CFA     48.81 247 e(P)  40 30.00  -1.1
RTLL    49.02 248 ePd   40 31.50  -1.3
CCH     49.21 266 P     40 34.50  -0.2
RTCB    49.29 247 ePc   40 35.00   0.1
CNCB    51.07 266 iPc   40 49.20   0.0
LPB     51.25 267 P     40 51.00   0.6
LPAZ    51.35 267 iPc   40 50.30  -1.1
ARE     54.40 266 eP    41 14.00   0.3
WTTA    73.28  18 i(P)  43 23.00   5.9X
       0.9s    11.20nm          4.9mb
KBA     73.61  19 i(P)  43 21.20   2.2
       0.7s     4.30nm          4.6mb
GEC2    75.30  18 PKP   43 27.40  -1.3
       0.9s     0.70nm          3.7mb
GRF     75.39  17 eP    43 29.40   0.4
KHC     75.53  18 eP    43 17.50 -12.3X
                  e     43 31.00
                  e     43 39.70
ZST     75.78  21 eP    43 30.50  -0.8
MLR     76.87  28 ePc   43 36.00  -1.6
BRG     77.20  18 eP    43 49.20  10.1X
EKA     78.20   6 Pc    43 54.70  10.2X
       0.9s     7.60nm
KAF     90.34  18 eP    44 51.30   5.6X
     S.D. = 1.1  on  20 of  26 obs.
-------------------------------------
?  OCT  31, 1993  00h 38m 18.71±11.26s
   10.811 N ±49.2km   70.225 W ±91.5km
   DEPTH =  33.0km  (normal)
 VENEZUELA                        (101)

TOV      1.10 157 eP    38 38.00   0.1
                  eS    38 49.20
CANV     1.39  80 iPd   38 43.20   1.2
                  iS    38 58.90
MORO     1.88  88 eP    38 48.40  -0.8
SDV      1.95 192 eP    39 01.60  11.2X
CEOS     2.57 133 eP    38 59.80   0.8
                  iS    39 23.10
     S.D. = 1.5  on   4 of   5 obs.
-------------------------------------
   OCT  31, 1993  00h 40m 25.15± 0.28s
   49.553 S ± 5.3km  123.274 E ± 7.0km
   DEPTH =  10.0km  (geophysicist)
   5.5mb ( 30 obs.)  5.0Msz (  5 obs.)
 SOUTH OF AUSTRALIA               (437)
     Mw 5.4 (HRV).
     CENTROID, MOMENT TENSOR     (HRV)
     Data Used: GDSN
     L.P.B.: 16S, 20C
     Centroid Location:
     Origin Time        00:40:31.5 0.4
     Lat 49.41S 0.07 Lon 122.91E 0.11
     Dep  15.0 FIX Half-duration  1.2
     Moment Tensor;   Scale 10**16 Nm
       Mrr=-2.29 0.55  Mtt=-4.79 0.46
       Mff= 7.09 0.74  Mrt= 1.50 1.43
       Mrf=-3.82 3.71  Mtf=-9.31 0.70
      Principal Axes:
       T  Val= 13.25  Plg=15  Azm= 62
       N       -3.32      75      224
       P       -9.93       4      330
     Best Double Couple:Mo=1.2*10**17
```

```
        NP1:Strike=105 Dip=77 Slip= 173
        NP2:       197      83        14

NWAO    17.21 343 eP     44 26.80  -0.3
        1.0s   234.00nm          5.3mb
CSY     18.03 197 iPd    44 44.80   7.8X
        0.9s    97.50nm          4.9mb
                  i      44 53.60
MUN     18.34 341 iPd    44 40.30  -0.8
        0.8s   132.00nm          5.2mb
KLB     18.41 345 eP     44 42.00   0.0
        1.0s   138.00nm          5.1mb
ADE     18.46  44 iPc    44 40.00  -2.7X
COOL    18.72 354 eP     44 45.50  -0.3
        1.0s   128.00nm          5.1mb
FORT    19.10  13 eP     44 49.00  -1.4
        0.8s    99.00nm          5.1mb
DRV     19.18 160 iP     44 50.30  -0.8
                  S      48 40.00
BAL     19.56 343 eP     44 54.20  -1.8
        1.0s   281.00nm          5.5mb
TOO     19.98  62 iPc    45 00.70   0.3
                 eTT     02 45.00
MRWA    21.05 342 iPd    45 11.20  -0.3
        1.0s   160.00nm          5.3mb
STK     22.36  45 iPc    45 24.80   0.2
        1.0s   111.60nm          5.3mb
                  i      45 40.00
MEEK    23.16 349 eP     45 33.20   0.6
        1.2s   286.00nm          5.7mb
WARB    23.48   8 iPc    45 36.40   0.8
        0.8s   172.00nm          5.7mb
                  e      45 44.00
CAN     23.57  63 iPc    45 37.50   1.0
CNB     23.79  63 iPc    45 39.00   0.3
        1.0s    80.00nm          5.3mb
BWA     23.88  60 iPc    45 42.00   2.4X
ASPA    27.15  22 iPc    46 09.60  -0.8
        1.8s   132.40nm          5.3mb
      Z 22s      7.70um          5.2Msz
MBL     28.46 353 eP     46 21.20  -1.0
        1.0s   132.00nm          5.7mb
WRA     30.84  21 P      46 42.29  -1.2
        0.9s    10.40nm          4.7mb
QIS     31.73  30 iPc    46 50.50  -0.8
SBA     32.68 164 iPd    46 57.50  -1.5
                  S      52 16.00
PAF     33.90 250 eP     47 12.00   2.2
                 eS      52 44.00
CTA     34.65  40 P      47 16.70   0.1
MTN     37.17  13 eP     47 37.50  -0.4
        1.0s   175.00nm          5.8mb
MNG     37.26  96 P      47 37.00  -1.6
SPA     40.63 180 ePc    48 05.10  -1.5
        0.8s   168.75nm          5.8mb
                  i      56 54.10
DZM     43.61  67 iPc    48 31.60   0.4
LEM     44.58 338 ePd    48 33.00  -6.2X
PMG     44.70  35 iPc    48 42.00   2.0
        0.8s   104.48nm          5.8mb
CRZF    46.24 245 eP     48 50.00  -1.9
                 eS      55 40.00
LAT     47.18  33 eP     49 00.30   0.7
KLI     47.19 335 eP     49 00.00   0.3
                  e      49 51.00
BKM     48.07  65 iPc    49 08.00   1.3
WWKK    48.92  27 eP     49 14.00   0.7
IPM     57.27 333 ePc    50 14.00  -1.2
        0.9s    37.30nm          5.4mb
GUA     65.65  23 eP     51 11.10  -0.5
        1.1s   202.53nm          6.2mb
GUMO    65.69  23 eP     51 11.10  -0.7
        1.1s   245.60nm          6.3mb
                  e      51 18.30
PJG     65.69  23 eP     51 11.30  -0.5
NST     68.09 336 eP     51 26.00  -1.0
CHTO    71.41 336 eP     51 47.20  -0.1
BLF     72.73 245 eP     51 52.00  -3.4X
SUR     73.41 240 iPc    52 06.50   7.1X
        1.2s   140.00nm          5.9mb
CER     73.52 238 e(P)   52 04.00   4.2X
        1.0s   100.00nm          5.8mb
GBA     74.70 314 P      52 07.00   0.3
PPT     75.02  99 P      52 09.20   0.6
KMI     76.56 341 Pc     52 19.50   2.2
        1.9s   100.00nm          5.6mb
      Z 25s      1.40um          5.2MszX
                 sP      52 28.50
HYB     77.52 317 eP     52 23.00   0.4
BUL     77.87 253 iPd    52 25.20   0.4
        1.0s    22.50nm          5.2mb
                  i      52 31.00
SSE     80.31 358 Pc     52 38.00   0.7
        1.0s    13.00nm          4.9mb
      Z 24s      0.50um          4.8MszX
                 eS      02 46.00
LSZ     81.78 256 iPc    52 46.50   0.8
        1.5s     1.50nm          3.8mb X
                  i      52 52.00
MAT     86.74  12 eP     53 10.00  -0.1
        1.1s    29.11nm          5.4mb
LZH     86.99 344 eP     53 12.00   0.5
        2.0s   100.00nm          5.7mb
      Z 25s      0.43um          4.8MszX
BJI     89.43 355 eP     53 24.00   1.2
        1.5s    28.00nm          5.3mb
      Z 24s      0.64um          5.0MszX
                 eSKS    03 50.00
                 eS      04 12.00
SNY     91.00   0 eP     53 30.70   0.7
CN2     92.99   2 eP     53 40.00   0.9
        1.0s    24.00nm          5.6mb
      Z 20s      0.31um          4.8Msz
                 epP     53 50.00  31kmX
ARU    118.41 325 ePKP   59 11.00  -2.3
KIC    118.83 243 ePKP   59 20.68   5.3X
TIK    120.94   2 ePKP   59 15.00  -2.7X
        1.0s    15.00nm
      Z 20s      0.30um          4.9Msz
ILT    124.88  23 ePKP   59 31.00   5.6X
      Z 22s      0.70um          5.3Msz
      N 22s      0.40um
      E 22s      0.20um
                 eSS     18 24.00
OBN    126.82 314 ePKP   59 15.00 -14.5X
                  e      59 29.00
OBN    126.82 314 ePKPd  59 29.10  -0.4
        1.0s    14.40nm
      Z 24s    426.30um          8.0MszX
      E 22s    298.90um
                  e      59 34.40
                 ePP     01 24.30
                 (SS)    18 27.90
                 (SSS)   23 06.40
SVW    127.91  37 ePKP   59 31.39  -0.1
PMR    130.80  39 ePKP   59 40.70   3.8X
        0.6s     6.50nm
IMA    131.35  33 ePKP   59 36.10  -1.9
        1.7s    29.50nm
ISA    133.75  83 ePKP   59 43.67   0.2
LBFM   134.86  75 ePKP   59 44.61  -1.0
KSP    135.03 301 ePKP   59 39.40  -5.9X
BONR   135.22  81 ePKP   59 46.98   0.5
GEC2   135.55 297 PKP    59 40.50  -6.0X
        0.8s     1.47nm
                  e      59 46.90
                  e      59 52.70
                  e      00 02.90
CLL    137.09 300 ePKP   59 56.00   6.8X
        1.6s    19.00nm
GRF    137.38 297 ePKP   59 39.00 -10.8X
      Z 20s      0.20um          4.8Msz
LTX    139.30 102 ePKP   59 42.40 -11.7X
INK    139.44  34 ePKP   59 54.00   1.0
        1.0s     3.00nm
MSU    139.49  84 ePKP   59 46.26  -8.1X
DUG    140.01  82 ePKP   59 48.78  -6.3X
SRU    140.90  84 ePKP   59 51.95  -4.9X
ALQ    141.12  93 ePKP   59 47.27 -10.1X
DAU    141.13  82 ePKP   59 56.93  -0.4
DOU    141.43 295 PKP    59 58.90   1.8
NB2    141.44 314 PKP    59 54.80  -2.1
        0.9s     4.00nm
PV10   141.45  87 ePKP   59 50.55  -7.4X
PV09   141.46  86 ePKP   59 53.00  -5.0X
PV08   141.82  87 ePKP   59 52.13  -6.6X
LRM    143.03  74 ePKP   59 56.30  -4.1X
MBC    143.94  21 ePKP   59 58.50  -2.2
        1.0s    17.00nm
GOL    144.57  87 iPKPd  00 01.27  -2.0
GLD    144.69  87 ePKP   00 01.73  -1.6
WMOK   145.96 100 ePKPc  00 04.52  -0.9
MEO    146.12 100 iPKPd  00 05.40  -0.3
YKA    146.39  45 ePKP   00 05.30   0.1
        0.9s    27.60nm
ACO    146.92  97 iPKPc  00 08.40   1.5
FNO    147.17 100 iPKPc  00 08.70   1.4
OCO    147.29 100 iPKPd  00 09.40   1.9
XDE    147.54 299 ePKP   00 07.90   0.6
EKA    147.54 301 PKPc   00 09.80   2.5X
        0.9s    20.00nm
RSSD   147.62  81 ePKP   00 07.01  -1.1
                ePKPbc00 09.43
EBH    147.92 303 ePKP   00 10.00   2.1
ELO    148.07 303 ePKP   00 10.20   2.1
PCO    148.32  99 iPKPc  00 12.20   3.1X
UYO    148.35 105 iPKPc  00 11.10   1.9
EAB    148.36 302 ePKP   00 11.10   2.6X
TUL    148.61 101 iPKPd  00 05.00  -4.6X
DAG    148.95 344 iPKPd  00 11.20   2.3
        0.9s    57.14nm
DLF    149.00 296 ePKP   00 13.70   4.1X
KAC    149.09 305 ePKP   00 13.10   3.4X
MIAR   149.15 105 (PKP)  00 10.50   0.0
KPL    149.26 304 ePKP   00 13.00   3.1X
DCN    149.45 296 ePKP   00 16.00   5.7X
RES    150.18  19 ePKP   00 15.00   4.2X
        1.0s    38.00nm
VAL    150.88 293 ePKP   00 17.90   5.4X
ULM    154.97  73 ePKP   00 28.00   9.7X
     S.D. = 1.2  on  76 of 112 obs.
-----------------------------------
*  OCT  31, 1993  01h 22m 01.78± 1.85s
   39.940 N ± 9.6km   19.739 E ±13.9km
   DEPTH =   5.0km  (geophysicist)
 GREECE-ALBANIA BORDER REGION     (392)

SRN     0.21 107 ePg    22 05.60  -0.5
                 iSg    22 09.10
TPE     0.41  30 iPgd   22 09.00  -1.0
VLO     0.56 341 ePg    22 12.40  -0.6
IGT     0.61 131 ePg    22 13.98  -0.1
                 eSg    22 20.30
BERA    0.78  12 ePg    22 18.40   1.1
KBN     1.05  49 ePg    22 21.50  -0.6
FNA     1.51  56 ePb    22 31.18   1.6
                 eSb    22 51.94
GRG     2.27  63 ePb    22 40.58   0.0
     S.D. = 1.1  on   8 of   8 obs.
-----------------------------------
%  OCT  31, 1993  01h 30m 43.04± 1.03s
   11.213 N ± 8.6km   61.615 W ±14.9km
   DEPTH =  60.0km  (geophysicist)
 WINDWARD ISLANDS                 ( 95)
      MD 2.7 (TRN).

TCE     0.53 195 eP     30 56.40   1.0
TRN     0.60 160 iPc    30 55.86  -0.3
                 eS     31 04.45
BOT     0.88  93 iPc    30 59.76   0.1
TBH     0.90 143 eP     31 00.63   0.7
TPP     0.90 170 eP     30 58.60  -1.3
GRW     0.94 357 iPc    31 00.35  -0.2
                 iS     31 14.54
     S.D. = 1.1  on   6 of   6 obs.
-----------------------------------
?  OCT  31, 1993  01h 33m 48.92± 2.49s
   40.581 N ±14.5km   21.420 E ±17.7km
   DEPTH =  10.0km  (geophysicist)
 GREECE                           (364)

FNA     0.20 351 ePg    33 53.44   0.0
                 eSg    33 56.72
GRG     0.83  63 ePg    34 05.56   0.5
                 eSg    34 15.72
LIT     0.95 120 ePg    34 07.00   0.0
                 eSg    34 21.48
KNT     1.26  62 ePb    34 11.88  -0.5
     S.D. = 0.7  on   4 of   4 obs.
-----------------------------------
*  OCT  31, 1993  01h 36m 04.52± 1.59s
     5.522 S ±20.9km  144.516 E ±12.7km
   DEPTH =  33.0km  (normal)
 NEW GUINEA, PAPUA NEW GUINEA     (202)

MDG     1.29  78 iPd    36 26.70   0.4
YYYY    1.61 116 eP     36 30.40  -0.8
WWKK    2.09 335 eP     36 52.90  15.0X
LAT     2.72 115 eP     36 37.60  -9.2X
CTA    14.58 173 iPd    39 31.00   0.6
        1.2s    23.44nm          4.5mb
```

31d 01h

```
WR2     17.41 214 iPc   40 10.60   3.9X
        0.4s    59.90nm          5.1mb
                  eS    43 32.00
                  iScP  43 43.80
ASPA    20.74 208 iPd   40 45.30   0.3
        1.0s    37.30nm          4.7mb
                  iS    44 36.40
WARB    26.72 218 eP    41 42.00  -0.9
        0.8s    47.00nm          5.2mb
CSY     65.09 194 iPc   46 44.20   0.4
        0.6s    13.00nm          5.2mb
     S.D. = 0.9  on   6 of   9 obs.
-------------------------------------
   OCT  31, 1993  01h 45m 57.71± 0.74s
   38.303 N ± 7.0km   21.896 E ± 7.4km
   DEPTH =   5.0km  (geophysicist)
 GREECE                            (364)
     ML 3.0 (ATH), 2.9 (THE).

VLS      1.04 263 ePb   46 16.00  -1.8
ATH      1.47 102 ePb   46 25.00   0.1
IGT      1.73 316 ePb   46 29.86   1.2
                  eSb   46 52.98
VLI      1.79 152 ePn   46 30.00   0.6
LIT      1.85  14 ePb   46 30.46   0.0
                  eSb   46 54.62
KZN      2.00 357 ePn   46 33.00   0.4
KEK      2.16 311 ePg   46 36.20   1.4
FNA      2.51 351 ePn   46 40.18   0.3
                  eSn   47 09.46
GRG      2.68   8 ePn   46 41.46  -0.8
KNT      2.96  15 ePn   46 44.90  -1.3
VAY      3.06  10 ePn   46 47.40  -0.2
SKO      3.68 355 e(Pn) 47 08.00  11.5X
     S.D. = 1.1  on  11 of  12 obs.
-------------------------------------
?  OCT  31, 1993  01h 47m 57.45± 1.38s
   40.624 N ±14.8km   21.482 E ±11.5km
   DEPTH =  10.0km  (geophysicist)
 GREECE                            (364)
     ML 2.1 (THE).

FNA      0.18 333 ePg   48 02.10   0.6
                  eSg   48 05.00
OHR      0.71 313 iPg   48 11.00  -0.5
       0.3s   110.00nm
                  iSg   48 22.80
LIT      0.93 124 ePg   48 15.40   0.2
                  eSg   48 30.00
KNT      1.20  63 ePg   48 19.60  -0.2
                  eSg   48 36.50
     S.D. = 0.8  on   4 of   4 obs.
-------------------------------------
?  OCT  31, 1993  01h 54m 39.38± 4.89s
   36.717 N ±48.3km   29.103 E ±12.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)

CIN      1.20 318 ePg   55 02.00   0.3
                  iSg   55 16.00
BCK      1.40  58 ePn   55 05.10   0.1
KHL      1.64  12 ePn   55 08.30  -0.1
IZM      2.23 319 ePn   55 16.60  -0.3
     S.D. = 0.4  on   4 of   4 obs.
-------------------------------------
*  OCT  31, 1993  02h 09m 26.92± 2.60s
   31.727 S ±21.2km   68.162 W ±12.7km
   DEPTH =  99.9 ± 24.9 km
 SAN JUAN PROVINCE, ARGENTINA      (137)

CFA      0.14 331 iPc   09 41.80   0.4
                  S     09 51.00
RTCV     0.35 247 iPd   09 42.00   0.0
                  S     09 53.50
RTLL     0.48 326 iPc   09 42.50  -0.3
                  S     09 53.50
ZON      0.48 292 eP    09 37.80  -5.0X
                  eS    09 46.80
RTCB     0.59 294 iPc   09 43.50  -0.3
                  S     09 55.00
RTRS     1.91 324 iPd   09 59.00   0.2
                  S     10 22.50
RTPR     2.01  45 e(P)  10 00.00   0.0
                  S     10 25.00
TCA      3.07  84 iP    10 14.50   0.0
                  (S)   10 49.00
     S.D. = 0.3  on   7 of   8 obs.
-------------------------------------
?  OCT  31, 1993  04h 04m 23.36± 2.89s
   31.579 S ±27.6km   68.159 W ±17.5km
   DEPTH = 103.8 ± 31.0 km
 SAN JUAN PROVINCE, ARGENTINA      (137)

CFA      0.07 248 ePc   04 38.30   0.1
                  S     04 49.00
RTLL     0.36 313 iPc   04 39.00   0.0
                  S     04 50.00
RTCV     0.43 229 iPc   04 39.50   0.2
                  S     04 50.50
ZON      0.44 274 eP    04 35.00  -4.5X
                  eS    04 45.00
RTCB     0.56 279 iPc   04 40.00  -0.3
                  S     04 51.00
RTRS     1.80 321 iPd   04 54.00   0.1
                  (S)   05 18.00
TCA      3.06  86 iP    05 10.80   0.0
                  (S)   05 47.00
     S.D. = 0.2  on   6 of   7 obs.
-------------------------------------
?  OCT  31, 1993  04h 08m 36.90± 1.56s
   38.385 N ± 9.0km   30.543 E ±17.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
     ML 3.1 (ISK).

ALT      0.75 333 iPg   08 51.70   0.1
                  eSg   09 02.40
KHL      0.80 266 iPg   08 52.60   0.0
                  eSg   09 05.40
BCK      0.92 178 iPg   08 54.60   0.0
                  iSg   09 08.60
DST      1.93 310 ePn   09 10.00  -0.1
CIN      2.09 249 ePn   09 18.00   5.6X
                  iSg   09 47.00
     S.D. = 0.1  on   4 of   5 obs.
-------------------------------------
   OCT  31, 1993  04h 29m 19.44± 0.21s
   21.291 S ± 4.7km  176.725 W ± 6.4km
   DEPTH = 231.3km  (  7 depth phases)
   4.5mb ( 13 obs.)
 FIJI ISLANDS REGION               (181)

SVA      5.53 304 eP    30 44.30   2.4
AFI      8.72  34 eP    31 31.00   8.0X
PVC     14.54 281 iPc   32 40.50   4.4X
BKM     14.62 282 iPc   32 41.50   4.4X
DZM     15.67 264 iPc   32 53.30   3.5X
                  iS    35 49.90
                  ScP   40 51.40
KUZ     16.75 201 eP    33 01.80  -0.5
HBZ     16.81 194 eP    33 02.70  -0.2
PUZ     17.28 193 eP    33 05.00  -2.9X
                  eS    36 02.50
URZ     17.73 196 eP    33 09.60  -3.1X
                  eS    36 16.00
WLZ     17.81 200 P     33 13.80   0.3
NOZ     17.85 193 eP    33 13.50  -0.4
PAHZ    18.31 196 eP    33 17.80  -1.0
MAHZ    18.43 193 P     33 21.40   1.4
MOZ     18.65 201 P     33 22.60   0.4
NGZ     19.01 199 eP    33 23.50  -2.6X
WAHZ    19.28 196 P     33 26.00  -2.7X
MNG     20.38 197 P     33 36.30  -3.3X
                  eS    37 09.70
QRZ     21.51 203 P     33 51.00   0.3
THZ     22.21 201 P     33 57.50   0.0
DSZ     22.58 203 eP    34 01.40   0.3
LTZ     23.33 201 eP    34 07.20  -1.1
WVZ     24.12 203 P     34 15.40  -0.2
LMZ     25.22 204 eP    34 25.30  -0.4
BWZ     25.69 202 eP    34 28.20  -1.8
CNB     32.79 237 eP    35 35.00   2.0
        0.8s    22.00nm          4.8mb
CAN     33.08 238 eP    35 35.80   0.4
CTA     34.60 265 iP    35 50.00   1.5
                  i     36 39.00 241km
                  i     41 41.00
TOO     36.41 235 iPc   36 03.80   0.3
        0.6s    26.00nm          5.0mb
STK     38.53 245 eP    36 21.60   0.3
        1.6s     5.40nm          3.9mb
ASPA    45.51 257 iPc   37 17.20  -0.6
        0.9s    12.90nm          4.3mb
WR2     45.65 263 eP    37 17.30  -1.7X
        0.5s     8.50nm          4.4mb
                  e     37 26.10  29kmX
                  i     38 04.70
                  eS    43 42.10
WRA     45.67 263 P     37 18.40  -0.8
        0.4s     3.40nm          4.1mb
GUA     51.16 309 eP    38 01.10  -0.2
        0.8s   197.01nm          5.6mb X
GUMO    51.22 309 eP    38 01.00  -0.7
        1.0s   269.80nm          5.7mb X
                  e     38 14.50  50kmX
PJG     51.22 309 eP    38 01.40  -0.3
WARB    51.73 253 eP    38 04.20  -1.3
        0.3s     5.00nm          4.5mb
SBA     57.17 184 iPc   38 45.90   2.0
MBL     58.75 258 eP    38 54.20  -1.5
CSY     63.77 206 iPd   39 40.40  11.9X
        0.8s    34.90nm
SPA     68.84 180 iPc   40 01.80   1.2
        1.0s   152.50nm          5.7mb X
BCH     77.70  44 eP    40 53.15   0.9
                  epP   41 48.71 233km
PEC     78.90  47 eP    40 58.68   0.0
        0.7s     5.51nm          4.4mb
ISA     79.04  45 ePc   40 59.96   0.5
        0.8s     8.44nm          4.5mb
                  epP   41 54.66 228km
CMB     79.24  42 eP    41 00.33  -0.1
        0.7s     4.14nm          4.3mb
GSC     79.94  46 eP    41 04.20  -0.1
GLA     80.04  49 eP    41 05.58   0.8
BONR    80.51  43 eP    41 07.98   0.5
MAW     81.22 200 iP    41 11.90   1.6
        0.7s    22.22nm          5.0mb
RMW     84.34  34 eP    41 26.63   0.1
MSU     84.81  45 eP    41 30.58   1.3
                  epP   42 27.15 234km
TTA     85.52   9 eP    41 32.25   0.2
        0.8s     6.02nm          4.5mb
                  epP   42 26.74 224km
SRU     86.22  46 ePc   41 36.66   0.5
                  epP   42 33.48 234km
LTX     86.48  57 ePc   41 37.99   0.4
BALM    86.60  16 eP    41 36.99  -0.5
PV10    86.84  47 eP    41 39.13  -0.2
PV08    87.21  47 eP    41 41.20   0.1
LRM     88.57  39 eP    41 47.30   0.0
RSSD    92.90  44 eP    42 07.40   0.1
        0.8s     9.13nm          4.9mb
                  epP   43 02.98 226km
SOB1   127.09 120 ePKP  47 57.70  -0.7
LSZ    136.20 216 iPKP  48 16.00   0.2
                  i     51 35.00
NB2    139.90 354 PKP   48 12.50  -8.7X
        0.7s     1.40nm
EDU    144.48   6 ePKP  48 27.40  -1.8
ELO    144.49   7 ePKP  48 27.60  -1.7
MUD    144.61 354 iPKPd 48 28.80  -0.6
        0.6s    14.00nm
EAB    144.69   7 ePKP  48 28.50  -1.1
EBH    144.73   7 ePKP  48 28.70  -1.0
ESY    145.14   6 ePKP  48 30.00  -0.4
EBL    145.24   6 ePKP  48 30.00  -0.6
EKA    145.67   7 PKPc  48 31.70   0.4
        0.6s     3.00nm
DCN    146.99  12 ePKP  48 36.00   2.6X
DLF    147.17  11 ePKP  48 32.00  -1.7
SPC    149.05 338 ePKP  48 40.00   2.9X
CLL    149.09 348 iPKPd 48 41.20   4.4X
        1.0s    27.00nm
                  e     49 23.00
WTS    149.23 356 iPKPd 48 41.90   4.9X
        0.8s    22.70nm
                  e     48 46.50
                  e     48 50.50
BRG    149.31 347 ePKP  48 37.50   0.3
        0.6s    16.00nm
                  i     48 41.90
MOX    149.98 349 ePKP  48 44.00   5.8X
PRU    150.00 345 PKP   48 43.50   5.2X
        0.7s     9.40nm
                  i     48 47.30
                  e     48 53.40
ENN    150.51 357 iPKPd 48 45.20   6.2X
        0.7s    12.10nm
SNF    150.83 359 PKPc  48 46.30   6.8X
SRO    150.89 339 ePKP  48 50.90  11.2X
```

```
ZST   150.95 341 ePKP  48 46.30   6.6X
GRF   150.96 349 ePKP  48 40.20   0.4
                 i     48 46.40
                 e     48 54.20
KHC   151.03 346 PKP   48 40.50   0.6
       0.8s     5.40nm
                 e     48 44.00
                 e     48 46.80
DOU   151.24 358 PKPd  48 46.90   6.8X
       0.7s    36.70nm
GEC2  151.27 346 PKP   48 38.50  -1.9
       0.8s     0.79nm
                 e     48 45.60
WLF   151.59 356 iPKPc 48 47.91   7.3X
       0.8s     7.40nm
LIC   163.00 151 PKP   48 56.00   0.6
KIC   163.25 151 PKP   48 56.40   0.7
TIC   163.37 150 PKP   48 56.60   0.8
       1.0s    21.00nm
LKO   165.54 143 PKP   48 57.79   0.0
       1.1s    20.50nm
     S.D. = 1.0  on  66 of  90 obs.
-----------------------------------
%  OCT  31, 1993  05h 13m 06.70± 1.20s
   31.698 S ±17.9km   66.500 W ± 7.9km
   DEPTH =  33.0km  (normal)
 LA RIOJA PROVINCE, ARGENTINA     (138)

RTPR    1.39 360 e(P)  13 30.00   0.0
                 S     13 49.50
CFA     1.49 273 ePd   13 32.00   0.6
                 S     13 53.20
TCA     1.67  78 iP    13 34.10   0.0
                 (S)   13 56.00
RTLL    1.72 282 iPc   13 34.80   0.0
                 S     14 57.80
RTCB    1.97 276 ePd   13 38.00  -0.6
                 (S)   14 03.00
     S.D. = 0.6  on   5 of   5 obs.
-----------------------------------
*  OCT  31, 1993  05h 54m 19.39± 1.28s
   29.955 N ±14.8km  109.000 W ± 8.1km
   DEPTH =   5.0km  (geophysicist)
 SONORA, MEXICO                    ( 50)
      ML 3.7 (GS).

TUC     2.80 327 ePn   55 05.24  -0.6
                 ePg   55 12.80
                 eS    55 47.85
LTX     4.68  96 ePn   55 32.49   0.0
                 ePg   55 52.91
ALQ     5.42  23 ePn   55 42.81  -0.2
GLA     5.86 303 ePn   55 49.07   0.1
PLM     7.51 299 ePn   56 12.54   0.2
PV10    8.40 360 ePn   56 25.51   0.6
                 eS    58 43.87
PV09    8.52 359 ePg   56 50.19  23.5X
                 eS    58 47.70
MSU     8.93 344 (Pn)  56 34.65   2.4X
SRU     9.22 353 ePg   57 05.52  29.3X
MEO    10.04  59 e(P)  57 12.50  25.2X
     S.D. = 0.5  on   6 of  10 obs.
-----------------------------------
?  OCT  31, 1993  06h 26m 11.46± 1.72s
   37.103 S ±16.4km  178.266 E ±15.8km
   DEPTH = 120.7 ± 12.5 km
   4.1mb (  2 obs.)
 OFF E. COAST OF N. ISLAND, N.Z.  (160)

HBZ     0.50 177 P     26 27.60  -2.0
PUZ     0.97 180 P     26 34.10   0.6
URZ     1.47 218 Pd    26 38.80  -0.2
                 S     27 00.10
NOZ     1.52 187 P     26 41.00   1.5
TAZ     1.79 231 P     26 43.60   0.8
UTU     1.96 236 eP    26 45.80   0.8
PAHZ    2.00 208 P     26 46.60   1.2
PATZ    2.04 231 eP    26 47.00   1.0
KUZ     2.07 279 Pc    26 41.40  -4.9X
                 eS    27 04.40
MAHZ    2.10 188 P     26 47.80   1.1
WLZ     2.26 249 eP    26 46.80  -1.9
                 eS    27 13.40
TTH     2.68 205 eP    26 55.20   1.0
NGZ     2.95 225 eP    26 58.40   0.5
WAHZ    3.00 209 P     26 57.60  -0.8
CNZ     3.00 225 P     26 59.90   1.4
MOZ     3.08 242 eP    27 00.10   0.6
TEHZ    3.10 201 P     26 59.20  -0.6
BSZ     3.75 223 eP    27 09.10   0.6
PGZ     3.84 203 eP    27 07.80  -1.9
MNG     4.13 211 eP    27 11.50  -2.1
                 eS    28 03.10
KIW     4.57 214 eP    27 16.80  -2.9X
MTW     4.59 207 eP    27 16.50  -3.3X
QRZ     5.81 228 eP    27 34.50  -2.1
WR2    41.79 282 eP    33 50.70   0.2
        0.6s     4.50nm          4.4mb
WRA    41.81 282 P     33 51.30   0.6
        0.6s     1.30nm          3.9mb
     S.D. = 1.4  on  22 of  25 obs.
-----------------------------------
   OCT  31, 1993  07h 03m 42.71± 0.28s
   31.769 S ± 4.2km   68.291 W ± 4.9km
   DEPTH = 112.5 ±  2.8 km
   4.5mb (  4 obs.)
 SAN JUAN PROVINCE, ARGENTINA     (137)
      MD 4.8 (SAN).

CFA     0.17  15 iPc   03 58.80   0.0
RTCV    0.23 246 iPd   03 59.00   0.0
RTLL    0.46 341 e(P)  04 00.00   0.1
RTCB    0.52 303 e(P)  04 00.20  -0.1
MDZ     1.21 203 iP    04 08.70   2.0
                 iS    04 25.00
RTRS    1.88 327 iPd   04 16.00   1.2
RTPR    2.11  47 iPc   04 18.20   0.5
JACH    2.15 244 iPd   04 19.07   0.7
                 iS    04 46.02
FCH     2.30 227 iPd   04 21.52   1.1
                 iS    04 51.35
PEL     2.44 235 iPd   04 22.29   0.1
                 iS    04 52.04
ROCH    2.60 242 iP+   04 23.77  -0.6
                 iS    04 55.17
SAN     2.61 229 iPd   04 24.50   0.2
                 iS    04 56.71
PCH     2.63 225 iPd   04 25.11   0.4
                 iS    04 57.19
TACH    2.92 229 iPd   04 28.29  -0.1
                 iS    05 02.47
RFA     3.00 183 iPd   04 29.20  -0.3
                 S     04 51.00
CACH    3.04 219 iPd   04 30.89   0.7
                 iS    05 06.75
IHA     3.10 245 eP    04 29.10  -1.7
                 iS    05 00.10
TCA     3.19  83 iPc   04 32.00  -0.1
LCCH    3.25 238 iP    04 31.30  -1.5
                 iS    05 08.02
LNV     3.41 229 iP    04 33.34  -1.7
                 iS    05 11.77
CYA     3.96  34 iPd   04 41.50  -1.0
                 S     05 02.00
FSA     6.01  20 ePd   05 10.00  -0.5
SLA     7.43  20 eP    05 29.10  -1.1
MOCB   10.74  13 P     06 13.50  -1.5
CCH    14.45   8 P     07 07.60   4.2X
CNCB   14.89   1 P     07 10.20   1.0
LPB    15.17   1 P     07 14.20   1.6
LPAZ   15.41   1 P     07 15.40  -0.4
ARE    15.51 348 eP    07 20.00   3.2X
PPD    17.96  61 eP    07 42.70  -4.0X
VAO    20.82  70 eP    08 16.90  -0.1
                 e     08 54.40
BAO    24.49  54 (P)   08 54.20   1.2
                 e     09 17.40
LTX    69.45 327 ePd   14 39.81  -0.9
                 epP   15 07.25 109kmX
                 esP   15 20.02
UYO    70.06 337 iPd   14 43.60  -0.6
KIC    71.37  70 P     14 52.00  -0.6
MEO    72.07 334 iPd   14 55.20  -1.1
LKO    72.60  67 P     14 59.62  -0.3
        0.8s     7.50nm          4.5mb
ALQ    75.44 328 eP    15 16.09   0.0
        0.6s     3.96nm          4.4mb
                 e     15 44.43
PV08   79.43 329 eP    15 38.57   0.4
                 epP   16 06.35 108kmX
                 e     16 19.15
PV10   79.44 329 eP    15 37.94  -0.2
PEC    79.91 320 eP    15 40.97   0.5
        0.8s     7.70nm          4.6mb
SRU    80.71 328 eP    15 44.65  -0.1
                 epP   16 13.67 113kmX
GSC    80.79 322 eP    15 45.93   0.8
MSU    80.98 327 ePd   15 46.45   0.2
                 epP   16 15.73 114kmX
ARUT   81.01 325 eP    15 46.95   0.6
DAU    82.09 328 eP    15 51.54  -0.5
BCH    82.47 320 eP    15 55.00   1.1
DUG    82.62 327 eP    15 54.85   0.2
        0.8s     2.57nm          4.1mb
HVU    83.87 328 eP    16 01.07   0.1
LRM    86.97 331 eP    16 16.80   0.5
LBFM   87.95 323 ePd   16 21.29   0.2
                 epP   16 49.77 108kmX
LGPM   88.12 322 eP    16 22.33   0.5
WR2   124.18 206 iPKPc 22 28.80  -1.2
        0.4s     7.70nm
                 e     22 58.50
WRA   124.19 206 PKP   22 29.20  -0.8
        0.5s     5.10nm
GBA   143.79 112 PKP   23 08.00   1.4
     S.D. = 0.9  on  52 of  55 obs.
-----------------------------------
   OCT  31, 1993  07h 36m 58.61± 0.30s
   23.733 S ± 6.7km  177.123 W ± 8.3km
   DEPTH = 115.1km  (  5 depth phases)
   5.1mb ( 23 obs.)
 SOUTH OF FIJI ISLANDS            (171)

SVA     6.95 323 eP    38 45.30   6.0X
AFI    11.00  28 eP    39 28.00  -6.0X
                 eS    41 13.00
PUZ    14.83 194 eP    40 24.10   0.5
BKM    14.96 291 iP    40 32.50   7.2X
DZM    15.23 273 iPc   40 35.90   7.0X
URZ    15.30 197 eP    40 28.50  -0.9
                 eS    43 07.70
NOZ    15.40 194 eP    40 32.50   1.8
MOZ    16.26 203 eP    40 44.90   3.5X
MNG    17.95 199 eP    40 55.70  -6.5X
                 eS    44 01.60
THZ    19.81 202 eP    41 23.90   1.5
                 eS    44 45.40
LTZ    20.93 202 eP    41 32.60  -1.1
WVZ    21.75 205 eP    41 40.70  -1.0
BWZ    23.31 204 eP    41 54.90  -2.0
ODZ    23.48 202 eP    41 57.60  -1.0
TUZ    24.63 203 eP    42 09.20  -0.3
SIZ    25.95 204 eP    42 20.90  -0.9
CNB    31.22 241 iPd   43 11.60   2.4
        0.9s    23.00nm          4.9mb
CAN    31.51 241 iPc   43 13.10   1.3
                 i     43 42.20 135kmX
BWA    31.81 243 iPc   43 13.90  -0.4
CTA    34.11 269 iPc   43 36.50   2.1
        0.5s    63.38nm          5.7mb
                 i     44 07.50 142kmX
                 i     46 15.00
TOO    34.76 238 eP    43 41.90   2.1
        0.5s    20.00nm          5.2mb
PMG    36.95 287 iPd   43 59.10   0.7
ADE    39.81 243 eP    44 21.10  -1.0
ASPA   44.66 260 eP    45 02.20   0.5
        0.7s    33.40nm          5.2mb
WR2    45.02 265 eP    45 04.00  -0.6
        0.4s    76.60nm          5.8mb
                 e     46 43.70 543kmX
WRA    45.04 265 P     45 04.70  -0.1
        0.5s    19.50nm          5.1mb
FORT   48.84 249 eP    45 33.00  -1.3
        0.8s    52.00nm          5.4mb
MTN    50.07 273 iPd   45 43.20  -0.7
        0.5s    35.00nm          5.6mb
WARB   50.70 255 eP    45 48.00  -0.6
        0.3s     6.00nm          5.1mb
COOL   54.72 248 eP    46 17.00  -1.4
        0.3s     4.00nm          4.9mb
KLB    57.47 247 eP    46 36.50  -1.4
        0.5s    11.00nm          5.1mb
MBL    57.90 259 eP    46 39.80  -1.3
        0.4s     9.00nm          5.1mb
BAL    58.53 248 iPc   46 44.00  -1.4
        0.3s     9.00nm          5.3mb
MUN    58.71 246 eP    46 45.20  -1.4
        0.3s   100.00nm          6.3mb X
CSY    61.42 206 iPc   47 15.50  11.0X
        0.6s    50.70nm
```

31d 07h

```
SPA     66.41 180 iPd   47 37.90   0.7
         0.7s    19.53nm          5.1mb
MAW     78.81 200 iP    48 51.30   1.6
         0.7s    22.22nm          5.1mb
BCH     79.70  44 eP    48 55.62   0.4
KGM     81.26 276 eP    49 04.00   0.3
LGPM    81.71  38 (P)   49 05.84   0.2
GLA     81.92  49 eP    49 08.32   1.5
BONR    82.53  43 eP    49 09.70  -0.5
                 epP    49 38.93 113km
TNP     83.29  43 (P)   49 13.31  -0.7
         1.4s    23.94nm          4.9mb
TUC     84.34  51 eP    49 20.52   1.3
         0.8s     4.71nm          4.4mb
                  e     49 50.26 115km
CN2     85.34 322 eP    49 24.00   0.2
         0.6s     5.70nm          4.7mb
SVW     86.32  10 eP    49 27.23  -1.1
         1.0s    20.50nm          5.1mb
RMW     86.57  34 (P)   49 29.34  -0.5
SLKM    86.75  13 eP    49 28.50  -2.0
MSU     86.78  45 eP    49 32.21   0.9
CRP     87.07  12 eP    49 29.46  -2.7
PMR     87.96  13 eP    49 35.70  -0.5
         0.6s     7.10nm          4.9mb
TTA     87.98   9 eP    49 35.96  -0.4
         1.2s     8.22nm          4.6mb
LTX     88.12  57 eP    49 36.66  -1.1
                 epP    50 05.95 112km
SRU     88.18  46 eP    49 37.40  -0.6
                 epP    50 07.35 114km
TOA     89.06  14 eP    49 41.60   0.1
TIY     90.03 312 eP    49 48.10   1.6
LRM     90.68  39 eP    49 48.90  -0.7
XAN     90.72 307 P     49 50.50   0.7
FBA     91.21  12 ePd   49 50.07  -1.2
         1.0s    12.19nm          5.1mb
                 epP    50 21.86 122km
IMA     91.28   9 eP    49 51.30  -0.5
         0.9s     5.80nm          4.8mb
CHTO    92.09 290 eP    49 57.80   1.5
KAF    138.47 344 ePKP  56 03.20  -8.5X
NUR    140.25 343 ePKP  56 08.40  -6.5X
         0.6s     7.30nm
NB2    142.27 353 PKP   56 12.60  -6.0X
         0.7s     2.30nm
ANN    144.97 316 iPKPc 56 23.00  -0.6
         0.7s    60.00nm
EDR    146.61   5 ePKP  56 26.50   0.5
EDU    146.94   6 ePKP  56 27.90   1.4
ELO    146.94   7 ePKP  56 27.70   1.1
EBH    147.18   7 ePKP  56 27.90   1.0
BSD    147.41 347 iPKPc 56 31.00   3.7X
         0.7s    24.00nm
EAU    147.59   7 ePKP  56 29.60   2.0
EBL    147.70   6 ePKP  56 29.80   2.0
EKA    148.12   7 PKPc  56 31.10   2.7X
         0.9s    13.70nm
DCN    149.45  12 ePKP  56 34.70   4.1X
DLF    149.63  11 ePKP  56 35.00   4.2X
CLI    149.95 325 ePKP  56 36.00   4.4X
CFR    150.34 322 ePKP  56 36.50   4.4X
OJC    150.45 338 iPKP  56 36.90   4.7X
         0.5s    39.00nm
VRI    150.69 325 ePKP  56 38.00   5.3X
UZH    150.79 333 ePKPd 56 39.20   6.5X
                  e     56 43.00
                  e     56 56.00
KSP    151.00 342 iPKPd 56 38.90   5.9X
         0.9s    30.00nm
SPC    151.15 336 ePKP  56 39.80   6.3X
MLR    151.35 325 ePKP  56 39.00   5.1X
CLL    151.38 347 iPKPd 56 40.00   6.5X
         0.8s    30.00nm
                  i     56 47.20
BRG    151.58 345 iPKPd 56 40.60   6.7X
         0.8s    24.00nm
WTS    151.62 355 iPKPc 56 40.30   6.5X
         0.9s    28.30nm
PRU    152.25 344 PKP   56 41.50   6.6X
         0.8s    11.50nm
                  i     56 47.90
                  i     56 51.90
MOX    152.29 348 ePKP  56 41.80   6.9X
         1.3s    11.00nm
ENN    152.91 356 ePKP  56 43.00   7.3X
         1.0s     8.00nm
SRO    153.01 337 ePKP  56 43.60   7.6X
ZST    153.10 339 ePKP  56 49.20  13.1X
                  e     56 56.10
GRF    153.28 348 ePKP  56 43.50   7.2X
                  e     56 50.80
                  e     56 56.40
KHC    153.28 344 ePKP  56 45.00   8.6X
         0.8s    13.40nm
                  e     56 51.60
                  i     56 57.00
                  e     57 25.70
GEC2   153.52 344 PKP   56 36.60  -0.2
         1.0s     0.87nm
                  e     56 41.40
                  e     56 44.00
                  e     56 47.50
                  e     56 50.80
                  e     56 57.00
DOU    153.65 358 PKPc  56 45.50   8.7X
                  e     56 52.90
WATA   155.44 346 iPKPc 56 57.90  18.4X
                  i     57 05.60
WTTA   155.49 346 iPKP  56 56.10  16.5X
         0.6s    15.60nm
                  i     57 06.00
     S.D. = 1.2  on  62 of  97 obs.
-----------------------------------
*  OCT  31, 1993  09h 02m 20.71± 2.45s
   58.096 N ±18.7km  142.853 W ± 9.4km
   DEPTH =  10.0km  (geophysicist)
 GULF OF ALASKA                    ( 15)
      ML 2.7 (AEIC).

MID      2.25 308 P     02 59.50   0.9
YAH      2.34  14 eP    03 00.08   0.0
HMT      2.36 343 eP    03 00.49   0.3
WAX      2.36   0 eP    03 00.70   0.5
RAGM     2.48 339 eP    03 02.22   0.4
TGL      2.67   0 iP    03 04.35  -0.2
                  eS    03 34.83
SGAM     2.70 334 iP    03 05.71   0.8
                  eS    03 38.24
CVA      2.87 330 eP    03 07.19  -0.1
BALM     2.96   5 iP    03 08.51  -0.2
                  eS    03 42.31
HIN      2.97 322 eP    03 09.37   0.6
CTGM     2.98  14 eP    03 08.87  -0.1
                  eS    03 43.54
MTU      3.12 309 eP    03 10.64  -0.2
LTI      3.24 309 iP    03 12.34  -0.2
FID      3.24 327 eP    03 12.97   0.3
GLB      3.39 352 eP    03 14.34  -0.4
                  eS    03 52.61
VZW      3.52 329 eP    03 16.13  -0.4
VLZ      3.52 331 eP    03 16.17  -0.3
KLU      3.74 337 eP    03 19.51  -0.3
PWL      3.94 317 eP    03 21.74  -0.7
SEW      3.95 303 eP    03 22.52  -0.1
CFI      3.98 323 eP    03 22.81  -0.1
MPA      4.11 308 eP    03 24.31  -0.5
TZL      4.17 343 eP    03 26.35   0.7
KNK      4.37 322 eP    03 28.87   0.2
SCM      4.37 331 eP    03 28.42  -0.3
SLKM     4.48 306 eP    03 29.94  -0.3
CNPM     4.59 292 eP    03 32.22   0.5
SML      4.63 326 eP    03 32.14  -0.2
GHO      4.79 323 eP    03 34.29  -0.3
     S.D. = 0.4  on  29 of  29 obs.
-----------------------------------
   OCT  31, 1993  10h 15m 20.70± 1.18s
   51.531 N ±10.4km   16.193 E ± 6.4km
   DEPTH =   5.0km  (geophysicist)
 POLAND                            (548)
      ML 3.3 (GRF), 2.8 (VIE).

KSP      0.69 175 iPd   15 34.40  -0.1
         0.3s    51.00nm
                  iS    15 43.00
BRG      1.56 246 iPn   15 49.00  -0.1
                  iPg   15 50.50
                  iSg   16 10.50
PRU      1.87 215 Pn    15 53.00  -0.6
         0.4s    67.00nm
                  Pg    15 55.00
                  i     15 59.50
                  eSn   16 11.90
                  eSg   16 17.90
CLL      2.01 265 iPn   15 55.60   0.0
                  iPg   15 58.50
                  eSg   16 26.00
OJC      2.63 118 eP    16 04.60   0.0
                  iPg   16 10.60
                  iS    16 32.90
                  iSg   16 46.70
KHC      2.93 216 Pn    16 08.50  -0.3
                  Pg    16 14.60
                  eSn   16 43.00
                  eSg   16 50.00
                  e     16 55.50
MOX      3.02 255 ePg   16 18.40   8.4X
                  iSg   16 58.40
GEC2     3.13 212 Pn    16 12.40   0.7
                  Pg    16 17.80
                  Sn    16 48.20
                  Sg    16 54.70
WET      3.19 223 iPc   16 12.70   0.1
ZST      3.39 170 eP    17 12.70  57.4X
SPC      3.50 131 eP    16 28.80  11.8X
GRF      3.66 242 iPnc  16 19.20   0.0
                  ePg   16 30.90
                  eSg   17 17.00
WTTA     5.20 217 iPn   16 41.50   0.3
                  iSg   18 08.70
SQTA     5.40 219 iPnd  16 44.00   0.0
                  i     18 15.70
     S.D. = 0.4  on  11 of  14 obs.
-----------------------------------
   OCT  31, 1993  10h 37m 26.64± 0.94s
   47.648 N ± 5.8km    6.708 E ± 7.9km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                            (538)
      ML 2.2 (STR).

LOMF     0.31 165 Pg    37 33.16   0.1
                  Sg    37 37.49
MOF      0.35  54 Pg    37 35.34   1.4
BBS      0.57 108 Pg    37 38.43   0.1
                  Sg    37 46.78
ECH      0.64  28 Pg    37 39.84   0.3
                  Sg    37 49.16
VITF     0.75 320 Pg    37 41.49   0.2
                  Sg    37 51.74
CDF      0.85  26 Pg    37 42.67  -0.5
WLS      0.88  29 Pg    37 43.03  -0.5
FEL      0.91  75 eP    37 43.10  -1.0
     S.D. = 0.9  on   8 of   8 obs.
-----------------------------------
?  OCT  31, 1993  10h 43m 03.01± 4.31s
   28.959 S ±29.5km   69.091 W ±32.6km
   DEPTH = 110.0km  (geophysicist)
 CHILE-ARGENTINA BORDER REGION    (127)

RTLL     2.42 167 ePc   43 42.20   0.1
                  S     44 13.20
RTCB     2.53 174 eP    43 43.00  -0.6
                  S     44 15.50
RTPR     2.61 121 eP    43 45.50   1.0
                  S     44 18.00
CFA      2.74 165 e(P)  43 46.70   0.4
                  S     44 20.00
RTCV     2.93 171 eP    43 49.00   0.1
                  S     44 25.00
CYA      2.94  81 iPc   43 49.00   0.0
                  S     44 25.30
TCA      4.56 122 iPc   44 10.00  -1.1
                  (S)   45 02.00
     S.D. = 0.8  on   7 of   7 obs.
-----------------------------------
   OCT  31, 1993  10h 54m 46.98± 0.92s
   41.658 N ± 7.5km   19.408 E ± 8.2km
   DEPTH =  10.0km  (geophysicist)
 ALBANIA                           (391)
      ML 2.4 (TIR).

LACI     0.23  95 iPgd  54 52.00   0.2
                  iSg   54 56.70
ULC      0.33 339 iPgd  54 53.28  -0.5
                  iSg   54 59.83
SDA      0.40  10 iPgc  54 54.20  -0.9
                  iSg   55 02.20
TIR      0.46 132 ePg   54 55.50  -0.9
BDV      0.76 325 iPgd  55 01.41  -0.4
                  iSg   55 13.97
TTG      0.78 352 iPgd  55 01.80  -0.3
```

```
                iSg   55 14.97
PVY     1.03  24 iPgc  55 06.06  -0.4
                iSg   55 23.27
HCY     1.04 320 iPgd  55 05.89  -0.7
                iSg   55 22.72
OHR     1.18 117 ePn   55 09.70   0.6
NKY     1.19 345 iPgd  55 09.88   0.6
                iSg   55 28.39
IVA     1.27  17 iPgc  55 10.27  -0.3
                iSg   55 31.34
BRY     1.40 333 iPgd  55 13.62   1.0
                iSg   55 35.06
PLE     1.67 360 iPnc  55 18.54   2.0
                iSn   55 43.75
     S.D. = 0.9  on  13 of  13 obs.
-----------------------------------
   OCT  31, 1993  10h 59m 53.09± 0.19s
    5.732 S ± 3.4km  145.966 E ± 4.2km
    DEPTH =  10.0km  (geophysicist)
    5.1mb ( 34 obs.)  5.0Msz ( 23 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)
     ML 5.4 (PMG).

YYYY    0.51 180 iPc   00 03.80   0.4
MDG     0.51 339 iPd   00 06.40   2.9X
LAT     1.39 132 iPd   00 19.30   0.9
MNDI    2.33 260 eP    00 37.80   5.5X
WWKK    3.14 312 eP    00 49.70   6.2X
PMG     3.84 162 iPd   00 53.70   0.2
RAB     6.36  76 eP    01 32.00   2.8X
                iS    03 06.00
CTA    14.27 179 iP    03 20.00   2.6X
                i     03 29.50
HNR    14.34 106 eP    03 19.00   0.7
                eS    06 15.00
SLKI   14.73 260 ePc   03 25.00   1.6
SWI    15.45 288 ePc   03 34.30   1.4
QIS    15.98 202 eP    03 40.00   0.3
MTN    16.25 243 eP    03 42.00  -1.2
        0.8s   244.00nm          5.4mb
WB5    18.03 218 iPd   04 04.80  -0.7
                eS    07 31.80
                i     09 16.80
WR2    18.08 218 iPd   04 05.70  -0.5
        0.6s    39.70nm          4.7mb
                i     04 18.30
                eS    07 16.60
GUA    19.17 357 eP    04 20.70   1.1
        1.1s   283.54nm          5.4mb
GUMO   19.22 357 eP    04 20.70   0.5
        1.0s   145.70nm          5.2mb
PJG    19.22 357 eP    04 19.80  -0.4
BKM    24.79 120 iPd   05 17.00   0.3
PVC    24.88 121 iP    05 18.00   0.5
CTB    25.23 300 ePc   05 22.00   1.1
DZM    25.61 131 iPc   05 23.00  -1.5
STK    26.34 188 eP    05 29.80  -1.2
        1.0s    10.30nm          4.5mb
WARB   27.47 220 eP    05 40.00  -1.5
        0.6s    17.00nm          5.0mb
BWA    28.64 176 eP    05 51.60  -0.4
                i     07 26.50
CAN    29.58 175 eP    05 59.00  -1.5
                i     06 07.20
                i     07 31.10
TSM    29.77 289 eP    06 01.00  -1.4
TOO    31.69 181 eP    06 20.00   0.9
        0.6s    17.00nm          5.1mb
KKM    31.92 291 eP    06 21.00  -0.4
OUZ    38.85 143 P     07 20.90   0.7
WLZ    41.83 144 P     07 45.60   0.9
AFI    42.36 104 eP    07 51.00   1.4
                e     20 00.00
MAT    42.67 351 (P)   07 51.00  -0.7
        1.2s    37.50nm          5.0mb
                eS    14 13.00
CNZ    42.70 146 P     07 53.60   1.5
NGZ    42.72 145 P     07 53.70   1.5
URZ    42.98 143 eP    07 53.80  -0.3
KGM    43.28 279 eP    07 57.50   0.5
SSE    43.61 329 P     08 06.50   7.1X
        1.0s    11.00nm          4.6mb
     Z  20s     1.00um          4.7Msz
                eS    14 16.00
MNG    43.66 147 eP    07 59.40  -0.3
NOZ    43.76 143 eP    07 59.80  -0.7
PGZ    44.09 146 eP    08 04.20   1.1
NJ2    45.59 327 Pc    08 17.00   1.7
IPM    46.03 282 ePc   08 19.00  -0.1
        0.7s    25.90nm          5.3mb
LOE    49.37 299 iPd   08 45.00  -0.1
NST    50.12 296 eP    08 50.50  -0.3
SNY    51.56 339 eP    09 01.60   0.2
        1.2s    20.00nm          4.9mb
     Z  24s     1.03um          4.8MszX
                S     16 19.00
KMI    52.02 308 eP    09 06.50   1.0
        1.8s    50.00nm          5.1mb
                pP    09 14.50  27kmX
MDJ    52.24 345 eP    09 07.00   0.5
CHTO   52.36 299 eP    09 08.00   0.1
CN2    52.67 341 eP    09 11.00   1.2
        1.0s     7.00nm          4.5mb
     Z  18s     0.30um          4.4Msz
XAN    52.83 321 P     09 09.10  -2.1
        1.5s    25.00nm          4.9mb
     Z  20s     0.55um          4.6Msz
                pP    09 14.80  19kmX
BJI    53.17 332 eP    09 12.50  -1.0
        1.8s    24.00nm          4.8mb
     Z  24s     0.64um          4.6MszX
                eS    16 40.00
CD2    54.35 315 eP    09 23.00   0.5
HHC    56.07 329 P     09 36.40   1.6
        0.8s    10.00nm          4.9mb
BTO    56.70 328 eP    09 40.00   0.6
LZH    57.34 320 Pd    09 44.50   0.4
        2.0s     5.00nm          4.2mb
     Z  22s     0.56um          4.6Msz
                pP    09 52.50  26kmX
SHL    61.01 303 iP    10 09.90   0.2
                eS    18 28.00
HON    61.15  62 P     10 20.00   9.6X
     Z  21s     0.61um          4.7Msz
GTA    61.88 321 eP    10 15.00  -0.3
        1.5s    17.00nm          5.0mb
     Z  18s     0.46um          4.7Msz
                pP    10 23.50  28kmX
                sP    10 27.50
LSA    63.26 307 P     10 25.00   0.0
CSY    65.25 195 iPd   10 46.40   9.6X
        1.0s     8.50nm          4.9mb
ZAK    66.92 332 eP    10 46.80  -0.8
        1.1s    30.00nm          5.4mb
YAK    68.71 352 eP    11 00.00   1.3
        1.5s    61.00nm          5.6mb
HYB    70.40 291 eP    11 10.00   0.0
        1.0s    25.00nm          5.3mb
GBA    70.67 286 Pd    11 11.40  -0.2
        0.8s     4.00nm          4.6mb
WMQ    71.92 320 P     11 19.90   1.2
NDI    74.36 302 eP    11 31.00  -2.2
SDN    75.14  28 eP    11 35.98  -1.1
        1.0s   114.58nm          5.9mb
     Z  20s     1.59um          5.3Msz
ILT    77.56  13 iPd   11 50.00  -0.5
        1.2s    71.00nm          5.6mb
                i     12 04.60
                eS    21 44.00
TIK    78.03 355 iPc   11 52.00  -1.0
        1.0s    13.00nm          5.0mb
                i     12 05.00
KSH    78.41 312 eP    11 57.90   1.9
     Z  24s     0.94um          5.0MszX
     N  14s     0.53um
                PcP   12 05.00
                sP    12 08.00
                ePP   15 00.00
                eS    21 58.00
                SKS   22 07.70
                ScS   22 16.50
NIL    78.94 306 iPc   12 02.00   3.2X
        0.4s     0.01nm          2.3mb X
                iS    21 17.80
FRU    80.39 315 eP    12 08.00   1.5
                e     12 15.50
SVW    80.42  25 eP    12 06.59   0.3
        0.9s   102.49nm          5.8mb
TTA    81.21  23 eP    12 09.73  -0.7
        1.0s    11.15nm          4.9mb
CP2    81.93  25 eP    12 12.66  -1.7
MAW    82.10 203 iPd   12 14.30  -0.6
        0.7s     4.63nm          4.7mb
                epP   12 24.40  32kmX
                eS    22 19.70
SLKM   82.47  27 eP    12 15.02  -1.9
PMR    83.41  26 eP    12 20.30  -1.4
        1.1s    40.50nm          5.5mb
QUE    83.42 301 eP    12 22.50  -0.3
IMA    83.67  21 eP    12 22.78  -0.4
        1.0s    21.18nm          5.3mb
SPA    84.30 180 iPc   12 25.20  -1.2
        0.9s    22.73nm          5.4mb
KLU    84.78  27 eP    12 28.34  -0.4
TOA    84.90  26 eP    12 29.90   0.6
FBA    85.34  23 ePd   12 29.52  -1.9
        0.8s    25.21nm          5.5mb
BALM   86.24  28 eP    12 35.63  -0.5
INK    91.78  22 eP    13 01.00  -1.0
        1.0s     4.00nm          4.7mb
LGPM   94.62  49 eP    13 15.42  -0.4
GMW    95.03  43 eP    13 17.18  -0.2
SAO    95.46  54 P     13 30.00  10.4X
     Z  19s     0.53um          5.0Msz
CMB    96.37  52 P     13 30.00   6.2X
     Z  19s     0.50um          5.0Msz
BCH    96.49  55 eP    13 24.29  -0.2
MBC    96.65  14 eP    13 24.50   0.3
ISA    97.82  55 P     13 40.00   9.6X
     Z  19s     0.60um          5.1Msz
DUG   102.24  50 Pdiff 14 00.00   9.6X
     Z  18s     0.33um          4.9Msz
TUC   104.23  58 Pdiff 14 10.00  10.7X
     Z  20s     0.54um          5.1Msz
ALQ   107.66  55 PKP   18 30.00   7.1X
     Z  19s     0.37um          5.0Msz
GOL   107.99  50 PKP   18 30.00   6.6X
     Z  18s     0.46um          5.1Msz
WMOK  113.95  55 PKP   18 40.00   5.4X
     Z  19s     0.58um          5.2Msz
CIN   115.46 309 ePKP  18 39.00   1.6
MIAR  118.19  54 PKP   18 50.00   7.3X
     Z  18s     0.24um          4.9Msz
FVM   119.74  49 PKP   19 00.00  14.5X
     Z  18s     0.57um          5.2Msz
GEC2  121.10 325 PKP   18 46.70  -1.2
        0.8s     0.67nm
                e     18 51.90
                e     18 56.90
EDI   124.26 340 ePKP  18 41.00 -12.6X
MYNC  125.48  51 PKP   19 10.00  13.3X
     Z  18s     0.35um          5.1Msz
YSNY  126.28  40 PKP   19 10.00  11.9X
     Z  19s     0.41um          5.1Msz
BINY  128.05  39 PKP   19 10.00   8.6X
     Z  19s     0.35um          5.1Msz
CEH   128.95  48 PKP   19 10.00   6.7X
     Z  20s     0.32um          5.0Msz
CBM   129.57  30 PKP   19 10.00   5.9X
     Z  18s     0.31um          5.0Msz
LSCT  130.05  38 PKP   19 20.00  14.8X
     Z  21s     0.41um          5.1Msz
MOCB  139.01 132 PKP   19 20.80  -2.5X
CNCB  139.65 124 PKP   19 18.10  -6.6X
                e     23 02.00
LPB   139.70 124 ePKP  19 19.00  -5.6X
                e     23 04.00
LPAZ  139.79 123 PKPc  19 17.00  -8.0X
        1.2s     7.30nm
                i     19 27.70
                PP    22 19.20
                SKP   23 00.40
                SS    40 52.20
                LQ    59 09.60
                LR    06 46.70
CCH   140.85 127 PKP   19 19.70  -6.8X
TOV   144.35  81 ePKP  19 29.80  -2.5X
PPD   147.63 149 ePKP  19 39.10   1.6
VAO   148.77 157 ePKP  19 42.40   3.0X
                epPKP 19 52.20
KIC   150.87 273 ePKP  19 48.40   5.7X
        0.6s    14.50nm
BDF   154.69 147 ePKP  19 49.00   0.9
        1.5s     0.50nm
                i     20 06.20
     S.D. = 1.0  on  86 of 120 obs.
-----------------------------------
%  OCT  31, 1993  11h 09m 50.96± 0.59s
   43.070 N ± 6.7km     0.648 W ± 4.8km
   DEPTH =  10.0km  (geophysicist)
 PYRENEES                          (378)
```

31d 11h

```
      ML 1.0 (STR).

ATE      0.04 293 Pg     09 52.68  -0.4
ESCF     0.05  81 Pg     09 53.03  -0.2
                  Sg     09 54.33
ISSF     0.12 249 Pg     09 53.94  -0.1
                  Sg     09 55.89
MADF     0.15 301 Pg     09 54.41   0.0
                  Sg     09 56.62
LHE      0.16 173 Pg     09 54.76   0.1
                  Sg     09 57.14
OGE      0.16  52 Pg     09 54.83   0.1
                  Sg     09 57.62
ELYF     0.27 292 Pg     09 57.08   0.4
                  Sg     10 00.29
     S.D. = 0.3  on   7 of   7 obs.
-------------------------------------
   OCT  31, 1993  11h 27m 07.02± 0.40s
   39.285 S ± 3.4km  174.981 E ± 4.2km
   DEPTH =  27.0 ±  4.4 km
 NORTH ISLAND, NEW ZEALAND        (159)
      ML 3.8 (WEL).

CNZ      0.45  79 P      27 16.40  -0.2
DRZ      0.45  89 P      27 16.60  -0.2
                  S      27 22.70
NGZ      0.49  78 P      27 17.10  -0.2
                  eS     27 23.60
BSZ      0.51 184 P      27 17.80   0.3
                  S      27 24.50
MOZ      0.79 350 Pc     27 22.60   0.5
                  S      27 34.30
WAHZ     1.14 112 P      27 26.50  -0.8
MNG      1.39 164 P      27 30.90   0.2
WLZ      1.49  19 P      27 32.20  -0.1
                  eS     27 51.70
KIW      1.58 182 P      27 33.30  -0.2
TEHZ     1.58 117 P      27 34.20   0.7
PGZ      1.66 144 eP     27 35.20   0.5
DIW      1.72 208 P      27 35.80   0.2
CAW      1.82 178 P      27 37.10   0.0
MTW      1.91 168 P      27 38.50   0.1
MRW      1.96 186 eP     27 39.00   0.0
                  eS     28 03.80
TCW      2.00 195 P      27 39.70   0.1
AMW      2.11 164 P      27 41.10   0.0
QRZ      2.43 230 P      27 45.80   0.0
DSZ      3.45 224 eP     27 59.30  -1.0
     S.D. = 0.4  on  19 of  19 obs.
-------------------------------------
*  OCT  31, 1993  11h 30m 02.38± 0.83s
    5.814 S ± 7.0km  145.890 E ±13.2km
   DEPTH =  10.0km  (geophysicist)
   3.5mb (  1 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY     0.43 170 iPd    30 11.10  -0.1
MDG      0.57 349 iPc    30 13.90   0.0
LAT      1.39 127 eP     30 27.90   0.1
PMG      3.78 161 eP     31 02.00   0.0
WR2     17.97 218 eP     34 14.20   0.1
       0.5s     2.20nm          3.5mb
     S.D. = 0.1  on   5 of   5 obs.
-------------------------------------
&  OCT  31, 1993  12h 07m 12.14s
   63.005 N          151.157 W
   DEPTH = 133.0km
   4.1mb (  3 obs.)
 CENTRAL ALASKA                   (  1)
      <AEIC>. Felt (III) at Skwentna.

KTH      0.56  11 eP     07 31.81  -0.4
                  eS     07 46.43
TRF      0.60  41 iPd    07 32.16  -0.4
                  eS     07 47.25
HUR      0.69  92 iPd    07 32.52  -0.6
                  iS     07 48.21
CUT      0.73 145 iPd    07 33.11  -0.2
SKT      1.04 190 iPd    07 35.74  -0.3
                  eS     07 53.65
RND      1.12  68 ePd    07 36.22  -0.6
                  eS     07 55.31
MCK      1.24  53 iPd    07 37.46  -0.5
                  eS     07 55.88
BWN      1.39  32 iPd    07 39.41  -0.2
PWA      1.48 156 P      07 40.20  -0.4
SUA      1.56 173 iPc    07 41.42  -0.2
                  eS     08 04.60
GHO      1.62 139 iPc    07 41.65  -0.6
                  eS     08 04.90
NCG      1.67 197 iPd    07 42.28  -0.6
                  iS     08 05.74
PMR      1.71 145 iPc    07 41.87  -1.2
                  eS     08 05.49
CGLM     1.75 194 iPd    07 43.05  -0.7
SML      1.78 131 iPc    07 43.09  -1.0
                  eS     08 07.78
CRP      1.81 195 iPd    07 43.44  -1.1
                  eS     08 08.44
CP2      1.82 197 iPd    07 43.70  -1.0
NEA      1.83  29 ePd    07 43.30  -1.3
                  eS     08 06.66
BGL      1.84 199 ePd    07 44.62  -0.3
CKN      1.85 196 eP     07 44.71  -0.2
CKT      1.88 196 eP     07 44.66  -0.6
SPU      1.88 193 iPd    07 44.46  -0.8
CKL      1.90 198 iPd    07 45.14  -0.4
PMS      1.92 156 P      07 44.90  -0.9
WRH      2.01  41 iPd    07 45.64  -1.1
BKG      2.01 196 ePd    07 46.09  -0.8
KNK      2.04 140 iPc    07 46.18  -1.0
                  eS     08 12.40
SCM      2.13 122 iPc    07 47.15  -1.3
CCB      2.22  41 iPd    07 48.11  -1.3
TTA      2.22 270 iPd    07 48.46  -1.0
NKA      2.27 181 eP     07 51.70   1.7
HDA      2.34  51 ePd    07 49.52  -1.4
MDM      2.35  32 iPd    07 49.74  -1.3
FBA      2.41  36 iPd    07 50.42  -1.4
CFI      2.43 137 ePc    07 50.73  -1.3
TOA      2.48 109 iPc    07 52.20  -0.6
THY      2.48  78 eP     07 53.02   0.2
                  eS     08 22.86
DFR      2.53 197 ePd    07 52.73  -0.7
PWL      2.53 147 eP     07 52.01  -1.4
SLKM     2.55 170 ePc    07 52.69  -0.9
                  eS     08 22.71
IL1      2.59  45 iPd    07 52.67  -1.5
ILB      2.59  45 iPd    07 52.65  -1.5
                  eS     08 23.08
GLM      2.59  38 iPd    07 53.00  -1.2
NCT      2.59 200 eP     07 53.66  -0.6
PAX      2.60  88 iPc    07 53.37  -0.9
SDG      2.63  98 ePc    07 53.68  -0.9
REF      2.63 197 ePd    07 54.32  -0.5
RDW      2.65 198 ePd    07 54.64  -0.5
DJE      2.66  65 eP     07 53.67  -1.4
RS2      2.66 197 ePd    07 54.74  -0.5
RSO      2.66 197 eP     07 54.76  -0.5
MPA      2.67 161 ePc    07 53.88  -1.2
RED      2.71 197 eP     07 55.20  -0.5
TZL      2.83 107 iPc    07 56.64  -0.6
SVW      2.84 230 iPd    07 56.11  -1.3
KLU      2.88 119 iPc    07 56.09  -1.9
VZW      2.92 130 ePc    07 56.50  -1.9
VLZ      2.95 127 iPc    07 56.62  -2.1
                  eS     08 31.27
NNL      2.97 181 eP     08 02.43   3.3
SEW      3.02 164 eP     07 58.59  -1.1
ILIM     3.06 197 eP     07 59.54  -0.8
INE      3.09 198 eP     08 00.16  -0.7
FID      3.17 134 ePc    07 59.82  -1.8
IM3      3.19 341 iPc    08 00.60  -1.4
BRLK     3.26 178 eP     08 02.00  -0.9
IMA      3.26 342 iPc    08 01.24  -1.8
DOT      3.26  75 eP     08 01.30  -1.7
HOM      3.37 184 eP     08 04.34   0.1
LTI      3.37 151 ePc    08 02.14  -2.2
HIN      3.43 138 ePc    08 03.47  -1.7
MTU      3.46 149 eP     08 03.65  -1.9
CNPM     3.49 181 eP     08 04.99  -1.0
OPT      3.51 197 eP     08 05.82  -0.4
PRP      3.52  42 ePd    08 04.53  -2.0
PDB      3.54 206 eP     08 05.98  -0.6
CVA      3.56 131 eP     08 05.45  -1.4
TMW      3.71  81 eP     08 06.95  -2.0
GLB      3.78 111 ePc    08 08.18  -1.7
SGAM     3.78 129 eP     08 07.84  -2.0
AUL      3.80 198 eP     08 09.99   0.0
AUE      3.81 197 eP     08 09.37  -0.8
AUW      3.82 198 eP     08 09.65  -0.6
AUH      3.82 198 eP     08 10.20  -0.2
AGU      3.82 198 eP     08 10.81   0.4
RAGM     4.05 127 eP     08 11.76  -1.7
MCNL     4.13 203 eP     08 13.79  -0.7
HMT      4.24 126 eP     08 13.99  -2.0
CDD      4.26 198 eP     08 15.14  -1.2
BC3      4.27  85 eP     08 14.08  -2.3
MID      4.28 145 eP     08 15.44  -1.0
FYU      4.38  33 eP     08 16.28  -1.5
SYI      4.45 188 eP     08 16.98  -1.8
TGL      4.54 116 eP     08 17.81  -2.3
BALM     4.60 111 iPc    08 18.80  -2.1
CTGM     5.06 109 eP     08 25.69  -1.5
BM3      5.22  29 eP     08 26.54  -2.6
ANM      6.49 290 eP     08 44.73  -1.7
INK      8.99  46 eP     09 20.00  -0.1
YKA     16.61  75 eP     10 56.90  -1.1
       0.4s     2.50nm          3.9mb
MIAR    45.23 101 eP     15 15.89  -1.3
       0.8s     3.16nm          4.1mb
MYNC    49.07  92 (P)    15 45.23  -2.0
       0.8s     3.35nm          4.2mb
PRM     50.70  91 eP     15 57.58  -2.0
     102 obs. associated
-------------------------------------
?  OCT  31, 1993  12h 31m 42.39± 3.16s
   31.093 S ±61.7km   68.517 W ±21.9km
   DEPTH = 100.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA     (137)

RTLL     0.24 170 iPd    31 57.50   0.2
                  S      32 07.00
RTCB     0.46 212 ePc    31 58.00  -0.2
                  S      32 09.50
CFA      0.56 155 eP     31 59.00   0.1
                  S      32 10.10
TCA      3.37  95 eP     32 34.00  -0.1
                  (S)    33 13.00
     S.D. = 0.4  on   4 of   4 obs.
-------------------------------------
   OCT  31, 1993  12h 41m 31.77± 0.40s
    3.348 N ± 4.1km  122.729 E ± 7.7km
   DEPTH = 562.1 ±  6.1 km
   4.9mb ( 13 obs.)
 CELEBES SEA                      (262)

TSM      4.94 281 iPc    43 02.40   0.0
BIP      5.98  36 ePd    43 11.80   0.3
KKM      7.02 293 eP     43 22.00   0.7
PLP      8.08  16 ePc    43 30.70  -0.7
PGP     10.24 350 eP     43 53.00  -0.1
MTN     18.12 153 eP     45 11.00   0.1
       0.3s   336.00nm          6.5mb X
MBL     24.52 187 iPc    46 08.60  -0.8
       0.5s    16.00nm          4.9mb
WR2     25.82 154 iPd    46 19.40  -1.5
       0.3s    75.40nm          5.8mb
                  epP    46 50.30 150kmX
                  eS     50 07.00
QIS     28.96 146 iPc    46 48.10  -0.1
WARB    29.60 173 iPc    46 54.00   0.3
       0.3s    11.00nm          5.0mb
MEEK    30.07 187 iPc    46 57.10  -0.6
MRWA    33.02 191 iPc    47 22.50   0.0
       0.3s    14.00nm          5.1mb
XAN     33.14 339 eP     47 23.60   0.1
COOL    34.07 182 iPc    47 30.80  -0.5
BAL     34.25 189 iPc    47 32.50  -0.3
       0.3s    10.00nm          4.9mb
FORT    34.31 172 iPc    47 33.20  -0.1
       0.4s    34.00nm          5.3mb
KLB     35.07 187 iPc    47 39.50  -0.1
MUN     35.67 190 eP     47 44.80   0.3
       0.7s    75.00nm          5.4mb
NWAO    36.45 188 iPc    47 51.20   0.3
       0.6s    19.00nm          4.9mb
RKG     38.10 188 iPd    48 05.60   1.2
       0.8s    26.00nm          4.9mb
STK     39.36 154 eP     48 14.90   0.2
       0.4s    10.00nm          4.8mb
ADE     40.96 160 eP     48 28.80   1.2
GTA     41.49 333 eP     48 32.40   0.6
       1.0s     8.00nm          4.2mb
                  PcP    50 16.50
MDJ     41.54   7 eP     48 32.00   0.1
HYB     45.51 291 eP     49 03.50   0.1
       1.0s    25.00nm          4.7mb
GBA     45.86 286 P      49 06.00   0.0
FBA     86.77  25 eP     53 17.15  -0.2
       0.6s     1.53nm          3.9mb X
```

```
BALM   89.49  29 eP    53 30.85   0.7
KAF    90.08 332 iP    53 31.70  -1.0
        0.5s     7.20nm          4.9mb
NUR    91.09 331 eP    53 35.20  -2.2
LTX   124.95  50 ePKP  59 31.12   0.6
LKO   126.94 284 PKP   59 34.46  -0.1
        0.6s     4.00nm
LIC   126.98 280 PKP   59 34.80   0.2
MIAR  129.15  39 ePKP  59 39.69   1.5
SDCA  129.47 327 ePdiff56 34.85   5.6X
FRA   129.51 327 ePdiff56 34.25   4.8X
                 eSg   56 40.57
RTCB  149.98 160 iPKPc 00 22.00   6.8X
RTLL  150.23 160 ePKPd 00 21.60   6.0X
     S.D. = 0.8  on  34 of  38 obs.
-----------------------------------
*  OCT  31, 1993  13h 23m 50.49± 0.88s
    7.406 S ± 7.4km  146.581 E ±13.1km
   DEPTH =  10.0km  (geophysicist)
   3.9mb (  1 obs.)
 EASTERN NEW GUINEA REG., P.N.G.  (207)
      ML 4.1 (PMG).

LAT     0.85  30 iPc   24 06.20  -0.6
YYYY    1.31 332 eP    24 17.20   2.4X
PMG     2.07 164 eP    24 26.40   0.7
MDG     2.28 340 eP    24 29.20   0.4
WWKK    4.77 322 eP    25 04.70   0.5
WR2    17.20 222 iPc   27 51.60  -1.0
        0.7s     6.70nm          3.9mb
                 epP   28 13.50
                 eS    31 04.30
WARB   26.63 223 eP    29 26.50  -4.7X
        0.7s    11.00nm          4.7mb X
     S.D. = 1.0  on   5 of   7 obs.
-----------------------------------
?  OCT  31, 1993  14h 07m 33.05± 0.89s
   45.863 N ± 7.8km   14.520 E ± 8.5km
   DEPTH =  10.0km  (geophysicist)
 NORTHWESTERN BALKAN REGION       (383)
      MD 2.1 (LJU).

CEY     0.14 208 ePg   07 36.50   0.1
                 eSg   07 38.50
LJU     0.18   3 iPg   07 37.20   0.1
                 iSg   07 40.20
                 iSg   07 40.40
VOY     0.47 291 ePgc  07 42.50  -0.1
                 eSg   07 50.70
TRI     0.55 254 eP    07 52.30   8.1X
VBY     0.63 124 e(Pn) 07 45.60  -0.1
                 eSg   07 50.60
GEC2    3.04 350 P     08 35.50  13.4X
        1.3s     1.93nm
                 e     08 43.20
     S.D. = 0.2  on   4 of   6 obs.
-----------------------------------
?  OCT  31, 1993  14h 18m 03.32± 1.36s
   31.757 S ±32.7km   68.349 W ±37.2km
   DEPTH = 100.0km  (geophysicist)
 SAN JUAN PROVINCE, ARGENTINA     (137)

CFA     0.18  32 ePc   18 17.90   0.0
                 S     18 29.00
RTCV    0.19 237 eP    18 18.00   0.0
                 S     18 29.00
RTLL    0.44 346 iPd   18 19.00   0.0
                 S     18 31.00
RTCB    0.47 305 ePd   18 19.20   0.0
                 S     18 32.00
     S.D. = 0.1  on   4 of   4 obs.
-----------------------------------
*  OCT  31, 1993  14h 38m 10.27± 0.81s
    5.842 S ± 6.7km  145.871 E ±12.2km
   DEPTH =  10.0km  (geophysicist)
   4.2mb (  1 obs.)
 EASTERN NEW GUINEA REG., P.N.G.  (207)

YYYY    0.41 166 ePd   38 19.10   0.4
MDG     0.59 351 iPd   38 22.50   0.2
MNDI    2.22 262 eP    38 52.50   4.6X
WWKK    3.14 314 eP    39 07.00   6.2X
PMG     3.76 160 eP    39 09.00  -0.6
CTA    14.17 179 eP    41 34.00   0.8
HNR    14.40 105 eP    41 36.00  -0.2
WR2    17.94 218 iPd   42 21.00  -0.6
        0.7s    14.10nm          4.2mb
                 eS    45 44.20
     S.D. = 0.7  on   6 of   8 obs.
-----------------------------------
?  OCT  31, 1993  16h 13m 40.97± 6.23s
   32.603 S ±39.0km   71.624 W ±32.1km
   DEPTH =  24.3 ±  7.8 km
 NEAR COAST OF CENTRAL CHILE      (135)
      MD 3.9 (SAN).

ROCH    0.63 126 iP+   13 53.77   0.3
                 iS    14 01.85
LCCH    0.87 177 iPd   13 57.11  -0.2
                 iS    14 07.26
JACH    0.87  95 iP+   13 57.48   0.0
                 iS    14 08.30
PEL     0.96 125 iP+   13 58.77   0.0
                 iS    14 10.40
SAN     1.17 137 eP    14 01.35  -0.6
                 iS    14 16.24
TACH    1.20 151 iP+   14 02.36   0.1
                 iS    14 16.80
FCH     1.33 123 iP+   14 04.38  -0.1
                 iS    14 21.04
LNV     1.36 173 iP    14 04.79   0.3
                 iS    14 21.45
PCH     1.38 138 iPd   14 05.04   0.2
                 iS    14 21.62
     S.D. = 0.3  on   9 of   9 obs.
-----------------------------------
*  OCT  31, 1993  16h 58m 26.24± 1.52s
   10.031 N ± 9.6km  126.172 E ±18.2km
   DEPTH =  64.2 ± 14.5 km
   4.4mb (  4 obs.)
 PHILIPPINE ISLANDS REGION        (248)

PLP     1.63 314 iPd   58 52.50  -0.7
                 iS    59 02.80
BIP     1.80 178 iPd   58 55.80   0.3
MAP     2.18 278 ePc   59 01.00   0.2
                 eS    59 27.00
CTB     3.42 215 eP    59 19.00   0.7
GQP     5.30 317 eP    59 40.00  -4.8X
SSE    21.47 348 P     03 11.00  -0.2
WRA    30.85 165 P     04 38.30  -0.4
        0.5s     0.60nm          3.6mb
WR2    30.86 165 eP    04 36.90  -1.9
        0.4s     2.30nm          4.3mb
WARB   36.00 179 eP    05 23.80   0.7
        0.2s     4.00nm          5.0mb
GBA    47.78 279 P     06 59.00  -0.3
YKA    94.01  24 eP    11 39.90   1.6
        0.9s     1.80nm          4.5mb
     S.D. = 1.2  on  10 of  11 obs.
-----------------------------------
%  OCT  31, 1993  16h 59m 45.72± 0.73s
   45.648 N ±17.3km   26.530 E ±13.5km
   DEPTH = 130.0km  (geophysicist)
 ROMANIA                          (358)

VRI     0.26  31 iPc   00 04.20   0.9
MLR     0.44 249 iPc   00 04.90   0.0
ISR     0.51 179 iPc   00 06.00   0.8
CLI     1.04  30 iPc   00 09.00  -0.3
MTUR    1.12 248 ePc   00 09.40  -0.7
CFR     1.23 111 iPc   00 10.50  -0.7
     S.D. = 0.9  on   6 of   6 obs.
-----------------------------------
   OCT  31, 1993  17h 02m 54.85± 0.59s
    4.647 N ± 4.4km  125.783 E ± 5.7km
   DEPTH = 190.1 ±  6.3 km
   5.1mb ( 25 obs.)
 TALAUD ISLANDS, INDONESIA        (263)

DAV     2.43 355 iPc+  03 37.00  -0.8
        1.0s  3264.00nm
                 iS    04 10.00
CTB     2.99 328 iPd   03 45.00   0.7
                 iS    04 22.00
BIP     3.58   7 iPc   03 51.00  -0.6
                 iS    04 34.00
MAP     5.92 343 iPc   04 22.00   0.4
                 iS    04 53.00
PLP     6.52 353 ePd   04 29.50  -0.1
SWI     7.74 135 ePd   04 44.00  -1.8
TSM     7.89 268 ePc   04 48.00   0.2
PPR     8.65 306 ePd   04 58.00   0.4
KKM     9.63 279 ePc   05 13.00   2.6
        1.4s   160.40nm          5.2mb
GQP     9.77 341 eP    05 16.00   3.8X
MTN    18.17 163 eP    06 54.20  -1.7
        0.3s   102.00nm          5.7mb
GUMO   20.81  63 eP    07 24.60   1.8
        1.1s   300.90nm          5.7mb
GUA    20.84  64 eP    07 24.50   1.5
        0.9s   168.07nm          5.6mb
LEM    21.42 238 ePc   07 30.50   1.6
KGM    22.58 264 ePd   07 41.00   1.0
        0.8s   125.00nm          5.5mb
KLI    22.94 246 eP    07 44.00   0.5
                 e     08 10.00
IPM    24.68 271 eP    08 00.50   0.5
WR2    25.86 161 iPd   08 09.20  -1.6
        0.6s    49.80nm          5.4mb
                 e     09 06.90
                 eS    12 22.50
LOE    26.75 300 eP    08 19.50   0.6
                 e     08 59.00
NST    27.48 295 eP    08 24.50  -1.0
KHT    28.59 293 eP    08 35.30  -0.2
BDT    29.07 298 eP    08 40.00   0.3
CHTO   29.74 300 eP    08 45.50  -0.2
WARB   30.66 178 iPc   08 53.20  -0.4
        0.5s    71.00nm          5.7mb
MEEK   31.86 192 iPc   09 02.40  -1.7
        0.8s   179.00nm          5.8mb
MRWA   34.96 195 eP    09 29.50  -1.1
        0.7s    59.00nm          5.3mb
TIY    35.10 341 eP    09 31.00  -0.8
FORT   35.29 177 eP    09 33.00  -0.3
        0.3s    42.00nm          5.6mb
COOL   35.61 187 eP    09 35.00  -1.0
BAL    36.11 193 iPc   09 39.20  -1.1
BJI    36.29 347 eP    09 40.50  -1.1
        1.0s     6.00nm          4.2mb
KLB    36.84 191 iPc   09 45.80  -0.6
        0.4s    25.00nm          5.2mb
SNY    37.07 357 Pd    09 48.20   0.0
        0.9s    35.00nm          5.0mb
LZH    37.24 330 eP    09 49.50  -0.4
        2.0s    33.00nm          4.6mb
                 S     15 21.00
MUN    37.54 193 iPd   09 51.90  -0.4
        0.8s   285.00nm          6.0mb
NWAO   38.24 192 eP    09 57.80  -0.3
HHC    38.24 342 eP    09 57.00  -1.2
STK    39.32 159 iPc   10 07.10   0.1
        0.9s    27.40nm          4.9mb
                 eS    15 49.90
RKG    39.87 191 iPd   10 12.30   0.8
        0.3s     9.00nm          4.9mb
LSA    41.13 311 P     10 24.00   1.5
        0.6s     6.00nm          4.3mb
ADE    41.24 164 iPc   10 24.00   1.2
GTA    41.83 329 eP    10 27.50  -0.2
        1.0s     4.00nm          3.9mb X
                 pP    11 04.50 169kmX
                 sP    11 25.00
                 PcP   12 20.50
                 ScP   15 52.50
                 PcS   16 10.00
                 eS    16 32.00
                 ScS   20 08.00
BWA    44.34 153 iPc   10 49.90   2.0
CAN    45.35 153 iPc   10 56.90   1.1
CNB    45.51 153 eP    10 58.20   1.1
TOO    45.83 158 iPd   11 01.30   1.7
DZM    47.83 125 iPc   11 15.60   0.1
HYB    47.92 289 eP    11 14.00  -2.2
                 e     12 02.00
KOD    48.19 280 eP    11 18.20  -0.4
GBA    48.48 284 Pd    11 19.80  -0.6
        0.8s    13.00nm          4.5mb
WMQ    51.44 325 P     11 43.50   0.8
YAK    57.32   2 eP    12 24.80   0.1
                 e     13 07.00
QUE    60.86 302 eP    12 49.70  -0.3
TIK    66.93   1 iPd   13 27.00  -1.3
        1.2s    20.00nm          4.7mb
                 e     13 49.00
                 e     14 10.00
                 iS    22 04.00
MAIO   68.21 307 eP    13 36.00  -1.1
CSY    71.62 186 eP    14 08.70  11.8X
        0.9s    52.50nm
```

31d 17h

```
ARU     73.63 328 eP    14 07.50  -1.4
                e       14 55.00
IMA     81.93  24 eP    14 55.49   1.2
        1.0s     3.59nm          4.1mb
MAW     84.28 200 P     15 06.20   0.2
        1.0s    20.83nm          4.8mb
KAF     90.35 332 iP    15 34.60  -0.7
        0.3s     1.30nm          4.4mb
NB2     97.55 333 P     16 06.50  -1.8
        0.9s     4.50nm          4.9mb
GEC2   100.78 321 Pdiff 16 24.30   1.1
        0.6s     0.33nm          4.1mb
                e       16 28.30
                e       17 15.10
LTX    121.78  51 (PKP) 21 27.23  -1.2
PEL    147.75 154 iPKP+ 22 20.00   4.0X
RTCB   149.99 155 iPKPc 22 25.50   5.9X
CFA    150.12 155 e(PKP)22 25.50   5.8X
RTLL   150.27 155 iPKPc 22 25.70   5.8X
TCA    151.71 161 iPKP  22 29.00   6.9X
MOCB   160.12 147 PKP   22 35.30   1.7
CNCB   161.88 133 PKP   22 38.30   2.8
LPB    161.97 132 PKP   22 41.00   5.5X
LPAZ   162.10 131 PKP   22 40.70   4.8X
     S.D. = 1.2  on  63 of  72 obs.
-----------------------------------
   OCT  31, 1993  17h 04m 08.03± 0.57s
    5.733 S ± 7.8km  145.906 E ± 7.2km
   DEPTH =  10.0km  (geophysicist)
   4.1mb (  1 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

MDG     0.50 345 iPd    04 21.60   3.5X
YYYY    0.51 173 eP     04 18.60   0.2
LAT     1.43 130 iPd    04 34.20   0.2
MNDI    2.27 259 eP     04 52.70   6.3X
WWKK    3.09 313 ePc    05 05.10   7.3X
PMG     3.86 161 eP     05 08.30  -0.4
KVG     5.81  58 eP     05 41.00   4.7X
RAB     6.42  76 e(P)   05 44.00  -1.0
HNR    14.39 106 eP     07 35.00   1.1
SWI    15.40 288 ePc    07 54.00   6.9X
BKM    24.84 120 iPd    09 33.50   1.4
DZM    25.66 131 iPc    09 38.60  -1.3
STK    26.33 188 eP     09 45.30  -0.6
        1.0s     3.90nm          4.1mb
IPM    45.97 282 ePc    12 34.00   0.4
NST    50.06 296 eP     13 06.00   0.6
HYB    70.35 291 eP     15 24.00  -0.6
GBA    70.62 287 P      15 26.00  -0.2
     S.D. = 0.9  on  12 of  17 obs.
-----------------------------------
   OCT  31, 1993  17h 08m 47.69± 0.59s
   38.487 N ± 5.3km   21.426 E ± 5.8km
   DEPTH =   5.0km  (geophysicist)
 GREECE                          (364)
     ML 3.3 (TIR), 3.1 (THE), 3.0
     (ATH).

VLS     0.73 245 ePg    09 01.50  -0.7
IGT     1.35 321 ePb    09 12.86  -0.1
                eSb     09 34.14
KEK     1.76 315 ePg    09 21.70   2.7X
SRN     1.78 322 ePn    09 36.50  17.3X
LSK     1.78 339 iPnd   09 20.60   1.2
                iSn     09 49.50
LIT     1.81  27 ePb    09 18.69  -1.1
                eSb     09 42.30
KZN     1.84   8 ePb    09 20.00  -0.2
ATH     1.88 105 ePb    09 21.00   0.3
VLI     2.14 145 ePb    09 25.00   0.5
KBN     2.19 347 ePn    09 26.00   0.7
FNA     2.29 359 ePn    09 27.42   0.6
VLO     2.48 324 ePn    09 45.00  15.7X
BERA    2.49 333 ePn    09 33.60   4.1X
OHR     2.66 350 ePn    09 31.80  -0.3
SOH     2.77  32 ePn    09 32.46  -1.1
KNT     2.90  23 ePn    09 34.82  -0.6
                eSn     10 09.42
VAY     2.96  17 ePn    09 37.00   0.8
     S.D. = 0.8  on  13 of  17 obs.
-----------------------------------
?  OCT  31, 1993  17h 57m 15.69± 1.08s
   26.910 S ±14.6km   26.723 E ± 9.1km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA        (584)
     ML 2.5 (PRE).

BFS     0.06  78 iPd    57 16.10  -1.2
                S       57 16.40
SWZ     1.28 257 eP     57 39.70  -0.2
                S       57 57.60
SEK     1.62 151 eP     57 45.40   0.3
                S       58 05.90
SLR     1.82  50 eP     57 49.00   0.9
                S       58 12.00
     S.D. = 1.6  on   4 of   4 obs.
-----------------------------------
&  OCT  31, 1993  18h 31m 23.74s
   36.295 N          120.427 W
   DEPTH =   9.6km
 CENTRAL CALIFORNIA              ( 39)
     <GM-P>. MD 3.6 (GM). ML 3.7
     (GS), 3.3 (BRK), 3.1 (PAS). Felt
     (IV) at Coalinga and (II) at
     Reedley.

PARM    0.08 124 P      31 26.93   0.7
PCRM    0.20 182 P      31 28.46   0.3
PRI     0.25 232 iPd    31 30.04   1.0
PSMM    0.26 211 P      31 30.29   1.0
PKEM    0.35 132 eP     31 31.63   0.7
CTM     0.37 169 P      31 32.11   0.7
PSTM    0.37 190 P      31 32.18   0.8
BTW     0.41 273 P      31 32.65   0.6
PSRM    0.45 165 P      31 33.80   0.9
PHAM    0.46 177 ePd    31 33.76   0.7
WKR     0.48 188 P      31 34.31   0.7
LRV     0.49 285 P      31 34.25   0.5
PMCM    0.57 175 P      31 35.65   0.3
SHG     0.68 280 P      31 36.97  -0.2
PADM    0.74 209 P      31 38.60   0.2
PRS     0.76 273 iPd    31 38.69   0.0
BCGM    0.85 300 P      31 40.52   0.4
PMGM    0.87 185 P      31 40.27  -0.2
BSLM    0.88 303 P      31 41.63   0.9
FRI     0.90  40 iPd    31 40.10  -1.0
BVYM    0.91 300 P      31 41.34   0.0
YEG     0.94 156 P      31 41.80   0.1
SAO     0.94 300 ePc    31 41.68  -0.1
BSRM    0.95 293 P      31 42.14   0.2
SFL     1.04 312 P      31 43.50   0.1
HJGM    1.05 299 P      31 43.61   0.0
BPRM    1.06 276 P      31 43.54  -0.2
DIL     1.12 299 P      31 44.34  -0.4
BCH     1.14 166 eP     31 44.56  -0.7
                eS      31 59.62
HERM    1.15 296 P      31 45.66   0.4
CBC     1.18 303 P      31 47.20   1.4
HSPM    1.20 313 P      31 45.72  -0.4
JELM    1.29 300 P      31 48.81   1.1
ARN     1.38 320 ePc    31 47.90  -1.1
COE     1.39 314 ePc    31 48.14  -1.0
                eS      32 10.22
JRGM    1.44 301 P      31 49.80  -0.1
PKM     1.48 160 P      31 50.11  -0.6
CSTL    1.59 328 P      31 58.02   6.0
CVR     1.59 317 P      31 50.97  -1.1
WASM    1.61 110 P      31 51.95  -0.6
ISA     1.71 111 ePc    31 52.70  -1.1
MMPM    1.73  40 eP     31 54.45   0.1
                eS      32 15.96
CMB     1.74   1 ePc    31 53.60  -0.6
                eS      32 14.95
ABL     1.74 145 eP     31 52.69  -1.8
                eS      32 12.02
ARVC    1.75 131 P      31 53.11  -1.2
SYP     1.80 168 P      31 59.08   3.8
WJPM    1.81 119 P      31 54.52  -0.8
MEMM    1.81  41 eP     31 56.00   0.7
                eS      32 17.96
MTUM    1.83  54 eP     31 56.05   0.3
BHPR    1.85  57 P      31 56.64   0.6
RYS     1.87 152 P      31 55.91  -0.4
MNHM    1.87 351 P      31 55.14  -1.0
WBSM    2.00 111 P      31 58.16  -0.1
MRCM    2.06  48 eP     32 00.08   1.0
VPEM    2.14  98 P      32 01.30   1.1
HMR     2.16 330 (Pn)   32 01.24   1.0
BONR    2.37  45 ePn    32 04.10   0.4
WSHM    2.47 105 P      32 04.36  -0.4
NTYM    2.75 320 eP     32 06.61  -2.0
SSK     3.05 132 eP     32 11.29  -1.9
                eS      32 43.11
GSC     3.11 108 ePn    32 12.49  -1.3

TNP     3.12  54 ePn    32 14.23   0.1
ORV     3.36 346 ePn    32 16.94  -0.5
TPNV    3.42  78 ePn    32 18.14  -0.3
PEC     3.59 131 ePn    32 18.50  -2.2
PLM     4.15 134 ePn    32 28.07  -0.7
GLA     5.63 123 (Pn)   32 45.68  -4.0
ARUT    5.78  73 ePn    32 50.72  -1.2
MSU     6.93  69 ePn    33 08.68   0.5
                ePg     33 33.47
DAU     8.29  58 (P)    33 29.83   2.5
     70 obs. associated
-----------------------------------
*  OCT  31, 1993  19h 59m 27.72± 0.79s
    5.796 S ± 6.6km  145.833 E ±13.1km
   DEPTH =  10.0km  (geophysicist)
   3.9mb (  2 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY    0.46 163 iPc    59 37.40   0.2
MDG     0.54 354 iPc    59 38.70   0.0
LAT     1.45 127 eP     59 53.90   0.0
MNDI    2.19 261 eP     00 10.50   5.6X
PMG     3.82 160 eP     00 27.20  -0.7
WR2    17.95 217 eP     03 38.70  -0.5
        0.7s     6.50nm          3.9mb
                e       03 48.40
                eS      07 09.30
STK    26.25 188 eP     05 05.90   1.0
        0.9s     3.10nm          4.0mb
     S.D. = 0.8  on   6 of   7 obs.
-----------------------------------
*  OCT  31, 1993  20h 30m 14.25± 1.01s
    6.128 S ±10.9km  146.283 E ±11.4km
   DEPTH =  33.0km  (normal)
   3.7mb (  1 obs.)
 EASTERN NEW GUINEA REG., P.N.G. (207)

YYYY    0.33 250 iPd    30 21.70  -0.9
                eS      30 28.00
LAT     0.89 127 iPc    30 29.80  -0.6
MDG     1.01 330 eP     30 32.40   0.4
PMG     3.37 165 eP     31 06.50   0.6
WWKK    3.64 313 eP     31 16.50   6.9X
KVG     5.72  52 eP     31 46.50   7.3X
WR2    17.97 219 eP     34 23.80   0.5
        0.7s     4.10nm          3.7mb
LKO   151.93 279 PKP    50 09.50   7.7X
        0.5s     1.50nm
     S.D. = 1.0  on   5 of   8 obs.
-----------------------------------
%  OCT  31, 1993  22h 03m 41.51± 0.87s
   31.583 S ±15.8km   67.274 W ± 7.5km
   DEPTH =  28.5 ± 10.4 km
 SAN JUAN PROVINCE, ARGENTINA    (137)

CFA     0.82 268 iPd    03 58.10   1.0
                S       04 10.20
RTLL    1.05 284 ePc    04 00.20  -0.2
                (S)     04 18.00
RTCB    1.31 274 iPc    04 03.00  -1.0
                S       04 20.50
RTPR    1.44  27 eP     04 06.50   0.7
                S       04 28.00
MRA     1.57 122 iPc    04 08.40   0.7
                S       04 29.00
TCA     2.31  85 iPc    04 17.20  -1.2
                (S)     04 43.00
RFA     3.33 197 iPd    04 28.00  -5.0X
                S       05 22.00
     S.D. = 1.5  on   6 of   7 obs.
-----------------------------------
   OCT  31, 1993  22h 32m 39.16± 0.24s
   40.640 N ± 2.9km   19.134 E ± 2.4km
   DEPTH =  30.7 ±  2.8 km
 ALBANIA                         (391)
     ML 3.9 (ATH), 3.8 (TIR), 3.7
     (ROM), 3.7 (THE). Felt (IV) in
     the Vlore region.

VLO     0.32 122 iPgd   32 44.80  -2.2
                iSg     32 50.20
BERA    0.62  84 ePg    32 47.40  -4.2X
                iSg     32 56.40
TPE     0.75 117 iPgc   32 53.20  -0.3
                iSg     33 05.50
TIR     0.90  38 iPgd   32 56.00   0.4
                iSg     33 11.50
```

SRN	1.01	139	iPgc	32 58.60	1.4
			iSg	33 11.60	
KEK	1.06	151	ePn	32 59.00	1.1
LACI	1.09	23	iPgc	32 58.00	-0.3
			iSg	33 13.50	
LSK	1.22	113	iPnc	33 00.90	0.6
			iSn	33 19.90	
KBN	1.26	90	iPnd	32 59.00	-1.8
			iSn	33 19.00	
ULC	1.33	4	iPnc	33 01.42	-0.3
			iSn	33 25.33	
OHR	1.35	69	iPn	33 01.60	-0.5
			iSn	33 23.00	
			Lg	33 24.50	
SDA	1.44	11	iPnd	33 04.30	1.0
			iSn	33 26.20	
IGT	1.44	140	iPb	33 04.38	1.1
			eSb	33 24.02	
BRT	1.49	280	P	33 05.03	1.0
BDV	1.66	352	iPnc	33 06.20	-0.3
			iSn	33 34.32	
FNA	1.71	84	ePb	33 08.42	1.1
TTG	1.79	3	iPnc	33 08.20	-0.2
			iSn	33 38.06	
BCI	1.86	22	iPnd	33 09.80	0.3
			iSn	33 34.20	
HCY	1.87	345	iPnc	33 09.18	-0.4
			iSn	33 38.32	
KZN	2.04	99	ePn	33 12.00	-0.1
PVY	2.05	18	iPnc	33 13.04	0.7
			iSn	33 45.35	
ORI	2.13	255	P	33 13.97	0.6
NKY	2.17	357	iPnc	33 13.83	-0.2
			iSn	33 46.33	
SKO	2.19	52	iPn	33 14.60	0.5
			i	33 17.20	
BRY	2.30	349	iPnc	33 14.94	-0.9
			iSn	33 48.74	
IVA	2.30	14	iPnd	33 16.76	0.9
			iSn	33 51.26	
GRG	2.50	82	ePn	33 18.66	0.0
			eSn	33 49.89	
LIT	2.62	101	ePn	33 20.70	0.4
			eSn	33 53.14	
VAY	2.69	74	iPn	33 21.30	0.1
PLE	2.70	4	iPnd	33 21.79	0.4
			iSn	34 00.13	
VLS	2.71	155	ePn	33 20.80	-0.7
GRI	2.77	230	P	33 21.45	-1.0
MGR	2.78	261	P	33 23.36	0.9
KNT	2.90	78	ePn	33 24.02	-0.2
			eSn	33 57.30	
SGO	2.91	270	P	33 24.47	[illegible]
THE	2.91	89	ePn	33 24.86	0.4
			eSn	33 57.58	
SOH	3.21	85	iPn	33 28.53	-0.2
SRS	3.41	81	ePn	33 30.82	-0.8
			eSn	34 10.34	
SOI	3.50	224	P	33 31.89	-0.9
PAIG	3.55	100	ePn	33 32.54	-0.9
			eSn	34 12.86	
DUI	3.68	288	P	33 35.86	[illegible]
OUR	3.71	93	ePn	33 35.30	-0.4
ATN	3.77	230	P	33 35.06	[illegible]
SDI	4.15	287	P	33 42.52	[illegible]
ATH	4.44	125	ePn	33 45.8[illegible]	
AQU	4.63	294	P	33 49.[illegible]	[illegible]
MEU	4.82	224	P	33 51.[illegible]	[illegible]
RDO	4.88	82	ePn	33 51.[illegible]	
VLI	4.92	142	ePn	33 52.[illegible]	[illegible]
MNS	5.15	292	P	33 56.[illegible]	
ALN	5.25	85	ePn	33 56.[illegible]	[illegible]
BZS	5.30	19	eP	33 47.[illegible]	[illegible]
ASS	5.41	299	P	33 59.[illegible]	
ARV	5.42	304	P	33 58.[illegible]	[illegible]
PTJ	5.75	337	eP	34 [illegible]	
RIY	5.85	325	e(Pn)	34 [illegible]	
CRE	6.12	302	P	34 [illegible]	[illegible]
SFI	6.32	304	P	34 [illegible]	[illegible]
LJU	6.36	330	e(Pn)	34 11.4[illegible]	[illegible]
			e	34 16.8[illegible]	
			eSn	35 22.8[illegible]	
PGD	6.38	303	P	34 15.3[illegible]	[illegible]
TRI	6.41	324	e(Pn)	34 12.5[illegible]	[illegible]
			e(Sn)	35 22.7[illegible]	
VOY	6.61	326	ePn	34 14.8[illegible]	[illegible]
			e	34 15.8[illegible]	

			eSn	35 26.40	
			e	35 40.30	
			e	36 22.30	
			e	36 35.70	
MLR	6.95	44	eP	34 03.00	-18.7X
SRO	7.20	356	eP	35 06.30	41.4X
			e	35 37.30	
VRI	7.62	44	eP	33 41.00	-49.8X
KBA	7.67	329	iP	34 31.20	-0.6
	0.4s		2.40nm		4.6mb
			i	34 36.80	
ZST	7.69	350	eP	35 04.80	33.0X
WATA	8.63	323	iP	34 42.90	-2.1
			i	34 48.50	
SQTA	8.71	322	iP	34 47.70	1.6
	0.6s		9.40nm		5.1mb
GEC2	9.07	337	Pn	34 47.70	-3.3X
			Sn	36 25.00	
KHC	9.36	337	eP	34 57.00	2.1
			e	35 17.50	
			e	37 04.00	
MOX	11.30	335	e(P)	35 20.70	-0.8
EKA	20.81	322	Pd	37 25.80	5.6X
	0.7s		9.50nm		4.3mb
NB2	21.00	349	P	37 17.90	-4.3X
	1.0s		2.30nm		3.5mb

S.D. = 1.0 on 65 of 74 obs.

& OCT 31, 1993 22h 44m 37.84s
63.282 N 151.111 W
DEPTH = 9.9km
CENTRAL ALASKA (1)
<AEIC>. ML 2.6 (AEIC).

KTH	0.29	17	P	44 43.50	-0.3
			S	44 47.10	
TRF	0.41	65	P	44 45.90	-0.3
			S	44 52.30	
HUR	0.74	114	P	44 51.50	-0.8
			S	45 01.80	
CUT	0.96	156	P	44 56.00	-0.1
RND	1.03	82	P	44 56.50	-0.8
MCK	1.08	64	P	44 57.90	-0.2
BWN	1.16	39	P	45 00.10	0.7
SKT	1.32	189	P	45 01.80	-0.5
			S	45 19.90	
NEA	1.58	34	P	45 06.30	0.3
			S	45 28.30	
PWA	1.73	160	P	45 08.10	-0.1
MLY	1.76	5	P	45 08.30	-0.4
			S	45 32.90	
WRH	1.79	47	P	45 10.60	1.6
GHC	1.82	145	P	45 09.50	-0.1
SUA	1.83	174	P	45 10.10	0.4
			S	45 34.80	
PMR	1.93	151	eP	45 10.26	-0.7
			eS	45 39.20	
NCG	1.95	195	P	45 11.30	-0.1
SML	1.96	138	P	45 10.60	-0.9
CCB	2.00	45	P	45 13.60	1.6
CGLM	2.03	192	P	45 13.00	0.5
CPP	2.08	194	eP	45 12.78	-0.6
			eS	45 40.38	
[illegible]	2.09	195	eP	45 11.94	-1.7
[illegible]	2.11	36	P	45 16.50	2.9
			S	45 42.50	
[illegible]	2.16	57	P	45 17.20	2.8
[illegible]	2.17	160	P	45 15.80	1.2
			S	45 44.20	
[illegible]	2.18	40	(P)	45 14.13	-0.6
			eS	45 44.89	
[illegible]	2.25	145	P	45 15.60	-0.1
			S	45 45.50	
[illegible]	2.26	263	(P)	45 15.95	0.1
[illegible]	2.28	128	P	45 17.60	1.5
[illegible]	2.39	49	P	45 19.20	1.6
[illegible]	2.39	49	P	45 19.20	1.6
[illegible]	2.62	142	P	45 22.30	1.4
[illegible]	2.76	151	P	45 23.20	0.2
[illegible]	2.80	196	P	45 25.50	1.9
[illegible]	2.82	171	P	45 25.50	1.7
[illegible]	2.94	338	P	45 24.00	-1.5
[illegible]	3.01	340	eP	45 24.78	-1.7
[illegible]	3.01	124	P	45 27.00	0.5
[illegible]	3.35	137	P	45 31.70	0.4
[illegible]	4.23	89	P	45 43.50	-0.4

39 obs. associated

? OCT 31, 1993 22h 55m 16.18± 3.33s
31.831 S ±77.6km 68.258 W ±19.8km
DEPTH = 100.0km (geophysicist)
SAN JUAN PROVINCE, ARGENTINA (137)

CFA	0.22	4	ePc	55 31.20	0.3
			S	55 44.00	
RTLL	0.53	340	iPc	55 32.50	0.0
			S	55 44.30	
RTCB	0.58	307	iPc	55 32.70	-0.2
			S	55 45.00	
TCA	3.17	82	iP	56 05.00	-0.1
			(S)	56 41.00	

S.D. = 0.3 on 4 of 4 obs.

STATION DATA REPORT FOR OCTOBER, 1993

1671 stations reported 82305 reading arrival groups

X = data received for this 6-hour time period

```
       ----------------------------------------------------------------------------------------------------------------------------
DATE   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |10 |11 |12 |13 |14 |15 |16 |17 |18 |19 |20 |21 |22 |23 |24 |25 |26 |27 |28 |29 |30 |31
       ----------------------------------------------------------------------------------------------------------------------------
AAE         X         XX                         X    XX               XX    X            X X      XX X     X     X
AAI                XXX X   XXX  XXX        XXXXX XX                                        X X     X                       XX X
ABH           X           X         X    X        X   XX             X         X    XX X XX   X             X
ABHA         X         XX           X      X      X     X           X         X            X                 X
ABL    X X XXX    XXXX X  X  XX  X   XX     XX  XXX   XXX     X   XX    X   XX XXX X XXXX X X X X  XXX  XX  XX     XX  XX    XX   X
ACO                    XX  X  X  X        XX XX XX   XXXX X X       XX  X     XX X X    X         XXX   X        XXXX  X      XX
ACTO        X          X           X      X      X    XX            X          X                    X   X              X      X
ACU                          X                        X         XX        XX   X  X                 X
ACX     X  X   X  X    XX  XX          X  X   X       X   X XX X XX XX  X               X  X X X   XXX   X XX   X  XXX XX   XXX
ADE    X   XXX  X    XXX   XX X    XX       X   XX     X   XXXX   XXXX  XX      X    XXX  X XX  X  XX   X   XX  X XXX  XX    XX XXX
       ----------------------------------------------------------------------------------------------------------------------------
ADK         XX   X XX XX        X  X     XX      X     X X         X     X      X                 X X   XX        X X XXX   X X
AFI                   XX       X XXXXX XXXXXXXXXXX     X  X  X    XXXXXXXX  X XXXXXXXXX XXXXXXXX XXXXXXXXXXX X X XXXX X XXXX XXXXXX
AFIF       XX       X XX  X        X      X
AFR    X   X          XX                    X    X     XX    X     X                                X   XX        X    XX
AGG    XXXXXXX XXX  XXXX    X  XX  XX  XX     XX XX XXXXXX XXXXX X    X XX   X    XXX   XXXXXX XX XXXX   XX XX  X   X       X
AGU       X X X           X  X   X       X  X  X X   X      XX    X X  X    X X       X    X    X       X XX    XXX X  X    XX   X
AKU         X       X            X    X          X    XX           X        X X           X         X   X   X          X
ALJ         X         XX    X                     X      X   X               X X  X                 X       X
ALN    XXX XXXXX X     X     X                X  XX  X   X       X X  X  X   XX XXX     XXXXXXX X    X      X X  XX    X X  X     X
ALQ    X X XXX   XXXXXXX XX      X XXX   XXXXX X XXXXXXXXXXXXXX    XXX  X   X XXXX X    X XXXX    XXXXX X   X     XX   XX    XXXX
       ----------------------------------------------------------------------------------------------------------------------------
ALT    X    XXX  X   X X XXXXXXXX   XXX X XX X  XXXX X XX   XXX XXX XXX XXX XXXXX XXXX XXXX XX  XX XXX  XX  XX    X XX XXX  XXXXXX
ANM              X  X  X                 X       X     X           X     X                X X           XXX X          XX        X
ANN         XX      X XX          XX  X          X    XX     X      X        X            X         X   X   X                   X
ANT    XXXXXXXXX XX XXX    X X
AOMJ         X   XXXX  X XX          XX         XX                     X          X                    XX          X   X
APO                            X     X   X  X  X         XX XXXX   XXX X  X XX
APR                                   X               XX           XX       X  X   XX         XX    XXX X              XX  XX X
ARA0    XXX    X X   X  XX  XX  XX  XXX X  X          XX X   XX  X  X        X   X  XX XX   XX     X   X    X  XXX      XXX
ARC             X                                X     X           X    X     XX                  X X   X         X
ARE    X X XXX    XXX                 XXX   XXX XX  X XXX   X X X XX    XX     X    X XXX XXX     XXXX XXX  X  XXX XX  X    XXXXX
       ----------------------------------------------------------------------------------------------------------------------------
ARMA   X  XXXX XX   X XXX   X   XX XXXXXX  XX   XXX X XXXXXXXXXX  XXXX XXXX XXXXXX XXX X   XXXX XXXXXXXXXXXXXX
ARN    X X XX   X XXX XX  XX   X X   X X  X XXX XXXXX XXXXXXXX XX XX   XXX XX XXXX  XXXXXX XXX  X XXXX XXX XX  X  XXX  XX    XX   X
ARU    X X XXX X    X XX          XX XX  XX   XX X    XXX X   X   XXX        X X          X       X X   XX  X  XX XX   X    X XX X
ARUT   X X XXX   XXXXXXXX  X     X   XXX XXXXXXXXXXX XXXXXXXX XX  XXXX XXX  X XXXX XX   XXXXXX X  XXXX XXX  X  X  XXX  XX    XX X X
ARV         X    X     X                              X        X                                    X                  X          X
ASAJ   X    XX  XX XX XX  X     X  X XX       XXXX                     XX      X  XX X  X   X          XX   X  XX XXX  X
ASH    X   XXX X    X XX  X    X  XX XX   X      X    XXX     X   XXX    X   X X    XX    X         XX XXX  X  X  XX   X    X X
ASK         X     X  XXX X  X    X               X           X  XX           X    X X   XX     X             X          X
ASPA   XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
ASR      X XXX     XX XX          X   X   X       X X  XX  X    X   X   X      XXX                       X   X  X              X
       ----------------------------------------------------------------------------------------------------------------------------
ASS         X    X     X              X          X    X        X               X                    X                  X          X
ATH    X   XX  XX           X  X       X      XX                      X  X     X  X      X   X   X   X      X       X X X   X  X XX
AUE     X X X XX  X X  X  X  X           X  X XX X   X    X XX X  X X XX    X X       X    X    X   X X X XX  X XXX    X  XXXX   X
AUH     X X X XX  X X     X  X    X      X  X XX X   X    X XXXX  X X XX    X X  X    X    X    X    XX X XX  X XXX    X  XXXX   X
AUI     X X X X     X     X  X           X  X  X X   X    X XX    X X  X    X X       X    X    X    X  X XX  X XXX    X  X X
AUL     X X X XX    X  X  X  X           X  X  X X   X    X XXXX  X X XX    X X  X    X    X    X   XXX X XX  X XXX    X  XXXX   X
AUP     X X X  X    X  X  X  X           X  X  X X   X XXXX XXXX  XXX XX    X X  X    X    X    X   XXX X XX
AURF   X             X X              X  XX X    X X  X       X    X        XXXX         X     X X          X    XX    XX X
AUTN   X             X X              X  X  X    X X   X      X    X        XXXX         X       X          X    XX    XX X
AUW     X X X XX  X X     X  X   X       X  X XX X   X    X XXXX  X X XX    X X  X    X    X    X   XXX X XX  X XXX    X  XXXX   X
       ----------------------------------------------------------------------------------------------------------------------------
AVE    X X XX        XXX       X XX   X   X      X   XXX     X     X         X X      X XX       X X    XX  X    XXX   X X   XX
AVF    X   XXXXXX XXX  X  X    X XX  XXXXXXXX XX XX   X                            XX  X  X X XXX XXXX XXX XX
AYN    XX   X  X X  X XX  XXXXX   X XXX X   XXX XX   X X XX X X     X  X XX X X X XX    X   X XX   XX X       X X X X X XX XX    X
BAG          X  X XX   X           X        X  XXX X  XX    XXXX  XXX  X X  X X XXXX X X    XXX    XX   XX  X   X XXX   X   X
BAK        XX          X                         X     X          XXX        X X          X         X   XX  X
BAL    X    X   X  XXXXX X XXXXX X X      X XX  XX X  XX   X X    XX X  X   X XX     X    XXXX  X XXX   X   X   X X    XX     XXXX
BALM    X  XXX XXX  X XX  XX XXX  XX XX  XX X XXXX  XXXXXXX XXXX  XXX  XXX  XXX XX   XX     XX  XXXXX  XXXX X   XXXXX XXX X XXXXXX
BAO      XXXXX  X XXX      X     X XX X  XX   X XX   XXXX X XXXX   XX  X     X XX    X X XXX       XXXXXXXX X XXXXXX   X  X   X X
BBS    X    XX      X X   X           X     X    XX   XX       X           X X X     X   XX   X     X   X   X     X    X    XX  X
BC3     XXX X X XXX   X XX   XXX  XX      X X XXXX  XX   X  XXXX    X X  X    X X X X X   X  X   X X    XX XX X  X  X X X XXXXX  XX
       ----------------------------------------------------------------------------------------------------------------------------
BCAO   XX   XX XXXXXXXXXXXXXXX XXXXXXXXXX XXXXX XXXXXXXXXXXXX
BCH    X    X     XXXX X  XX X X X X XXX    XX  XXXX  XXXXX X XXX XX   XXX XX XXXXX XXXXXX X X X  XXX  XX  XX     XX   XX    XXXX X
BCI    XX   X XX X  X  X        X X   X       X  XX    X         XX     X   XX            XX            X   X    X     X          X
BCK    X XXXX X    X   XXXXXXXXXX X  XX  X X     XXX  XXX XXX X    X  X XXXX X  X XX  XXX X   X      X X     XX   X XX  XX  XXXX X
BCP         X   X  X               X        X  XXX    XX           XX    X   X   X  X        XX X XX    X
BDF    X    X          X         X    X                                              X     X    X   X    X  X      X   X        X
BDFB                                                           XX  XX  X     X X        X  XX      XXX  X          XX  XX
BDT      X XXX XXXXX XX    XXX    XX  X   X  X  XX X  XX  X             XX X XXX XX  XXX XX             XX      X XXX  X   XX XX XX
BDV    XX   X    X                            X  XX                          XXX                        X X X    X     X    X X X X
BER         X     X  X X X  X                    X           X                          X           X
       ----------------------------------------------------------------------------------------------------------------------------
BERA                                                                                                           XX  X   XX    XX      XX XX
BFS      X           X XXXX  X   X    X         X X            XXX  X X         XXX X   XXX XX   XX XX     X X  XX  XX   X    X  X
BFT     XX XX XXX  X XXXXXX      X  X  X XX   X XXXXXX X X     X   XXXX      X XXX          XX  XX  X   X  X X     XXX XXXX  XX
BGF    X  XXXX XXXXX XX   X    X     XXX XX X XX XX   X                             XX X  X X XX XX XXXXX   X
BGL     XXX X XXXXX X X XX   X  X X      X  X XXXX  XX    X XXXX  X X X XX XXXX  XX   X   XXXXX XX XXXXXX XX  X XXX X XXX XXXXX  X
```

```
        ----------------------------------------------------------------------------------------------------------------------------
DATE    | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |10 |11 |12 |13 |14 |15 |16 |17 |18 |19 |20 |21 |22 |23 |24 |25 |26 |27 |28 |29 |30 |31
        ----------------------------------------------------------------------------------------------------------------------------
BGR      X X X XXXXX X  X XX  X   XXX     X  X XXXX  XX    X XXXX    X  XXX XXXX  XX       XXXXX XX XXX XX XX  X XXX X XXX XXXXX  X
BHB     X  XXXX  X X   XX      X    X  X  XX    X X X  XXX     XXX X  XX   XX X XX  X X   XX XX XXX  X   X XXXXX    X   XX X   X
BHG     X   XXX   X  X XX             XX  XX   X  XX   X   X  X X         X   XXX     XX   X         X  X    X     XX   X  XXXX  X
BHL     X    XXX  X X  XX                        X           X    X         XXX  X X XX  X             X   X   X    X    X
BHPR                                                                      XX  X    XXX  X   X    X                                X
BINY    X    XX        XX  X      X X     XX  X        XXX X        XX   X      X        X   X      XXX  X   X      X   XX   X X X
BIP      XX   XXXXXXXX XX XX  XXX   X    XXXX XX  X  X  XXXXX X X   X      X XXX  X XXXXXX   XXX XX XXXXXXXX                      XX
BJI     X XXXXXXXXX XXXXX  XXXXXXXXXXXXX  XXXXXXXXXXXXXXXXXX XXXXX XXX  XXX XXXXXXXX XXXX XXXXXXXX XXXXXXXXX X  XX XXXX XX  XXXXXXXX
BKG      XXX X XXXXX X  X XX  X   X X     X  X XXXX  XX    X XXXX  X X XXXX XXXX XXX   X   XXXXX XX XXX X  XX    XXX X XXX XXXXX  X
BKM     XXXXXXXXXX XX XXX X  X XXXXXXXXXXX  XXX  XXXXX XXXXX XXXXXXXXXX XXXXXX  XXXX X X     XX X XXXXXXXXXXX  XXX XXXXXXX  X X XXXX
        ----------------------------------------------------------------------------------------------------------------------------
BKS     X   XX          X             X          XX  X XXXXX    X  XX        X XXX    X   X  XX    X XX  X  X      XX   XX     X
BLA        X             X                        X    XX    XX     XX                                                X   X      X
BLE      XX                                      X          X         X  X         XXX                X
BLF     X X XX XXX  X XXXXXX  X  XXX X X  XX     XXXXXX X X X XXX XXXX XX X   X XXXX XX XX XXXX XXXX XX  XX X X XXXXXXX XX X  XXXX
BLS5       X     X      X                        X          X                    X   X                X      X
BLW     X X X     X            XXX    X X    X  X    X X    X  X  XX X        X         X X     X  XXXXX X X  X     X  XXX   X
BM3      XX  X X   X    X  X  X X   X        X XXX   XX        X       X  X    X    X X   X  X        X  X        X X XX  XXX  X
BMSM            X                                                      XX       XXX  X   X    X    X    X
BMW      X XXX     XX XX   X     X X X      XX  XXXX  XX  X X  X   X   XX     XXX     X      X    X X   X   X  X   XX  X     XX
BNI        X         X             X          X    X        X              X                    X                    X
        ----------------------------------------------------------------------------------------------------------------------------
BNS        X         XX    X                  X    XX  X  X     X          X          X   X  X  X   X   X     XX   X   X X
BNT            X   XXXXXXX XX XXXX XXX X X X    X  XX  XX  XXXXXXX         X          XXXX XX XXX  XXX XXX X
BOB        X                        X          X    X        X              X                    X                    X
BOM                                 X  X  X X XX    XX                                                XX                    X
BONR    X X XXX  XXXXX XXX XX X XXX X XXX XXXXXX XXXXXXXXXXX XXXXX XXXX XXX XX XXXX  XXXXXX XXX XX XXXX XXX XX  XX XXX  XX X XXXXX X
BOSA              X  XX          X       X      X      X      X      X         X X    XX     XX              X              X      X
BRG     XXXXXXX X X XX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXX XXXX XXXX XXXXX XXXXXXXXXXXXX  XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXX X
BRLK     X X XX  X    X         X          X XX X   X    X XXXX  X X XX    X X  X    X         X   XXX X XX  X XXX    X  X XX   X
BRS     XXXXXXX XXX XXXXXX XX XXXX XXXX X XXX   XXX X  XXXXXXX X
BRU     XXXX  X XX  X   X X         X X X  X XX X   X XXX       X        X    X X X X    X   X       XX   X      X XXX  X   X   X
        ----------------------------------------------------------------------------------------------------------------------------
BRW        X         X             X         X                       X              X         X       X         X
BRY     XX   X    X    X                   X  XX                          XXX                      X X X    X     X    X X X X
BSD        X         XX    X         X          X            X              X    X X     X           X X  X  X  XX   XX X X   X
BSF     X   XXXX XXXXX XX  X    X  XXXXXXXXX XXXXXXX   X                          X   XX   XX XXXXXXXXX XX X
BSZ      XXX          X         XXX      X   X  X    X X    X  X     X        X    X     X         XXXXX X X  X     X  XXX   X X
BTH       X       X   X    X    X   X                X         X        XX   X        XXX  X      X
BTO      XXXXX  X  XX XXXXX  XXXXXXX XX  XX XX  XX    XXXXX XXXXX XXX  XXX  XX X X  XXXX  X X X X XXXXXXXXX X  XX XXX  XX   X XXX
BUC     X    XX  X   X XX                                                                  X       X    X             X
BUL     X X XXXX    X  XX XXXXX  XXXXXX X XX X X XX XXX XXXXXXX XXXXXXXX XX XXXXXX   XX  X XXXX  XXXXXXXXXX XXX X  XXXXXXXXXXXXXX
BVA        X            X  XX  X      XX X XX X  X X X    XXX       XX  X X X    X  X   XX  X
        ----------------------------------------------------------------------------------------------------------------------------
BW06    X X XXX  XX XX XXX XX
BWA     X  XXXX  X     XX   XX   XX X X      XX XXXX   XXXXXXXXXX XXXXX XXX    X XX   XX                            XX  XXX XXX
BWN                 X XX    X          X X  XXX  XX       XX          X  XXX     X XX  X  X   X X   X  X      X    X XXXXXXX  XX
BWZ     XX XX    XX      X      X   X  X    X    XX   XXXX   X  X XXX         X X     X  XX  XX  X XXXXXXXX      XX   X X      XX X
BZS     X    XX X X XX     X  X      X XX  X   X  X X  XX   X      XX  X  X   XXXX X       X                                    X
CACB      X XX       X  X            X        X    XXX          X          X          X      XX   X   X    X           X
CACH    XX   X      X  XX      XXX        XXX                          X    XX  X X       X          X XX        X     X XX  X
CAF     X  XXXXX   XXX  X  XX     X    X  XXXX    X    X                          X X X  X XX XXXXX  XX
CALN    X               X             X  XX      X     X                    XXXX        X                X    X        X
CAN     XX XXXX  X     XX   XX   XX X X      XX XXXX   XXXXXXXXXX XXXXX XXX  X X XX   XX    X    X        X      X      XX  XXX XXX
        ----------------------------------------------------------------------------------------------------------------------------
CANV                                                                                      X      X            X X XXX      XX
CAR       X XXX     X  XX X       X XX  X     X   X   XXX     X     X    X      X        X   X      XX  X    X X XXX   X X    X
CAW      XXXX   X X   X    X    XXXX   X X X  X  XX X X X    X  X  XX X        X         X X   X X  XXXXX X X XX  X  X XXXXX  XXX X
CBM     X    XX        XX         X X  X      X   X    XXX X       X          X          X       XX  X   X          X    X   X
CBN        X         XX   X              X      XX    X     X      XX   X     X         X    X    X X   X          X   X      X
CCB      XXX X X XXX    X XX  X X  XX      X X XXXX  XX       XXX  X     XX  XXX     X XX  X XX    X   XX X      XX   X XXX XXX  XX
CCH     XXXXXXX  X  XXXXXX  XX XXXX XXX XX X   XXXXXXX XXX XXX  XX XXX   X X  X XXXX  XXXXX XXX  X XXXXXXX   XXXXXXXXX  XX   XXX X X
CCW       X                              X       X                X                          XXX                X     X
CD2     X   XXX  X  XX XXXXX XXXXXXXX  X  XX XXXXXX    XXXXX XXXXX XXX  XXX X XXXXX  XXXX  X XXX X  XXXXXXXX X  XX XXX  XX  XXXXXX
CDCB                                       X   XXXX       X  X          X           X       X   X
        ----------------------------------------------------------------------------------------------------------------------------
CDD      X X X XX XX X  X  X  X     X     XX X  XXX  XX    X XXXX  X X XXX   XXX  XX   X    X X  X   XXXXX XX  X XXX    XX XXXX   X
CDF     X   XXXX XXXXX XX  X    X XXXXXXXXXX XXXXXXX   XX       X   X      X X X    XX   XX X XX XXXXXXXXXXXX XX      XX  XXXXX X
CEH     X X XXX  X X  XXX   X     X X     XX          XXX X XX     XX   X   X  X        X         X XX  X   X          X      X X
CEOS     X  X    X      X X  X      X          X     XXX   X     XX X      XX     XX X  X     X    XX  X X      X X X XX X   XX X
CER       X XX          X XX     X  X  X  X     XX X X XX    X X   XX X     XX      X    XXX    X  XX  X    X X    X  X      XX
CEY          X   X       X         X    X  X X   X       XX   XX  X          X  XX X   X              XX            X   X X     X
CFA     XXXXXXXXXXX XXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXX XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
CFI      X X XXXXX X  X XX  X X XXX       X X XXXX  XX    X XXXX  X X XXXX XXXX XXX   X   X XX  XX XXXXXX XX    XXX   XXX XXXXX XXX
CFR     X X  XX     XX XX   X          X       X  X   XXX        X X X X    XX        XXX X       XX  X   XX  X X   XX    XXX XX
CGLM     XXX X XXXXX X  X XX  X X X X        X XXXX  XX    X XXXX  X X XXXX XXXX XXX   X   XXXXX XX XXXXXX XX  X XXX X XXX  XXXX  XX
        ----------------------------------------------------------------------------------------------------------------------------
CHJJ     X  XX  XXXXX XXX   X   X    XXX   XXX  XX                    XXX        X XXXX    XX     X    XX  X  XX XXX  XX
CHTO    XXXXXXXXX XXX XXX X    XXXXXX XXXXX XXXXXXX  XXXXX        X   XXX X X XXXXXXXXXXXXXXXXXX XXXXXXXXXXX XXXXXXXX XX   XXXXXXX
CIA        X         X   X   X      X   X          XX          X          X                XX  XXX  XX
CIN     XXXXXX X   X XX XXXXXXXXXXXXXXX         X XXXXXXX X XXXXX XXXXXXXXXXXXXXXXXXXXX XXXXX X   XXXXXX   XX XXXXX XXXX XXXXXX X
CIT      X XXX X    X XX  X        XX X          XX    XXX X   XX  XXX  X X   X XX   XX X  X X   X XXXX  XX  X  XX XX   XX   X X
CKL       X X XXXXX X  X XX  X   X X     X  X XX    XX    X XXXX  X X  XXX XXXX XXX   X   X XXX XX XXXXXX XX  X XXX X XXX XXXXX  X
CKN      XXX X XXXXX X  X XX  X   X X     X  X X XX  XX    X XXXX  X X X XX XXXX  XX   X   X XXX XX XX XXX XX  X XX  X XX  XXXXX  X
CKT      XXX X XXXXX X  X XX  X   XXX     X  X XXXX  XX    X XXXX  X X XXX  XXXX  XX   X   X XX  XX XXXXXX XX  X XXX   XXX XXXXX  X
CLI     X    XX     XX  X              X       X  X  XX              XXX   X    X      XX                              X        X   XX
CLKR            X                                                        XX       XXX  X   X    X
```

```
      ---------------------------------------------------------------------------------------------------------------------------------
DATE  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |10 |11 |12 |13 |14 |15 |16 |17 |18 |19 |20 |21 |22 |23 |24 |25 |26 |27 |28 |29 |30 |31
      ---------------------------------------------------------------------------------------------------------------------------------
CLL   X X XXXX  X XXXXXX XXX  XXXXXXXXXXXX XXXXXXX  XXXXXXXXXXX  XXXXXXXXXX XXXXXXXXXXXXXXX XX XXXXXXXXXXX XXXX XXXX  XXXXXXXXXX X
CLLP    XX  XXX X XXXXXX              X          X       X            XX        X   X    XX        XX      XXX X X            XX  XX X
CMB              XXX XX    X    X X   X X X  XX   XXXXX XXXXXXX XXX XX   XXX XX XXXX   XXXX X XXX XX X XX XXX XX  X  XXX  XX   XXXXX X
CMCZ  XX XX     X        X      X   X   X     X      X      X          X            X     X      XX    X  XX
CML    X X    X                 X    X          XXX      X X             X                 X        XX                    X X     X
CMP       XX      X  XX  X           X  XX   X  X      X         XXX X  X    XXX          XX        X   XX  X        X  X    XX
CN2     XX XX  X  XXXXXX    X X XX X XX  XX XXXXXXX   XXXXX  XXX  XXX  XXX    X    X   XX XX X X   X XXXXXXXX  X  XX XXX  XX   XX XX
CNB   XX  XXX  XX     XXX    X    XX X X      X    XX  X XX  XXXXXX  XXXX  XX     X X    XX       XXX X XXXX  XX    X  X X    XX  XXX XXX
CNCB  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX     XXXXXXXXXXXXX XXXXXXXXXXX   XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXX
CNPM   XXX X XXXXX X  X XX  X    XXX     XX X XXXX  XX    X XX X  X X XXXX XXXX XXX   X     XXX  XX XXXXXX XX  X XXX   XXX XXXXX XX
      ---------------------------------------------------------------------------------------------------------------------------------
CNZ    XXX            X     XX   XXX       X     X  XX      X     X  X   X X          X                     XXXXX X X  X     X  XXX   XXX
COE   X X       X XXX  X  X        X    X      XX  XX  X XXXX  X   X XX    XX XX XXXX  XX XXX XXX     XXXX  X   X  X  XXX  XX     XX   X
COL      XXX          X                  X         X      X           X           X                      X  XX    X        X
COOL  X    XX     XX XX   X   X    XX      X XX  XX X   X   X X     XX    X       X     X              XX    X        X X     X       XXX
COP        XX        XXXX                X        X     X            X         X     X         X         X    X   X  X  XX   X   X
CP2    XXXXXXXXXXXXX XX XXX X XXXXX  X  X  X XXXX  XXXXXXX XXXX  XXX          X   XX    X    XXXXX XXXXXXXXX XXX X XXXXX XXX XXXXX XXX
CPD     XX  XXX X XXXXXX      X        X              XX          XX        X   X   XX X       XX     XXX X               XX  XX X
CROR    X XXX      XX XX          X    X    X      X X  XXX       X    X X X        XXX                        X    X              X
CRP    XXXXXXXXXXX X XX XX  X X XXX  X  X  X XXXX  XXXXXXXXXXXX  XXX XXXX XXXX XXX  XX   XXXXX XXXXX XXXXXXX XXXXXXX XXX XXXXX XXX
CRQM   X     X    X     X  X  XX    X       X X XXXX  XX    X     X    X X       X X X          X   X XXX XX X             X
      ---------------------------------------------------------------------------------------------------------------------------------
CRX    XX X    X         XX  X              X  X             X X  XX   XX XX   X        X    X   X        XX        X    X  XXX XX    XXX
CRZF      XXX            XX X  X       X                  XX     X      XX             X X           X          XX  X              X    X XX
CSS   X     X     X XX  X  XX          X     X     X                     X  X   XX X X    X   X   X    X XX X    X       X X      X  X
CSY   X XXXXX   XX    XXXX X X XX X XX     XXX   XX XX  XXXXXXX X  XXX X XX  XXXXX    X XXXX XXX XX  XX   XXXXXX    XX XX  X      XXXX
CTA   X   XXXXXXXX XXXXXXXXX  XXXX     XXXXXXX XXXXXXXXXXXXXXXXX XXXXXXXX     XXXX XXXXXX XXX XXXX XX XXXXXXXXXXXXXXX  X        XXX
CTAO      XXX       X XX                         X     X          X            X               X   XX  X
CTB         XX  X   X XX        XX         X        XX      X      XXX    XXX X X XXXXXXX XXXX   X XX  XX XX X X X                    XX
CTGM   X    X X    X     X  X  XX    X       X X X XX  XX    X    X      X    X  XXX X    X       X   X XX   X X             X     XXX XX
CTM                                                                           X  X     X    X    X     X             X                    X
CTT   XXX XX X X  XXX X X  XX  XXX XXX XXX  XX  X  XX  XX  XXXX XX XXX XXX X          XXX XX XXX X XX XXX XX X X
      ---------------------------------------------------------------------------------------------------------------------------------
CUT    XXX X XXXXX X  X XX  X X XXX      X X XXXX  XX    X XXXX  X X X XX XXXX XXX   X    X XX   X XX   XX XX  X   XX    XXX XXXXX  XX
CVA    XXX X XXXXX X  X  X  XX   X       X X XXXX  XX   X     XX  X X X      X X X     X       X  XX XX  XX X            X X XXXXX XX
CVL   X X  X       X   X          X       XX          XXX X  X    XXX   X                   X                       X    X    X X
CVP     XX XXX XX XXXXXXX XXXX     X     X  XXXXXXX XX XX   XX X X XXX XX X X XXXX  XX X  XX XXXXXXXXX XXXXX                        X
CWCR                X                                                          XX      X        X    X    X               X    X
CYA         X   X XXXXXX      XXXXX          X    X X XXX X     XXXX X  X XX      X X       XX  X  X  X X XXX  X  XX  X X X  XX X X
CZD         X         X                                                               X               XX XX   X   XX                  X
DAG      XXXX     XXX  XX X  X     XX  X  XX X XX XX XXXX                     X X XXX X XXXXXX  XX XX XXXX XX XX XXXX XX XXXXXXXXX
DAU   X X XXX  XXXXX XXX XX    XX XXXXX XXXXX  XXX    XXXX  X  X  XXXX XXX                      XXX   XX   X      XXX  XX    XXXXX X
DAV        XX  X      X            X    X       XX    XX  X  X X  XXX         X XXXX XXX X  X XXX X  XX    XX  X    X      XX    XXX  X
      ---------------------------------------------------------------------------------------------------------------------------------
DBO        X       X            X                XX       X            X  X     X                         X
DCN   X  XXXX      X XXX       X     XX     X X XXX   X  X                 X       X           X X    X X X XX  XX X  XX   X   XX XXX
DEV   X    XX                       X          X                              X           X              XX           X   X  X
DFR    XXX X XXXXX X  X   X  X         X  X XXXX  XX    X XXXX  X X XXX  XXXX XXX    X   XXXX  XX XXXXXX XX  X XXX X XXX XXXXX   XX
DHR        X       X  X         X      X     X      X           X    X    X              X         X
DHY    XXX X X XXX X  X XX  X X  XX     X X XXXX  XX      XXXX  X   X  X  XXX X    X   X   X   X X   XX X     XX   XXX
DIW    XXX                X   X X       X   X  XX X X X   X  X   X X        X     X     XX X   X  XXXXX X X  X          XXX    X X X
DIX   X   XXX         X       X      X  X X   X    X                    X    XX X  X    X         X         X  X  XX
DJE     X  X X  X     X       X             X   XX  XX        X               X   X       X   X  X        XX X             X XX    X  X
DL2        XX  X  XX XX  X        X   X     X     X     X     X   XXX               X           X      XX    X    X       X   X
      ---------------------------------------------------------------------------------------------------------------------------------
DLF   XX XXXX      X XXXX      X    XX     X X XXX    X                 XX        X    X X    X X    X X X XX  X  X  XX   X    XX XXX
DMK   X   XX  XXX X X   X  XX     XX  XXX   X  X   X        X    XX X X  XX    X X X  X   XX  XX XX    X   XXX X X XX  X        XX  X
DMN   XXXXXXXX XXXXXXXXXXXXX XXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXX XXXXXXXXX       XXXXXXXXXXXXXXXXXXX
DOT     X  X X X   X    X XX    X         X  XXX  XX       X          X     X       X        X        X  X        X XX  XXX  X
DOU   X X XXX    X X XXXXX X  X     XXXXXXX X X  XX    XX   X  X X   XXX  XXX   X X  X XX X  X XXX   X XX XXXXXX XX   XXX XX  XX XXXX
DPW     X XXX     XX XX  XX   X X X XXX X   X   X     XXX X X XX   X   XX      XXX            X     X X   X   X       X    X     XX
DRV       X X        XXX             X     X   XX     X   X   X     XX  X X       X           X       XX  X              X    XXX
DST                                                                           X XXXXX XX XXXX XX XXX  XXX XXX XX XXXX XXXXXX  XXXXXX
DSZ    XXX             X             X  X  X XX           X                                  XX XX  X   XXXXX X    X XX   X XXX    XXX X
DUG   X X XXX  XXXXX XX  XX     XX X XXX XXXX  XXX    XXXXX XXX   XXX  XXX  X XX X     XXXXXX    XXXX XX   X  X  XXX  XX     XXXX
      ---------------------------------------------------------------------------------------------------------------------------------
DVD   XXXX  X XX  X   X X       X X   X   X XX X   X XXX        X        X    X X X X    X   X       XX   X      X XXX  X       X
DZM   XXXXXXXXXXXXXXXXX XXXX XXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
EAB        X         X               X          X   XX                            X       X      X X     X     X     X       X
EALH       X          X    X                    X   X    X    X              X X        X      X   X   X           X
EAU        X                         X          X   XX                                         X               X     X    X    X
EBAN  X    X  X    X   XX    X       X          X  X        X  X          XXX  X   XXXXX X X   X X XXX   XX   XX X  X     XX
EBG     X XXX                     X  X    X     XXX  XXX X   XX   X X XX       XX                        X   X                  X
EBH                  X               X          X   XX                            X       X      X X     X     X     X    X   XX
EBL                  X               X          X    X                            X       X      X X     X     X          X   XX
EBR        X          X X            X   X      X   XX    X  X  X     X    X  X             X  XX  X
      ---------------------------------------------------------------------------------------------------------------------------------
ECH   X    XX      X  X  X         X    X       X    XX        X   X       X X X    XX   XX   X        X   X   X  X  X   XX   XXXXX X
ECHE                       X         X   X      X    X     X  XX       XX   X  X               X  XX               X      X
ECO   XXXX  X  X  X   X XX   X X X X X                                                XX    XX   X    X  XX  X   XX  X
ECOG  X    X     XX  XXX XXXX          X   X    X    X XX X    X     X  X  X X     XXXXX  X   X X X     XX     X     X     XX
ECRI  X    X       X    X              X   X    X    XX X                     X  X        X       X  XX  X         X            X
EDC   XXX XXX  XX  XXXXXXX XX XXXXXXX X XXXXX XX  XX XXX  XXX XXX XXXXXXXXX XXXXX XX XXX  XX XXX  XXXXXXXXXXXXXXX X XXX   XXX XXX
EDI        X         XX                         X                X              X      XX       X      X                       X
EDU        X         X               X          X   X                                         X X      X     X     X    X    XX
EGD        X     X  XXX X  X    X               X        X X  XX          X     X XX   XX                X       X   X
EGRA       X       XX  X             X  X XX   XX   XX X            XX X X  X      X X X    X X  X              X       X
```

```
      ----------------------------------------------------------------------------------------------------------------------------
DATE  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |10 |11 |12 |13 |14 |15 |16 |17 |18 |19 |20 |21 |22 |23 |24 |25 |26 |27 |28 |29 |30 |31
      ----------------------------------------------------------------------------------------------------------------------------
EGUA  X    X     XX  XXX XXX         X   X  X   X    XXXX X X  X      X     X X  X   XXXXX   X     X X X   XX         X     X
EHOR  XX   X  X  XX   XX XX X   XX   X   X      X   XX  X X                 XXX  X   X X X X       X   X   XX    X X  X   X XX
EHUE  X    X     XX  XX    XX        X      X   X    X    X X  XX     X   X X X      X X X   X     X  XX   X          X     XX
EJIF       X         XXX XX X   X    X   X      XX   X  X   X               X            X X     X X   X   XX    X    X   X
EKA   X X XXX    X XXXX XXX   X    XXXX    XXXX XX  XXX  X X XX    XX  X   XX X XX XX   XX  XX X XXXX XXX XX XXXXXXXX XXXXXX XXX X
ELC   X X X    XXX    XX  X     X    X  XX   X  X   XXXX X X     XXX  XXX  X XX X      X    X    XXX   X      X   XX  X      X
ELIZ  X    X      XX  X              X   X      X    XX X                     X            X       X  X    X          X      X
ELL     XXXXXX        XXXX XXXXX    XX  XXX     XXX  XXX XXX X   XX  X XXXX X  X XXXXX X X
ELO        X                         X          X                                X       X       X X       X     X    X       XX
ELUQ  X   XX      X  XXX XX X            X      X    XX X X X                 X  X   X XXX X X         X   XX    X    X     XX
      ----------------------------------------------------------------------------------------------------------------------------
EMS   X    XX         X       X      X   X X    XX   X                        XX X  X    X         X       X  X  X
EMUT    X XXX      X XX   X     X       X XX X  XXX  XXXX    X    XX   X     XX X      XXXX X    X X   X   X     XX   XX    XX
ENIJ  X    X     X    X    XX                   X    XXX  X    XX     X       X  X     XXX   XX    X   X    X         X     XX
ENN   X   XXX    X   XX  X XX       XX  XX   XX XX   XX XX  X XXXXX   X XXX XXX XX XX X XXXXXX   X XX  X  XX  X  XXX XX  XX XXXX
ENR   X  XXXX  X X  XXX      X    X     X                     XX    XX   X  X XX    X   X  XX X X  X   X XXXXX    X   XX X XXX
EPF   X  XXXX     XX  X  XX     XX   XX XXXX X  XX   X                            X  X XX  X     X XXXX   XX
EPLA   X   X          X     X    X   X   X      X    X                       XX  X     X X       X X       XX    X    X      X
EPRU      XX         XXXXXXX    X    X      X   XX  XX XX   X               X X  X       X X       X   X   XX    X X  X   X  X
ERE   X   XXX        XX  X       X       X     XX    XX           XX    X   XXX          X     X   X  XXX  X  XX XX   X    X X
EROQ       X          X              X   X      XX   XX X   X  XX        XX   X  X                 X  XX   X                 X
      ----------------------------------------------------------------------------------------------------------------------------
ERUA                             X              X    X                        X                    X   X   X     X    X     XX
ESEL       X          X              X          X    X        XXX        X  X X                    X   X              X      X
ESK   X    X            X            X          X    X                        X                    X       X          X
ESY        X         X               X          X                                        X       X X       X     X        X   X
ETER       X       X                 X   X X    XX   XX X                XX X X                    X  X    X
ETOR       X         XX     X        X   X  X   X       X                     X  X               X X  XX   XX    X X  X      X
EVAL   X  XX         XXX XX     XX   X   X      X    X  X   X               XXX  X       X X     X X       XX    X    X   X  X
EVIA  X    X  X      XX     X        X   X  X   X    XX   X X  XX     X  XX X X  X     X X   X   X X  XX   X    XX X  X     XX
EYL     X XXXX  X  XXXXXXXXXX XXXX XXX X XXXXX XXX XX XX   XXX XXX XXX X   X X XX XXXX XX XXX   XX XXX XX   XX X  XXX  X X
EZN   XXXXXXXXXXX XXXXXXXXXXX XXX XXXX XXXXXXXXXXX XX XXX  XX XXX  XXXXXXXXXXXXXXXXXX XXXXXXXXXXX  XXXXXX XXXXXXXX X XXX X XX
      ----------------------------------------------------------------------------------------------------------------------------
FAC    X                      X               XXX       X X            X                                                X X
FAM   X    X          X  X                      X                       X    X   X       X         XX X          X X       X  X
FBA   XXXXXXXXXXXXXXXXXXXXX X XXXXX XXXXXX XXXXXX  XXXXXXX XXXXX XXX XXXXX XXXXXX  XXXXX X XX  X XXXXXXXXX X  XXXXXX XXXXXXXXX XXX
FCC        X          X  X                                  X     X   X X     X X         X X
FCH   XX X X      X  XX     XXXX  X    X XXX                            X    XX                           X        X     XXXX  XX
FEL   X    XX      X XX  X X       XXXX    X    XX   XX       X   X      XX   XX  XXX   XX   X     X   X   X  X  X   XX  XXXXX X
FHC   X X XXX  X   X  X   X     X   X          XXX X  XX X X     XX X  X     XX   X  X X    X    X XX  X         XXX  X      X
FID                                             X  XX    X XXXX  X X X XX  XXX X X  XX     XX  XX XXXXXX X     XXX   XXX XXXXX XXX
FIN   X  XXXX  X X   XX           XX X  XX    X X X  XXX X   XXX X  X    X X XX     X   X  XX X X  X   X XXXXX    X   XX X   X
FIR   X    XX    X   XX              X X  X X   XX   XX       X  XX           X                    X   X   X    XX    X    XXX
      ----------------------------------------------------------------------------------------------------------------------------
FLN   X   XXX    XXX XX  X      XXX XXX XX X X XXX   X                                   X X    XX XX XX X X X
FMW     X XXX     XX XX             X           X X  XXX X   XX   X X X       XX                       X   X  X              X
FNA   XXX XXXXXXX  X XX    X  XXXXXX  XX X   XX XX XXXXXX  XXXXXX    X XX   X   XXXXX  XXXXX  XX   X XX    XX  X XXX XXXX XXXXX XX
FNO                                             X   XX   X X   X   X   X      X        X           X              X          XX
FOO        X     X   XX      X  X          X X  X         X    X            X    X X   X      X    X
FORT  X  X  X  X   XXXX       X  XX        XX  XX    XX   X XX   XXXX  X      XX   XXXX   X X  X XXXXXXX  XXX  X XXXX  X   X  XXX
FRB   X    X       X  XX XX     X   XX   X X    X X  X      X         X       X          XXX     X X       X  X   X   X      X  X
FRF   X   XXXX XXX XXXX    X      X XX XXX  X X X X  X                                  XX X  X X   XXXXXXXX
FRI              X                             XX  X                      XX XX    X    X   X    X X                  XX         X
FRS     X XX            XX               X     XX   X X X   X X   X           XX X       X XX   X  XX  X  X X    X XX XX X   X
      ----------------------------------------------------------------------------------------------------------------------------
FRU   X   XXX      X  X       X  XX XX   X     XX     XXX X   XX  XXX        X XX   XX    X X   X XXXX XXX  X  XX XX   XX   X X X
FSA   X X XXX      XX XX   X    X  X   XXX  X X X   X X X X   XX  X     X     X          XXXXX    XX   XX   XXX X XX X X  XX X X
FUR   X   XXX      X XX  X    X    X X  XX X  X XX   XX  X  X X   X     X   XXX          X         X  XX   X     XX   X  XXXXX X
FVM   X   XXX    XX  XX  XX     X X  X  XX  X   X    XXXX  XX  X  XXX  X   X XX        X   XX    XXXX  XX     X  XXX  X      X X
FYU          X   X    X       X                     X                                XX  X  X         X  X           X  X       X
GAC   X X  XX   X X   X  XX     XXXXXX  XX   X  X    XXX X  X    XXX   XX    XXXXX     X X  X    XXX   XX     X   X   X      XX
GAZ   XXX  XXX XXXXXXXXXXX  X XXX XXX  XX X X XXXXXXXXXXX   X  XXX
GBA   XXXXXXXX X XXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
GBTN    X  X          X   X     X       X       X        X                                       X
GCG    X  X             X X             X                XXX       XX      X       X   X      X                X XX
      ----------------------------------------------------------------------------------------------------------------------------
GDH     X  X         XX              X X XX XX XX   XXXXX  X X X  X   X XX  X  X          X        X   X              X X XX
GEC2  XXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
GHO    XXX X XXXXX X  X XX  X X XXX        X XXXX  XX    X XXXX  X X XXXX XXXX XXX   X   X XX  XX XX XXX X   X XXX   XXX XXXXX XXX
GKN                                                     XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX      XXXXXXXXXXXXXXXXXXXX
GLA     X XXX    XXXX X XXX XXX X   X    X XXXXXXXX   XXX  XX X  XX   XX  X   XXXXX    XX X X X  XX X XX  XXX X XX    XXXX   XXX X
GLB    XXX X X XXX    X XX  XX   XX      X X XXXX  XX   XX  XXX  X X X XX  XXX X     X      X   X XX  XX  X      XX   XXX XXXXX XX
GLD        XX     XX XX  X      X   X X XXXXX   X    XXXXX X      XX   XX    XXXX         XXX   X XX   X   X     XX   X     XXX
GLM    XX  X X XXX    X X   X X          X X XXXX  XX       XX          X  XXX     X XX  X  X         XX X      X    X XXX  XX  X
GMW   X X XXX    XXX XX  XX   X X       X  XXX  X X XXXX XXX X   XXX  XXX    X XX    X X    X    X X   XX  X  XX  X   XX    XX X
GOL   X X  XX   XX X XX  X     XX XXX X                  X X      XXX  XX    XXXX        XXXX    XXXXX X   X     XX   X    XXXXX
      ----------------------------------------------------------------------------------------------------------------------------
GPA   X    X       X XXXXX XX X        X X      X           XX   X             X X XX X        X    X   X  X     X X       XX
GPD     X X           X         X               X        X        XX   X                                              X
GQP    X X XXX X   X  X  XX  XX   X    X   X  XXX XX XX X   X X  XXXX   X  XXX XXXXXX X XX XXX  X X    X                       XX
GRBF       X          X              X          XX   XX X                 XXX X        X X         X     X    X       X
GRF   X X XXXX  XXXX XXX XXX  XXX XXXXXXXXXXXXXXXX   XXXXX  X X  XXXXXXXX X XXXX X XX XX XXX X  XX XXXXX XXXXXX  XXXX XX XXXXXXX
GRG   XXX XXXXXXX  X XXXX XXX XXXXXX  XX X  XXX XX XXXXXX  XXXXXX X  X XX   XX  XXXXX  XXXX   XX   X XXX   XX XXXXXX XXXX XXXXX  X
GRM   X   XX          X XX      X               X   X X     X     XX X     XX X     X    XXX       XX  X  X X    X X  X      XX
GRO   X   XXX X    X XX  X       XX      X     XX    XX          XXX        XXX     X    X     X   X   XX  X      X   X      X
GRR   X   XXXX X XXX XX  X    X XXX XXX XX X XXXXX   X                                   X X    XX XXXXX X X X
GRW             X                                    X              XX      X XX      X       X    XX    X                   XX
```

```
       ----------------------------------------------------------------------------------------------------------------------------
DATE   | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |10 |11 |12 |13 |14 |15 |16 |17 |18 |19 |20 |21 |22 |23 |24 |25 |26 |27 |28 |29 |30 |31
       ----------------------------------------------------------------------------------------------------------------------------
GSC    X X XXX   XXXX XX  XX XXX X X XXX XX XX XXXXX  XXXX  XXXX  XX    XX XX XXXXX XXXXXX XXX X  XXXX XXX XXX XX XXX  XXXX XXXXX X
GTA    X XXXXXX X  XXXXXX XXXXXXXXXXXXX  XX XXXXXXX   XXXXX XXXXX XXX  XXX  XXXXXX  XXXX  X XX  X XXXXXXXXX X XXX XXX  XX  XX XXXX
GUA    XX    X  X X X XXX      XX XXXX     XX   XXX XX XXXXXXXXXX XXX  XXXXX X XXXXXXXXXXX XXX XXXXXXXXXXX  X  XX XXXX XX   XXXXXX
GUAC      XX           X X     X  XX                 XX          X  X             X       X   X   X  X  X          XXX   XX  X
GUD    X    X         XX              X   X      X    XX                       X  X     X X       X X  XX   X    XX    X    XX
GUMO   XX   XX  X X X XXX X    XX XXXXXXXX XX   XXX XXXXXXXXXXXXX XXX  XXXXXXXXXXXXXXXXXXXXXXX  XXXXXXXXXX  X  XXXXXXX XX   XXXXXX
GUN    XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX   XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX      XXXXXXXXXXXXXXXXXXXX
GYA        XXXX X  XX XXXXXX   XX XXX X  XX XXXXXX    XX XX XXXXX XXX  XXX XXX XX   XXXX  X XXXXX  XXXXXXX  X  XX XXX  XX  XXXXX
GZH         XX  X  XX XX           X             X     X     X     XX    X                     X   XX X X   X   X      X    X
GZR    X    XX   X X                X         X  XX    X                                                XX    X   X     XX    X
       ----------------------------------------------------------------------------------------------------------------------------
HAE         XX      X                 X         XX    X                        X                    X       X     X
HAU    X   XXXX XXXXX XX  X    X   XXXXXXXX XXXXXXX   X                              X   XX X XX XXXXXXXXXXXX X
HBZ    XXXX    X     X X  XXX  XXXXXX X    X X  XX XXXXX X  XX X   X X  X    XX X     XX X X   X X XXXXXXXXXX  X  X  X  X XX   XX
HCG         X       X                 X         XX    X                        X                  X X       X     X
HCY    XX   X    X                            X  XX                          XXX                        X X X    X     X    X X X X
HDA     XXX X X XXX    X XX  X X   X      X X XXXX  XX    X  XXX  X      X  XXX X   X XX  X XX   X X   XX X      XX   X XXXXXXX XX
HFS    XXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX   XX     X XXXXXXXXXXX  XXXXXXXXXXXXXXX XXX XXXXXXXXXXXXXXXXXXXXXXXX
HGH         XX                        X         XX    X                        X          X         X       X     X
HHAI   X   XX     XXX  X  X
HHC    X XXXXX  X  XX XXX X XXXXXXXX XX  XX XXXXXXX   XXXXX XXXXX XXX  X X   XXX X  XX      X X X XXXXXXXXX X   X XXX  XX   XXXXXX
       ----------------------------------------------------------------------------------------------------------------------------
HIN     X X X XXXXX    X  X  XX   X         X XXXX  XX    X XXXX  X X X     XXX X     X      X  XX XXX  X X   X XXX   X   XXXXX XX
HJA    XXX XXX XX  XXXXXX  XXXXXXX  XXXXXX XX  XX XX X X X  X X XX XX  X       X X XXX  X X XX X X XXX  X     X XXXX XXXXX   XXXXXX
HKC         XX XXX X                             X    XX           XX    X     X               X   XX X X   X   X    X X    X
HLW        XXX   X    XX  X  XX             XX   X     X X  X      XX X  XX   X   X   XX  X        X    X   X X      X    X X     X
HMR                        X         X          XX  X  XX         XX        X XX       X X   X  X X XX  X   X     XX   XX     X   X
HMT     X X X XX  X    X  X  XX   X       X X  XXX  XX   X    X     X       XXX X     X      X   X XX     X       X     X XXXXX XX
HNR        XXXX X X X  XXXX          X   XX XXXXXX X  XXXXX XX X       XX   X  XX  XXX      X    XX XXXXXXX XXXXX XXX XXXXX  X XX
HOF    X    XX      X  X  XX          X  XX      X    X  X                                    X  X  X  X          XX      X
HOFF   X    XX        XX  X          X      X    X     X           X           X                    X             X    X  XX
HOM     X X X XX  X X  X  X  X   X X     X  X XX X  XX    X XX X  X   XXX   X X  X    X      X  X   XXX X XX  X XXX    X  XXXX   X
       ----------------------------------------------------------------------------------------------------------------------------
HON         XX        XX         X          X          XX X   X    X                       XX       XX  X   X          XX       X
HOOJ   X    XX   X XX  XX X     X  X XX  X   XXX X  X                  XX      X  XX X  X   X          XX   X XX  XXX  XX
HQL         X    X X XX   XX      X XXX     XXX XX   X X XX X       X    X  X X X       X   X         X           X  X   XX  X   X
HRT    X X XXXX X   XX  XXX XXXXXXX XX  XXX  XX XX  XX  X   XXX   X XXX XX  XX    X XX  XXX XX XXX  XXX  XX X    XX X    X  XXX
HRV         XX        XX         X           X         X  X        XX          X            X       XX  X   X          X      X
HTR         XX      X                 X         XX    X                        X          X       X X       X     X
HUR     XXX X X XXX    X XX    X  XX      X X XXXX  XX       XXX      X XX  XXX X     X   X XX   X X   XX X      XX   X X XXXXX XX
HVAR   XX   XX X X X   X            X X       X  XXX          XX    XX     X X X  X                    XXXX XX X XXXXX X
HVD                    X XX                      X   X XX    X X      X      X            XXX    X   X  X  X X      X  X      XX
HVU    X X XXX   XXXX  XX  X    XX X XXX XXXX X XX   X XXXX X     XXX  XXX    XXXX      XXXXXX    XXXX XX   X  X   XX  XX   XXX X
       ----------------------------------------------------------------------------------------------------------------------------
HYA         XX    X XXX  X  X X  X
HYB      X XXXX X XX                            XX XX XXX X XX X  XXX   X   XX XXXX XX XXXXXXXX X  XX XXXXX X XXX XXXX XX XXX XXXX
HYF    X   XXX    X X     X           X   X      X    X                                             X   X   X
IFR    X X XX X   X   XX     X  X     X   X X    X    XX X      X  X           X     X    X X  X   XX       XX  XX            X  X
IGT    XX  XX XXX   X XX    X  X   XX  XX     XX XX  X XX  XXXXX X      XX   X    XXX    XXX         X      XX  X XXX XXX  X  XX XX
IHA    XX  XX      X         X     X                          X    X     X     X          X               X      X  X     X  X  X
IIA        X   X  X    XX  X                  X                X X  X                   X          XXX   X XX   X  X
IIDJ        XX   XXXX XXX   X         X    XXX   X                    XXX         X X  X    X      X    XX  X     XXX  XX
III      X X  XXX X    XXXXXXX X XX       XXX X  X    X   XXXX XXXX XX XX   X X X   X   X  X X X  XXXXXXXX XX   X XXX  XX  XXXXXX
IISM    X  X      X    X X XXX            XX  X  X             X X XX  X  X X  X X      X      X   XXX   X XX   XX XXX     XXXX  X
       ----------------------------------------------------------------------------------------------------------------------------
IIT     X  X   X  X   XXX XXX             XX  X  X
IL1     XXX X X XXX    X XX  X X XXX      X X XXXX  XX      XXXX   X X XX     X X X XXXX  X XX   X X   XX XX  X  X  X X XXXXXX  XX
ILB     XXX X X XXX    X  X  X X   X      X X XXXX  XX      XXXX   X X XX     X X   X XX  X  X   X X   XX XX     XX X X XXXXXXX XX
ILIM    XXX X XXXXX X  X  X  X   XXX     X  X XXXX  XX    X XXXX X X XXXX XX  X  XX   X   XXXX  X   XXX X XX  X XXX   XXX XXXXX  X
ILT         XX      X XX  X        X XX  X  X XXXX    XX  X   XX  XX     X      X   X  X    X   X X X  XXX  X  X  XX   XX   X XXX
IM3     XXX X X X X    X XX  X    XX        X XXXX  XX      XXXX     X   X    X X X X XX  X  X   X     XX XX  X  X  X X XXXXXXX XX
IMA     X   XXX XXXXXXXX XX   XXXXXX  XXXXX X XXXX  XXXXXXX  XXX XXXXXXXXX   XX XX XXXXXX X XX  X XXXXXXXXX X  XXXXXXXXXXX  XXXXXXX
IMI    X  XXXX  X X  XX           XX  X  XX    X X X  XXX X   XXX X X     X  X XX    X   XX XX X X  X   X XXXXX    X   XX X   X
INE     X X X XX  X X  X  X  X   X X     X  X XXXX  XX    X XX X  X X XX   XX X  XX   X    X X  X   X X X XX  X XXX   XXX XXXXX  X
INK    X XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXX X XXXXXX XXXXX XXXX XXXXX XXXXXXXXXX XX XXXXX X XXXXXXXXXXX  XX XXX XXXX  XXXXXX
       ----------------------------------------------------------------------------------------------------------------------------
INW       X                  X   XX              X  XX                 X                     X
IPM               XX XXX    X     XX         X  XX    XXXX XXXX XXXX  XXX    X  X   XX   XX XX X   XX X XX     XX XX   XX  XXXXXX
IRK      X XXX     X XX  X  X  X   X XX   X     XX    XX  X       XX         X X     X    X X   X X XX  XX  X   X  X   X   X X
ISA    X X X                     X X XX   X XX  XXXX XXX XX XXXX XX   XX  XX XXXX   XXXX X XXX X  XXXX XXX XX   X XXX  XX X XXXX X
ISK    X X XX X X   X XXX  XX XXXX XX  XXX    X  X   X XX  XXX  XX   X XXXX X     X XX  X X XX  XX  XX XXX XX    XX XX     XXX
ISR          X  X XX XX           XX  X   X   X  X   X X  X       X X   X    XXX  X XX                              XX XXX XX X X
ITU    X                XX                       X     X         XX   X                            XX   X                   X
IVA    XX   X    X     X                      X  XX                          XXX                        X X X    X     X    X X X X
IXG     X  X   X  X    XX  XX  X      XX X XX X  X X X   XXX       XX   X X X    X  X   XX  X  X X        X      X XX
IZI      X              X    X    X     X X      X   X        X   X XXX XXX XXXXXXXXXX  XXX XX  X   XX XXX XX               X X
       ----------------------------------------------------------------------------------------------------------------------------
IZM    XXXXXXXX XXX XX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  XXX XXXXXXXXXXXXXXXXXXXXXXX XXXXX XXXX XX  XXXXXXXX XXXXXX XXXXXXXX
JACH   XX X X      X XX     XXXX   X    X XXX                            X    XX  X X      XX     XX    X XX      X XX  X XXXX XX
JAQ    X X  X    X XX X  XX    X X    X   X X X  X X  XX XX       XXX   XX     XX  X     X XX X    XXX  XX      X   X   X     X  X
JAY                                                                                    X      XX  XXXX        XX  X
JBO        XX     XX XX          X   X   X       X    XXX      X   X X X      XXX                       X   X  X              X
JCW      X XXX    XX XX          X   X   X       X    XXX X    X   X X XX      XX                       X   X  X              X X
JEGM         X    X                  X          XX  X             X                  X   X   X    X XX      X
JHA                    X                  X                        X           X                   XX   X   XX
JMB                    X                      X        X  X       X   X         X       X           X       X               X
JMI        X                    XX          X                 X             X          X     X         X              X  X
```

```
DATE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |10 |11 |12 |13 |14 |15 |16 |17 |18 |19 |20 |21 |22 |23 |24 |25 |26 |27 |28 |29 |30 |31
JNE      X                   XXX         X    X      X  X  X         X   X X X      X     X         X             X  X
JNW      X                   XXX         X    X      X  X  X         X   X X X      X     X         X             X  X
JRDJ      X    X     X                  X     X                      XX   X X X   XXX X     X XX  X             X           X
JSC  X X X    XX   X X  XX    X        XXXX X  X    XX  X XX                      X    X                  X   X      X
KAF  XX XXXXXXX       X X  XX X XX XX XXXXX XX XXX XXX XX XXX   XXX  XXX  XXX X   XXXX  X        XX XXXXX X XXX XXX  XX XXXXX XXX
KAGJ      XXX  XXXX XXX X X   X X  X  XX XXX  X   X X                XX    X  XX XX X   XX      X    X   X XX  X X  X        X
KAKJ      XX    X X XXX            XX     XXX XX                   XX        XXX  X    X      X   XXX     X  XXX  X
KAS  X   XXX     X  XX XX           XX  X   X  X   X X X   X X  XXX X  XX  XX      XX  XX       X X  XXXX XX X XX    X    XX  X
KBA  X X XXX   X  X XX XXXX  X XXXXXX  XXXXXXX XX  XXXXXX  XXX XXX  XX XX  XXX X   X XX X      XX X  XXX  XX XX XXXX XXXXXX X   X
KBN  XX   X         X       XX     XXX     X  XX   XX     X  XX      XX   X    XX                  XX   XX  XX    XX       X XX
KBS  XX   X        X X                        X     X                            X            X   X
KDC   X X XXX  XX X  X  X  X  X XX  X  XX X  X X   X XXXX XXX   XX   XXX    X X    XX    XX   X   XXX XXXXX   XXXXX XXX
KDS                                            X       XX XXX          XXX XX          X     XX X XX X      XX X X
KDZ                                             X  X          X      XX        X                    X     X
KEK  XX  XX  X            X        X XX     X              X X      X XX   X X  X     XX            X  XX  X   X   X XXX     XX XX
KER     XXXXXX X     X  X        X  XXX     X  X    X      X   X     X  X XX      XXX  X     XX  X   X  X XX       X      X  X
KGM                X XXX   X    XX         X  XX     XX X X      XX   XX     X         X         XX   XX  X   X XX   XX    XX XX
KGT                XXX      X  XXXXXX  X X X X XX XXX XXX  XX XXXX XXX XXXXXX             XX  X   X X X
KHC  XXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXX  XXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX X    XXXXX X XXXXXXXX X
KHKI         XX X X X     X XX X XXXX             X X                                  X                        XX X
KHL  X  XXXXX      X XXXXXX XXX X  XX   X   XX XXX  XXX XXX X    X XX XXXX X XX XX  XXX X          XX XX  X X   X  X XX   XXXX  X
KHT   X   XXX X XX   XX X  XX   XXX                                                X  XX  XX  XX    XX          XX      XX X X X  XX
KHZ                                                                                  X XX  X XXXXXXX XXXXX XX
KIC  XXX XXX XX XXX XX   X   XXXXXX X   XX XX XXXX XXXXXXXXXXXX XXX X  XXXXXXXX   XXXXXXX X      XXXXXXXXXXX XXXXXXX XXX  X XXXXX
KIS  X    XX        X                 XX      X    XX                    X           X         X       X      X   X    XXX
KIW  XXXX      X   X    X    XXXX   X X X  X  XX   X X       X   X X         X    X    XX X   X X  XXXXX X X XX X   X XXXXX  XXX X
KKB                 X X                 X      XX  X          X      XX X X    X          X       X     X         X
KKM                 X    X      X            X     X       X   XX   X           XX      X  XX X  X XX  X   X XXX  X      X XX
KKN  XXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX
```

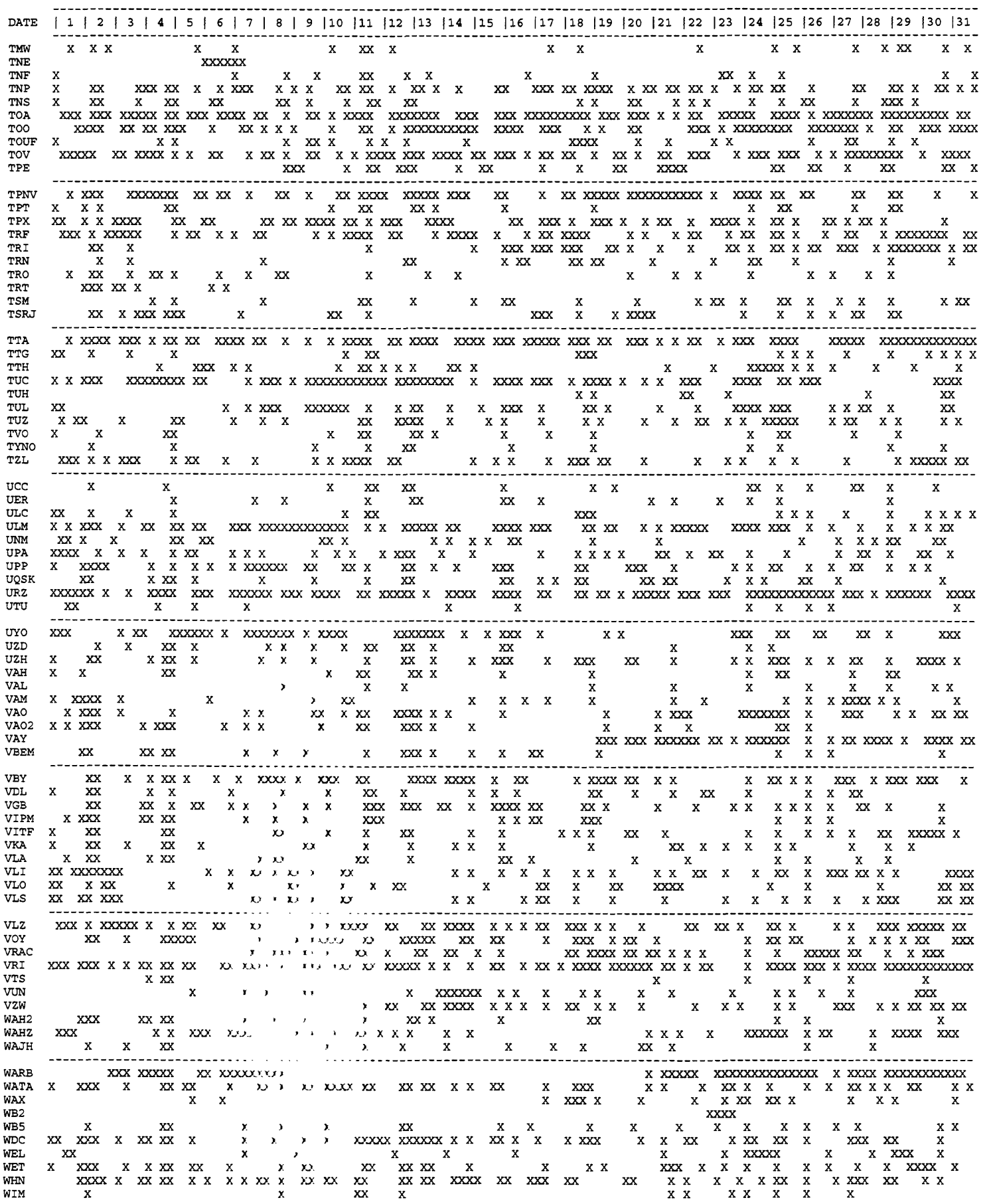
```
      ----------------------------------------------------------------------------------------------------------------------------
DATE  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |10 |11 |12 |13 |14 |15 |16 |17 |18 |19 |20 |21 |22 |23 |24 |25 |26 |27 |28 |29 |30 |31
      ----------------------------------------------------------------------------------------------------------------------------
LMR   X   XXXX XXX XXXX    X      X XX XXX  X X X X  X                                   XX X  X X  X XXX XXX
LMZ   XX XX          X                              XXXX       X XXX X  XX     X              X        XX         X            X
LNOR       X       X XX             X   X       X X   X            X X X      XX                       X   X
LNV   XX X X      X  XX     XXXX  X    X XXX                            X    XX  X X      XX     XX    X XX      X XX  X XXXX  XX
LOE     X  XX  X  XX XX           XX  X XX   X XX     X XX             X            XX    X   XX  XX  XXX  X       X      XX X XX
LOF     X  XX   X X X XX   X    X   XXX         X X     X   X               X      XX              X       X  X    X
LOMF  X    XX      X XX  X          XX     X    XX   XX        X   X      X X X    XX   XX    X    X   X   X  X  X   XX  XXXXX X
LON       XXX    XXX XX  XX   XXX   X   XX   X  XXX XXXXXX X   X   XXX XX    XXXX      X    X    X X   X   X  X   XX  XX    XX
LOR   X   XXXX XXXXX XX  X    X  XX XXXXXXXXXXXXXX   X                             XX   XX X XXXXX XXXXXXXXX X
LPA       XX                                    X     XX           X          X            X       X   X
      ----------------------------------------------------------------------------------------------------------------------------
LPAZ  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX    XXXX    XXXXXXXXXXX X XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXX XXXXXXXXX
LPB   XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXX
LPF   X   XXXX X XXX XX  X    X X X XXX XX X XXXXX   X                                   X X    XX XXXXX X X X
LPG   X   XXXXXXXXXXXXX  X    XXXXX XXXXXXXXXXXXXX   X                            X X X XX X XXXXXXXXXXX   X X
LPL   X   XXXXXXXXXXXXX  X    XXXXX XXXXXXXXXXXXXX   X                            X X X XX X XXXXXXXXXXX   X X
LPO   X  XXXXX X XXX  X  XX     X   XX  XXX     XX   X                                   X X    XX XXXXX  XX
LPR     XX  XXX X XXXXXX     X       X         X      X           XX       X  X   XX X        X    XXX X X            XX  X  X
LRCZ  XX  X    X      XX      X  XX  X    X     X    X X          X X          X     X      XX    X  XX
LRG   X   XXX  XXX XXXX    X      X XX XXX    X X X  X                                  X  X  X X  XXXXX XXX
LRM   XXXXXXXX XXXXXXXXX XX    XX XXXXXXXXXXXXXXXXX XXXXXX XXXX  XXXX XXX  X XXXX XX  XXX XXX    X X  XX X X  X  XXX  XX   XXXXX
      ----------------------------------------------------------------------------------------------------------------------------
LSA   X   XXXX X  XX XXXXX X XX XXX  X XXX XXXXXX    XXXXX XXXX  XXX  XXX X XXXXX  XX X  X XXX X  XXXXXXXX X  XX  XX  XX   X XXXX
LSCT    X  XX        XX         X           X         XX X   X    XX   X      X                  X XX  X   X          X      X X
LSCZ  XX XX    X       X      X  XX  X               X X          X X          X     X      XX    X  XX  X
LSD   X   XXX  X     XX           X  X  XX    X X X  XX  X    XX     X   X  X XX  X XX  XX    XX   X   X  XXXX    X   X  X
LSF   X   XXXX X XXX  X  X      XX  XX  XXXX XX XX   X                                     X     XXXXXXX   X
LSK   XX                                        XX    X     X   X      XX   X    XX    XXXX            X   XX  XX    XX      X  XX
LST                   X   X                     X     X    X                  X        X           X                  X      X
LSZ   X X XXXXX   XX XX                                                             X    XXXX    X X   X   X        X XX   X XX
LTI                                                  XX      XX      X  XX  XXXX XX    X    XXX  XX XX XXX XX    XXX   XXX  XXX  XX
LTX   X X XXXX  XXXX XXX XX    XX XXXXX XXXXXXXXXXX XXXXXXXX X    XXX XXX  X XXX  X X  X  XXX    XXXX X  X    X  XXX  X    XX XXX
      ----------------------------------------------------------------------------------------------------------------------------
LTZ   XXXX           X X X    X XXX XXXX X  X  XX   XX X   X  X  XXXX   X    X X     X  X XXXX XX  XXXXXXXXXX X XX  XXXXXX X XXX X
LVVM      X      X        XXX            XXX X  X   X    XXX  X X  XX X         X                 XXX     X    XX XXX
LZH   XXXXXXXXXX  XX XXXXXXXX XXXXXXXXXXXXXXXXXXXXX  XXXXX XXXXXXXXX XXXXXXXXXXXX XXXXXXXX XXX X XXXXXXXXXXXXXXX XXX  XXXXXXXXXXXX
MAF   X  XXXXXX  XXX XX  X    X XX  XXXXXX X XX XX   X                                  XX X XX    XXXXX  XX
MAHZ    XX               X      X           X  X    X X    XX X                           X         XXXX X X XX     X    XX   XX
MAIO  XXX XXXXXXX XX XXXXXXX XXXXXXXXXXXXXXXXX XX XXXXXX XXXXXX  XXX XXXXXX XXXXX  XXXXXXX XXX X  XXXXXXXX X XXX XXXXXXXXXXXXXXX
MAJO       XX      X XX              X          X     X           X           X                   XX   X   X          X      X
MAMG                                         X  X       X        X          XX      X    X       X   X                    XX    X
MAP    XX  XX  XX     X      X  X X    XXXXXXXX X     X  X  X X  XXX XX  X XXX   XXXXX  X  X XXXX XX X X X                      XX
MASJ       X    X                          X    X                       XX   X   X    X  X       XX  X                   X
      ----------------------------------------------------------------------------------------------------------------------------
MAT   XXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX            XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXX
MAW     X XXXXXX  XXXXXXXXXX  X X XX X  X  XX XXX X  XXXXXX XXXX  X   XX    XXXX  X X  X  XX  XXX XX   XX  X  X XX   XXX  X XXXX
MBC   X    X      X  XX         X    X     XX                     X           X     X     X  XXXXXXXXXXXXX XXXXX  XX  XX X X XXX
MBL    X   XX XXXX XXXX         XXX  XX    XX  XX   X X  XX XX   X XX  X XXX XX                           XX  XX XXX  XX  X XXXXX
MBO        X          X        X                X     X           X           X X          X       X   X                     X
MCK    XXX X X XXX    X XX    X  X       X X XXXX  XX       XX   X      X  XXX X     X   X  X     X   XX X      X    X XXXXXXX  XX
MCNL                                                                                          X    X    XX X XX  X XXX    X  XXXX   X
MCP         XXX X XX XX      X       X               XX           XX       X  X              XX    XXX X
MCQ                                          XX X     XX          X   X          X                    XX    X                 X
MCSM             X                                                        XX       X X  X   X    X         X           X
      ----------------------------------------------------------------------------------------------------------------------------
MCW       XXX        XX   X     X X X    X   X  X X  XXX X X  X   X   X       X             X    X X   XX  X   X  X   X    XXX
MDG         XX  XXX X    X       X        X  X XXX    XXXXXXXXXXXXX XXX XXXXXXXX  XXXXXX XXXXXX XXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXX
MDJ     XX XX  X  XX XX    X X X  XXXX  X  XXXXXX    XX XX  XXX  XXX  XXX    XX X  XX      XX  X XXX X XXX X  X  XXX  XX   XXX XX
MDM    XXX X X XXX    X XX    X  X       X X XXXX  XX       XX          X  XXX     X XX  X  X     X   XX X      X    X XXX  XX  XX
MDRJ       X    X                        X XX   X                            X X X   XXX         X
MDZ   XX  X X     X             X               X     X  X        X     X     X            X       XX  XX     X X  X      XXX X  X
MEEK       XX XX X XX X   X  XX   X X X  X XX  XX    XX     X XX XXXX XX                               X   X   X XXX  XX  X  XXXX
MEM        X          X    XX  X    XX          XX   XX  X  X   XX            X    XX              X    X     X  X
MEMM    X XX     XXX      X   X X   XX  X   XX XX  X XXX   X   X        X XX XXX   XXXX X XXX  X XXXX XXX XX     XX   XX   X X   X
MEO     X X   XX X    XX XXX X XX        XXXXX XX   XX   XXXXXX  XXXX  XX    X  X   X  X    X X XXXXX  XX  XXXX XXXX  X     XXXX
      ----------------------------------------------------------------------------------------------------------------------------
MFF   X  XXXXX X  XX  X  X    X X   XX  XXXX XX XX   X                                 X X X     XXXXXXX  XX X
MFT   XXX XX  XX   XXXXXXX XX XXXXXXX  XXXX XX XXX  X XX   XX X XX X X XXXX  X         X X XXX XX XXXX XXXXXXXXX      X
MGP         XXX X XXXXX      X       X                X           XX       X  X   XX X       XX    XXX X X            XX  XX X
MGR        X    X     X              X               X                        X                                       X          X
MHC       X      XX  XX             X          XX  X XXXXXX   X  XX       XX XXX   XX   X  XX    X XX  X  X      XX   XX     X
MHZ    X XX    X      XX      X  X   X    X          X X          X X          X     X      XX    X  XX
MIAR    X XXX  X XX  XXX  X    XX X XXX XXXXXX XX                 XXX  X   X XX           XX       XX  X   X          X      XXXX
MID    X   X X        X  X  X            X X    X   X   X          X       X   X                X  X   X X             X X X X XX
MIN   X   X       XX            X              XX     XXX     X   X    X     XXX           XX    X X   X         XXX  XX
MJMA      XX       X XX          X        X     X    XX           X      X   X           X      XXXX X    XX   X
      ----------------------------------------------------------------------------------------------------------------------------
MKS                   X   XX    X X        X        X X                X       X  XXXX                     X XX       XX
MLR   XXXXXXX XXX X  X  X       XXXXXXX XX  XXX XXXXXXXX X XX XXXXXXXX XXXXXXXXXXX XXXXXXX XXXXXX XXXXXXX  XX XXXXXXX XXXXXXXXXXXX
MLY     X  X X XXX    X       X  XX      X X XXXX  XX       XX          X          X XX  X XX         XX X      XX   X XXX   X   X
MMB                X  X X                    X       XX  X       X          XX X       X           X       X     X         X
MMCZ  X  XX                   X  XX                  X            X                  X       X    X   X
MMK   X   XXX      X  X       X      X     X    XX   X                        XX X  X    X         X       X  X  XX
MMPM  X   X      XXX      X X X X   XX      XX XX  X XXX        X X    XX XX XXXX  XXXX  X   X X XXXX XX  XX     XX   XX     X   X
MNDI        X   X  XX X X  X        X        X  X     XXXXXXXXXXXXX XX  XX XXXX X  XX   X XXX   X  XXX XXXXXXXXXXXXXX XXX   XX XXX
MNG   XXXXX  XX X   XXX  X    XXXXX  XXX X  X  XX X XXX X  XX X  XX X  X    XX    X X XXX XXX X X XXXXXXXXXXXXX XXX X XXXXX  XXXXX
MNHM             X                                                        XX  X    XX   X   X    X                               X
```

```
      ----------------------------------------------------------------------------------------------------------------------------
DATE  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |10 |11 |12 |13 |14 |15 |16 |17 |18 |19 |20 |21 |22 |23 |24 |25 |26 |27 |28 |29 |30 |31
      ----------------------------------------------------------------------------------------------------------------------------
MNI                   X    X XXX X                                     X X               X        XXXX       X         X X  XX
MNK   X X XXX         X  X          XX   X      X     X            X    X   X            X         X   X   X      X   X    X X
MNS        X    X     X              X               X        X               X                    X                  X          X
MOCB  XXXXX      XXXXXX                                                                           XXXXXXXXXXXXXXX XXXXXX   XXXXXX
MOF   X    XX      X  X  X          XX     X    XX   XX       X   X       X X X    XX   X    X     X   X   X  X  X   XX  XXXXX X
MOL        XX    X XXXX X       X    X     X   XX       X X  X X    X       XX   X XX X     X   X  X       X  X X  X  XXX    X
MOR8    X  XX      XX XX        XX   X          X           X   X           X      XX       X                      X
MORO   X  X    X      X    X  X   X           X     XXX   XX    XXXX      XX  X XX   X       X         X        X X X X  X   XX
MOS   X   XXX X    X XX  X    X  XX X   XX      X    XX          X X        X      XX    X         X   XX  X   X  X   X    X X
MOTA  X   XXX   X    XX XX    X   XX X   X X XX XX   XX  X  X X  XX     X   XXX     X X XX      XX X  XXX  X  X  XXXX X  XXXX
      ----------------------------------------------------------------------------------------------------------------------------
MOX   X X XXX   X                  XXX XXXX XXX XX   XX XX  X X  XXXX XXXX  XXXX X  X XX XX XX  XX XX XXXX X  X  XXX  X XXXXXXXX X
MOZ   XXXX          X  X X    X X    X X X  X  XX X X X    XX X   X X   X               X    X  X  XXXXX X X XX  X  X  XXX   XXX
MPA    XXX X XXXXX X  X XX  X   XXX     XX X XXXX  XX    X XXXX  X X XXXX XXXX XXX   X   X XX  XX XXXXXX XX  X XXX   XX  XXXXX XX
MQZ    XXX          X XX      X X X  X X    X  XX X XXXX   X  X  XX X        X       X  X    X  X XXXXXX X    X XX  XX XXXX  X   X
MRA   XX     XXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX XXX  XXXXXXXXXXXXXXXX X XXXXXXXXXXXXXXXXXXXXXXX XX XXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX
MRCM             XX  X    X   X     XX      XX XX     XX       X          XX XX    XXXX X   X    X X  X   XX     XX   XX     X   X
MRRJ  X    XX   X XX  XX X     X    XX        XXX                     XX      X   X X                 XX      X  XXX  XX
MRW   XXXX    X X   X  X X    XXX  X X X X  X  XX X X X    XX X  XXXX        X    X X   X X     X  XXXXXXX X XX  X  X XXXXX  XXX X
MRWA  XXX  XX XXXX XXXX X XX XX  XXX     X XX XXX X  XX   XXXX   XXXX  X   X  XX    XX   XXXXX X XXX   XX  X   X X X  XX  X  XX X
MRX    X  X   X  X    XX  XX          X X XX X  X        X X  XXX  XX XX   X  X X  X   X  XX      XXX     XX   X  XX  XX    XX
      ----------------------------------------------------------------------------------------------------------------------------
MSCZ   X  X            X             X    X     X     XX          X X          X            XX    X  XX  X
MSU   X X XXX  XXXXXXXX  XX   XXX X XXXXXXXX X XXXX  XX XXXXXXX  XXX  XXX  X XXXX  X   XXXXXX  X XXXX XXX XXX XX XXX  XX   XXXXX X
MSZ    X  X    X       X      X   X  X    X    XX   XXXX        X X    X             X   X  XX  X XXXXXXX       XX   X X         X
MTA   X    XX      X XX          XX  X   X      X    XXX         XXX        X X                    X    X
MTD        X      X                      X      X   X X                                X X         XX     X        X
MTHF       X          X              X     X    XX    X                     X X                    X
MTMJ       XX   XXXX XXX   X              XXX  XX                     XXX        X XX X    XX     X    XX  X  X  XXX  XX
MTN   XXXXXXXXXXXX XXXXXXXXXXXXXXXXX  XXXXXXXXXXXXXX XXXXXXXXXXX XXX  XXXX XXXXXX                    XXX  XX  XX XXX  XXXXXXXXXXX
MTU                                           X   X    X    X    X XX    XXX XXX   X      X   X  X             X       XXXXX XX
MTUM  X    X     XXX  X   X X X     X   X  XXX XXX X XXX       X  X    XX XX XXX   XXXX X X X X  XXXX XX  XX     XX   XX     X   X
      ----------------------------------------------------------------------------------------------------------------------------
MTUR  X                                  X   X  XX    X          X X        XXX  X                                    X    X X  X
MTW   XXX X   X X   X         XXXX   X X X  X  X  X X X    X  X   X X        X          X X   X X  XXXXX X X XX     X  XXX   XXX X
MUD   X    XX      X XX  X         X X          X    XX       X             X X          X       X X       X  X  XX   X     XXX
MUN       XX   X   XXXX    XXXX X X        XX  XX X  XX   X XX XXX     X   X  XX    X     XXX    XXX   XX  X   X X X  XXX    XXXX
MVIF  X             X X              X  XX      X X          X    X        X X          X     X            X    XX    XX X
MYNC    X XX   X X   XX   X     X X      X  XX  X    XXXXX XX     XXX  XX  X  X X      X  XX     X X   X   X      X   XX   X X XX
MZX       X            X      X                 XX                                     X           X  X                      X   X
NAI       XX   X  XXXXX    X                       X XX        X  XX      X X X         X  X           X   X                 X
NANU  XX   XX X    XXXX   XX XX X X   XX XXXX XXX X   X   X XXX  XXXX  XXXX   XXX  XXXX XXXXXX X XXXXXXXX X    X X
NAO        XX         X          X   X        X X    X  X                   X                      X  X    X  X   X   XX
      ----------------------------------------------------------------------------------------------------------------------------
NAV       X               X     X X     XX  XX  X     XX   XX     XX                   X         X                X   X    X X
NB2   XXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXX XXXXX XXXX  XXXXXXXXXXXXXXXXX XXXX XXXXXXX XXXXXXX XXXX XXXXX X XXX XXXXXXX   XXXXXXX
NCG    XXX X XXXXX X  X XX  X X XXX      X X XXXX  XX    X XXXX  X X XXXX XXXX XXX   X   XXXXX XX XXXXXX XX    XXX X XXX XXXXX  XX
NCT    XXX X XXXXX X  X  X  X            X X XXXX  XX    X XXXX  X X XXX  XXXX  XX   X   XXXXX XX  XXX X XX  X XXX X XXX XXXXX  X
NDI   X X XXX  XX XX  XXXX X   XXXX  XX  X XXXXXX XXXXXXXX X XXX XXX X X  XXX XXXX XXX    XXX  X  XXXXXXXX X X XXX   XXX X   XXXX
NEA    XX  X X XXX    X XX    X          X X XXXX  XX       XX          X   XX     X XX  X  X         XX X      X    X XXX  XX  XX
NEW   X X XXX    XXX XX  X    XXX   XX XX  XXXXXX     XXXX X X   XXX  XXX    XX X      X   XX    X XX XXXX X      X   XX   X
NGZ   XXXX          X    XX   XXX    X X X  X  XX X X X    X  X   X X        X            X        XXXXXXX X  X     X  X X   XXX
NIIJ       XX    X X XXX   X   X    XX    XXX  XX                     XXX        X XX X    X      X   XXX     X  XXX  XX
NIL                                                                               X     X     X        X    X  X   X  X   X        X
      ----------------------------------------------------------------------------------------------------------------------------
NJ2     XXXXX     XX XX  XX  XXX  XXXX   X XX  XX    XX XX XXXXX  XX   XX   XX  X   X    X X   X  XXXXXXX  X  XX XXX  XX   XXX X
NKA    XXX X XX XX X        X   XXX     X  X XXXX  XX    X XXXX  X X X  X XX X  XX   X     XX  XX  X X X X   X XXX   XXX XXXXX  X
NKY   X         X     X                                                     XXX                        X X X    X     X    X X X X
NNA    XXXXX XX  XXX  X XXXX  X X XXX XX   XXX XX    XXX          XXXX    X X X    XX  XXXXXX XX  XX   XXX XX XXX  X  XX    X
NNL                                                                                         X  XX  XXX X XX    XX     X  X      X
NNT   XX  XXXX    XX X    X    X X          XX  X     X XX             XX X X      XXX      XX    XX                X          X X
NOZ   XXXX X  X     X X  XXX  XXXXXXXX X X XX  XX XXXXX X  XX X  XX X  X    XX XX    XXX  XXX X X XXXXXXXXXX XX  X  X XXXX    XXX
NPS   X  XXXX  X           X             X   XX               X   X  X  X     X  X       X   X      X  XX  X  X XX X   X       X
NRA0  XXX  XX X  X  XXXXX  XXX XX  XXX X        X    XX X X XX XX  XX       X   XX X   XX  XX     XX  X    XX XXX  XX XXX    X
NRE0  X    X         XX                              X            X                 X     X        X       XX         X
      ----------------------------------------------------------------------------------------------------------------------------
NRI       XXX X    X XX  X    X  XX X   XX     XX    XX       X  XXX  XXX   X XX   XX    X X   X X XX      X  XX  X   XX   X X
NRZ    XXX                             X            X X             X                           X     XX      X        XX    X
NSD   X X X          XX     XX     X   X             X     XX   X   X  XXX  X   X                 X         X
NSS        X       X  X X       X                               X           X       X              X  X X          X
NST     X  XXX X  XX XX   XXX     XX X  XX XXX XX X  XXX X             X  X XXXXXX XXXXX XXXXXXX  XXXXXXXX X  XX XXXX XX X XXXXXXX
NTYM           X XXX  X             X          XX  X  XX   X     XX    X   X XX        XX  XX    X XX XX   X     XXX  XX     X   X
NUR   X  XXXXX X       X X       XXXXXXXXXX  XX XX  XXX XX XXX   XXX  XXX  XXX     XXX   X        XX XXXXX X XXX X  X X  XXX X XXX
NVL               XX XX X XX   XX XX XX  X XXXXXX X  XXXXXXXXXXXXXXX  X   XX XXX XX XX XXXXXXX   X XX  XXX X
NWAO       X   X    XXX    XXX    X      X XX   X X  XX   X X    X     X   X  XX    XX    X X  X XXX   XX  X   X X X   X     XX XX
OBN   X XXXXX XXXXXXXXX  XX  XXXXXX XX  XXXXXX XX    XXXXX XXX X XXX XXXX XXXXX XX XXXXXXX XX  X X X  XXXX X X    XXXXXXX  XXXX X
      ----------------------------------------------------------------------------------------------------------------------------
OCO                                             X    X   X X       X   X      X        X         X X          X       X   X  XX
ODD1       X     X      X                       X           X               X    X XX   X          X        X      X    X
ODZ    XXXX    X       X      X X X  X X  X X  XX   XX X        X X X        X X     X   X  XX  X X XXXX X    X XX  XX XX    X X X
OFUJ  X    XX  XXXXXXXX X      X  X XX     X   XXX                    XX      X XX XXX            X       X   XX XXX  X
OGA   X   XXX   X  X  X  X X  X      X XXX XXXX XX   XX  X  X X  X  X   X   X X     X   XX         X  XX   X  X  XX X X  XXX   X
OHR   XXXXXXXX  X XX XX X  X  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  XXXXXXX XX  XX XXXXXXXXXXXXXX XXXXXXXXXXXXX
OJC   X X XXX      X XX  X    X    XXX XXX      XX  XXX XX  X    XX         XXX X     XX X   XX X  X  XXX  X XX XXX  XX XX XXX X
OLLA   XX X    X     XX X  X  X   X XX        X     XXXX  X     X XX      XX  X  X  X   XX  XX     XX  X        XXXXX XXXX  XX
OPT    X X X XX  X X  X  X  X   X X     XX X XXXX   X    X XXXX  X X XX   XX X  XX   X    XXX  X   XXX X XX  X XXX    XX XXXXX  X
ORI        X    X     X              X               X                        X                                       X          X
```

```
        ------------------------------------------------------------------------------------------------------------------------------
DATE    | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |10 |11 |12 |13 |14 |15 |16 |17 |18 |19 |20 |21 |22 |23 |24 |25 |26 |27 |28 |29 |30 |31
        ------------------------------------------------------------------------------------------------------------------------------
ORV     X X XXX  X XXX XX  XX     X XXX X    XX  XXXXX XXXXXXXX XX XX X XX  XX XXXXX X XXXX  XX  X X XX XXX XX     XXX  XX    XX   X
OSS     X   XXX      X  X       X      X   X X    XX   X        X  X  X         X  X  X    X         X       X  X  XX
OUK         X   X     X   X             X   X                          X           X     X            XX   XX  XXX
OUR     XXX XXX XXX  XX XXX XXX X  XXX   X X  XXX XX XXXXX          X  X X       XXXXX  XXXXXXXXX X XXX X   X XXXXX   XX X XX X   X
OUZ     XX X          X XX XX      X   X          X   X X    XXX   XX         XX X                          X     X     X  X   XX
OXF       X X  X  X      X  X     X X  X  XX   X  X     X  X X      XX   X     XX     X  X    X    X X   X      X   XX  X    X X
OXX     XXX XXXXXX X   XXXXXXXX X    X  X XXXX XX X XXXX  XXXX  X XX XX XXXX X XXXX XX   XX  X  XXX XXX   X XX   XXXXXX      XXXX X
PAE     X             XX                     X   XX     XX X  X   X     X     X     X                    X   XX       X    XX
PAF         XXX       XX X           X           X     X     X     XX       X  X            XX      XX  X X  X  X      X     XXX
PAHZ     XXX           X  XX   XXXX   X      X  XX X X X    XX X                      X   X   X    XXXXX X X XX     X  X XX   XX
        ------------------------------------------------------------------------------------------------------------------------------
PAIG    XXX XXX XXX  XXXXXX XXX XX XX   X      X  X          X   X  X  X XX   XX X XXX    XXXXXXXX X XXX     X  XX  XX XXXX  X X   X
PAL       X            X                              XX  X        XX                X              X X              X      X
PATZ     XX          X    X      X      X                    X      X X                      X XXX X X  X     X         X
PAX     XXX X X XXX    X XX    X  XX       X X XXXX  XX       XXX  X       X  XXX X     X   X XX   X X   X  X   XX   X XXXXXXX  X
PCC             X    X                        XX  X           X        X        X           X  X    X          XX
PCG       X      X      X X                     X        X X       X                                X
PCH     XX X X      X  XX     XXXX  X    X XXX                          X    XX  X X       X     XX    X XX      X XX  X XXXX  XX
PCI     X           X        X XXXXXX           XXX X
PCP     X  XXXX  X X   XX           XX X  XX    X X X  XXX     XXX X  X    X  X XX    X X XX XXXX X  X   X XXXXX    X   XX X
PCT        X         X                     X     XX X
        ------------------------------------------------------------------------------------------------------------------------------
PDB      X X X XXX X X  X  X  X     X     X  X XX X   X    X XXXX  X X XX    X X  X    X   XXXX  X   XXX X XX  X XXX   XXX XXXX   X
PDRM                                                                          XX  X    X X  X   X    X           X
PEC     X X XX   X XXXXXXX  X XXX X   XX  XX XXXXXX     X      XX  XXX  XX  XX XXXXX XX  XX XXX X  XXXX XXX XXX  X XX   XXXX  XXXX X
PEL     XXXXXX      XX XX     XXXXX X    X XXX                        X    XX  X X      XXX  X XXXX  X XX    XXXXXX  X XXXX  XX
PET        X       X XX             XX         X     XX          XX  XXX          X      X       X   X      X       X      X
PGB                    X                  X          X           X      XX X X                X       X              X
PGF     X   XXX  XXX    X          XX  X XX  XX   XX   X                XXX         XX    X X  XX  X   X          X  X
PGP     XX X X XXX  XXX X   XX   X XX    X  XXX X XXXXX XX   XX X XXXXX X XXX XXXXX  X XX                                      XX
PGZ     XXXXX         XXX       XXX    X X X  X  XX X X X X  XX X  XXXX  X     X          X X    XX  XXXXXXX X  X  X  X  X XX  XXX
PHAM                                                                   X                  X    XXX  XX  XX     XX   XX     X   X
        ------------------------------------------------------------------------------------------------------------------------------
PHP     XX   X XX       X       X X   X       X  XX
PIP     X  XXXX  X XXX   XX  XX   XX X X XXX XX XXX  X X  X XXXX X   X X XXXX XXX  XXX X  XXX XXXXX  X XXXXX                  XXX
PJG     XX         X X X  XX X X  XX XXXXXXXX XX   XXX XXXXXXXXX  X XXX  XXXXXXXXXXXXXX XXX XXX XXXXXXXXXX XX  XXX XXX XX   X XXXX
PKEM          X                 X          X       X                 XX XX     X X X   X    X     X   X          X        X
PKI       X          XXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXX XXXXXXXXXX     XXX XXXXXXXXXXXXXXX
PLAT      X         XX           X              X  XXX    X              X X                X       X        X
PLD                   X                    X          X       X   X      X X X     X               X              X
PLE     XX   X    X     X                    X  XX                      XXX                    X X X    X     X    X X X X
PLM     X X XXX     XXX X XXX XXX X X XX  XXXXXXXXXX  XXX X X XX  XXXX XXX X  XXX X X X  X XXX X  X XX XX  XXX    XXX  XXXX XXXX  X
PLP      XX  XX XXX XXXXX XXX  XX X X    XXXXXX XXXXX X X XX  XXX  XXXX  XXXXXXX XXXXXXXX X  XXXXXX XXXXXXXX                    XX
        ------------------------------------------------------------------------------------------------------------------------------
PLRM     XXX X XXXXX X  X XX  X   XXX     XX X XXXX  XX      XXXX  X X  XXX XXXX XXX   X     XX  XX XX  XX XX  X  XX   XXX X
PMG     X    XXX  XX XXXXXXXXX          X XXXX X XX     XXXXXXXXXXXXXXXX     XXXXXXXXXXXXXXXXX XXXXXXXX XXXXXXXXXXXXXXXX XXXXXXXX
PMO     X   X X       XX                    X   XX     XX X        X            X                X   XX        X    XX
PMR      XXXXXXXXXXXXX XX XXX XXXXXXX  XX XX X XXXX  XXXXXXX XXXX  XXXXXX XX XXX XX  XXX   XXXX   XXXXXXXXXX X   XXXXX XXXXXXXXXXXXX
PMS      XXX X XXXXX X  X XX  X XXXXX     X  X XXXX  XX X  X XXXX  X X XXXX XXXX XXX   X X XXXX  X  XXX XX XX    XXX   XXX XXXXX  XX
PNP                                                                          X      XX X       XX    XXX X X            XX  XX X
POF      X  X                                 XX   X X           XX X                    XX       X   X  X                X
POO     XXX XXX  X XXXXXXXXXXX XXXXXXX XX XX XX  XX X XXXXXX XXXXXXXXXXXXX   XXXXXXXXXX XXXXXXXX X   XX XXXX X  XXXXXXX XXX XXX
PORP     X   XXX X XXXXXX     X       X         X     XX           XX       X  X      X
PPCY    X    X    X     X  XX          X         X                      X    X X X       X   X     XX X    X     X X       X  X
        ------------------------------------------------------------------------------------------------------------------------------
PPD     X X XXX  X  XX XX   X   X X XXXX    X X  XX    XXXXXXX XXX XXX   X   XXXXXX  XXX X XXXX     XXXXXXXX X  XXX XX  XX     X XX
PPM     XXX XXXXXX XXXXXXX XXXX XXX XX  X XXXX XXXX X XXX XXXXX XXXX XX XXXX XXXX X XX   XXXXXX XXX XXXXXX  XXX X  XXXX XX   XXXX
PPN     X     X        XX                    X   XX     XX         X                      X   XX        X
PPR        XX                                  X     X      XX   X               X              X                          XX
PPT     X     X        XX                    X   XX     XX    X     X                X                  X   XX        X    XX     XX
PRK     X   XXX X X                          X                X     X                        X     X   X   X
PRM     X X X    X  X   X  XX     X        XXX        XX  X XX                        X  X    X                    X   X      X  X
PRP      X  X X             X X          X X     XX                                   X        XX X           X XXX  XX  X
PRS            X            X            XX                              XX XX    XX       X    X X      X            X          X
PRU     XXXXXXX   XXXXXXXXXXXXX XX XXXXXXXXXXXXXXXXX XXXXXXX XXXX  XXXX XXXX  XXXXXX XXXXXXXXXXXXXXXXXXXXXXX X    XXXX  X XXXXXXXX
        ------------------------------------------------------------------------------------------------------------------------------
PRY      X      X  X X XXXX      X              X    X                                                        X  XX
PSZ     XXX          X XX XX X  X X XXXXX XX   XX XX  XXXXXX  X    XX     X X XXX X     X  X X   X X X   XX  X  X XXX   X   XXXX
PTE      XXX X X  XX                      X X                                                          X              X  X
PTI     X   XXX     XX  X          X   X X XXXX    X    XX X                                                          X    XX
PTJ     XXX  XX    X  X XX  X  X X X  XXX XX   XXX X    XX X X  XXX XXX         XXX  X         X     X X  XX X XX X XX    XXX XXX    X
PTT        XX      X XX         X            X                                                  X   X   X X    X
PUZ     XXXXXX  X X  XXXX  XXX  XXXXXX XXX XXXX  XX XXXXX X  XX X  XX X  X    XX XX   XXXXX  XX X X XXXXXXXXXX XX XX  X  X XX   XXXX
PV08    X X XXX    XXX XXX  X    XX X XX  XXXX X XXX  XXXXXXXX  X   XXX XXX  X XXXX X    XXXXXX  X XXXX XX      X  XXX  XX   XXXXX
PV09    X   XXX   XXXXXXXX  X    X  X X X XXXXXX XXXXX XXXXX XX      XXX  XXX      XXXX X    X XX X    XXXX  X   X  X  XXX  XX   XXXX
PV10    X X XXX  XXXXXXXXX XX    XX X XXXXXXXX XXXXXX XXXXXXXX XX   XXX XXX  X XXXX XX   XXXXXX  X XXXXXXX   XX X  XXX  XX   XXXXX
        ------------------------------------------------------------------------------------------------------------------------------
PVC        X   X  X   XX    X  X      X X   X    X  XX XXX  X   XX X X XXX  X              X  X X X   XXXXX      XXX   X  X X XX
PVL                X  X XX                 X       XX  X       X X X      XX   X     X           X       X   X
PVY     XX   X    X     X                  X  XX                      XXX                    X X X    X     X    X X X X
PWA      XXX X XXXXX X  X XX  X X XXX     XX X XXXX  XX    X XXXX  XXX XXXX XXXX XXX  XX   X XX  X  XXX XX XX  XXXXX   XXXXXXXXX  XX
PWL       X X XXXXX X  X XX  X X XXX     XX X XXXX  XX    X XXXX  X X XXXX XXXX XXX   X   XXXX  XX XXXX X XX  X XXX   XXX XXXXX XXX
PWLA                                                                  XX   X     XX        X    X    XXX   X
PYA     X   XXX X    X XX  X       XX  X  XX     XX     XX      X   XXX    X   X X          X         X  XXX  X   X  X   X    X X
PZZ     X  XXXX  X X  XXX      X    X  X  XX     X X X  XXX X   XXX X  XX   XX X XX  X X    XX XX XXX  X   X XXXXX    X   XX X XXX
QASM      XX       X XX  X       X       X      X     XX          X      X  XX        X XX      X  X X    XX   X            X
QCP            X      X          X           XXX X   X           XX    X  X X XXXX         XX         X   X              X
```

```
      ----------------------------------------------------------------------------------------------------------------------------
DATE  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |10 |11 |12 |13 |14 |15 |16 |17 |18 |19 |20 |21 |22 |23 |24 |25 |26 |27 |28 |29 |30 |31
      ----------------------------------------------------------------------------------------------------------------------------
QIS     X  XX  XXXXX  XX  XX XX   XX   X  XXX  XX    XXXXX XX X  X     X X X  XXX   XXX XX  X  X  XXXXXXXXXX          XX     XXXX
QIZ        XX  X  XX  X           X      X      X     X  X XX XX  XX   XX   X               XXXX  XX XXXX  X  XX XXX  XX   X X
QRZ   XXXX           XX  X    X XXX XXXX XX X  XX   XXXX      X  XX X  XX    X       X  X XXXX  X XXXXXX XXXX X XX  X XXXXX  XXX X
QUE                                                                               XXXX XXX         XXXXXX  X     XX  XXXXX XXXXXX
QVP               X X X                                           XX    X   X   X  X     X     X  X    X
QZH        XX     XX  X           X             X     X        X  XX    X       X              X  XX X X   X   X      X
RAB        XXXX XX    X X  XXXX  XX X    XXX   XX   X       XX    X   X XX X  XX X  X   X  X X XXXX XX XX X   XX   X   X    XX XXX
RAGM   X X   X  XX    X  X  XX               X XX  XX   X    X   X   X     XXX X     X      X   X XX     X           X X X XXX XX
RAR         X        XX                         X     X           X     X     X                    X   XX
RDO   X   XXX X X                            X                X      X  X   X    X       X          X      X   X      X          X
      ----------------------------------------------------------------------------------------------------------------------------
RDT    X X X XXXXX X  X XX  X   XXX     X  X XXXX  XX    X XXX     X  XXX    X XXX   X     XX  X  XXXX X XX  X
RDW    XXX X XXXXX X    XX  X   XXX     X  X XX X  XX    X XXXX  X X XXX  XXXX  XX   X   XXXX  X   XXXXX XX    XXX X XXX XXXXX  X
RED    X X   XXX X X  X  X  X   XXX     X  X XXXX  XX    X XX X  X X XX    X X  XX   X   XXXXX XX  XXX X XX  X XXX X XXX XXXXX  X
REF    XXX X XXXXX X  X XX  X   XXX     X  X XXXX  XX    X XXXX  X        XX X  XX   X   XXXX  XX XXXX X XX  X XXX X XXX XXXXX  X
RES     X XX      XX  X  X     XX X XX XXXXX X  X X XXXXXX XXXX  XXXX XXX   XXX X XXX XXXX  XX X XXX  XX X XX XX XX   X    X  X
RFA     XXX  XXX                             X XXX  XXXXXXX XXX XXXX X  X  XXXX XX  X X XXXXXX XX XXXX XXXXX XXXXXXX XX XXXXXX X X
RIV                                        X    X    XX     X     XX   XX      X                X  X             X    X     X
RIY   XX    X   X     X           X    X     X  X            XX XX               X                    XX         X    X X   X    X
RJF   X  XXXXX   XXX  X  XX          X   XX      XX   X                                   X X  X  X XX X    X
RKG        X   X   X  X     XX X  X      X      X X   X           X    X       X            X      X   X         X     X      X X
      ----------------------------------------------------------------------------------------------------------------------------
RMW   X X XXX X   XX XX  X    XXXXXXXXX X XX    X X  XXX XXX XXX XX   XXX    XXX           XX    X X  XXX  X   X  XX  XX    XXXX
RND    XXX X X XXX X  X XX  X X  XX      X X XXXX  XX    X  XXX      X XX  XXX X     X   X  X   X X   XX X      X    X XXXXXXX  XX
RNO     X XXX     XX  X                        XXX   X X X        X X  X     X                             X  X              X
ROB   X  XXXX  X X  XXX           XX X  XX    X X X  XXX X   XXX X  X    X  X XX    X   X  XX X X  X   X XXXXX    X   XX X   X
ROCH  XX X X      X  XX     XXXX  X    X XXX                            X    XX  X X      XX     XX    X XX      X XX X  XXXX  XX
RRL   X   XXX  X X   XX      X    X  X  XX    X X X  XX  X    XX     X   XX X XX  X X   XX XX XXX  X     XXXXX    X   XX X
RS2    X X X XXXXX X  X XX  X   X X     XX X XX X  XX    X XX X  X X XXXX XXXX  XX   X   XXXX  X   XXX X XX  X XXX X XXX XXXXX  X
RSL        X          X                  X      X    X                   X                                 X  X   X
RSNY  X X XXX         X   X     X    X          X    XX  X       XXX   X      X X      X         XXX   X   X      X   X
RSO    X X X X   X X        X     X     X  X XX X  XX    X  X X  X X XX    X X  X          XX  X     X X XX  X XX  X  XX XXXX   X
      ----------------------------------------------------------------------------------------------------------------------------
RSP   X   XXX  X X   XX      X    X  X  XX    X X X  XX  X   XXX X   X   XX X XX  X X   XX X  XXX  X   X  XXXX    X   X  X   X
RSSD  X X XXXX XXXXX XXX XX   XXX XXXXXXXXXXXXXXX   XXXXXX XX X  XXX         XXXX      X  XXX    XXX XXX   X  X  X X  X    XX X
RSTA    X XXXX  X  X XX      X  X      X  X X   X    XXXXX X  X   XX   X   X  XXX   XX X   X   X  XXX  X   X      XX   X     X
RTCB  XXXXXXXXXXXXXXXXX XXX  XXXX X XX XXXXXXXXXXX  XX  XXXXXXXXXXXX XXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
RTCV    XXX     XXXXXX  X XX XXXXXX XX X X X X XXXXXX XXXXXX XXXXXXX X XXXXXXXXX     XXXXXX XX XX XX XX XXXXXXXXXXXXXXXX XXXXXXXX
RTLL      XXX XXX   XXX XXXX XXXX X XXXXXXXXXXXXXXX   XXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
RTPR    XXXXXXXXX XXXXXXXX XXXXXX X XXXXXXXXXXXXXXX X X XXXX X XXXXX X  XX XXXXXXX XXXX XXX XXXXXXXXXX X X X XXXXX XXX X  XX  XX X
RTRS    XXX     XXXX X  X XXXXXXXX  XX   X X X XXXXXXXXXXXXXXXXXX  X  XXXXX  XXXXX XXXXX XXXXXXXXX XXXXXXXXXXXXXX    XXX  XX XXX
RUP                      X XX       X            X   XX             X         X    XX X XX   X             X
RUV   X   X X        XX                    X   XX     XX X        X           X                    X   XX        X    XX
      ----------------------------------------------------------------------------------------------------------------------------
RYD        X       X XX          X       X      X    XX           X    X X  X            X     XXX X       X   X             X
RZN                X XX XX                   X       XX  X       X X X      XX X X    X            X       X     X         X
SALF       X          X              X     X         XX X               X XXX X          X         X
SALJ       X    X     X                         X                       X    X   X    X  X X   X X
SAN   XXX XX      XX  X     X            XX                             X    XX           XX      X     X          X     XXXX  XX
SAO   X    XX    X X XX  XX         X      XX  XX  X XXX  X   XX XX     X XX XXX   XX X X  XX    XXXX  X  XX     XX   XX    XX X X
SAOF  X             X X              X  XX X    X X  XX      X    X        XXXX         X              X   X    XX    XX X
SAPN                                                                    XX  X XXXXXXX X X XXX  XXXXXXX    XXX
SAW       XXX     XX XX         X   X   X       X X  XX  X   XX   X X  X      XX                       X   X  X              X X
SBA         X        XX       X X XX       X X XX     X  X  X     X          XXX  X    XX XX       XX  XX        XX X XX    XXX
      ----------------------------------------------------------------------------------------------------------------------------
SBCZ  XX XX    X       X      X  XX  X    X           XX          X            X     X      XX    X XX  X
SBF   X   XXX  XXX XXXX    X      X XX XXX XX X X X  XX           X           X         XX X  X X  X XXXXXXX          X
SCM    XXX X XXXXX X  X XX  X X XXX      X X XXXX  XX      XXXX  X X X XX XXXX XXX   X     XX   X XX  XX X   X XXX   XXX XXXXX XXX
SCX   XXX X   XXXXXX XXXX XXX XX  XX  X X XX X    XXX   XXXX       XX  XXX X   XX XX   XX  X  XXXX X XXXX    XX X XX X
SDA   XX   X X  X  X  X        X X   X       X  XX    X          X     XX  XX             X    X       X   X    X     X        X X
SDCA              X                    X                  X           XX           X                XX                    X     X
SDF   X   XXX            X       XX XX X        X       XX         X    X   X            X         X  X    X  X   X
SDG    XXX X X XXX    X XX X  X  XX      X X XXXX  XX       XXX    X    X   XX X     X   X XX   X X   X  X      XX   X X XXXXX  X
SDI        X    X     X              X               X        X               X                    X                  X          X
SDN       XXX  XX XX XXX       X      X X  X    X     XXXX X X    X     X      X                  XX   XXX    X X X   XX   X   X
      ----------------------------------------------------------------------------------------------------------------------------
SDV   XXXXXXXXXXXXXXXXX X XX    X XXXX  XXX X X XXXX XXX XXXX XXXXXXXX XX XX  XX XXXX  XX  XXX X X XXX XXX XX X X XXXXXX XXX XX X
SEK   XXX XX XXXX X X XXXXX X  XXX X XX XX  XX XXXXXX XXX XXXXXXXXXXXXX X   X XXXX XX XXXXXXX XXXX XX  XX X XXXXXXXXX XXXXX XXXXX
SEW    XXX X XXXXX X  X  X  X   XXX     XX X XXXX  XX    X XXXX  X X XX   XXXX XX    X    X X  XX XXXX X XX  X XXX   XXX XXXXX XX
SGAM   X X X XX XX    X XX  XX           X   XXXX  XX   X  X X     X X     XXX X X   X      X  XX XX    X       X      X XXXXX XX
SGO        X    X     X              X               X                        X                                       X          X
SGS       X           X  X              XX            X  X X      XX   X              X                           X   X
SHI   XX  XXXX  XX XXXXX XX  X   XX    XXX X   XXXX  XXX X  XX  XXXX   XXXX XXX          X X  X   X XX XX  X   X  XX  XX X X X  XX
SHK        XX      X XX                         X     X           X                               X    X              X     X
SHL   X X X    X  XX XX X     X  XXX X XXXXXX X   X  XX                                        X  X       X X                 XXX
SHNJ       XX    X X XXX       X    X   X  XX  X                       XX      XX  X  X                XX  X      XX  X
      ----------------------------------------------------------------------------------------------------------------------------
SHW     X XXX      X XX         X   X      X    X X  XX X X  X    X   X      XXXX           X   X X   X   X  X        X     XX
SHWJ       X    X                           X   X                    X   X   X        X      X X XX  X
SIM   X    XX        XX                         X     X            X                     X         X       X          X    X
SIT        XXX     X XX  X    X  X       X X    X     XXX        XXX                               XX  X X X     X    X
SIV   XXXXXXX     XXXXXXX
SIZ   XX  X                   X   X  X          X     X         X            X      X        X    X   X         XX             X
SJG      X  XXX X XXXXX     X  X     X               XX           XX      X  X   X  X       XX    XX  X X                 X  X
SKO   XXX XXXXX X  X XXXXXXXX XXXX X XXX XXX X XXXXXXXXX X XXXXXX XX XXXX  XXXXX XXXXXXXXXXXX  X   XXXXXX XX  XXXXXXXXX X XXXXX  X
SKR        X                        XX  X    XX X                 X   XX                                      X   X   X
SKT    XXX X XXXXX X  X XX  X X XXX     XX X XXXX  XX    X XXXX      XXXX XXXX XXX   X   X XX  XX XXXXXX XX  X XXX   XXX XXXXX XX
```

```
        ----------------------------------------------------------------------------------------------------------------------------
DATE    | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |10 |11 |12 |13 |14 |15 |16 |17 |18 |19 |20 |21 |22 |23 |24 |25 |26 |27 |28 |29 |30 |31
        ----------------------------------------------------------------------------------------------------------------------------
SLA           XX X XX XXXX   XXXXXX  X   XXX XX XXXXX  XXXXXX  XXX  XX XXX      X    X   X XXXXX    XXX XXXX   XXXX X  XX X    XXX X
SLB             X                 X  X     X         XX           X        X  X                    X         X
SLE   X   XXX      X  X  X    X    X X     X    XX   X        X            X   X     X    X   XX    X       X     X
SLKI               X X   XXXX  X            X    X            XX   XX   X                    X   XX       XXXXX  XX X X X X
SLKM   XXXXXXXXXXXXX XX XXX X   XXX  X  XX X XXXX  XXXXXXXXXXXX  XXX XXXX XXXX XXX XXX   XXXXX XXXXXXXXXXXXX X XXXXX XXX XXXXX XXX
SLL       X                               X         XX   XX        X X X              X              X
SLM       XX        XX                            XX          X                                X   X              X
SLR   XXX XXXXXXX X XXXXXXX X   XXXX XXXXXX XX XXXXXX XXX XXX XXXXXXXXX X XXXXXXXX XX  XXXXXX XXXX XX  XXXXXXXXXXXXXX XXXXX XXXXX
SMF   X   XXXXXXXXXX XX  X    X XX  XXXXXXXXXXXXXX   X                          XX X XX X XXXXX XXXXXXXXX
SML    XXX X XXXXX X  X XX  X X XXX      X X XXXX  XX    X XXXX  X X X XX XXXX XXX   X   X XX  XX XX XXX XX  X XXX   XXX XXXXX XXX
        ----------------------------------------------------------------------------------------------------------------------------
SMY       XX     XX XX        X XX   X X       X     X           X    XX     X                    XX  X   X          X
SNA       X        XX         X  XX        X  X X  XX     X     X          XXX X     X  XXX          X        XX  XX
SNF   X   XX        XX   X        XX  XX X X  XX   XX        X   XX   XXX  X X  X  X    X       X XX XX XXX  X  XXX  X  XX XXXX
SNG       XX  X  XX XX                  X  XX X   X             XX   X XX    X      XXX X  XX   XX  X  XX XXX       X X
SNY     X XX  X  XXXXX  X X XXXX X XX     XX XXX    XX XX   XX  XXX    X   XX XX  XX X  X     X  XX XXX   X   X XX   XX   X XXXX
SNZO    X XX        XX           X         X     X           X                      X     X  XX X           X    XX
SOB1  X   XX     XXX  X         X   X       XX  X    XXX X X  XX  XX  X X     XXXX  X  X XXX     XXX   XX       X X   X   X XXX  X
SOC       XXX      X XX                 X     X    XX      X    X        X            X       X X   XX  X
SOH   XXX XXXXXXX  XX XXX XXX XXXXXX  X  X  XXX XX XXXXXX XXXXXXX X  X XXX  XX X XXXX  XXXXXXXXX X XXX X   X XXXXXXX XXXX XXXX  XX
SOP   X     X   X    XX  XX                    X     X    X               X X          X                    X
        ----------------------------------------------------------------------------------------------------------------------------
SPA   X XX            XXX       XX XXXX    XX  XX X   XXXXXXXXX  XXXX XXX  X XXX X  XX X XXXX  XXXXXXX XX     X  XXXX XX  X XXXX
SPC   X    X       X XX  XX   X    XXX  XX X XX X      X X     X  XX     X      X   X  X X  XX X X X   XXX X  X XXX   X     XXXX
SPU    XXX X XXXXX X  X XX  X   XXX     XX X XXXX   XX    X XXXX  X X  XXX XXXX  XX   X   XXXXX XX XX  XX XX  X XXX X  XX XXXXX  X
SQTA  X   XXX   X    XX XX    X   XX X   X XXXX XX   XX XX  X X  XX  XX X   XXX       X XX   X   X XX XXX  X  X  XX X X  XXX   X X
SRFA  XX   X    X  X XX  XXXXX   X XXX X   XXX XX   X X XX         X  X XX X X X XX    X   X XX  XX  X       X X X  X X XX  X   X
SRN   XX   X  X      X       X      XXX      X  X   X X        X      XX   X          XXXX          X     XX  X     XX      XX XX
SRO   X   XXX   X  X XX   X          X  XX   XX XX   XXX X  X    XX X  XX X XXX X  XX X  X     X X XX XX   X  X  XX   X   XXXXXX X
SRS   XXX XXXXXXX  X  XXX XXX  XXXXX  X  X  XXX XX XXXXXX    XX X X  X XXX  XX XXXXXX  XXXXXXXXX X XXX X   X XXXXXXX XXXX XXX    X
SRU   X X XXX   X XXXXX  XX    XX X X X XXXX X XXXX  XX X  X XX  XXX  XXX    XXXX X    XXXXXX    XXXX XXX  X  X  XXX  XX   XXXXX
SSB       X                           X X    X    X                  X    X                    XX  X       X   X
        ----------------------------------------------------------------------------------------------------------------------------
SSE    X  XXXX    XX XX  XXXXXXXXXXXXXXXXXXXXX XX XXXXXXXX XXXXX XXXX X X   XXXXX XXX X  X XXXXX  XXXXXXXX X   X XXX  XX   X XXXX
SSF   X   XXXX XXXXX XX  X    X XXX XXX XXXX XXXXX   X                          XX   XX X XXXXX XXXXXXX X X
SSK   X    X      XXX    X  XXX X   XX  XX X  XXXXX  XXX    X X   XX   XX  XX XX  X XX X X X X X  X XX XX  XX      X   XXXX   X   X
SSOR    X XXX     XX XX         X   X   X      XXXX  XXX X        X X XX     XXX                    X   X  X              X
STAN  X               X                       XX  X XX           X           X     X      X     X X   X  X      XX   X      X
STCO      X           X                 X     X    X            X           X                  X                X      X
STK   X XXXXXXXXXXXXXXX XXXX XXXX X XXXX  XXX  XXXXXXXXXXXXXXXXXXXXXXXXX  XXXXXXX XXXXXXXXXXX X XXXXXXXXXXXX XXXXXXX XX XXXXXXXXX
STS       X                    X             X    X                       X                  X       X          X     X
STV   X   XX   X X  XXX      X    X     XX      X X          XXX    X    X  X XX    X   X  XX X X  X   X XXXXX    X   XX X XXX
STW       XX         X        X      X      X X  XX  X    X   X X          X                        X   X                X
        ----------------------------------------------------------------------------------------------------------------------------
SUA    XXX X XXXXX X  X XX  X   XXX     X  X XXXX  XX                    X XXX   X   X XX  XX XX XXX XX  X  XX   XXX XXXXX  XX
SUE              XXX                X     X         X X  XX               X                                          X
SUR    X XX      X  XX XX      X  X     X     XX X XXXX   XX X   XX X       XX  X XX  X XXXX   X  XX  X XX   X  X X XXX X   XX
SVA            X       X         X      X    XX    X     XXX    X   X     XX     X   X       X     X X   X   X          X XX
SVB           X                    X     X          XX           X          X                  XX          X       X
SVE   X X XXX X    X XX  X    X XXX XX         XX    XXX X   X   XXX        X X    XX X  X X   X X XX XXX  X  XX  X   X    XXX
SVW    X XXXXXXX XXX XX  XX X X XXX  X  X  X XXXX  XXXXXXX XXXX  XXX XXXXX XXXXXXX  XX   XXXX  X XXX XXXXXXX XXXXXX  XXX XXXXXXXX
SWI                      XXXX X X          XX                            XX                    XX X    XXXX X X              XXX
SWZ                                                                                                  X  XX  XX   XX  XXX X
SYI                                                                                   X X  X   XXX X XX  X XXX   XX  XXXX   X
        ----------------------------------------------------------------------------------------------------------------------------
SZP   X X  X  XX  X    X          XXXXXXXXX XXX XX XXX  XXXX XXX XXX X  XX
TAB   X XXXXXX    X XXX          XX  X  XX XX   X X XXXX X   X  XXX          XXX X X  XXX X X       X   X X X XXXXXX   X   XXXX  XX
TACH  XX X X      X  XX     XXXX  X    X XXX                      X    XX  X X       X     XX    X XX      X XX  X XXXX  XX
TAF   X    X     X    X              X                X        XX          X       X       X      X X X
TATO      XX        XX                          X     X          X
TAZ    XX          X    X      X        X           XX    X      X X                                XXX X X  X     X          X
TBH        X                                      XX           X XX      X XX      X            XX    X            X      XX
TBR    X      X  X   X         X X XX              X   X X      XX   X                          X                    X X
TCA   XXXXXXXXXXX XXXXXX                                        XXXXXX XX XXXXXXXX XXXXXXX XXX XXXXXXXXXXXXX XXXXXXXXX
TCE                              X                  X            X XX      X XX      X       X     X    X                    X
        ----------------------------------------------------------------------------------------------------------------------------
TCF   X  XXXXXX  XXX XX  X    X XX  XX  XX X XX XX   X                          XX    X X  X  XXXX XX X X
TCW    XXX      X   X  X X    XXXX   X X X  X  XX X X X    X  X   X X        X    X    XX       X  XXXXX X X XX  X  X  XXX   X X X
TEH        X  X   X      X     X          X     X             X        X             X             X        X
TEHZ   XXX          X    XX   XXXX   X   X  X  XX X X X    XX X                    X X X   X    XXXXX X X  X     X  X X   XXX
TGL    X      X X X    X  X  XX   X      X X XXXX  XX   X     X    X  XXX X           X   X XX  XX X          X X  XX X XX
TGY       X   X  X              X  XXX        X     X    X XXX XXXX   X   X   X  X  X  XXXXX X       X
THE   XXX XX XXXX  XXXX    XX    XXX  X  X   X  XX   X X     X  X X  X XX   X    XX    X XXX XXX   XXX X   X XXXX XX  XXX XX X   X
THY    XX  X X  X     X X     X           X   XX  X          X                    X      X         X  X          X X     X  X
THZ   XXXX          XXX X    X XXX XXXX XX X  XX X XXXX   X  X  XXXX  XX    X X     X  X XXXX XX  XXXXXXXX X X XX  XXXXXXXX XXX X
TIA    X XXX  X  XX XX     XXXXXXXXXX     XX   XX   XX XX XXXXX  XX  XXX  XX X X   X    X X X X  XXXXXXX  X  XX  XX  XX   X X
        ----------------------------------------------------------------------------------------------------------------------------
TIC   X X XXX  X  XX X         X XXX XX  X   X  XXX XXXXXXXXXX XXXX X   XXXXXXX   XXXXX XXXX     XX XXXXXXXX XXXXXXX XXX XX XXXXX
TIK       XX      X XX        X  XX XX  XX X   XX    XXX X   X   XXX  XX     X XX   XX    X X   X X XX  XX  X  XX XX   XX   XXXXXX
TIO   XXX XXX  XX   XXX  XXXX XX     X XXXX X  XX  XXXX    XXX  X XXX
TIR   XX   X XX X  X  X       XX X   XXX     X  XX  XXX     X  XX       X  XX    XX    XXXX    X      X    X    X    XX      X X X
TIY   X XXXXXX X  XX XXX X XXXXX XXXXX  XX XXXXXXX   XXXXX XXXXX XXX  X X  XXXX X  XXXXX X XXX X XXXXXXXX  X  XX XXX  XX  XXXXXXX
TKSJ      XX    XXX XX        XXX  X   X  XX   X                    XXX   XX X X XXXX    X      X    XXX X  XX XXX  XX
TLC    X  X    X       X      X   X  X    X         X X          X X          X     X      XX    X   X  X
TLE                  X       XXXX           XXXX XXX                  XXX        X XX  XX        XXX     X   XXX  X
TLG      XXX                                                        XX        X
TMA   X    XX      X  X       X      X     X    XX   X        X  X  X         XX X  X    X    X    X       X  X  XX
```


DATE
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
TMW
TNE
TNF
TNP
TNS
TOA
TOO
TOUF
TOV
TPE
TPNV
TPT
TPX
TRF
TRI
TRN
TRO
TRT
TSM
TSRJ
TTA
TTG
TTH
TUC
TUH
TUL
TUZ
TVO
TYNO
TZL
UCC
UER
ULC
ULM
UNM
UPA
UPP
UQSK
URZ
UTU
UYO
UZD
UZH
VAH
VAL
VAM
VAO
VAO2
VAY
VBEM
VBY
VDL
VGB
VIPM
VITF
VKA
VLA
VLI
VLO
VLS
VLZ
VOY
VRAC
VRI
VTS
VUN
VZW
WAH2
WAHZ
WAJH
WARB
WATA
WAX
WB2
WB5
WDC
WEL
WET
WHN
WIM

```
      ----------------------------------------------------------------------------------------------------------------------------
DATE  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |10 |11 |12 |13 |14 |15 |16 |17 |18 |19 |20 |21 |22 |23 |24 |25 |26 |27 |28 |29 |30 |31
      ----------------------------------------------------------------------------------------------------------------------------
WIN   XXX XX      X  XX X       X       XX     XX   X XXX   X     XX X  X X XXX X   X    XXX    X  XX  X  X      X X  X      XX
WIT        XX        XX              X          X     X                   X   X          X       X X       X  X  XX   X   X
WIZ      X          X    X                        X        X      X                                  XX    X        X
WJPM             X                                                        XX         X  X   X         X           X              X
WKYJ       XX    XXX XX        XX   X   X  XX   X                     XXX   XX   X XXXX    X      X    XXX X  X  X X  XX
WLF   X   XXX    X X XXXX  XX   X  XXXXXXX X X  XX   XX  X  X X  XX X   XX  X X  X XX X  X XXX   X XX XXXXXXXXX  XXX XX  XXXXXX
WLS        XX      X  X  X          XX     X    X    XX       X   X       X X X    XX   XX X       X   X   X  X  X    X  XXXXX X
WLVO       X          X           X      X      X    XX            X          X                    X   X              X      X
WLZ   X XX          X    X    XX XX  XXX XX X  XX XXX X    XX     X X                   X X X      XXXXXX  X  X  X  X  XX     XX
WMOK  X X XXX  XXXX  XXX XX    XX X XX  XXXXXX  X   XXXXXXXXX     XXX  XX    XX X      X  XXX    X XX  X X X  X   XX  XX   X  XX
      ----------------------------------------------------------------------------------------------------------------------------
WMQ   X XXXXXX    XX  XXXXXX XX XXX XX  XX XX  XX    XXXXX XXXX  XXX  X X   XXX X  XXX X X XXX X XXXXXXXXX X XXX  XX  X   XX XXXX
WOFM             X                                                        X   X    XXX  X   X    X    X                X
WR2   XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX    XXXXXXXXXXXXXXXX    XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
WRA   XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
WRH            XXX    X XX    X   X      X X XXXX  XX       XX         XX  XXX     X XX  X XX         XX X     XX    XXXXXX XX XX
WTS   X   XXX        XX  X           X  XX   XX XX   XX XX  X X XXX   X X X X XX X       X       X XX      X  X  XX   X  XX XXXX
WTTA  X   XXX   X  X XX XXXX  X XXXXXX  XXXXXXX XX   XXXXX  X X  XX  XX X   XXX X   X XXXX       X X  XXX  XX X  XXXX X  XXXXX X X
WTV     X XXX     XX XX         X   X   X       X X  XXX X   XX   X X         XX                       X   X                 X X
WVZ    X X               X           X X XX    XX   XXXX         XX X  XX      X     X       X  X  XXXXX    X   XX     X      XX X
WWKK  X  X XXXXXX  X  X X                            XXXXXXXXXXXXXXX X XXX XXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXX
      ----------------------------------------------------------------------------------------------------------------------------
XAN   X XXXXXX X  XXXXXXXXXXXXXXXXXXXX XXXXXXXXXXX   XXXXX XXXX  XXX  XXX XXXXXXX  XXXXX X XX XX XXXXXXXXX X  XX XXX  XX  XXXXXXX
XLV    X X X X     X        X           X    XX X   X       X    X    X    X X       X         X    X  X XX    XX     X
YAH    X   X X   X    X  X  XX   X       X X  XXX  XX   X    X   X X    X  XXX X     X      X   X XX   X X               X X X X
YAK   X X XXX     XXXXX  XXX XX XXX XXXXXXXXX  XX X  XXXXX X  X  XXX  XX    X XX   XXXXXXXXXX XX XXXXX XXX X  XX XX   XX   XXX XX
YAMJ       XX  XX  XXXX    X   X    XX     X   XXX                    XX      X XX XXX            X   XXX        XXX  X
YBH   X   X    X   X                           XX    XXXXXX   X  XX X  X     XXX            X    X X   X   X     XX   X      X
YEG              X                                                         X  X     XX  X   X    X                               X
YJA       XXXX XXX  XXXXX    XXXXX XX XXXXX X XX      XX   X XXXXXXX   XX X X XXX XXXX X XXXXXXX  XXXXXX X X XXXXXXXXXXXX   XXXXXX
YKA   XXX XXXXXX  XXXXXXXXX   XXXXXXXXXXXXXXXXX X   XXXXXXXXXXXX XXXXXXXX     XXX XXX  X XXXX    XXX  XXXXXX  XX XXX XX    X XX X
YONJ       XX    XXX XX        XX   X   X  XX   X                     XXX    X X X XXXX    X      X    XXX X  XX XXX  XX
      ----------------------------------------------------------------------------------------------------------------------------
YRC        X         X               X     X    X    X                                   X X       X   X   X     X
YRH        X                         X     X   XX    X                                   X X       X   X   X     X
YSNY       XX        XX  X      X       X   X   X    XXX          XX          X           XX     X XX  X   X          X      X X
YSS     X  XX X    X XX  X       XX XX  X  X XXXX     X      X   XXX  XX    X X    XX      X      XX   X   X  X  XX   X    XXX
YUP    X  X   X  X     XX XX  X      XX X XX X  X X X    XXX       XX  X X X    X      X   X  X X        X      X XX
YYYY    XX  XX  X   X X XX XX  X  XXX  X  X XXXXXXXXXX    XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX X  XXXXXXXX
ZAG   X    X    X    XX              X      X X X     X  X    X  XX         X X            X       X  XX   X     X    X   X
ZAK   X X XXX X    X XX  X    X XXX XX  XX X                      X    X              X  X       XXXX X X  X  XX XX   XX  XXXX X
ZLA   X    XX      X  X  X           X     X    XX   X        X           X   X     X    X   X     X       X     XX
ZON   XXX X     X X XX  XXX  XX X X X X XXXX    X   X X XX      XXX     X  XXXX XX  X    XX XX X   X     X XX  XXX X X    XXXXXX
      ----------------------------------------------------------------------------------------------------------------------------
ZSP                                                XX  X             X         X X      X            X  X     X           X
ZST   X XXXXX  XXXXX XX  XXXXXXXXX XXXX XX X XXXXX XXXXXXXXXX XXXXX XX XXXX XXXXX   XXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXX X  XXXXXXX X
```

```
The following stations each reported less than 10 readings:

 AAK     AARM    AASM    ABKT    ABRM    ADH     ADWM    AEKI    AFDM    AFHM    AFRM    AGC     AGO     AGVB    AGX     AHRM    ALAM    ALE
 ALNM    AMC     AMW     ANAT    ANCC    ANG     ANMO    AOHM    APM     APRM    AQBJ    AQU     ARJM    ARO     ARRM    ARVC    ASMM    ATE
 ATN     AVRM    AZUC    BAPM    BAVM    BBOR    BCGM    BCKR    BCPM    BDI     BDID    BEW     BGC     BGG     BGH     BGM     BGMT    BGY
 BHRM    BIT     BKC     BLRM    BMG     BMK     BMR     BMTC    BOD     BOG     BOH     BOT     BPA     BPO     BPOM    BPRM    BRMM    BRN
 BRNL    BRT     BRVW    BSLM    BSRM    BTW     BUC1    BUD     BUNI    BURJ    BUT     BUTX    BVW     BVYM    BZK     CALA    CASR    CAV
 CBC     CBO     CBSW    CBX     CCM     CDAL    CDC     CDFW    CDVM    CEI     CFTV    CGP     CGX     CHAF    CHG     CHIE    CHX     CIZ
 CKI     CKO     CLMC    CLZ     CME     CMMM    CMW     CNIL    COLF    COR     COSM    CPAM    CPBX    CPI     CPIM    CPS     CPZ     CRE
 CRF     CRGC    CRNY    CSB     CSLM    CSR     CSTL    CSVM    CTFE    CTI     CUSS    CVAL    CVPM    CVR     CVT     CYK     CZM     DBN
 DEG     DHH     DHJN    DHLJ    DHW2    DIAC    DIL     DIM     DLA     DOI     DOMF    DPC     DRA     DRZ     DSI     DUC     DUI     EBZ
 ECX     EDR     EEO     EKH     EKR     ELF     ELYF    EMAL    EMEL    EMM     EMON    EMX     ENH     ENSF    ENX     EPH     ERK     ERM
 ESCF    ESD     ET3     ETW     EZAM    FAI     FBO     FCV     FDF     FG2     FG3     FG4     FL2     FOX     FRA     FRP     FTC     FTR
 FUQ     FVI     FX1     GACM    GARM    GAS     GAXM    GBDM    GBL     GBMM    GCBM    GCC     GCD     GCRM    GCWM    GDXM    GGC     GGPM
 GHC     GHCM    GHGM    GHLM    GHOM    GHS     GIB     GIBL    GIM     GL2     GLI     GLK     GMB     GMCM    GMKM    GMN     GMO     GMTN
 GNAM    GRI     GRQ     GRTM    GSGM    GSM     GSNM    GT2     GUAN    GULW    GWJ     GWKM    GWRM    HAM     HBF     HBMT    HBO     HCOM
 HDW     HERM    HGWM    HIA     HITJ    HJGM    HJSM    HKL     HOBC    HOJ     HOQC    HOR     HPO     HQN     HRY     HSHJ    HSO     HSPM
 HSR     HTCR    HTW     HUTI    HVC     IAS     IIP     INGI    ISSF    JARJ    JBLM    JBZM    JCPM    JEHI    JELM    JHLM    JLK     JLP
 JPRM    JRGM    JRRM    JRS     JRSJ    JSBM    JSMM    JTGM    JVM     KAC     KAIM    KALI    KBBM    KBNM    KBR     KBRM    KBSM    KCPM
 KCRM    KCTM    KDB     KEDI    KELI    KEV     KFNJ    KFPM    KGMM    KHBM    KHMM    KIB     KING    KIPM    KIR     KIV     KJJM    KKH
 KKPM    KLD     KLL     KLM     KMR     KNR     KOE     KOMM    KPK     KPL     KPPM    KRKM    KRMM    KRO     KRPM    KSB     KSD     KSMM
 KSXM    KVN     LARI    LASM    LBKM    LBL     LBPM    LBTB    LCI     LCMM    LDBM    LDN     LFU     LGBM    LGMM    LGOR    LHCM    LHE
 LHEM    LIJA    LIME    LIS     LISJ    LLA     LMPM    LMW     LPC     LPDM    LRC     LRDM    LRDO    LRS     LRV     LSLM    LSPF    LT15
 LTMT    LTR     LVP     LVRI    LVV     LVZ     LXR     MAC     MADF    MAL     MARC    MBH     MBU     MCMT    MCO     MCT     MCUM    MDI
 MDSJ    MDW     MEMT    MENF    MEP     MEU     MGD     MGG     MGL     MHA     MHR     MIF     MJ2     MKRJ    MKT     MLA     MME     MNO
 MOMI    MOP     MOW     MOYM    MPOR    MRFM    MRPI    MRSJ    MSI     MSJ     MSTM    MTMW    MTR     MXC     NAC     NAH     NAQJ    NCFM
 NCOR    NDE     NDHM    NKM     NLO     NLW     NMC     NMCC    NMHM    NMTM    NOLM    NPRM    NRIL    NSHM    NTBM    NVS     OBHM    OCR
 OD2     OGE     OGOM    OHW     OJEN    ONR     OOW     OPA     ORAM    ORC     ORO     ORX     OSUM    OT2     OTT     OWYM    PAB     PACI
 PADM    PAG     PAGM    PAND    PANM    PAPM    PARM    PASI    PATW    PCA     PCBI    PCJ     PCL     PCO     PCRM    PCRV    PDA     PENI
 PERF    PEV     PFO     PGD     PGO     PHBM    PICO    PII     PKA     PKH     PKM     PLAV    PLDF    PLEC    PMCM    PMGM    PMSA    PNJ
 PNL     PPI     PRCM    PRI     PRNI    PRW     PSAM    PSMM    PSN     PSO     PSRM    PSTM    PT03    PT06    PT08    PT10    PTRM    PTS
 PTV     PUL     PULI    PURC    PWMM    PYM     PZI     QSR     RAC     RANB    RANI    RAO     RATI    RBL     RCS     RCWM    RDP     RDX
 REMR    REMW    REVF    REY     RIA     RMN     RMP     RPW     RS1     RSA     RSM     RSW     RUWJ    RVC     RVW     RYS     SAC     SAL
 SAP     SCCM    SCE     SEG     SEMI    SET     SFI     SFL     SFS     SFTN    SHG     SHMJ    SIBI    SILC    SIMI    SINI    SJAS    SJH
 SJI     SKG     SNDC    SNH     SNT     SOI     SOS     SOSW    SPVI    SPX     SRBF    SRDI    SSPA    STB     STD     STH     STR     SVD
 SVV     SXM     SYP     TAHZ    TAIF    TANI    TBM     TBO     TBT     TCO     TDH     TDL     TDM     TER     TET     TGRV    TGT     THRI
 TIM     TKL     TKO     TLY     TMB     TME     TNR     TOD     TOU     TOW     TPI     TPMT    TPOR    TPP     TPR     TRGS    TRQ     TVI
 TWW     TZC     TZK     UDU     USI     VAI     VDCF    VFP     VIP     VLL     VLMM    VPEM    VSM     VSS     VTHM    WASM    WBO     WBSM
 WCHM    WEO     WFB     WIW     WKR     WLHM    WME     WORM    WPI     WPM     WPW     WRD     WRG     WSHM    WSI     XDE     YAKW    YEL
 YKU     YLL     YOMI    YPE     YRE     ZAI     ZER     ZFT
```