UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

EARTHQUAKE DATA REPORT

JULY 1991

by

U.S. Geological Survey

NATIONAL EARTHQUAKE INFORMATION CENTER[1]

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1991

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[1]USGS, Denver, Colorado

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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

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References

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

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-----------------------------------------
*  JUL  01, 1991  00h 27m 54.83± 2.74s
   39.445 N ±19.6km   23.482 E ±21.6km
   DEPTH =   5.0km  (geophysicist)
 AEGEAN SEA                          (365)
      MD 2.5 (THE).

PAIG     0.51  17 ePd   28 03.40  -1.6
                  eS    28 12.64
AGG      0.99 245 ePd   28 13.72  -0.4
                  iS    28 32.00
LIT      1.01 311 ePc   28 13.84  -0.5
                  eS    28 30.84
SOH      1.38 356 ePd   28 21.00   0.3
SRS      1.67   3 ePd   28 26.16   1.3
KNT      1.77 346 ePd   28 28.68   2.3X
     S.D. = 1.5  on   5 of   6 obs.
-----------------------------------------
   JUL  01, 1991  01h 29m 07.65± 1.02s
   43.716 N ± 2.9km  127.724 W ± 9.8km
   DEPTH =  10.0km  (geophysicist)
   3.4mb (  2 obs.)
 OFF COAST OF OREGON                 ( 30)

DBO      3.32  99 P      29 58.82  -1.9
HSO      3.37  92 P      29 59.83  -1.6
KMOR     3.58  56 P      30 03.79  -0.6
                  S      30 48.92
NLO      3.85  51 P      30 08.44   0.1
HBO      3.92  86 P      30 08.84  -0.4
                  S      30 58.44
PGO      4.15  63 P      30 12.95   0.5
GT2      4.16  68 P      30 12.98   0.3
BMW      4.21  48 P      30 12.76  -0.6
                  S      31 05.24
RVW      4.29  54 P      30 14.61   0.1
                  S      31 07.96
VLMM     4.45  64 P      30 17.15   0.4
                  S      31 12.59
LVP      4.45  56 P      30 17.01   0.2
OBH      4.51  36 P      30 17.27  -0.3
MTMW     4.55  58 Pc     30 18.52   0.3
                  S      31 15.03
FL2      4.55  55 P      30 18.73   0.5
                  S      31 15.16
CZM      4.59  52 P      30 18.39  -0.3
                  S      31 15.91
CPW      4.59  43 P      30 17.91  -0.8
                  S      31 13.19
VBEM     4.60  71 P      30 18.86  -0.1
ERK      4.61  54 P      30 19.01  -0.1
                  S      31 17.16
SHW      4.61  56 P      30 19.67   0.5
HSR      4.64  56 P      30 20.11   0.6
JLK      4.64  57 P      30 19.90   0.4
STD      4.65  55 P      30 20.04   0.4
REMW     4.65  56 P      30 20.35   0.6
VLL      4.66  66 P      30 20.23   0.4
ESD      4.67  56 P      30 20.45   0.4
CDFW     4.69  57 P      30 20.57   0.3
                  S      31 19.10
SOSW     4.70  56 P      30 20.70   0.3
TDL      4.71  54 P      30 20.59   0.0
                  S      31 18.90
OOW      4.72  30 P      30 20.38  -0.2
SMW      4.74  39 P      30 20.10  -0.8
VFP      4.75  68 P      30 21.16  -0.1
APM      4.76  63 P      30 21.34   0.2
KOSW     4.78  53 P      30 21.53   0.0
LMW      4.84  51 P      30 22.29  -0.1
                  S      31 21.43
GULW     4.89  61 P      30 23.25   0.2
WDC      4.97 127 eP     30 25.50   1.5
OSD      4.98  33 P      30 24.18  -0.2
ASR      4.99  59 P      30 24.78   0.4
                  S      31 25.58
MEW      4.99  44 P      30 24.83   0.5
CROR     4.99  73 P      30 23.41  -1.1
GHW      5.08  47 P      30 25.62   0.0
LON      5.16  52 P      30 26.96   0.1
GLK      5.18  55 P      30 27.61   0.5
                  S      31 30.64
RVC      5.18  49 P      30 27.38   0.2
STW      5.26  31 P      30 27.99  -0.2
VGB      5.27  68 P      30 28.31  -0.2
WPW      5.29  54 P      30 28.93   0.3
FMW      5.34  51 P      30 29.54   0.0
GL2      5.40  63 P      30 30.07  -0.1
RMW      5.59  46 P      30 32.72  -0.2
MIN      5.67 124 eP     30 35.50   1.4
HTW      5.84  43 P      30 35.87  -0.4
JBO      5.90  70 P      30 36.46  -0.7
ORV      6.25 130 eP     30 43.30   1.2
PNT      7.91  42 iP     31 05.00  -0.4
        0.3s    24.00nm          5.9mb X
CMB      7.94 133 eP     31 06.40   0.5
PRS      8.84 144 eP     31 15.50  -2.8
FRI      9.08 135 eP     31 22.30   0.6
ISA     10.74 135 eP     31 46.00   1.4
LRM     11.06  74 eP     31 48.70  -0.5
SBB     11.83 136 eP     31 58.00  -1.4
GSC     11.90 131 eP     32 09.00   8.7X
ALQ     18.60 111 eP     33 26.00  -1.1
        1.0s     2.50nm          3.4mb
YKA     20.31  18 eP     33 46.40   0.2
        0.8s     2.00nm          3.5mb
MEO     24.17 102 iPc    34 26.00   1.2
     S.D. = 0.8  on  64 of  65 obs.
-----------------------------------------
?  JUL  01, 1991  01h 58m 55.30± 1.08s
   36.978 N ±10.9km   29.406 E ± 7.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 3.3 (ISK).

ELL      0.46 120 iPg    59 04.50  -0.3
                  iSg    59 11.00
YER      0.91 280 ePn    59 13.00   0.2
BCK      1.06  63 iPn    59 15.90   0.6
KHL      1.35   4 ePn    59 19.60  -0.5
     S.D. = 0.8  on   4 of   4 obs.
-----------------------------------------
%  JUL  01, 1991  02h 03m 04.51± 1.77s
   43.604 N ±11.2km   12.892 E ±16.6km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                       (381)

ARV      0.11 161 P      03 06.90  -0.5
                  eSg    03 12.00
RSM      0.45 316 P      03 14.50   0.8
ASS      0.56 198 P      03 15.40  -0.5
                  eSg    03 29.00
CRE      0.68 272 P      03 18.50   0.4
                  eSg    03 32.00
SFI      0.82 293 P      03 19.20  -1.1
                  eSg    03 32.70
PGD      0.89 288 P      03 21.60  -0.1
                  eSg    03 37.70
MNS      1.23 187 P      03 28.50   1.1
     S.D. = 1.0  on   7 of   7 obs.
-----------------------------------------
*  JUL  01, 1991  02h 05m 14.66± 0.45s
   16.586 S ±10.0km  167.167 E ±11.7km
   DEPTH =  33.0km  (normal)
   4.0mb (  2 obs.)
 VANUATU ISLANDS                     (186)

BKM      1.49 136 iP     05 39.00  -0.4
                  iS     06 02.80
PVC      1.59 137 iP     05 42.00   1.2
DZM      5.50 187 iPd    06 35.10  -1.4
                  iS     07 38.30
STK     27.75 232 eP     11 04.00   1.6
        1.0s     1.10nm          3.5mb
ASPA    31.96 252 eP     11 40.00   0.0
        1.0s     7.90nm          4.6mb
FLN    146.36 345 ePKP   24 50.90  -1.5
        0.5s     2.90nm
LDF    146.43 345 ePKP   24 51.20  -1.3
LOR    146.44 339 ePKP   24 51.70  -0.9
        0.7s     2.75nm
LBF    146.64 339 ePKP   24 52.50  -0.5
SSF    146.73 339 ePKP   24 52.80  -0.3
        0.6s     2.25nm
GRR    146.80 345 ePKP   24 52.50  -0.6
LPF    147.18 345 ePKP   24 53.70   0.0
        0.5s     2.90nm
BGF    147.40 340 ePKP   24 54.40   0.3
        0.5s     2.20nm
MAF    147.78 340 ePKP   24 55.60   0.8
TCF    147.84 340 ePKP   24 55.70   0.8
LSF    148.09 341 ePKP   24 56.20   0.9
        0.5s     1.80nm
MFF    148.27 343 ePKP   24 56.80   1.3
     S.D. = 1.0  on  17 of  17 obs.
-----------------------------------------
   JUL  01, 1991  02h 26m 26.73± 0.57s
   37.880 N ± 8.2km  139.575 E ±10.1km
   DEPTH =  10.0km  (geophysicist)
   4.1mb (  1 obs.)
 HONSHU, JAPAN                       (227)

YAMJ     0.47  51 iPd    26 35.70  -0.5
                  eS     26 42.60
NIIJ     0.78 216 iP+    26 40.60  -1.4
MAT      1.72 220 iPd    26 56.20  -0.8
                  iS     27 18.80
KAKJ     1.74 164 P      26 57.30   0.2
                  S      27 22.30
CHJJ     1.89 194 P      26 59.50   0.2
                  S      27 25.70
MTMJ     1.91 228 P      26 59.10  -0.7
                  S      27 25.50
OFUJ     2.03  53 iPd    27 01.80   0.4
                  S      27 29.90
IIDJ     2.74 210 eP     27 14.00   2.4
                  S      27 51.20
AOMJ     2.75  13 eP     27 11.90   0.3
TSRJ     3.71 232 P      27 26.20   0.8
WRA     57.72 186 P      36 19.00  -1.0
        0.6s     1.30nm          4.1mb
KSP     78.61 327 eP     38 30.00   0.0
     S.D. = 1.1  on  12 of  12 obs.
-----------------------------------------
?  JUL  01, 1991  02h 27m 19.20± 9.48s
   41.828 N ±66.2km   22.880 E ±12.4km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                          (383)
      MD 2.5 (THE).

VAY      0.56 205 iPg    27 30.70   0.2
                  iSg    27 37.40
KNT      0.67 179 iPc    27 31.98  -0.5
                  eS     27 40.62
SRS      0.89 143 ePd    27 36.22   0.0
                  eS     27 50.94
GRG      0.94 203 ePc    27 37.10  -0.1
                  eS     27 48.94
SOH      1.07 160 ePc    27 39.58   0.3
                  eS     27 55.86
THE      1.20 177 ePc    27 41.50   0.0
                  eS     27 56.94
     S.D. = 0.3  on   6 of   6 obs.
-----------------------------------------
?  JUL  01, 1991  02h 53m 39.52± 9.46s
   33.708 S ±82.7km   67.782 W ±16.1km
   DEPTH =  33.0km  (normal)
 MENDOZA PROVINCE, ARGENTINA         (139)
      Felt (IV) in the La Paz area.

ZON      2.28 340 iPc    55 15.00  59.3X
RTLL     2.44 346 iPd    54 17.70  -0.3
RTBS     2.48 325 iPc    54 18.70   0.3
CYA      5.52  19 ePd    55 02.60   1.1
SLA      9.17  13 ePd    55 52.00  -0.7
CCH     16.32   6 eP     57 28.00  -0.2
                  i      57 41.00
ZOBO    17.37 359 Pc     57 41.70   0.1
SIV     18.65  21 iPc    57 56.60  -0.3
NNA     23.15 337 eP     59 04.00  20.0X
        0.8s     6.72nm
     S.D. = 0.7  on   7 of   9 obs.
-----------------------------------------
*  JUL  01, 1991  03h 37m 49.58± 0.85s
   45.666 N ±12.1km    4.882 E ± 8.0km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                              (538)
      ML 2.8 (LDG).

SMF      1.22 324 Pg     38 11.80  -0.5
LPL      1.31  96 Pg     38 13.90   0.0
                  Sg     38 28.60
LPG      1.32  97 Pg     38 14.10  -0.1
                  Sg     38 28.60
BNI      1.40 115 P      38 15.70   0.4
                  eSg    38 34.50
LBF      1.46 335 Pn     38 14.80  -1.2
                  Pg     38 16.50
                  Sg     38 35.10
AVF      1.55 317 Pg     38 19.40   2.2
                  Sg     38 39.00
```

01d 03h

```
BGF      1.67 303 Pn    38 18.60  -0.5
                  Sg    38 43.40
SSF      1.69 326 Pg    38 21.20   1.9
                  Sg    38 43.50
LOR      1.75 337 Pn    38 18.60  -1.6
                  Pg    38 21.30
                  Sg    38 43.70
TCF      1.96 289 Pg    38 28.10   4.8X
                  Sg    38 52.60
CAF      2.12 251 Pn    38 25.00  -0.6
                  Pg    38 31.80
                  Sg    38 59.00
HAU      2.55  23 Pg    38 36.50   4.9X
                  Sg    39 05.80
     S.D. = 1.4  on  10 of  12 obs.
-----------------------------------------
*  JUL  01, 1991  04h 23m 14.27± 0.73s
   3.944 N ±11.3km   82.183 W ±11.7km
   DEPTH =  10.0km  (geophysicist)
   4.4mb (  5 obs.)  3.9Msz (  1 obs.)
 SOUTH OF PANAMA                  ( 83)

PSO      5.57 119 iPd   25 31.50  51.9X
UPA      5.65  28 ePd   24 41.00   0.6
                  S     25 15.00
ECO      5.92  25 ePd   24 43.70  -0.5
                  S     25 18.00
BOG      8.12  85 eP    26 07.00  51.6X
                  eS    27 12.00
ZOBO    24.43 146 P     28 50.00  15.0X
     Z  20s     0.38um          3.9Msz
                  i     29 24.00
                  S     34 12.00
                  LR    37 32.00
LPB     24.65 146 eP    28 53.00  16.0X
                  i     29 28.00
CNCB    24.94 146 P     28 54.00  14.1X
                  i     29 28.00
CCH     26.45 144 eP    28 44.00  -9.8X
                  e     29 42.00
BLA     33.15   3 ePd   29 52.50  -0.5
ALO     38.18 327 ePc   30 36.00   0.0
     1.0s      5.50nm          4.3mb
                  e     31 10.20
ANMO    38.18 327 ePc   30 36.50   0.5
     1.0s     11.25nm          4.6mb
GOL     41.32 333 ePd   31 02.00  -0.1
     0.5s      4.14nm          4.4mb
RSSD    44.41 337 iPc   31 27.30   0.1
     1.2s     29.15nm          5.0mb
TNP     46.64 321 ePc   31 44.80  -0.2
ORV     50.20 320 ePc   32 12.00  -0.4
YKA     63.16 344 eP    33 45.20   0.8
     0.7s      0.50nm          3.8mb
GKN    145.79  21 PKP   42 56.24   0.5
KKN    146.21  20 PKP   42 57.24   0.7
GUN    146.31  19 PKP   42 57.22   0.4
DMN    146.32  21 PKP   42 56.62  -0.2
PKI    146.46  20 PKP   42 55.60  -1.5
     S.D. = 0.6  on  15 of  21 obs.
-----------------------------------------
*  JUL  01, 1991  04h 56m 28.70± 0.69s
   21.341 N ±16.8km   94.105 E ±15.0km
   DEPTH =  85.3 ± 16.8 km
   4.2mb (  1 obs.)
 BURMA                            (296)

SHL      4.67 335 eP    57 38.60   0.1
                  eS    58 29.80
CHG      5.20 118 ePg   57 45.90   0.3
                  eSg   59 03.50
CHTO     5.20 118 ePn   57 45.70   0.1
BDT      6.16 131 eP    57 58.00  -1.0
KHT      7.79 146 eP    58 22.00   0.6
GUN      9.94 313 P     58 50.96   0.0
PKI     10.06 310 P     58 52.62   0.0
KKN     10.28 310 P     58 55.92   0.4
DMN     10.30 309 P     58 55.54  -0.3
GKN     10.86 309 P     59 03.10  -0.2
WRA     56.85 133 P     06 07.00   0.0
     0.6s      1.20nm          4.2mb
     S.D. = 0.5  on  11 of  11 obs.
-----------------------------------------
   JUL  01, 1991  05h 21m 51.87± 1.24s
   14.956 N ± 7.2km  120.313 E ± 9.8km
   DEPTH =  25.9 ± 10.3 km
   4.6mb (  7 obs.)  3.8Msz (  1 obs.)
 LUZON, PHILIPPINE ISLANDS        (249)
QCP      0.80 113 eP    22 08.00   0.9
BAG      1.47  10 iPc   22 11.80  -5.2X
PGP      1.57 157 iPd   22 21.00   2.6X
                  iS    22 46.00
SZP      2.58   3 eP    22 32.00  -0.9
                  eS    23 11.00
CVP      3.09  28 eP    22 38.50  -1.6
                  eS    23 22.00
PIP      3.36   5 ePc   22 42.50  -1.4
                  eS    23 32.00
PPR      5.38 197 iPd   23 11.00  -1.5
QZH     10.07 351 eP    24 17.50  -0.4
WHN     16.45 342 eP    25 46.50   3.9X
GYA     17.13 314 P     25 53.40   2.1
     N  15s     0.60um
     E  15s     0.80um
CHG     20.80 284 eP    26 35.00   1.1
TIA     21.36 353 Pc    26 37.90  -1.5
XAN     21.61 334 P     26 42.60   0.6
CD2     21.97 319 P     26 47.60   2.0
     1.0s     30.00nm          4.7mb
TIY     23.72 344 eP    27 05.90   3.1X
     Z  14s     0.71um          4.3MszX
     E  12s     0.21um
BJI     25.25 353 eP    27 17.50   0.1
     1.0s     12.00nm          4.5mb
     Z  18s     0.29um          3.8Msz
LZH     25.68 328 eP    27 22.00   0.3
     1.8s     32.00nm          4.6mb
     Z  15s     0.48um          4.1MszX
     E  12s     0.36um
HHC     26.90 345 eP    27 33.80   1.0
BTO     27.08 343 eP    27 37.00   2.5X
GUN     34.42 298 P     28 39.68  -0.2
PKI     34.74 297 P     28 41.52  -1.1
KKN     34.90 297 P     28 42.18  -1.7
DMN     35.01 297 P     28 42.62  -2.2
GKN     35.51 297 P     28 47.86  -1.1
WB2     37.33 158 iPd   29 03.20  -0.9
     0.5s      8.40nm          4.8mb
ASPA    40.62 161 eP    29 32.60   1.1
     0.6s      7.50nm          4.6mb
NB2     85.98 333 P     34 29.60  -1.4
     0.7s      2.30nm          4.5mb
YKA     91.76  22 eP    34 58.50   0.1
     0.7s      0.50nm          4.0mb
     S.D. = 1.3  on  23 of  28 obs.
-----------------------------------------
   JUL  01, 1991  06h 18m 06.16± 0.35s
   24.941 N ± 5.7km   99.029 E ± 4.2km
   DEPTH =  18.9km  (  3 depth phases)
   4.6mb ( 15 obs.)
 YUNNAN PROVINCE, CHINA           (318)

KMI      3.37  86 Pnd   19 00.00   0.8
                  Pg    19 11.00
                  Sg    19 55.00
CHG      6.10 181 ePn   19 38.90   1.3
                  iPg   20 00.00
                  iSg   21 16.50
CHTO     6.10 181 iPn   19 38.90   1.3
                  iPg   20 00.00
SHL      6.50 277 eP    19 43.00  -0.4
                  eS    21 30.00
GYA      7.05  76 Pn    19 49.80  -1.3
     1.0s    130.00nm          6.0mb X
     N  10s    13.00um
     E  10s     6.00um
                  Sn    21 10.40
CD2      7.27  34 Pn    19 54.80   0.7
                  Pg    20 20.40
                  Sg    21 57.30
BDT      7.66 180 ePn   19 56.00  -3.5X
                  eSg   22 04.00
LSA      8.46 306 P     20 12.60   1.5
KHT     10.11 182 eP    20 35.50   2.0
QIZ     11.63 118 P     20 52.10  -2.1
     N  11s     1.00um
     E  10s     1.30um
                  eS    23 03.00
LZH     11.86  19 Pc    20 59.30   1.9
     2.0s     71.00nm          5.6mb
     Z  12s     1.63um
                  eS    23 12.00
GUN     12.15 287 P     21 00.14  -1.4
PKI     12.50 285 P     21 04.00  -2.3
XAN     12.50  41 P     21 06.00   0.1
KKN     12.65 286 P     21 06.90  -1.2
DMN     12.77 285 P     21 07.08  -2.7
GKN     13.25 286 P     21 13.56  -2.4
WHN     14.67  64 P     21 31.70  -2.8
     Z  10s     1.50um
                  pP    21 38.00
                  eS    24 14.00
TIY     17.10  39 eP    22 05.70  -0.1
     Z  12s     0.84um
BTO     18.12  28 eP    22 18.00  -0.5
NJ2     18.80  63 Pc    22 27.40   0.7
     Z  10s     1.30um
     N  12s     3.40um
     E  11s     1.30um
                  eS    25 58.00
HHC     19.00  30 eP    22 29.70   0.4
     4.0s    300.00nm          4.9mb X
TIA     19.17  50 Pd    22 31.60   0.3
     Z  16s     0.60um
     N  10s     1.00um
     E  10s     0.80um
                  eS    26 01.00
NDI     19.82 286 eP    22 38.00  -0.6
SSE     20.48  68 Pd    22 44.00  -1.6
     1.1s     29.00nm          4.6mb
     Z  12s     1.00um          4.4MszX
                  eS    26 24.00
                  sS    26 36.00
HYB     20.49 253 eP    22 47.50   1.7
BJI     20.82  40 eP    22 49.50   0.5
     1.5s    110.00nm          5.0mb
     Z  12s     0.30um          3.9MszX
     N  10s     0.73um
     E  10s     0.86um
WMQ     20.99 337 P     22 52.00   1.2
     1.5s     20.00nm          4.3mb
     Z  12s     0.90um          4.4MszX
     N  10s     1.30um
                  pP    22 59.00  26km
                  sP    23 05.50
                  PP    23 14.50
                  S     26 45.00
DL2     23.62  48 P     23 18.00   1.2
     1.2s    190.00nm          5.5mb
     Z  10s     0.60um          4.4MszX
     E  10s     0.60um
KSH     24.19 312 P     23 26.00   3.4X
SNY     26.39  44 Pc    23 43.20   0.1
CN2     28.61  42 eP    24 03.00  -0.3
     1.0s     10.00nm          4.5mb
     Z  10s     0.96um          4.7MszX
     N  10s     0.24um
     E  10s     0.24um
                  epP   24 08.00  17km
                  eS    28 49.00
QUE     28.86 288 eP    24 07.00   1.1
MAIO    35.63 298 eP    25 07.00   2.0
WRA     56.31 139 P     27 47.00  -1.2
     1.0s     10.40nm          4.8mb
WB2     56.32 139 eP    27 46.20  -2.1
     1.2s      9.70nm          4.7mb
NB2     67.47 328 P     29 02.20  -0.5
     1.0s      3.10nm          4.4mb
PRU     67.88 316 eP    29 06.00   0.6
                  e     29 10.20  14km
BRG     68.05 317 e(P)  29 07.20   0.7
STK     69.61 142 iPc   29 15.80  -0.4
     1.0s      2.40nm          4.3mb
CDF     72.89 316 eP    29 36.30   0.3
LPG     74.17 313 eP    29 44.40   0.7
LPL     74.18 313 eP    29 44.50   0.8
     0.9s      4.90nm          4.5mb
LBF     75.47 315 eP    29 51.30   0.4
     1.0s      5.00nm          4.5mb
SSF     75.74 315 eP    29 53.00   0.7
     0.9s      6.55nm          4.7mb
AVF     75.94 315 eP    29 53.80   0.4
     0.9s      4.90nm          4.6mb
EKA     76.43 325 P     29 55.00  -1.0
TCF     76.86 315 eP    29 59.70   1.0
INK     79.39  17 eP    30 13.00   0.9
YKA     88.83  15 eP    30 59.80  -0.2
     1.0s      1.40nm          4.2mb
     S.D. = 1.3  on  48 of  50 obs.
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    JUL  01, 1991  07h 01m 11.75± 0.33s
    10.372 S ± 5.1km  124.020 E ± 7.2km
    DEPTH =  23.5km  (  3 depth phases)
    5.1mb ( 14 abs.)
 TIMOR                                   (289)

KUPT     0.46 298 ePd    01 21.00   -0.2
                  e(S)   02 02.00
KNA      7.07 140 eP     02 57.00    0.6
                  eS     04 17.00
MTN      7.39 110 iPd    03 01.50    0.6
                  iS     04 24.00
WB2     13.78 135 iPd    04 25.80   -2.3
        0.3s     27.70nm          5.6mb
                  eS     06 49.00
NANU    14.59 213 eP     04 38.00   -0.7
                  eS     07 12.00
TSM     15.80 337 eP     05 01.00    6.5X
WARB    15.92 171 eP     04 55.00   -1.0
        0.3s      9.00nm          4.4mb
ASPA    16.24 146 iPc    04 58.40   -1.7
        0.8s     26.70nm          4.4mb
                  e      05 08.20
                  i      06 31.70
                  e      07 33.70
                  eS     07 51.10
KKM     18.07 334 ePd    05 27.20    4.1X
QIS     18.10 126 eP     05 22.00   -1.5
                  i      05 32.40
                  iS     08 36.00
JAY     18.31  66 eP     05 26.50    0.4
CGP     18.71   2 eP     05 33.50    2.5
MAP     20.56 360 ePc    05 51.00   -0.5
        1.0s     69.00nm          5.0mb
COOL    20.58 187 eP     05 52.00    0.2
PPR     20.70 345 iPc    05 54.00    1.0
        1.0s    166.00nm          5.4mb
FORR    20.73 170 eP     05 55.00    1.8
BAL     21.25 198 eP     05 59.50    0.9
MUN     22.68 197 eP     06 14.00    1.2
CTAO    23.50 117 eP     06 26.00    5.0X
                  e      06 52.00
                  iS     10 51.00
PGP     23.91 353 ePc    06 27.00    2.1
        1.0s     69.00nm          5.1mb
KGM     24.00 300 eP     06 25.50   -0.3
RKG     24.92 194 eP     06 38.00    3.4X
        0.4s     11.00nm          4.8mb
STK     26.88 145 eP     06 55.70    2.9X
        1.9s      2.80nm          3.6mb X
                  e-     07 07.50
                  eS     11 56.90
ADE     27.91 154 e(P)   07 02.80    0.6
BFD     31.49 151 eP     07 36.00    2.0
TOO     33.27 148 eP     07 54.00    4.4X
CHG     38.11 319 eP     08 31.00    0.1
GYA     40.31 336 P      08 49.00   -0.2
KMI     40.93 330 Pc     08 55.50    1.1
        1.5s     70.00nm          5.2mb
                  pP     09 03.00   25km
WHN     41.73 347 eP     09 01.40    0.8
                  pP     09 05.50   14km
CD2     45.42 335 P      09 30.00   -0.7
        1.0s     20.00nm          5.0mb
XAN     46.44 343 P      09 38.00   -0.7
MAT     48.54  15 eP     09 54.00   -1.1
        0.9s     15.13nm          5.0mb
                  eS     17 15.00
LZH     49.97 339 P      10 06.00   -0.3
        1.5s     45.00nm          5.3mb
                  pP     10 15.50   32km
                  sP     10 21.00
BJI     50.68 352 eP     10 10.00   -1.3
SNY     51.94 360 eP     10 20.00   -0.9
HHC     52.25 348 eP     10 23.10   -0.3
GUN     53.02 317 P      10 28.80   -0.9
        0.8s     72.00nm          5.7mb
PKI     53.12 316 P      10 28.74   -1.7
KKN     53.35 316 P      10 30.94   -1.0
DMN     53.35 316 P      10 30.92   -1.1
GKN     53.92 316 P      10 34.82   -1.2
CN2     53.93   1 eP     10 34.00   -1.6
GTA     54.40 337 Pc     10 39.00   -0.4
        1.4s     30.00nm          5.1mb
                  PcP    11 44.80
MDJ     54.96   5 eP     10 43.00   -0.2
        1.1s     80.00nm          5.7mb
QUE     68.06 308 eP     12 11.80   -0.3
MAIO    76.32 311 eP     13 03.00    2.1
OBN     96.94 325 eP     14 45.00    2.7
YKA    113.34  26 ePKP   19 50.70    1.8
        0.7s      0.30nm
ALQ    128.05  54 ePKP   20 21.00    2.7X
        1.0s      2.50nm
PNJ    145.61  25 i(PKP)20 52.90    2.9X
GMTN   145.62  25 iPKP   20 53.40    3.3X
ARE    149.24 150 ePKP   21 07.00   10.1X
CNCB   150.50 156 PKP    21 09.00    9.8X
CCH    150.65 160 ePKP   21 08.00    9.0X
LPB    150.70 156 PKP    21 10.00   10.7X
ZOBO   150.93 155 PKP    21 09.00    9.2X
        1.1s      8.70nm
      S.D. = 1.3  on  43 of  57 obs.
-----------------------------------
?  JUL  01, 1991  08h 35m 07.91±13.34s
    42.382 N ±66.2km  129.171 W ±83.7km
    DEPTH =  10.0km  (geophysicist)
 OFF COAST OF OREGON                 ( 30)

NLO      5.53  46 P      36 32.29   -0.1
GT2      5.71  59 P      36 35.23    0.3
BMW      5.90  44 P      36 37.01   -0.5
RVW      5.96  49 P      36 38.03   -0.2
VLMM     6.04  56 P      36 39.56    0.1
LVP      6.10  51 P      36 40.36    0.0
MTMW     6.19  52 P      36 41.44   -0.1
FL2      6.20  50 P      36 41.91    0.1
CZM      6.26  47 P      36 42.55    0.0
SHW      6.27  50 P      36 42.89    0.1
ERK      6.27  49 P      36 42.73   -0.1
HSR      6.29  51 P      36 43.32    0.2
JLK      6.29  51 P      36 42.98   -0.1
CPW      6.29  41 P      36 42.72   -0.3
VFP      6.30  60 P      36 43.76    0.5
STD      6.30  50 P      36 43.24    0.0
ESD      6.32  50 P      36 43.73    0.2
CDFW     6.33  51 P      36 43.40   -0.2
SOSW     6.35  50 P      36 44.26    0.3
TDL      6.37  49 P      36 44.00   -0.2
KOSW     6.45  48 P      36 45.39    0.1
GULW     6.50  54 P      36 46.09    0.1
LMW      6.52  47 P      36 46.88    0.5
VIPM     6.58  68 P      36 47.39    0.2
ASR      6.62  53 P      36 47.59   -0.1
LON      6.83  48 P      36 50.67    0.0
GLK      6.84  50 P      36 50.79    0.0
RVC      6.86  46 P      36 51.35    0.2
GL2      6.99  56 P      36 52.42   -0.4
FMW      7.02  47 P      36 53.34   -0.1
GSM      7.12  45 P      36 54.78    0.0
RMW      7.29  43 P      36 56.72   -0.3
JBO      7.41  62 P      36 58.03   -0.7
HTW      7.54  41 P      36 56.99   -3.5X
EBG      7.62  51 P      37 01.75    0.0
JCW      7.73  39 P      37 03.60    0.4
RPW      8.11  39 P      37 08.62    0.1
ETW      8.15  47 P      37 09.16   -0.1
      S.D. = 0.3  on  37 of  38 obs.
-----------------------------------
?  JUL  01, 1991  08h 38m 00.58± 8.61s
    42.946 N ±39.9km  128.326 W ±56.3km
    DEPTH =  10.0km  (geophysicist)
 OFF COAST OF OREGON                 ( 30)

HBO      4.47  76 P      39 10.43    0.4
NLO      4.69  46 P      39 13.20    0.0
GT2      4.89  61 P      39 16.16    0.2
PGO      4.92  57 P      39 16.72    0.5
BMW      5.06  44 P      39 17.92   -0.5
RVW      5.12  49 P      39 18.91   -0.2
VLMM     5.21  58 P      39 20.30   -0.2
LVP      5.26  52 P      39 21.23    0.0
VBEM     5.30  64 P      39 22.25    0.4
MTMW     5.35  53 P      39 22.08   -0.4
FL2      5.36  51 P      39 22.86    0.1
VLL      5.40  60 P      39 24.04    0.8
CZM      5.42  48 P      39 23.07   -0.4
SHW      5.43  51 P      39 23.97    0.3
ERK      5.43  50 P      39 23.42   -0.3
HSR      5.45  52 P      39 24.13    0.2
JLK      5.45  52 P      39 23.80   -0.1
CPW      5.46  41 P      39 23.53   -0.4
REMW     5.46  51 P      39 24.78    0.6
STD      5.46  51 P      39 23.95   -0.1
ESD      5.48  51 P      39 24.46    0.1
CDFW     5.49  53 P      39 24.23   -0.3
SOSW     5.51  51 P      39 25.04    0.3
APM      5.52  57 P      39 25.05    0.2
TDL      5.53  50 P      39 24.90   -0.2
KOSW     5.61  49 P      39 26.22    0.1
GULW     5.66  56 P      39 27.07    0.1
LMW      5.68  47 P      39 27.09   -0.1
ASR      5.78  54 P      39 28.46   -0.1
VIPM     5.80  72 P      39 28.23   -0.6
MEW      5.85  41 P      39 30.27    0.9
LON      5.99  48 P      39 31.55    0.1
GLK      6.00  51 P      39 31.57    0.0
RVC      6.02  46 P      39 32.20    0.3
GL2      6.16  58 P      39 33.13   -0.7
FMW      6.18  48 P      39 34.14   -0.1
RMW      6.45  43 P      39 37.79   -0.2
JBO      6.60  65 P      39 39.18   -0.9
HTW      6.70  41 P      39 41.04   -0.4
MXC      6.77  55 P      39 42.12   -0.3
EBG      6.78  52 P      39 42.67    0.0
JCW      6.90  38 P      39 44.55    0.3
RPW      7.28  39 P      39 49.42   -0.1
      S.D. = 0.4  on  43 of  43 obs.
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*  JUL  01, 1991  09h 47m 18.17± 0.98s
    29.671 N ±19.5km   60.442 E ±11.0km
    DEPTH =  33.0km  (normol)
    4.4mb (  5 obs.)
 SOUTHERN IRAN                       (353)

QUE      5.67  83 eP     48 41.50   -1.0
                  e      48 58.00
                  eS     50 09.20
                  e      50 45.50
MAIO     6.66 353 eP     48 58.00    1.7
                  eS     50 48.00
IR4      9.78 307 eP     49 41.00    1.2
IR5      9.99 306 eP     49 42.00   -0.7
IR1     10.03 307 eP     49 43.00   -0.1
IR7     10.23 309 eP     49 45.00   -1.0
GKN     21.25  89 P      52 01.74   -2.2
DMN     21.74  89 P      52 11.36    2.4
KKN     21.85  89 P      52 09.66   -0.4
PKI     22.01  89 P      52 12.24    0.5
GUN     22.35  88 P      52 15.14    0.0
GBA     22.43 132 P      52 17.00    1.5
        0.8s     11.40nm          4.4mb
OBN     30.62 333 eP     53 34.00    2.8X
CHTO    36.58  98 eP     54 22.70   -0.4
        0.8s      1.46nm          3.9mb
WRA     86.56 115 P      00 03.00    3.5X
        1.0s      1.20nm          4.1mb
YKA     88.07 358 eP     00 04.60   -1.6
        1.0s      3.30nm          4.6mb
ASPA    88.25 118 eP     00 10.70    3.1X
        1.1s      7.40nm          4.9mb
      S.D. = 1.4  on  14 of  17 obs.
-----------------------------------
%  JUL  01, 1991  10h 06m 49.87± 0.69s
    37.085 N ± 7.1km   29.560 E ± 5.6km
    DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 3.6 (ISK).

ELL      0.44 140 iPg    06 58.50   -0.3
                  eSg    07 05.50
BCK      0.90  65 iPn    07 07.80    0.6
YER      1.02 273 iPn    07 09.10   -0.1
KHL      1.24 359 iPn    07 12.00   -0.9
CIN      1.28 294 ePg    07 14.00    0.4
                  iSg    07 30.00
ALT      2.01  12 ePn    07 24.50    0.1
IZM      2.24 306 ePn    07 27.90    0.2
      S.D. = 0.6  on   7 of   7 obs.
-----------------------------------
?  JUL  01, 1991  11h 09m 55.85±13.70s
    41.891 N ±95.5km   22.834 E ±16.9km
    DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                          (383)
      ML 1.9 (SKO).

VAY      0.60 199 iPg    10 08.20    0.2
                  iSg    10 15.80
KNT      0.73 176 iPc    10 09.86   -0.3
                  eS     10 18.46
SRS      0.96 143 ePc    10 14.06   -0.1
```

```
                 eS      10 26.42
GRG      0.99 199 ePd    10 14.50   -0.1
                 eS      10 26.74
SOH      1.14 160 ePd    10 17.42    0.2
                 eS      10 31.78
    S.D. = 0.3  on   5 of   5 obs.
----------------------------------------
  JUL  01, 1991  11h 28m 29.41± 1.14s
  55.848 N ± 9.9km  153.044 W ± 6.2km
  DEPTH =  33.0km  (normal)
  4.0mb (  3 obs.)
 SOUTH OF ALASKA                  ( 17)
      ML 4.3 (PMR), 4.2 (AEIC).

KDC      1.93   9 iPc    29 01.70    1.2
SYI      2.79   7 ePc    29 13.69    1.0
CDD      3.11 354 iPc    29 17.83    0.6
MCNL     3.42 349 eP     29 21.40   -0.3
AUI      3.50 357 eP     29 23.13    0.3
                 eS      30 01.31
AUE      3.53 357 eP     29 23.52    0.4
AUH      3.53 357 eP     29 23.86    0.5
XLV      3.69  11 iPd    29 26.81    1.4
CNPM     3.81  14 iPc    29 28.23    1.0
HOM      3.89  11 iPc    29 29.63    1.3
PDB      4.00 352 iPc    29 29.31   -0.6
SDN      4.26 266 eP     29 33.10   -0.4
NNL      4.31  12 ePc    29 35.65    1.4
RSO      4.63   2 eP     29 39.27    0.2
RS2      4.63   2 eP     29 39.27    0.2
RDW      4.65   1 ePc    29 39.13   -0.2
REF      4.66   2 eP     29 39.54    0.1
SEW      4.68  23 eP     29 39.22   -0.2
RDN      4.68   2 eP     29 39.61   -0.1
NCT      4.73   1 eP     29 40.02   -0.3
DFR      4.76   2 eP     29 40.20   -0.6
SLKM     4.91  17 eP     29 42.45   -0.3
LTI      5.03  31 eP     29 44.29   -0.2
MTU      5.05  32 eP     29 45.88    1.1
KNIM     5.32  30 eP     29 47.97   -0.6
SPU      5.37   5 eP     29 49.34   -0.1
SVW      5.45 347 ePc    29 48.80   -1.6
CGLM     5.50   5 eP     29 51.00   -0.2
NCG      5.59   4 eP     29 52.95    0.4
PMS      5.71  17 eP     29 53.44   -0.7
GLI      5.94  29 eP     29 57.06   -0.2
PWA      6.05  14 eP     29 58.72   -0.1
KNK      6.07  21 eP     29 59.27    0.0
PLRM     6.11  18 eP     29 58.51   -1.2
PMR      6.11  18 eP     29 57.50   -2.2X
SKT      6.20   7 eP     30 00.32   -0.7
VZW      6.24  30 eP     30 00.95   -0.6
GHO      6.31  18 eP     30 03.07    0.4
VLZ      6.36  31 eP     30 03.17    0.0
SML      6.46  20 eP     30 04.47   -0.2
SCM      6.69  24 eP     30 07.78   -0.2
KLU      6.77  30 eP     30 08.42   -0.6
TOA      7.21  27 eP     30 15.30    0.2
TTA      7.26 349 eP     30 18.60    2.6X
GLB      7.39  37 eP     30 16.46   -1.2
FBA      9.44  14 eP     30 45.00   -1.1
IMA     10.26 359 eP     30 56.20   -1.3
INK     15.37  28 eP     32 10.00    4.8X
YKA     20.53  55 eP     33 11.50    4.4X
         0.9s     2.10nm          3.5mb
MBC     23.92  19 ePd    33 45.70    5.1X
         0.7s     4.00nm          4.1mb
NB2     62.79   9 P      38 55.30    1.9
         0.8s     1.50nm          4.2mb
    S.D. = 0.8  on  46 of  51 obs.
----------------------------------------
?  JUL  01, 1991  12h 29m 58.40± 0.94s
   37.039 N ± 8.8km   29.563 E ± 7.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      MD 3.2 (ISK).

ELL      0.40 136 iPg    30 06.50   -0.1
                 iSg     30 12.50
BCK      0.92  62 iPn    30 16.30    0.3
YER      1.03 276 ePn    30 18.00    0.1
KHL      1.28 359 ePn    30 22.00   -0.2
    S.D. = 0.4  on   4 of   4 obs.
----------------------------------------
*  JUL  01, 1991  12h 54m 41.89± 1.81s
   20.523 S ±11.8km  178.441 W ± 9.7km
   DEPTH = 600.0 ± 22.9 km
   4.9mb ( 15 obs.)
 FIJI ISLANDS REGION              (181)

NDF      4.76 305 eP     57 05.10   51.7X
DZM     14.17 261 iPc    57 43.00    1.0
                 iS      00 14.20
NOZ     18.29 189 P      58 21.50    0.3
MNG     20.69 193 eP     58 41.50   -1.8
BRS     27.14 250 iPd    59 42.30    1.6
RMO     30.61 252 iPd    00 11.80    1.4
CMS     33.78 244 iPc    00 38.00    1.0
         0.7s    21.00nm          4.9mb
OLP     34.66 253 iPd    00 45.00    0.7
TOO     35.55 234 iPc    00 53.00    1.5
         0.5s    15.00nm          4.9mb
STK     37.41 244 iPd    01 06.90    0.1
         0.6s     9.10nm          4.5mb
BFD     37.68 235 eP     01 08.00   -1.0
                 i       03 09.60
OIS     39.21 262 eP     01 20.00   -1.5
JAY     43.66 289 iPd    01 55.00   -1.8
         0.7s   159.70nm          5.7mb
WB2     44.18 262 iPc    01 59.70   -1.0
                 i       02 25.00
                 iPP     03 32.30
                 eS      07 31.80
WRA     44.19 262 P      01 59.00   -1.8
         0.4s    34.90nm          5.2mb
MTN     48.75 271 iPc    02 34.50   -1.0
         0.6s   109.00nm          5.6mb
FORR    48.87 247 eP     02 35.50   -0.6
         0.4s    26.00nm          5.1mb
WARB    50.43 253 iPd    02 47.10   -0.6
         0.3s     9.00nm          4.7mb
NANU    60.99 255 iPd    04 00.20   -0.3
CGP     62.87 291 iPd    04 12.50   -0.2
         1.0s    45.00nm          4.8mb
ADK     72.11   1 eP     05 06.10   -1.7
NJ2     79.58 310 Pc     05 49.00    0.1
KGM     79.70 276 ePc    05 50.20    0.2
ORV     79.97  41 eP     05 51.80    0.9
MDJ     80.30 325 eP     05 53.20    0.8
         1.0s    30.00nm          4.7mb
TNP     81.84  44 iP     06 01.90    1.2
         0.8s     1.47nm          3.6mb X
CN2     82.07 323 P      06 01.60    0.2
WHN     82.13 307 eP     06 03.20    1.2
TIA     82.99 313 Pd     06 06.40    0.2
RSO     83.35  12 eP     06 06.90   -0.9
SLKM    83.93  14 iP     06 09.70   -0.7
BJI     85.62 316 eP     06 19.00    0.1
         1.5s    21.00nm          4.6mb
GYA     86.30 300 P      06 22.40   -0.3
PNT     86.90  34 eP     06 25.00    0.1
TIY     86.99 312 eP     06 25.80    0.2
XAN     87.82 308 Pd     06 30.00    9.4
NVL     88.67 183 ePc    06 32.00   -0.8
KMI     88.99 297 Pd     06 36.00    0.6
         1.5s    40.00nm          5.1mb
BW06    89.27  43 iP     06 36.40    0.1
         0.8s     2.32nm          4.2mb
CHTO    89.86 290 iPd    06 40.60    1.4
         0.8s    19.22nm          5.1mb
BTO     90.00 314 eP     06 39.50    0.0
YAK     91.96 338 iPc    06 46.70   -1.2
YKA     96.71  25 eP     07 08.50   -0.9
         0.8s     0.60nm          3.9mb
NB2    138.95 353 PKP    12 52.40   -9.7X
         0.7s     1.00nm
HFS    139.50 351 ePKP   12 53.70   -9.3X
         0.4s     5.30nm
EKA    145.06   5 PKPc   13 12.80    0.0
         0.9s     9.70nm
KAS    145.73 315 iPKPd  13 17.20    2.7X
DMU    146.06   9 ePKP   13 16.00    1.5
DCN    146.54  10 ePKP   13 17.40    2.2X
DLF    146.70   9 ePKP   13 17.60    2.1X
SPC    147.73 337 ePKP   13 20.50    2.9X
MLR    148.02 327 iPKPc  13 21.00    2.9X
BRG    148.18 345 ePKP   13 17.80   -0.2
                 i       13 21.70
                 i       13 26.40
WTS    148.32 354 ePKP   13 22.00    3.9X
         0.8s    35.00nm
PRU    148.84 344 iPKPd  13 23.50    4.5X
         0.9s    14.00nm
                 e       13 29.80
                 e       28 43.30
                 Sn      28 58.30
                 Sg      29 06.00
BNS    149.30 353 ePKPd  13 24.50    4.9X
ENN    149.62 355 ePKP   13 25.50    5.4X
         0.8s    17.00nm
                 e       13 32.50
MEM    149.77 354 PKPd   13 25.70    5.4X
KHC    149.88 344 PKP    13 21.00    0.3
         1.0s    12.50nm
                 i       13 26.50
                 e       13 34.50
SNF    150.00 357 PKP    13 26.30    5.6X
DOU    150.39 356 PKPc   13 27.30    6.0X
WLF    150.69 354 PKP    13 29.00    7.3X
FLN    151.78   3 ePKP   13 29.80    6.4X
         1.0s    18.00nm
CDF    151.80 352 ePKP   13 30.00    6.4X
         0.9s    11.45nm
KBA    151.83 343 i(PKP)13 29.70    5.9X
         0.8s     8.30nm
                 i       13 43.40
LDF    151.96   2 ePKP   13 30.10    6.4X
         1.0s    12.00nm
GRR    152.13   3 ePKP   13 30.60    6.7X
HAU    152.31 353 ePKP   13 31.10    6.9X
BSF    152.43 352 ePKP   13 31.20    6.7X
LPF    152.48   4 ePKP   13 31.40    7.0X
         0.9s    16.40nm
LOR    153.26 357 ePKP   13 33.30    7.7X
         0.8s     4.05nm
SSF    153.48 357 ePKP   13 33.90    8.1X
         0.8s     5.35nm
    S.D. = 1.0  on  46 of  72 obs.
----------------------------------------
?  JUL  01, 1991  13h 16m 45.23±22.19s
   42.283 N ±105.km  129.328 W ±143.km
   DEPTH =  10.0km  (geophysicist)
 OFF COAST OF OREGON              ( 30)

LVP      6.25  50 P      18 19.95    0.1
VBEM     6.26  61 P      18 20.24    0.2
MTMW     6.34  51 P      18 20.76   -0.3
FL2      6.36  50 P      18 21.44    0.1
ERK      6.43  49 P      18 22.09   -0.3
JLK      6.44  51 P      18 22.39   -0.1
CPW      6.44  41 P      18 22.13   -0.4
REMW     6.45  50 P      18 23.39    0.6
STD      6.45  50 P      18 22.61   -0.1
ESD      6.47  50 P      18 23.24    0.2
CDFW     6.48  51 P      18 22.83   -0.3
SOSW     6.50  50 P      18 23.68    0.3
APM      6.50  55 P      18 23.66    0.3
TDL      6.52  49 P      18 23.44   -0.3
KOSW     6.60  48 P      18 24.86    0.1
CROR     6.63  63 P      18 24.73   -0.4
LMW      6.67  47 P      18 26.22    0.4
VIPM     6.72  68 P      18 26.85    0.3
ASR      6.77  53 P      18 27.10   -0.1
GLK      6.99  50 P      18 30.24    0.0
RVC      7.02  46 P      18 30.86    0.3
WPW      7.10  49 P      18 31.82    0.0
GL2      7.14  56 P      18 31.89   -0.4
FMW      7.17  47 P      18 32.78   -0.1
GSM      7.28  45 P      18 34.30    0.1
HTW      7.69  42 P      18 39.91    0.0
    S.D. = 0.3  on  26 of  26 obs.
----------------------------------------
&  JUL  01, 1991  13h 28m 13.30s
   58.163 N            142.771 W
   DEPTH =  10.0km  (geophysicist)
   3.3mb (  1 obs.)
 GULF OF ALASKA                   ( 15)
      <AEIC>. ML 2.8 (AEIC).

YKU      2.11  47 eP     28 44.63   -4.4
MID      2.25 306 eP     28 45.69   -5.4
WAX      2.29 359 iP     28 46.61   -5.2
HMT      2.31 341 eP     28 46.32   -5.7
PNL      2.31  48 eP     28 46.89   -5.1
HON      2.40  56 eP     28 48.01   -5.3
                 S       29 14.98
BCPM     2.42  41 eP     28 48.67   -4.8
RAGM     2.44 337 eP     28 48.60   -5.2
TGL      2.60 359 iP     28 50.94   -5.3
                 eS      29 19.48
CROM     2.61 356 iP     28 50.90   -5.5
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SGAM     2.66 333 eP     28 52.06  -4.9
CVA      2.84 329 eP     28 53.52  -5.9
BALM     2.89   4 eP     28 55.17  -5.2
                eS     29 27.29
CTGM     2.90  14 eP     28 55.50  -5.1
HIN      2.95 321 eP     28 55.66  -5.4
                S      29 27.47
MTU      3.11 308 eP     28 57.47  -5.9
LTI      3.23 308 iP     28 58.90  -6.1
GLB      3.33 351 iP     29 00.84  -5.7
KNIM     3.36 313 eP     29 00.55  -6.4
                eS     29 37.43
VLZ      3.48 330 eP     29 02.54  -6.0
VZW      3.48 328 eP     29 02.59  -6.1
KLU      3.70 336 iP     29 05.93  -5.9
TOA      4.30 338 eP     29 14.85  -5.5
SCM      4.33 330 eP     29 14.81  -6.0
KNK      4.34 321 eP     29 14.75  -6.1
SLKM     4.48 305 eP     29 16.54  -6.3
SDG      4.59 344 eP     29 18.61  -5.7
SML      4.60 325 eP     29 18.59  -5.9
CNPM     4.60 291 eP     29 19.63  -4.9
PLRM     4.70 320 eP     29 20.07  -5.8
GHO      4.76 322 eP     29 19.72  -7.1
YKA     14.54  61 eP     31 50.70  10.0
       0.8s     0.60nm          3.3mb
       32 obs. associated
-----------------------------------------
   JUL  01, 1991  13h 32m 41.60± 1.55s
   15.797 S ± 4.7km   75.016 W ± 5.2km
   DEPTH =  21.4 ± 10.7 km
   5.4mb ( 40 obs.)  5.9Msz ( 26 obs.)
 NEAR COAST OF PERU                (115)
      Ms 5.6 (BRK), Mo=1.6*10**18 Nm
      (PPT). Felt (III) in the Marcona
      area.
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used  GDSN
      L.P.B.: 22S, 54C
      Centroid Location:
      Origin Time        13:32:47.8 0.2
      Lat 15.88S 0.03 Lon  75.01W 0.05
      Dep  15.0 BDY Half-duration  3.5
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 4.26 0.19   Mtt=-1.23 0.14
        Mff=-3.03 0.28   Mrt= 1.84 0.33
        Mrf=-9.54 0.34   Mtf= 3.43 0.14
       Principal Axes:
        T  Val= 10.84   Plg=55   Azm= 94
        N        0.27       14       343
        P      -11.11       31       245
      Best Double Couple:Mo=1.1*10**18
       NP1:Strike=296 Dip=18 Slip=  41
       NP2:        166      78       104
ARE      3.45 102 iPc    33 34.50  -1.1
                i(S)   34 19.50
HUA      3.75 355 eP     33 43.70   3.7X
PT08     4.09 338 eP     33 49.70   4.9X
PT10     4.16 333 iPd    33 46.00   0.6
                i      33 57.50
                e(S)   34 50.00
NNA      4.18 335 iPd    33 44.40  -1.4
       0.7s   239.73nm
                i      33 57.00
                eS     34 42.50
ZOBO     6.64  95 Pc     34 22.00   0.9
LPB      6.69  97 Pc     34 23.80   2.3
       1.2s  2718.75nm          7.1mb X
CNCB     6.83  99 Pc     34 23.50  -0.2
CCH      8.65 102 P      34 50.50   1.6
                (S)    36 43.00
SIV     13.42  93 Pd     35 47.80  -5.6X
RTLL    16.58 160 ePd    36 33.00  -1.4
ZON     16.71 161 e(P)   36 35.00  -1.1
PSO     17.03 352 eP     36 45.50   4.9X
IHA     17.42 170 eP     36 47.50   2.5
PEL     17.71 168 iPd    36 47.50  -1.1
BOG     20.31   3 iPc    37 21.00   1.5
                iS     41 59.50
FUQ     21.17   4 eP     37 33.00   4.7X
ITB1    21.24 118 Pc     37 18.00 -10.6X
BMG     22.80   5 iPc    37 44.80   0.4
UPA     25.02 349 ePc+   38 08.00   2.3
       0.8s    28.36nm          5.0mb
     Z  18s     17.01um          5.6Msz
ECO     25.42 349 (P)    38 09.00  -0.6
VAO     27.38 110 eP     38 27.00  -0.6
                e      38 41.30
                e      38 53.20
TRN     29.53  28 eP     38 46.00  -1.0
RDJ     30.77 108 iP+    39 00.00   2.0
SOB1    33.92  83 eP     39 23.70  -1.9
CAI     38.23  80 iPc    39 59.80  -2.3
PRM     50.09 352 P      41 36.40  -0.7
JSC     50.15 353 ePc    41 36.80  -0.7
LHS     50.30 354 P      41 37.60  -1.0
BLA     52.97 355 ePc    41 58.00  -0.8
CVL     53.59 357 P      42 02.70  -0.6
NA2     53.70 357 P      42 04.20   0.2
TUL     55.06 339 iPc    42 12.40  -1.8
       1.0s    154.00nm          6.0mb
     Z  20s      2.82um          5.3Msz
                e      59 59.00
                LR     02 23.00
MEO     55.06 336 iPd    42 12.30  -2.0
FVM     55.42 345 iPd    42 15.00  -1.8
LVNJ    56.32   0 P      42 22.00  -1.1
GMTN    56.39   1 iP     42 23.60  -0.1
PNJ     56.42   1 iP     42 24.10   0.3
TBR     56.65   1 P      42 25.40  -0.1
CLE     57.31 354 iP     42 29.70  -0.5
WVLY    58.07 357 P      42 34.60  -0.9
ALQ     58.63 330 ePc    42 39.00  -0.9
       1.0s     27.50nm          5.3mb
ANMO    58.64 330 ePc    42 40.00   0.1
       1.0s    162.50nm          6.1mb
GLD     62.02 334 P      43 03.00   0.0
GOL     62.04 334 ePd    43 02.60  -0.6
       1.1s     64.10nm          5.7mb
BAR     62.53 321 eP     43 06.00  -0.3
PLM     63.11 321 eP     43 10.00  -0.3
TPC     63.16 322 eP     43 11.00   0.6
RVR     63.86 321 eP     43 17.00   2.0
MSU     64.27 328 P      43 18.40   0.5
MWC     64.43 321 eP     43 22.00   3.0X
GSC     64.44 323 eP     43 19.00   0.2
PAS     64.45 321 eP     43 23.00   4.2X
SBB     64.61 322 eP     43 20.00   0.0
MBO     64.74  65 iPd    43 22.90   1.9
RSSD    65.25 337 iPd    43 24.20   0.1
CLC     65.26 323 eP     43 25.00   0.9
DAU     65.28 330 P      43 24.40  -0.1
ISA     65.67 322 eP     43 27.00   0.3
SYP     65.81 320 eP     43 38.00  10.3X
DUG     65.87 329 P      43 29.00   1.0
BW06    66.37 333 ePc    43 30.20  -1.1
TNP     66.63 325 iPd    43 33.60   0.5
FRI     67.30 322 eP     43 41.70   4.7X
PRI     67.30 321 eP     43 38.80   1.6
LLA     67.78 321 eP     43 38.10  -2.0
PRS     67.85 321 eP     43 37.20  -3.4X
CMB     68.40 323 eP     43 44.20   0.2
MHC     68.68 322 eP     43 38.00  -7.9X
GCC     68.69 321 e(P)   43 37.30  -8.4X
BKS     69.39 322 iPd    43 54.00   4.0X
     Z  20s      3.30um          5.6Msz
     N  20s      2.30um
     E  20s      3.80um
                iS     52 59.00
                eSS    57 36.00
                eLQ    03 02.00
                eLR    06 24.00
LRM     70.05 333 eP     43 53.80  -0.4
ORV     70.07 323 eP     43 55.70   1.6
SCH     70.68   5 ePc    43 56.20  -1.4
       1.0s     57.00nm          5.7mb
WDC     71.35 324 eP     44 01.00  -0.9
LIC     72.64  78 P      44 08.40  -1.7
       1.0s     35.00nm          5.4mb
     Z  19s     15.00um          6.3Msz
                S      53 30.00
TIC     72.78  78 P      44 09.14  -1.8
       1.3s     65.00nm          5.5mb
KIC     72.95  78 P      44 10.46  -1.5
       0.9s     50.00nm          5.6mb
NEW     73.98 332 e(P)   44 17.60   0.3
       1.1s     49.38nm          5.5mb
NVL     74.17 160 ePd    44 17.00  -1.0
                e      44 24.00
                ePcP   44 31.00
                e      44 46.00
                e      44 59.00
                e      45 05.00
                e      45 14.00
                e      45 31.00
                e      46 14.00
                e      46 35.00
                ePP    47 10.00
                e      52 54.00
                eS     53 50.00
                ePS    54 19.00
                e      54 52.00
                e      55 05.00
                e      55 28.00
                e      56 27.00
                e      57 50.00
                e      58 10.00
                eSS    58 30.00
                e      01 20.00
DPW     74.18 331 P      44 19.60   1.1
SPA     74.30 180 iPc    44 18.70  -0.4
       0.8s     15.83nm          5.1mb
PNT     75.88 332 eP     44 29.00   0.9
       0.9s     29.00nm          5.3mb
PGC     77.23 329 eP     44 37.00   1.4
FRB     79.45   3 eP     44 46.00  -1.4
TIO     79.93  54 iP     44 52.40   1.4
                i      45 08.50
SBA     80.33 191 P      44 53.10   0.9
AVE     80.83  52 iP     44 57.00   1.5
                i      45 13.50
IFR     82.65  52 iP     45 06.20   0.9
EVAL    83.17  48 eP     45 09.00   1.4
NKM     83.24  50 eP     45 02.00  -6.0X
                i      45 05.00
                i      45 10.00
EJIF    83.62  49 iPc    45 12.00   2.1
YKA     83.98 343 eP     45 09.60  -1.6
       1.0s      7.20nm          4.9mb
EPRU    84.00  49 eP     45 13.50   1.6
EHOR    84.35  48 iPc    45 14.20   0.6
MAL     84.50  50 iPc    45 16.00   1.6
                iS     55 42.00
EPLA    84.72  46 eP     45 16.50   1.1
TUH     84.88 123 eP     45 17.00   0.6
       0.3s     31.17nm          6.0mb
CER     84.98 123 iPd    45 15.40  -1.6
       0.7s     12.50nm          5.3mb
EBAN    85.54  48 eP     45 20.50   0.9
GUD     86.29  46 eP     45 25.70   2.3
EVIA    86.66  48 eP     45 26.00   0.8
ETOR    87.83  47 iPc    45 31.80   1.1
ECHE    88.12  48 eP     45 33.00   0.9
EROQ    89.56  47 eP     45 38.00  -0.9
EBR     89.62  47 eP     45 40.00   0.9
                e      56 16.00
                e      56 32.00
EPF     90.31  45 eP     45 42.30  -0.1
HVD     90.82 122 iPc    45 43.20  -2.1
       0.7s     13.70nm          5.4mb
FRS     90.96 121 iPc    45 44.70  -1.0
       0.7s     20.55nm          5.6mb
LPF     91.27  40 eP     45 45.70  -0.9
       1.0s     16.00nm          5.3mb
LFF     91.27  44 eP     45 46.10  -0.6
       1.2s     35.70nm          5.6mb
MFF     91.30  42 eP     45 46.20  -0.6
MAW     91.36 165 eP     45 47.00   0.2
       0.8s     13.00nm          5.3mb
LPO     91.48  44 eP     45 47.00  -0.7
       1.1s     19.55nm          5.4mb
GRR     91.52  40 eP     45 46.90  -0.8
       1.1s     14.65nm          5.3mb
FLN     91.89  40 eP     45 48.80  -0.6
       1.1s     22.00nm          5.5mb
     Z  19s      5.25um          6.0Msz
RJF     91.92  43 eP     45 48.80  -0.9
       1.1s     19.55nm          5.4mb
LDF     92.05  40 eP     45 49.60  -0.6
       1.1s     19.55nm          5.4mb
CAF     92.15  44 eP     45 50.20  -0.6
       1.1s     17.10nm          5.4mb
LSF     92.26  42 eP     45 50.50  -0.7
TCF     92.71  43 eP     45 52.60  -0.7
       1.0s     10.00nm          5.2mb
MAF     92.92  43 eP     45 53.70  -0.6
       1.3s     19.85nm          5.4mb
KSR     93.54 118 eP     45 55.50  -2.4
       1.0s     15.00nm          5.4mb
AVF     93.62  42 eP     45 56.60  -0.9
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01d 13h

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INK     93.68 341 eP     45 57.00  -0.3
                  pP     46 11.00  47kmX
SSF     93.81  42 eP     45 57.40  -0.9
SMF     93.89  43 eP     45 58.10  -0.6
        1.2s    23.80nm          5.5mb
LBF     94.09  42 eP     45 58.80  -0.9
LOR     94.11  42 eP     45 58.80  -0.9
      Z  18s     4.75um          6.0Msz
SLR     94.76 118 iPc    46 01.50  -1.9
      Z  18s     3.44um          5.9Msz
KLU     94.95 333 P      46 03.50   0.1
DOU     95.46  40 Pc     46 07.50   1.7
      Z  19s     3.30um          5.8Msz
                  PP     49 56.00
                  SKS    56 48.00
                  S      57 22.00
LPL     95.46  44 eP     46 06.50   0.2
        1.0s    14.00nm          5.4mb
LPG     95.47  44 eP     46 06.50   0.1
        1.0s    12.00nm          5.3mb
UCC     95.53  39 P      46 06.00  -0.1
                  SKS    56 45.00
MBC     95.62 350 ePd    46 06.80   0.7
        1.4s    18.00nm          5.3mb
BSF     96.17  42 eP     46 08.50  -0.8
BFT     96.26 119 iPc    46 11.50   1.1
        0.6s    16.67nm          5.7mb
WLF     96.29  40 P      46 11.00   1.4
DBN     96.42  38 eP     46 08.00  -2.1
      Z  20s     2.00um          5.6Msz
                  ePP    49 55.00
                  eSKS   56 50.00
                  ePS    58 52.00
ENN     96.47  39 eP     46 11.00   0.6
        1.4s    33.00nm          5.6mb
CDF     96.64  42 eP     46 10.60  -0.8
        1.0s    12.00nm          5.4mb
FBA     97.07 336 eP     46 12.70  -0.1
        1.2s    27.72nm          5.7mb
                  pP     46 41.80 110kmX
WTS     97.35  38 eP     46 15.00   0.7
        1.0s    11.00nm          5.4mb
MOX     99.94  40 iP+    46 27.00   0.8
      Z  19s     3.50um          5.9Msz
      N  19s     2.60um
KHC    100.86  42 Pdiff  46 30.20  -0.2
        1.3s     6.00nm          5.0mb
      Z  18s     3.20um          5.9Msz
      N  16s     0.80um
      E  18s     2.80um
                  e      46 38.00
                  SKS    57 15.00
CLL    100.94  40 ePdiff46 30.00  -0.6
        1.7s    26.00nm          5.5mb
      Z  17s     4.50um          6.0MszX
                  eSKS   57 11.00
BRG    101.43  40 ePdiff46 35.30   2.4X
      Z  18s     3.00um          5.9Msz
      N  18s     1.50um
      E  18s     3.00um
                  e      57 16.00
PRU    101.64  41 Pdiff  46 35.30   1.5
      Z  18s     3.10um          5.9Msz
      N  18s     1.80um
      E  18s     1.50um
                  e      47 23.80
                  PP     50 42.00
                  SKS    57 16.00
                  eS     58 18.00
                  SS     05 20.00
KRA    105.10  42 ePdiff46 54.00   4.8X
      Z  20s     3.20um          5.9Msz
      E  20s     3.50um
                  eS     57 54.00
ITU    110.71  52 ePKP   51 20.00   5.4X
OBN    115.16  36 ePKP   51 23.00   0.3
      Z  20s     3.30um          5.9Msz
      N  20s     0.70um
      E  20s     2.80um
                  ePP    52 20.00
                  e      55 09.00
                  eSKS   58 08.00
                  eSKKS  59 18.00
                  iPS    02 00.00
                  ePPS   03 14.00
                  iSS    08 11.00
                  e      09 48.00
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                  LQ     19 30.00
                  LR     30 00.00
STK    121.01 216 ePKP   51 33.60  -1.0
        0.7s     1.60nm
OIS    130.39 224 iPKPd  51 52.60  -0.4
WB2    134.23 220 iPKPc  52 00.00  -0.3
                  e      53 29.60
                  e      54 06.40
MAIO   134.80  54 ePKP   52 03.00   2.0X
                  e      54 41.00
IRK    143.61   1 ePKP   52 12.00  -4.4X
CHJJ   143.63 310 PKP    52 20.10   3.1X
MAT    143.99 311 ePKP   52 14.00  -3.6X
      Z  20s    14.18um          6.7Msz
MTMJ   144.26 312 PKP    52 16.00  -2.2X
MDJ    144.54 329 ePKP   52 16.30  -1.9
      Z  24s     1.50um          5.7MszX
      N  18s     0.67um
      E  16s     0.85um
                  PP     55 38.30
                  SS     14 27.00
KSH    145.40  41 PKP    52 21.00   1.0
      E  16s     3.70um
TSRJ   146.06 311 PKP    52 23.90   2.8X
CN2    147.11 332 PKPc   52 22.00  -0.5
        5.0s   600.00nm
      Z  20s     5.64um          6.3Msz
      N  20s     1.90um
      E  20s     2.06um
                  PKPab  52 25.00
                  epPKP  52 32.00
                  PP     55 49.00
                  eSS    14 48.00
WMQ    148.43  24 ePKP   52 26.00   1.3
      Z  20s     1.80um          5.9Msz
      N  18s     2.00um
SHK    148.92 312 ePKP   52 30.60   4.9X
SNY    149.51 332 PKPc   52 27.00   0.7
      Z  22s     2.30um          5.9Msz
      E  18s     2.20um
                  PP     56 05.00
POO    150.15  80 ePKP   52 31.50   3.5X
NDI    151.36  59 iPKPc  52 32.00   2.5X
        1.0s    50.00nm
DL2    152.73 331 ePKP   52 34.00   2.8X
      Z  20s     1.20um          5.7Msz
      N  18s     1.40um
GBA    153.27  91 PKPd   52 33.20   0.6
        1.1s    12.90nm
BJI    153.95 340 ePKP   52 33.50   0.7
      Z  22s     1.54um          5.8Msz
      E  18s     1.23um
HHC    154.39 348 PKP    52 35.20   1.6
      Z  20s     3.40um          6.2Msz
      N  18s     1.00um
      E  18s     1.70um
                  PKPab  53 00.00
                  PP     56 33.00
                  SKKS   03 20.00
                  SS     16 11.00
HYB    154.63  83 ePKP   52 33.00  -1.4
                  e      56 12.00
BTO    154.90 351 ePKP   52 33.00  -1.2
        7.0s   700.00nm
      N  20s     1.90um
      E  20s     2.00um
                  PP     56 33.50
                  eSKKS  03 18.50
GTA    156.04  10 PKPc   52 36.80   0.9
        1.4s    30.00nm
      Z  22s     2.30um          6.0Msz
      N  20s     2.00um
                  PKPab  53 02.40
TIA    156.97 334 PKP    52 38.40   1.4
      Z  22s     1.70um          5.8Msz
      E  18s     1.30um
TIY    157.20 345 PKPc   52 38.00   0.6
      Z  20s     2.75um          6.1Msz
      N  19s     2.34um
GKN    157.59  54 PKP    52 26.15 -12.1X
DAV    158.06 249 ePKP   52 40.00   1.1
DMN    158.15  54 PKP    52 26.86 -12.2X
KKN    158.19  54 PKP    52 25.32 -13.7X
PKI    158.40  54 PKP    52 26.72 -12.7X
GUN    158.59  53 PKP    52 23.06 -16.6X
SSE    158.76 319 PKPc   52 39.00  -0.2
        5.0s   900.00nm
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      N  18s     0.70um
                  sPKP   52 52.00
                  PKPab  53 14.00
                  PP     56 54.00
NJ2    159.48 324 PKPc   52 40.00   0.0
      Z  20s     1.20um          5.7Msz
      E  19s     1.50um
                  PKPab  53 19.00
                  PP     57 00.00
                  SS     17 04.00
LZH    159.77   3 PKPc   52 41.00   0.5
        7.0s   840.00nm
      Z  25s     1.59um          5.8MszX
      E  19s     1.88um
                  pPKP   52 51.00
                  PKPab  53 20.00
                  PP     57 01.00
LSA    161.21  40 PKP    52 43.90   1.4
        8.0s   970.00nm
      N  22s     9.45um
                  PKPab  53 30.00
                  PP     57 09.50
XAN    161.49 350 ePKP   52 43.00   0.9
ANP    161.93 304 ePKP   52 48.00   5.2X
WHN    163.00 331 ePKP   52 45.50   1.9X
        6.0s   900.00nm
      Z  20s     0.80um
      E  20s     1.70um
                  ePKPab53 34.00
                  PP     57 18.00
                  SS     17 42.00
OZH    164.34 308 ePKP   52 47.00   1.9X
      Z  24s     1.26um
      N  19s     1.21um
                  PKPab  53 42.00
CD2    164.91   4 ePKP   52 46.80   1.3
      Z  21s     1.70um
                  PP     57 26.00
                  SS     18 00.00
BAG    165.00 274 ePKP   52 47.00   0.9
GYA    169.28 352 PKP    52 51.40   2.5X
      N  22s     1.80um
      E  22s     2.40um
                  PKPab  54 05.00
                  PP     57 50.00
                  SS     18 45.00
GZH    169.29 314 PKP    52 52.50   3.7X
        6.0s  1020.00nm
                  PKPab  54 06.00
                  PP     57 54.00
                  SS     18 50.00
SNG    170.42 153 ePKP   52 51.00   1.3
                  e      57 40.00
                  e      18 53.50
KMI    170.49  12 PKPd   52 52.00   2.3X
        9.0s   600.00nm
      Z  22s     2.30um
                  PKPab  54 02.00
                  PP     57 54.00
OIZ    174.36 305 PKP    52 55.00   3.9X
        7.0s  1200.00nm
      N  22s     1.90um
      E  22s     2.60um
                  PKPab  54 27.00
                  PP     58 18.50
      S.D. = 1.1  on 159 of 199 obs.
-----------------------------------
*  JUL  01, 1991  13h 42m 24.06± 0.66s
   52.689 N ±10.7km  160.095 E ±11.4km
   DEPTH =  33.0km  (normal)
   4.7mb ( 16 abs.)
 OFF EAST COAST OF KAMCHATKA      (219)

OFUJ    18.63 230 eP     46 41.70   0.9
YAK     18.69 312 eP     46 41.10  -0.3
                  e      50 21.00
MDJ     21.58 260 eP     47 12.40  -0.2
MAT     22.30 232 eP     47 20.00   0.1
CN2     24.52 263 eP     47 40.00  -1.4
FBA     28.71  44 e(P)   48 20.20   0.4
        1.0s     0.40nm          3.1mb X
NJ2     36.13 252 Pc     49 26.20   1.5
MBC     37.41  23 eP     49 35.00  -0.1
        1.0s     9.00nm          4.6mb
LZH     42.34 270 eP     50 16.00  -0.5
        1.0s    18.00nm          4.8mb
YKA     43.46  42 eP     50 23.40  -1.7
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        0.7s      0.90nm          3.6mb X
WMQ    47.11 290 eP     50 53.50  -1.0
KEV    53.20 341 eP     51 38.00  -2.6
SOD    55.28 340 iP     51 55.20  -0.7
CHG    57.82 259 eP     52 14.50  -0.1
CHTO   57.82 259 iPc    52 14.90   0.3
        0.8s      5.86nm          4.7mb
NUR    61.65 337 iP     52 40.30  -0.1
        0.7s     17.40nm          5.3mb
                  e     57 44.00
                  e     01 00.00
NB2    63.93 344 P      52 54.50  -1.1
        1.0s      8.50nm          4.8mb
HFS    64.34 342 eP     52 57.20  -0.9
        1.0s      7.60nm          4.7mb
CLL    72.73 339 iPc    53 51.40   1.2
BRG    72.93 338 e(P)   54 05.20  13.8X
KHC    74.65 338 P      54 03.50   2.0
MEM    74.77 343 P      54 02.20   0.1
GBA    74.87 273 Pd     54 02.90  -0.2
        0.8s      8.20nm          4.8mb
WRA    75.71 205 P      54 06.00  -1.8
        0.8s      3.10nm          4.4mb
KBA    76.63 337 e(P)   54 14.00   1.1
        0.8s     12.80nm          5.0mb
                  i     54 14.30
                  i     54 28.70
                  i     54 38.40
CDF    76.65 342 eP     54 13.00   0.1
        0.8s      5.35nm          4.6mb
LOR    78.37 344 eP     54 22.40   0.1
        0.8s      2.70nm          4.3mb
SSF    78.63 344 eP     54 23.80   0.1
        0.7s      3.30nm          4.5mb
AVF    78.92 344 eP     54 25.60   0.3
        1.0s      8.00nm          4.7mb
SMF    78.98 344 eP     54 25.90   0.3
LPL    79.54 341 eP     54 30.20   1.2
        0.8s      8.05nm          4.8mb
LPG    79.55 341 eP     54 30.30   1.2
        0.8s     10.75nm          4.9mb
MAF    79.60 344 eP     54 29.90   0.9
        0.7s      3.30nm          4.4mb
CAF    80.95 344 eP     54 37.30   1.1
     S.D. = 1.1  on  33 of  34 obs.
-----------------------------------
*  JUL  01, 1991  14h 15m 30.64± 1.26s
   54.782 S ±15.2km  158.389 E ±13.8km
   DEPTH =  33.0km  (normal)
   4.5mb (  3 obs.)
 MACQUARIE ISLANDS REGION          (167)

TLC    11.79  40 P      18 17.80  -1.7
MSZ    11.84  35 eP     18 21.40   1.4
TAU    13.92 324 eP     18 46.00  -1.5
                  eS    21 18.00
TOO    19.34 328 eP     19 57.90   2.0
CAN    20.53 338 eP     20 09.70   1.1
                  eTT   38 58.00
BFD    20.68 322 eP     20 09.00  -1.1
                  i     20 13.20
STK    25.81 326 eP     21 01.60   1.3
        0.7s      2.60nm          3.9mb
ASPA   36.03 320 iPc    22 30.60   0.0
        0.9s     13.60nm          4.9mb
WB2    39.28 323 iPd    22 57.10  -0.7
                  e     24 30.60
                  i     25 39.40
WRA    39.28 323 P      22 57.00  -0.9
        1.1s     10.00nm          4.5mb
NVL    52.49 193 ePd    24 42.00   0.1
     S.D. = 1.4  on  11 of  11 obs.
-----------------------------------
?  JUL  01, 1991  14h 42m 31.74± 1.29s
   11.239 N ±20.2km  139.148 E ±20.3km
   DEPTH =  33.0km  (normal)
   4.4mb (  3 obs.)
 WEST CAROLINE ISLANDS             (209)

GUMO    6.05  67 eP     44 01.60   0.2
        1.0s    160.00nm          5.6mb X
                  e     44 04.40
PJG     6.05  67 eP     44 01.20  -0.2
GUA     6.08  67 eP     44 01.60  -0.1
        1.0s    192.00nm          5.7mb X
ASPA   35.07 188 eP     49 23.60  -0.3
        0.7s      4.90nm          4.5mb
STK    42.94 177 iPd    50 29.60   0.4
        0.7s      1.90nm          3.9mb
YKA    87.47  27 eP     55 17 10   0.0
        0.7s      2.50nm          4.6mb
     S.D. = 0.3  on   6 of   6 obs.
-----------------------------------
&  JUL  01, 1991  14h 46m 19.04s
   58.542 N          152.296 W
   DEPTH =   8.1km
 KODIAK ISLAND REGION              ( 13)
      <AEIC>. ML 2.6 (AEIC).

SYI     0.08 324 iP     46 21.29   0.0
                  iS    46 23.13
CDD     0.80 300 iP     46 33.52  -1.3
                  iS    46 44.93
KDC     0.80 188 eP     46 33.98  -0.8
                  eS    46 45.55
XLV     0.96  18 eP     46 35.60  -1.9
                  eS    46 48.20
AUI     0.99 324 eP     46 36.71  -1.2
                  eS    46 49.96
AUE     0.99 326 eP     46 37.12  -0.9
AUH     1.02 325 eP     46 37.48  -1.0
CNPM    1.13  29 eP     46 38.63  -1.7
HOM     1.17  16 eP     46 39.35  -1.7
MCNL    1.24 302 eP     46 41.15  -1.1
BRLK    1.43  30 eP     46 43.27  -2.0
PDB     1.59 323 iP     46 46.22  -1.2
                  eS    47 06.41
NNL     1.59  18 eP     46 47.60   0.1
RSO     1.94 353 eP     46 51.50  -1.3
RS2     1.94 353 eP     46 50.77  -2.0
REF     1.96 354 eP     46 51.17  -2.0
RDT     2.04 358 eP     46 52.57  -1.5
                  eS    47 18.40
NCT     2.05 351 eP     46 53.15  -1.2
DFR     2.07 355 eP     46 53.71  -0.8
SEW     2.14  42 eP     46 54.31  -1.2
SLKM    2.24  27 eP     46 56.10  -0.9
SPU     2.65   3 eP     47 01.74  -1.1
LTI     2.73  55 eP     47 01.83  -2.1
CGLM    2.78   3 eP     47 02.87  -1.8
NCG     2.87   1 eP     47 06.64   0.6
KNIM    2.95  50 eP     47 04.96  -2.1
       26 obs. associoted
-----------------------------------
?  JUL  01, 1991  16h 41m 36.68± 2.23s
   29.908 S ±16.7km  178.755 W ±26.2km
   DEPTH = 424.4 ± 21.5 km
   4.7mb (  5 obs.)
 KERMADEC ISLANDS                  (178)

HBZ     8.05 197 eP     43 34.20   0.7
PUZ     8.51 196 eP     43 38.70  -0.1
MNG    11.67 202 eP     44 09.60  -4.9X
                  eS    46 18.40
MRW    12.49 203 eP     44 23.00  -0.2
                  eS    46 38.00
KHZ    13.94 204 eP     44 37.80  -1.0
                  eS    47 06.40
DZM    15.42 297 iPd    44 53.80  -0.7
BRS    25.09 269 iPd    46 28.00   0.9
RMO    28.78 269 eP     47 00.80   1.0
CMS    30.42 258 eP     47 14.00   0.0
STK    33.96 256 eP     47 44.90   0.9
        0.9s      5.30nm          3.9mb
ASPA   42.49 267 iPd    48 53.80  -0.4
        1.0s     31.30nm          4.6mb
WB2    43.41 272 iPc    49 00.70  -0.9
                  i     49 09.70
                  e     49 24.40
                  i     50 45.00
                  eS    54 53.10
WRA    43.42 272 P      49 00.00  -1.6
        0.6s     38.80nm          5.0mb
NANU   58.71 260 iPd    50 54.90   0.8
CGP    66.36 296 eP     51 44.50   0.7
        1.0s     31.00nm          4.9mb
MAT    77.47 326 eP     52 48.00   0.0
        1.0s     13.00nm          4.6mb
OBN   144.39 325 iPKPc  00 26.90   2.8X
        1.0s    *******nm
NB2   148.17 351 PKP    00 37.10   7.0X
        0.7s     11.00nm
HFS   148.63 348 ePKP   00 38.20   7.4X
        0.9s     20.00nm
HRI   150.50 285 iPKPd  00 45.70  11.0X
MML   150.73 284 iPKPd  00 46.40  11.5X
MBH   150.88 278 iPKPd  00 46.30  11.0X
     S.D. = 0.9  on  15 of  22 obs.
-----------------------------------
%  JUL  01, 1991  18h 08m 17.20± 0.90s
   39.759 N ± 5.1km   16.489 E ± 7.7km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN ITALY                    (390)

TDS     0.15 229 Pd     08 20.70  -0.1
                  eSg   08 23.30
CSI     0.15 277 P      08 20.60  -0.2
ROI     0.20 162 P      08 21.80   0.2
ORI     0.31 354 P      08 23.40  -0.2
                  eSg   08 29.00
MMN     0.41 289 P      08 25.60   0.1
CZI     0.61 207 P      08 29.10  -0.3
MGR     0.81 298 P      08 33.20   0.3
     S.D. = 0.3  on   7 of   7 obs.
-----------------------------------
?  JUL  01, 1991  18h 36m 59.43± 1.00s
   40.319 N ±19.2km   27.770 E ±11.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      MD 2.4 (ISK).

EDC     0.08  69 iPg    37 02.00   0.1
BNT     0.12  72 iPg    37 02.30  -0.1
                  eSg   37 05.80
CTT     0.97  31 ePg    37 17.80   0.0
EZN     1.21 246 ePn    37 22.00   0.0
     S.D. = 0.2  on   4 of   4 obs.
-----------------------------------
?  JUL  01, 1991  19h 08m 46.09± 1.06s
   21.068 S ±10.6km   68.657 W ±14.2km
   DEPTH =  33.0km  (normal)
 CHILE-BOLIVIA BORDER REGION       (124)

ANT     3.09 211 eP     09 33.50  -0.1
                  i     09 58.50
                  i     10 20.00
CNCB    4.28   9 P     09 57.00   5.8X
CCH     4.37  33 eP     09 34.00 -18.2X
LPB     4.54   7 P     09 54.00  -0.8
ZOBO    4.80   6 P     10 03.00   4.5X
ARE     5.31 329 eP     10 06.00   0.5
                  iS    11 04.00
SIV     8.79  56 iP     10 54.30   0.4
     S.D. = 1.0  on   4 of   7 obs.
-----------------------------------
%  JUL  01, 1991  19h 21m 32.82± 0.78s
   46.386 N ± 8.6km    4.474 E ± 7.1km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                            (538)
      ML 2.8 (LDG).

SMF     0.51 301 Pg     21 43.20   0.1
                  Sg    21 51.60
LBF     0.69 330 Pg     21 46.60   0.1
                  Sg    21 57.40
AVF     0.87 298 Pg     21 49.80   0.2
                  Sg    22 02.70
SSF     0.95 316 Pg     21 51.60   0.7
                  Sg    22 06.20
LOR     0.98 335 Pg     21 51.70   0.3
                  Sg    22 06.70
BGF     1.14 279 Pn     21 53.30  -0.8
                  Pg    21 54.40
                  Sg    22 10.40
MAF     1.33 264 Pg     21 57.10  -0.3
                  Sg    22 15.10
TCF     1.57 267 Pn     21 59.00  -1.8
                  Pg    22 00.60
                  Sg    22 21.80
LPL     1.80 118 Pg     22 05.40   1.1
LPG     1.82 118 Pn     22 03.10  -1.6
                  Pg    22 06.10
                  Sg    22 26.00
CAF     2.23 230 Pg     22 12.60   2.2
     S.D. = 1.3  on  11 of  11 obs.
-----------------------------------
?  JUL  01, 1991  19h 43m 18.78± 9.83s
   45.941 N ±68.1km    4.850 E ±39.7km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                            (538)
      ML 1.8 (LDG).
```

01d 19h

```
SMF      0.99 316 Pg     43 37.20  -0.4
                  Sg     43 45.60
LBF      1.21 330 Pg     43 41.60   0.3
                  Sg     43 51.50
AVF      1.34 310 Pg     43 43.80   0.3
                  Sg     43 56.60
SSF      1.46 321 Pg     43 45.20   0.1
                  Sg     44 00.10
LOR      1.49 333 Pg     43 45.40  -0.3
                  Sg     44 00.50
     S.D. = 0.5  on   5 of   5 obs.
-----------------------------------------
*  JUL  01, 1991  20h 06m 36.34± 0.83s
   37.065 N ± 8.5km   29.580 E ± 6.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
     MD 3.4 (ISK).

ELL      0.41 140 iPg    06 44.50  -0.3
                  iSg    06 51.00
BCK      0.90  64 ePn    06 54.20   0.6
YER      1.04 274 ePn    06 55.90  -0.1
KHL      1.26 358 ePn    06 59.00  -0.7
CIN      1.30 295 eP     07 01.00   0.5
     S.D. = 0.8  on   5 of   5 obs.
-----------------------------------------
*  JUL  01, 1991  20h 18m 49.82± 0.57s
   10.355 N ± 7.3km  125.061 E ±10.5km
   DEPTH =  10.0km  (geophysicist)
   4.8mb (  3 obs.)  4.1Msz (  1 obs.)
 LEYTE, PHILIPPINE ISLANDS           (256)

PLP      0.81 354 iPd    19 04.00  -1.5
                  iS     19 13.50
MAP      1.06 268 iPc    19 09.00  -0.8
                  iS     19 29.00
CGP      1.92 191 ePc    19 23.50   0.6
                  eS     19 53.00
WHN     22.43 335 eP     23 49.50  -0.7
GYA     23.64 315 eP     24 07.00   4.7X
XAN     27.83 330 eP     24 41.50   0.1
CD2     28.46 319 eP     24 48.60   1.4
        0.8s    20.00nm          5.0mb
WB2     31.47 163 eP     25 12.50  -1.5
LZH     32.04 326 eP     25 20.00   0.9
        1.5s    23.00nm          4.9mb
      Z  18s     0.39um          4.1Msz
      E  10s     0.17um
                  pP     25 26.50  23kmX
SHL     34.87 300 eP     25 43.00  -0.8
ASPA    34.90 166 eP     25 43.20  -0.6
        0.9s     7.40nm          4.6mb
GTA     36.64 326 eP     25 5B.80   0.2
GUN     40.70 301 PKP    26 35.16   2.3
PKI     41.00 300 PKP    26 35.32   0.1
KKN     41.17 301 PKP    26 35.30  -1.2
DMN     41.27 300 PKP    26 33.98  -3.4X
GKN     41.78 301 PKP    26 33.94  -7.5X
YAK     51.68   3 eP     27 58.20  -0.6
DZM     51.82 129 iPc    28 01.00   0.4
INK     84.64  21 eP     31 24.00  -0.6
MBC     85.89  13 eP     31 33.00   2.3
     S.D. = 1.2  on  18 of  21 obs.
-----------------------------------------
   JUL  01, 1991  22h 22m 48.93± 0.45s
   34.371 N ± 6.9km   27.476 E ± 4.3km
   DEPTH =  10.0km  (geophysicist)
   4.1mb ( 14 obs.)
 EASTERN MEDITERRANEAN SEA           (371)
     ML 4.4 (CSS). MD 4.0 (HLW), 4.0
     (ATH).

NPS      1.77 301 ePn    23 26.00   6.2X
YER      2.84  13 ePn    23 36.10   1.0
ELL      3.09  39 iPn    23 39.50   0.7
CIN      3.26   9 eP     23 40.00  -1.1
BCK      3.99  38 iPn    23 52.20   0.8
IZM      4.02 358 eP     24 01.10   9.2X
PPCY     4.05  81 eP     23 52.50   0.3
                  eS     24 36.00
KHL      4.28  22 ePn    23 55.00  -0.6
VLI      4.38 304 ePn    24 00.00   3.0X
ATH      4.71 321 ePn    24 04.50   2.8X
CSS      4.86  81 eP     24 02.50  -1.4
                  eS     24 55.70
PRK      4.96 349 ePn    24 09.60   4.4X
HLW      5.57 143 ePn    24 17.10   3.3X
                  eS     25 18.00
KOT      5.76 139 ePn    24 18.00   1.5
                  eSn    25 19.00
ZNT      6.67 106 eP     24 29.40   0.0
                  eS     25 38.20
RDO      6.94 348 ePn    24 33.00   0.0
JVI      7.04 108 eP     24 33.90  -0.7
MKT      7.32 116 eP     24 38.10  -0.3
                  eS     25 53.40
MKRJ     7.41 110 Pc     24 39.30  -0.6
KZN      7.47 324 ePn    24 42.50   1.9
HSHJ     8.37 122 Pc     24 52.50  -0.7
SKO      8.95 330 eP     25 01.50   0.3
                  e      25 15.50
LCI      9.63 311 P      25 07.60  -3.0X
SQI      9.94 295 P      25 14.50  -0.3
ROI     10.15 304 P      25 16.00  -1.8
CZI     10.30 301 P      25 19.30  -0.4
TDS     10.35 304 P      25 21.00   0.6
BRT     10.41 312 P      25 18.50  -2.8
CSI     10.44 304 P      25 20.30  -1.4
ORI     10.46 306 P      25 20.00  -2.0
MEU     10.56 289 P      25 26.00   2.6
MMN     10.69 304 P      25 25.60   0.5
MGR     11.10 305 P      25 29.20  -1.6
SGO     11.47 306 P      25 34.60  -1.1
SDI     13.01 308 P      25 56.50   0.0
KBA     16.57 324 e(P)   26 42.00  -1.0
        1.3s    15.50nm          4.0mb
                  i      26 58.70
PGF     16.59 305 eP     26 48.90   5.7X
KHC     17.98 329 iP     27 00.00  -0.5
        1.4s    11.00nm          3.8mb
                  i      27 07.00
                  e      27 20.50
SBF     18.17 307 eP     27 04.10   1.2
        0.6s    10.80nm          4.2mb
PRU     18.27 333 eP     27 03.00  -1.0
                  e      27 09.50
BRG     19.21 333 e(P)   27 04.00 -11.5X
LPG     19.33 311 eP     27 18.60   1.2
LPL     19.36 311 eP     27 18.60   1.0
        0.5s     2.90nm          3.8mb
MOX     19.96 329 eP     27 23.50  -0.4
BSF     20.50 317 eP     27 30.10   0.4
CDF     20.56 319 eP     27 29.60  -0.8
HAU     20.85 317 eP     27 32.40  -0.8
SMF     21.66 312 eP     27 41.90   0.4
        0.8s     5.35nm          4.0mb
OBN     21.68  14 eP     27 43.00   1.5
                  i      27 58.00
LBF     21.73 312 eP     27 40.90  -1.3
        0.9s     7.35nm          4.1mb
WLF     21.90 321 P      27 55.00  11.3X
LOR     21.93 313 eP     27 43.20  -1.0
        0.7s     4.40nm          4.0mb
AVF     22.03 312 eP     27 45.40   0.3
SSF     22.05 312 eP     27 44.80  -0.5
        1.0s    14.00nm          4.4mb
BGF     22.24 311 eP     27 49.30   2.0
        0.6s     5.85nm          4.2mb
MEM     22.54 323 P      27 52.20   2.1
ENN     22.68 323 eP     27 54.00   2.5
        1.0s    19.00nm          4.5mb
DOU     22.97 320 P      27 56.10   1.7
MFF     24.17 309 eP     28 08.10   2.0
LDF     24.92 313 eP     28 13.00  -0.3
FLN     25.20 313 eP     28 15.80  -0.2
        0.5s     4.35nm          4.4mb
LPF     25.26 311 eP     28 15.90  -0.6
GRR     25.28 312 eP     28 16.20  -0.6
        0.7s     7.70nm          4.5mb
IFR     27.00 277 iP     28 37.50   4.4X
HFS     27.30 345 eP     28 35.00  -0.3
        0.2s     0.30nm          3.7mb
NB2     28.67 343 P      28 42.20  -5.5X
        1.0s     1.60nm          3.8mb
     S.D. = 1.2  on  54 of  66 obs.
-----------------------------------------
   JUL  01, 1991  22h 55m 45.97± 1.03s
    6.525 S ± 6.7km  154.936 E ± 7.3km
   DEPTH =  98.7 ±  9.8 km
   5.0mb ( 13 obs.)
 SOLOMON ISLANDS                     (193)

RAB      3.60 310 e(P)   56 40.50  -0.2
                  iS     57 38.00
HNR      5.74 121 P      57 11.00   0.7
                  S      58 18.00
LAT      7.89 269 eP     58 37.10  57.4X
DZM     19.04 145 iPd    00 02.60  -0.6
QIS     20.38 225 eP     00 16.00  -1.1
RMQ     20.71 196 iPd    00 20.40   0.0
WB2     24.03 234 iPc    00 54.00   1.0
                  e      01 07.90
                  i      04 34.40
ASPA    26.44 228 iPd    01 15.20  -0.4
        0.5s     9.50nm          4.6mb
STK     28.14 205 eP     01 24.70  -6.1X
        0.9s     0.70nm          3.3mb X
                  e      01 43.70
                  e      04 41.80
WARB    33.31 231 eP     02 16.10  -0.4
CN2     56.74 335 eP     05 19.50  -2.3
XAN     59.33 316 eP     05 39.20  -0.9
KMI     59.71 304 Pd     05 44.00   1.0
        2.0s    50.00nm          5.3mb
                  pP     05 55.50  39kmX
CHG     60.64 296 ePc    05 49.70   0.5
        1.1s    28.48nm          5.3mb
CHTO    60.64 296 iPc    05 49.60   0.4
        1.1s    25.62nm          5.2mb
CD2     61.47 310 eP     05 55.20   0.5
LZH     63.94 315 eP     06 11.00  -0.1
        1.0s    21.00nm          5.0mb
GTA     68.36 317 P      06 39.50   0.4
        1.2s    10.00nm          4.6mb
SHL     69.01 300 eP     06 50.40   7.0X
GUN     74.83 301 P      07 18.88   0.7
        0.7s    47.00nm          5.4mb
PKI     75.14 301 P      07 20.60   0.7
KKN     75.30 301 P      07 21.14   0.4
        0.7s    38.00nm          5.3mb
DMN     75.40 301 P      07 22.02   0.7
        0.5s    25.00nm          5.3mb
GKN     75.91 301 P      07 24.58   0.5
GBA     79.47 285 Pc     07 44.10   0.5
        0.9s    13.00nm          4.8mb
FBA     82.70  21 eP     07 59.30  -0.3
        0.8s     2.30nm          4.1mb
SPA     83.52 180 iPc    08 04.10   0.1
        0.7s    11.33nm          4.9mb
INK     89.30  21 eP     08 31.00  -1.0
QUE     91.50 300 eP     08 41.20  -2.0
MBC     95.27  14 eP     09 00.50   1.1
YKA     95.95  28 eP     09 02.80   0.1
        0.7s     2.80nm          4.9mb
HFS    119.05 339 ePKP   14 24.50   0.1
        1.1s     5.90nm
     S.D. = 0.9  on  29 of  32 obs.
-----------------------------------------
?  JUL  02, 1991  00h 25m 52.66± 0.90s
   55.340 S ±22.6km   26.909 W ±28.2km
   DEPTH =  33.0km  (normal)
   4.9mb (  1 obs.)
 SOUTH SANDWICH ISLANDS REGION       (153)

NVL     22.77 148 ePc    30 53.00   0.2
SPA     34.84 180 iPc    32 42.20  -0.2
        1.0s    15.00nm          4.9mb
PEL     37.56 288 eP     33 05.00  -0.4
        1.0s    60.00nm          5.4mb X
SIV     47.21 313 P      34 23.00  -1.1
                  e      35 54.00
CNCB    49.58 304 P      34 44.00   0.9
LPB     49.87 304 P      34 46.00   0.8
ZOBO    50.11 304 P      34 44.00  -3.2X
YKA    135.75 318 ePKP   45 09.60  -0.4
        0.7s     0.80nm
MBC    143.39 336 ePKP   45 27.50   4.0X
        0.8s     3.00nm
                  pP     45 40.00
INK    145.35 321 ePKP   45 27.00   0.1
                  pP     45 39.00
     S.D. = 0.8  on   8 of  10 obs.
-----------------------------------------
?  JUL  02, 1991  00h 46m 12.27± 5.47s
   39.500 N ±25.5km   19.636 E ±38.2km
   DEPTH =  10.0km  (geophysicist)
 GREECE-ALBANIA BORDER REGION        (392)

IGT      0.54  86 ePc    46 23.48   0.3
                  eS     46 33.92
FNA      1.85  46 ePc    46 45.92   1.6
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AGG      2.15 102 ePd   46 48.72   0.1
                  eS    47 09.84
LIT      2.28  74 ePd   46 50 44  -0.1
GRG      2.57  55 ePd   46 53.72  -0.9
KNT      3.00  55 ePc   46 59.72  -0.9
     S.D. = 1.2  on   6 of   6 obs.
-----------------------------------------
*  JUL  02, 1991  01h 06m 53.45± 0.80s
   45.057 N ± 8.7km   13.486 E ±13.4km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                    (545)
     ML 2.8 (KBA). MD 2.4 (TRI).

TRI      0.68  17 iPgd  07 06.30  -0.6
                  iSg   07 16.10
ARV      1.61 194 P     07 20.50  -1.5
                  eSg   07 41.60
FVI      1.61 342 P     07 21.90  -0.1
                  eSn   07 47.50
SFI      1.63 226 P     07 23.10   0.9
CRE      1.80 218 P     07 25.40   0.5
PTJ      1.93  63 ePn   07 27.60   0.8
                  eSn   07 52.70
KBA      2.02 357 i(Pn) 07 31.90   3.7X
                  iPg   07 33.70
                  i(Sn) 07 58.40
                  iSg   08 03.90
     S.D  = 1.2  on   6 of   7 obs.
-----------------------------------------
*  JUL  02, 1991  01h 20m 23.92± 1.42s
   41.713 N ±10 5km   22.861 E ± 8.3km
   DEPTH =  10 0km  (geophysicist)
 YUGOSLAVIA                        (383)
     ML 1 9 (SKO). MD 2.7 (THE).

VAY      0 45 209 iPg   20 33.20   0.1
                  iSg   20 39.60
KNT      0.55 177 ePc   20 34 88  -0.3
                  eS    20 42.88
SRS      0.81 137 ePc   20 39.44  -0.2
                  eS    20 51.88
GRG      0.83 205 ePd   20 39.68  -0.3
                  eS    20 51.40
SOH      0.97 157 iPd   20 42.64   0.3
                  eS    20 56.32
THE      1.08 176 ePc   20 44.52   0.3
                  eS    20 59.32
SKO      1.09 284 ePn   20 44.50   0.0
     S.D. = 0.3  on   7 of   7 obs.
-----------------------------------------
?  JUL  02, 1991  02h 14m 41.92±15.64s
   37.622 N ±128.km   21.495 E ±17.3km
   DEPTH =  10.0km  (geophysicist)
   3.6mb (  1 obs.)
 SOUTHERN GREECE                   (368)

AGG      1.54  25 ePd   15 10.04   0.5
                  eS    15 29.28
IGT      2 11 335 ePd   15 17.68  -0.1
                  eS    15 43.12
LIT      2.59  17 ePc   15 25.80   1.2
                  eS    15 55.24
FNA      3.16 358 ePd   15 31.84  -0.8
THE      3.22  20 ePc   15 33.36   0.0
GRG      3.40  12 ePd   15 34.88  -1.3
SOH      3.51  24 ePd   15 37.88   0.3
KNT      3.70  17 ePd   15 39.72  -0.6
SRS      3.85  24 ePc   15 41.80  -0.7
SKO      4 34 359 ePn   15 51.00   1.5
HFS     23.08 350 eP    19 45.10  -3.2X
     0 5s      1 10nm          3.6mb
     S D. = 1 0  on  10 of  11 obs.
-----------------------------------------
&  JUL  02, 1991  03h 49m 01.70s
   37.490 N            91.710 W
   DEPTH =   5.0km  (geophysicist)
 MISSOURI                          (483)
     <SLM>. MD 3 3 (SLM).

FVM      1.13  64 ePd   49 22.54  -0 8
                  S     49 36.47
POW      1.40 162 eP    49 26.40  -1.5
                  S     49 43.28
DON      1.45 102 ePc   49 27.14  -1.4
                  S     49 44.49
NRMS     1.97 120 eP    49 35.70  -0.4
ELC      1.99  95 eP    49 35.82  -0.5
CBD      2.02 125 ePc   49 36 46  -0.4
                  S     50 02.17
LDMO     2.03 121 eP    49 36.96   0.0
WGAR     2.04 143 ePd   49 37.04   0.0
TUL      3.64 246 eP    50 09.60   9.7
     0.6s      9.60nm
      9 obs  associated
-----------------------------------------
   JUL  02, 1991  03h 50m 53.96± 0.55s
   19.046 S ± 5.8km  177.643 W ± 7.9km
   DEPTH = 523.5 ±  4.8 km
   4.9mb ( 31 obs.)
 FIJI ISLANDS REGION               (181)

KRO      3.30 301 iP    52 09.30  -0.2
OVA      3.65 291 iP    52 12.30   0.3
NDE      3.79 310 eP    52 13.10  -0.1
SVA      3.81 283 eP    52 13.40   0.2
VUN      3.84 285 eP    52 13.30  -0.1
MBU      4.03 300 eP    52 14.50  -0.4
SGE      4.45 288 eP    52 19.00   0.5
DZM     15.20 256 iPc   54 08.20   2.2
NOZ     19.86 190 eP    54 51.70   0.8
MNG     22.30 194 eP    55 12.80  -0.5
     0.3s      2.00nm          4.2mb
CAW     22.86 194 eP    55 17.50  -0.8
WDW     23.03 194 eP    55 19.20  -0.6
MRW     23.06 195 P     55 19.10  -1.0
TCW     23.15 196 eP    55 20.50  -0.5
BRS     28.37 247 iPc   56 07.40   0.0
COO     29.85 241 iPc   56 21.30   1.2
     0.4s     25.00nm          5.1mb
RMO     31.79 250 iPd   56 37.80   1.2
     0.7s     45.00nm          5.2mb
CTAO    33.99 262 iPd   56 55.00  -0.2
     1.0s    160.00nm          5.6mb
CMS     35.12 242 iPd   57 05.40   0.9
     0.2s     15.00nm          5.2mb
PMG     35.38 281 eP    57 06.00  -0.8
     1.0s    120.00nm          5.4mb
OLP     35.83 251 iPd   57 10.90   0.5
     0.4s     78.00nm          5.6mb
TOO     37.04 232 iPc   57 21.60   1.4
     0.7s     26.00nm          4.9mb
TAU     37.90 223 eP    57 28.00   0.8
STK     38.74 243 iPd   57 35.30   1.1
     0.5s     19.00nm          4.9mb
BFD     39.15 234 iPc   57 36.90  -0.6
     0.9s     35.00nm          4.9mb
OIS     40.17 260 eP    57 45.00  -1.0
     0.3s      7.00nm          4.7mb
ASPA    45.20 255 iPd   58 25.40  -0.2
     1.1s    209.10nm          5.6mb
GUA     49.08 309 eP    58 54.20  -1.0
     0.9s    141.18nm          5.4mb
GUMO    49.15 309 eP    58 53.80  -1.8
PJG     49.15 309 eP    58 53.50  -2.1
MTN     49.50 269 iPd   58 57.10  -1.3
FORR    50.15 245 eP    59 02.00  -0.9
     0.3s     17.00nm          5.0mb
WARB    51.60 251 eP    59 13.00  -0.7
     0.3s     18.00nm          4.9mb
COOL    56.13 245 eP    59 44.40  -1.3
     0.4s     12.00nm          4.6mb
KLB     58.98 244 iPc   00 04.30  -0.8
     0.3s     13.00nm          4.8mb
BAL     59.96 245 eP    00 10.90  -0.7
     0.4s     20.00nm          4.9mb
MUN     60.26 244 eP    00 13.00  -0.6
CGP     63.05 290 ePd   00 32.00   0.2
     0.8s     32.00nm          4.9mb
MAT     69.25 323 iPd   01 08.50  -1.3
     0.8s     20.90nm          4.8mb
OZH     75.90 303 P     01 48.30   0.2
MDJ     79.53 325 Pd    02 08.00   0.9
TNP     80.26  44 eP    02 12.30   1.0
     0.7s      0.89nm          3.3mb X
CN2     81.36 322 P     02 16.80   0.2
     1.0s     29.00nm          4.8mb
TIA     82.55 312 eP    02 23.80   1.1
BJI     85.10 315 eP    02 36.00   0.8
     1.5s     35.00nm          4.8mb
GYA     86.23 299 P     02 41.00  -0.1
     1.0s     20.00nm          4.8mb
ALO     86.23  51 eP    02 41.20   0.1
     1.0s      2.50nm          3.9mb
ANMO    86.24  51 eP    02 42.20   1.1
TIY     86.56 312 eP    02 43.00   0.6
FBA     86.76  12 iPd   02 42.00  -0.7
     1.0s      2.90nm          4.0mb
XAN     87.52 307 P     02 48.00   1.0
BW06    87.68  43 eP    02 47 70  -0.2
     1.0s      5 75nm          4.3mb
HHC     88.58 314 eP    02 53.00   1.1
     1.0s     10.00nm          4.6mb
BDT     89.48 288 eP    02 55.10  -1.2
CHG     90.07 290 eP    03 00.00   1.0
     1.0s     21.25nm          5 0mb
CHTO    90.07 290 iP    03 00.00   1.0
     0.8s     14.46nm          5.0mb
CD2     90.29 303 eP    03 01.40   1.5
LZH     92.16 307 eP    03 08.50   0.0
     1 6s     41.00nm          5.2mb
YKA     95 06  25 eP    03 19.80  -1.1
     0.8s      0.70nm          3.9mb
KAF    133.85 345 iPKP  09 12.30   0.2
     0.5s      4.30nm
NUR    135.64 344 ePKP  09 16.30   0.8
NB2    137.58 354 PKP   09 17.40  -1.8
     0.7s      2.20nm
HFS    138.16 352 ePKP  09 11.00  -9.2X
     0.5s      0.80nm
EKA    143.53   5 PKPc  09 27.60  -2.2
     1.0s     12.50nm
KAS    145.20 317 ePKP  09 35.50   2.3X
KRA    146.02 340 ePKP  09 35.90   1.7
                  e     09 38.10
KSP    146.40 344 iPKPd 09 37.70   2.9X
     0.8s     25.00nm
VRI    146 52 328 ePKPd 09 36.00   0.9
CLL    146.72 348 iPKPd 09 38.00   2.8X
     1.0s     41.00nm
WTS    146.93 355 ePKP  09 38.50   3.0X
     0.9s     29.00nm
BRG    146.94 347 ePKP  09 35.50  -0.1
                  i     09 38.30
HRI    147.02 302 iPKPd 09 39.80   3.3X
MLR    147.18 329 ePKP  09 38.50   2.1X
MOX    147.62 349 ePKP  09 37.30   0.5
PRU    147.63 345 PKPd  09 40.30   3.5X
     1.0s     12.00nm
                  e     09 44.00
                  e     11 41.50
DSI    147.78 299 ePKP  09 41.30   3.7X
BNS    147.92 354 ePKPd 09 41.30   4.1X
ENN    148.22 356 ePKP  09 42.00   4.4X
     0.8s      8.00nm
MEM    148.37 356 PKP   09 41.80   3.9X
SRO    148.50 339 iPKP  09 42 30   4.1X
ZST    148.55 341 ePKP  09 43.30   5.1X
                  i     09 49.10
SNF    148.57 358 PKP   09 43.40   5.2X
MBH    148.62 296 iPKPd 09 43.80   4.8X
KHC    148.65 346 iPKPd 09 43.20   4.7X
     1.2s     20.50nm
                  e     09 48.00
                  e     11 47.00
DOU    148.97 357 PKP   09 44.20   5.4X
WLF    149.30 355 iPKP  09 45.00   5.7X
FUR    150.06 348 ePKP  09 47.00   6.4X
BHG    150.14 346 ePKP  09 46.40   5.7X
FLN    150.27   4 iPKPd 09 46.60   5.8X
     0.7s     18.75nm
CDF    150.44 353 iPKPd 09 47.30   6.1X
     0.9s     16.40nm
LDF    150.46   3 iPKPd 09 47.00   5.9X
     0.7s      8.80nm
GRR    150.61   4 iPKPd 09 47.50   6.1X
     0.5s     10.95nm
KBA    150.63 345 iPKPd 09 46.90   5.2X
     0.6s     10.40nm
                  ic    09 47.30
                  i     09 51.20
WTTA   150.85 347 iPKPd 09 48.20   6.2X
     0.4s     20.20nm
                  ic    09 48.60
HAU    150.93 354 iPKPd 09 48.30   6.4X
     0.6s     10.80nm
PTJ    150.95 340 ePKP  09 48.20   6.1X
LPF    150.96   5 iPKPd 09 48.50   6.6X
     0.7s     36.40nm
BSF    151.06 354 iPKPd 09 48.60   6.4X
     0.7s     13.25nm
LOR    151.82 358 iPKPd 09 50.50   7.3X
```

02d 04h

```
        0.7s     15.45nm
SKO   151.97 329 ePKP  09 50.70   7.1X
                  e    10 03.00
SSF   152.04 358 iPKPd 09 51.20   7.7X
        0.8s     16.10nm
LBF   152.10 358 iPKPd 09 51.10   7.4X
        0.8s     12.75nm
AVF   152.32 359 iPKPd 09 51.20   7.3X
MFF   152.44   4 iPKPd 09 51.80   7.7X
        0.6s      9.00nm
SMF   152.45 358 iPKPd 09 51.60   7.5X
BGF   152.56 359 iPKPd 09 52.00   7.8X
        0.7s     10.45nm
TCF   152.83   0 ePKP  09 52.60   7.9X
        0.8s      8.75nm
LSF   152.86   1 iPKPd 09 52.40   7.7X
        0.7s      9.90nm
MAF   152.90 360 ePKP  09 53.00   8.3X
        0.8s      7.40nm
LPL   153.35 353 ePKP  09 54.70   9.0X
        0.8s      3.35nm
LPG   153.37 353 iPKPd 09 54.80   9.0X
        0.8s      5.35nm
RJF   153.81   1 ePKP  09 54.60   8.6X
        0.9s      6.55nm
CAF   154.19   0 iPKPd 09 55.80   9.2X
        0.7s      3.30nm
LPO   154.42   2 ePKP  09 56.50   9.7X
      S.D. = 1.0  on  67 of 114 obs.
-----------------------------------------
   JUL  02, 1991  04h 16m 46.01± 0.30s
   28.922 S ± 4.6km   67.278 W ± 7.0km
   DEPTH = 144.9km  (  2 depth phases)
   4.7mb ( 15 obs.)
 LA RIOJA PROVINCE, ARGENTINA      (138)
      Felt (III) at Catamarca.

CYA     1.39  70 ePc   17 14.80   0.4
RTLL    2.61 203 iPd   17 28.00  -0.8
ZON     2.88 205 iPc   17 32.50   0.2
RTBS    3.32 214 iPc   17 37.10  -0.7
MDZ     4.17 198 iP    17 49.10  -0.1
                 iS    18 26.40
SLA     4.47  21 iPc   17 53.20  -0.1
PEL     5.12 214 iPc   17 59.50  -2.4
IHA     5.55 221 eP    18 03.50  -4.0X
                 i(S)  18 43.10
ANT     5.91 331 eP    18 08.50  -3.9X
                 iS    19 11.00
CCH    11.53   5 P     19 38.00  10.4X
CNCB   12.07 357 P     19 33.00  -1.9
LPB    12.35 356 P     19 37.00  -1.5
                 i     19 47.10
ZOBO   12.62 356 P     19 40.00  -2.0
                 i     19 49.20
ARE    12.99 342 iPc   19 46.50  -0.2
       1.0s     18.00nm        4.5mb
SIV    14.08  25 eP    19 51.00  -9.3X
                 i     19 57.00
NNA    19.07 330 iPc   20 58.50  -1.3
       0.8s     14.93nm        4.4mb
VAO    19.18  77 eP    21 00.50  -0.4
BAO    22.17  57 ePc   21 30.40  -0.6
JSC    64.23 347 P     27 06.20  -1.2
BLA    66.93 349 P     27 24.50  -0.2
LIC    69.27  70 P     27 40.00   0.4
KIC    69.58  70 P     27 42.00   0.5
TUL    69.85 336 ePd   27 41.30  -1.4
       0.6s     21.00nm        5.1mb
MEO    69.92 333 iPd   27 41.60  -1.6
FVM    70.00 341 P     27 42.30  -1.2
       0.8s     57.58nm        5.5mb
LKO    70.68  67 P     27 48.58   0.4
       0.8s     17.50nm        4.9mb
BNH    73.25 357 P     28 03.50   0.8
ALQ    73.50 327 eP    28 05.00   0.4
       1.0s     12.50nm        4.6mb
ANMO   73.51 327 P     28 05.20   0.6
       0.8s      8.77nm        4.6mb
GLA    76.36 320 eP    28 22.00   1.2
GLD    76.90 331 P     28 24.80   1.0
       0.9s     27.37nm        5.0mb
GOL    76.93 331 P     28 24.30   0.3
       0.8s      4.46nm        4.3mb
                 pP    28 59.00 139km
BAR    77.13 319 eP    28 26.00   1.0
PV09   77.64 328 P     28 28.90   0.9
PLM    77.73 319 eP    28 29.00   0.5
TPC    77.83 320 eP    28 30.00   1.2
RVR    78.49 319 eP    28 34.00   1.6
MWC    79.05 319 eP    28 37.00   1.3
GSC    79.13 321 iPd   28 37.00   1.0
SBB    79.25 320 eP    28 37.00   0.4
CLC    79.94 321 eP    28 41.00   0.7
RSSD   80.09 334 P     28 40.80  -0.3
       0.8s     10.02nm        4.6mb
ISA    80.32 320 eP    28 44.00   1.7
BW06   81.26 330 P     28 47.30   0.1
       1.0s     11.67nm        4.6mb
                 pP    29 25.00 151km
TNP    81.39 322 P     28 48.70   0.7
       0.9s     10.74nm        4.6mb
SCH    83.39   0 eP    28 58.00   0.4
ORV    84.77 321 P     29 05.80   0.9
LRM    84.94 330 eP    29 07.20   1.3
FFC    88.50 341 eP    29 23.00   0.3
       1.0s     14.00nm        5.0mb
NEW    88.86 329 P     29 23.70  -0.9
       1.0s     10.00nm        4.8mb
YKA    98.64 340 eP    30 09.10   0.2
       0.8s      2.40nm        4.8mb
NB2   109.58  30 PKP   35 12.40  12.1X
       0.5s      4.90nm
HFS   110.35  32 ePKP  35 13.50  11.8X
       0.4s     12.70nm
ASPA  123.88 204 ePKP  35 28.90   0.1
       0.4s      6.60nm
WRA   127.13 206 PKP   35 35.00  -0.1
       0.5s     15.80nm
GBA   143.92 107 PKPc  36 05.50  -0.7
       0.8s      6.40nm
YAK   145.05 346 iPKPd 36 06.50  -0.3
                 i     36 41.00
HYB   146.68 103 iPKPd 36 14.40   3.5X
NDI   148.96  82 iPKPc 36 20.00   5.8X
      S.D. = 1.0  on  51 of  59 obs.
-----------------------------------------
   JUL  02, 1991  04h 24m 28.23± 0.42s
   43.135 N ± 6.5km  142.091 E ± 7.3km
   DEPTH = 168.6 ±  5.3 km
   4.3mb ( 15 obs.)
 HOKKAIDO, JAPAN  REGION           (224)

SAP     0.56 262 iP    24 52.50   0.3
                 iS    25 09.50
MRRJ    1.03 227 P     24 55.30   0.0
                 S     25 15.20
ASAJ    1.06  22 iPd   24 55.80   0.3
                 eS    25 15.30
HOOJ    1.16 130 iP+   24 57.10   0.8
                 eS    25 18.10
KUSJ    1.92  90 P     25 05.10   1.2
                 eS    25 31.90
AOMJ    2.87 207 P     25 15.60   0.3
                 S     25 50.30
OFUJ    4.06 185 P     25 29.90  -0.5
                 S     26 16.00
YAMJ    5.20 198 P     25 45.70   0.4
                 S     26 43.00
NIIJ    6.34 203 eP    26 00.20  -0.3
KAKJ    7.08 193 P     26 07.30  -2.9
                 S     27 23.60
MAT     7.23 206 (P)   26 13.00   0.7
       0.7s      8.90nm        4.3mb
                 eS    27 32.00
MTMJ    7.32 208 eP    26 14.60   0.9
CHJJ    7.47 200 eP    26 14.00  -1.5
                 S     27 35.10
TSRJ    8.94 214 eP    26 35.00   0.1
MDJ     9.15 284 eP    26 36.70  -1.0
CN2    12.12 279 P     27 14.80  -1.6
       0.8s     10.00nm        4.4mb
TIA    20.38 259 eP    28 50.60  -2.6
LZH    30.10 270 eP    30 03.50 -20.4X
PMR    43.53  40 eP    32 16.10   0.0
       0.5s      4.13nm        4.3mb
CHTO   43.59 250 eP    32 18.00   0.8
       0.8s      2.56nm        3.9mb
FBA    43.75  35 eP    32 18.40   0.5
       0.5s     10.33nm        4.7mb
GUN    47.35 270 P     32 49.80   2.5
KKN    47.86 271 P     32 54.64   3.6X
PKI    47.89 270 P     32 54.26   2.9
DMN    48.09 271 P     32 54.76   1.9
GKN    48.21 271 P     32 56.26   2.6
INK    48.77  29 eP    32 57.00  -0.2
MBC    50.55  18 ePd   33 10.60  -0.1
       0.5s      5.00nm        4.4mb
YKA    58.32  32 eP    34 06.30  -0.8
       0.6s      3.10nm        4.3mb
KAF    63.16 332 iP    34 37.70  -2.0
       0.4s      5.00nm        4.8mb
NUR    64.84 331 eP    34 48.80  -1.8
FFC    68.33  34 eP    35 12.00  -0.7
       0.6s      6.00nm        4.6mb
FRB    70.73  14 ePc   35 26.30  -0.8
KRA    74.35 325 eP    35 48.50   0.0
CLL    76.08 330 iP    35 57.70  -0.6
PRU    76.56 328 eP    36 00.00  -1.0
EKA    77.56 341 Pd    36 06.30  -0.1
       0.7s      3.20nm        4.2mb
KHC    77.63 328 P     36 07.20   0.3
DLF    80.23 342 eP    36 20.70  -0.1
DCN    80.36 342 eP    36 21.60   0.1
LOR    82.70 333 eP    36 33.50  -0.4
       0.8s      4.05nm        4.2mb
LDF    82.80 336 eP    36 33.60  -0.7
GRR    83.20 336 eP    36 36.10  -0.2
LPL    83.21 330 eP    36 37.60   0.9
LPG    83.22 330 eP    36 37.40   0.5
       0.5s      1.80nm        4.1mb
SMF    83.25 332 eP    36 36.40  -0.3
       0.8s      5.35nm        4.4mb
AVF    83.29 333 eP    36 36.80   0.0
       0.8s      5.35nm        4.4mb
LPF    83.58 336 eP    36 38.20   0.0
MAF    84.05 333 eP    36 41.20   0.5
       0.5s      2.20nm        4.2mb
LSF    84.36 334 eP    36 42.30   0.1
MFF    84.58 335 eP    36 43.70   0.4
CAF    85.36 333 eP    36 48.00   0.7
LPO    85.86 333 eP    36 50.20   0.5
SIV   146.49  43 iPKP  43 51.60   2.1X
      S.D. = 1.2  on  51 of  54 obs.
-----------------------------------------
   JUL  02, 1991  04h 29m 36.07± 0.76s
   49.198 N ± 7.5km    6.855 E ±11.0km
   DEPTH =  10.0km  (geophysicist)
 GERMANY                           (543)
      ML 2.7 (STR). MD 2.4 (UCC).

GWF     0.55 113 Pg    29 46.15  -1.1
WLF     0.66 316 iPd   29 49.61   0.5
                 iS    29 59.07
ECH     1.00 168 Pg    29 54.65  -0.4
VITF    1.14 211 Pg    29 56.83  -0.6
MOF     1.36 172 Pg    30 00.36  -0.8
                 Sg    30 19.58
MEM     1.52 339 iP    30 04.70   1.5
FEL     1.53 149 Pg    30 04.17   0.6
ENN     1.68 339 ePn   30 06.00   0.4
       0.5s     19.00nm
                 ePg   30 08.00
                 eSn   30 30.00
                 eSg   30 32.50
DOU     1.72 302 iP    30 06.40   0.2
                 i     30 09.10
LOMF    1.85 181 Pg    30 10.59   2.4
SNF     2.12 309 iP    30 09.30  -2.7
      S.D. = 1.5  on  11 of  11 obs.
-----------------------------------------
   JUL  02, 1991  04h 38m 34.32± 0.45s
   12.672 N ± 5.6km   88.156 W ± 6.3km
   DEPTH = 186.8 ±  4.6 km
   4.9mb ( 25 obs.)
 OFF COAST OF CENTRAL AMERICA      ( 76)
      Felt (II) at San Salvador, El
      Salvador.

VSM     0.76 351 iPd   39 01.80   0.0
OZA     1.18 316 iPd   39 03.80  -0.6
LFU     1.42 319 iPd   39 08.50   2.0
VSS     1.50 315 iPc   39 09.00   1.7
TME     1.77 319 iPd   39 13.00   3.1X
TPX     4.56 300 (P)   39 34.50  -9.0X
SCX     5.92 314 (P)   39 49.00 -12.2X
OXX     9.37 299 (P)   40 39.50  -7.2X
PPM    11.91 304 (P)   41 12.50  -7.5X
ACX    12.06 292 (P)   41 19.00  -2.4
III    12.29 299 (P)   41 17.00  -7.5X
PSO    15.66 136 eP    42 04.50  -2.4
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GGP     15.90 143 P      42 08.30  -1.8
OUR     15.94 142 eP     42 08.80  -1.6
BOG     16.05 119 eP     42 10.00  -1.7
                  eS     45 22.00
ANGL    16.71 140 P      42 07.70 -12.1X
JSC     22.41  15 ePc    43 18.70   0.8
                  i(pP)  43 33.60  64kmX
MEO     23.96 338 iPd    43 31.50  -1.4
TUL     24.14 345 eP     43 33.00  -1.6
        1.0s     73.60nm          5.2mb
      Z  20s      1.24um          4.4Msz
                  eS     47 48.00
                  LR     51 07.00
FVM     25.29 356 ePc    43 43.50  -1.7
        0.7s     20.41nm          4.9mb
BLA     25.40  15 ePc    43 46.80   0.6
        1.0s    140.00nm          5.6mb
                  ipP    44 00.60  57kmX
TRN     26.27  92 eP     43 48.50  -5.8X
NNA     26.95 155 eP     44 02.80   2.3
        1.1s     15.19nm          4.6mb
CBN     27.18  19 iPd    44 03.40   1.1
                  i      44 16.10
ALO     27.69 326 eP     44 06.70  -0.5
        0.8s     14.37nm          4.7mb
ANMO    27.69 326 ePc    44 06.70  -0.5
        0.7s     14.55nm          4.8mb
                  ePcP   47 23.00
                  ipPcP  47 37.40
CLE     29.29  10 iP     44 20.60  -0.5
GMTN    30.66  21 iP     44 33.60   0.4
PNJ     30.69  21 iP     44 34.40   1.0
TBR     30.88  21 ePc    44 35.00  -0.1
                  epP    44 49.20  57kmX
GLD     30.90 334 ePc    44 35.70   0.2
                  e(pP)  44 47.90  47kmX
                  PcP    47 46.20
GOL     30.92 334 iPc    44 34.90  -0.9
        0.7s     33.98nm          5.2mb
                  ipP    44 48.30  53kmX
                  PcP    47 30.90
                  pPcP   47 45.00
GLA     31.71 314 eP     44 43.00   0.5
                  e      44 56.00
PV09    31.77 328 ePc    44 42.70  -0.6
                  PcP    47 34.00
                  pPcP   47 48.30
BAR     32.82 312 eP     45 05.00  12.8X
TPC     33.14 315 eP     44 55.00   0.1
                  e      45 08.00
PLM     33.31 313 eP     44 57.00   0.5
                  e      45 10.00
ARE     33.31 150 iPc    44 58.50   1.7
PEC     33.80 314 ePc    45 01.00   0.4
                  epP    45 13.50  47kmX
                  PcP    47 39.10
                  pPcP   47 53.00
RVR     34.00 314 eP     45 03.00   0.7
RSSD    34.18 339 iPc    45 03.70  -0.2
        0.6s      3.02nm          4.1mb
                  PcP    47 38.90
                  pPcP   47 52.60
GSC     34.32 316 eP     45 05.00   0.0
MWC     34.61 313 eP     45 07.00  -0.6
PAS     34.65 313 eP     45 09.00   1.2
SBB     34.69 314 eP     45 08.00  -0.1
ZOBO    34.92 145 iPc    45 11.60   0.8
        1.0s     13.75nm          4.6mb
      Z  24s      2.17um          4.8MszX
                  S      50 46.00
                  LR     57 20.00
BNH     34.94  21 eP     45 09.80  -0.3
                  epP    45 23.90  55kmX
CLC     35.14 316 eP     45 12.00   0.1
LPB     35.14 145 P      45 13.20   0.7
                  LR     57 50.00
BW06    35.26 332 iPc    45 12.30  -0.8
        0.9s     24.29nm          4.9mb
                  PcP    47 42.00
                  pPcP   47 55.50
CNCB    35.43 145 P      45 16.20   1.1
                  i      47 44.00
ISA     35.65 315 eP     45 17.00   0.7
                  e      45 30.00
SYP     36.13 312 eP     45 34.00  13.6X
TNP     36.19 320 ePc    45 21.20   0.3
        0.7s      5.56nm          4.3mb
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                  PcP    47 46.00
                  pPcP   47 59.80
CCH     36.94 143 P      45 29.50   2.0
FRI     37.20 316 e(P)   45 29.00  -0.2
PRI     37.42 314 e(P)   45 28.80  -2.4
LLA     37.86 315 ePd    45 35.20   0.5
PRS     38.01 314 e(P)   45 36.70   0.7
CMB     38.22 317 eP     45 38.40   0.7
LRM     38.94 333 ePc    45 44.60   0.8
ORV     39.77 318 ePc    45 50.50   0.0
                  PcP    47 57.30
                  pPcP   48 10.90
NEW     42.88 332 ePc    46 15.50  -0.3
        1.2s     37.88nm          4.8mb
                  epP    46 29.80  55kmX
                  PcP    48 05.50
                  pPcP   48 19.80
FFC     43.34 348 iPc    46 19.60   0.3
        0.5s     26.00nm          5.0mb
PNT     44.80 331 ePc    46 31.00   0.0
        0.8s     78.00nm          5.3mb
SCH     45.27  17 ePc    46 33.90  -0.8
        1.0s    187.00nm          5.5mb
                  pP     46 48.00  53kmX
PGC     46.26 328 eP     46 43.00   0.5
BAO     48.68 124 ePc    47 00.00  -1.9
SOB1    51.74 113 eP     47 25.90   0.9
FRB     52.84  11 ePc    47 31.40  -0.9
        0.6s     34.00nm          5.2mb
YKA     53.22 345 eP     47 33.90  -1.3
        0.9s     34.20nm          5.0mb
VAO     53.70 131 eP     47 39.20  -0.2
                  e      47 51.00
BALM    62.07 333 iPc    48 37.70   0.5
INK     62.79 343 eP     48 42.00   0.4
        1.0s     84.00nm          5.6mb
                  pP     48 54.00  41kmX
PMR     65.30 333 ePc    48 57.80  -0.1
        0.6s     22.17nm          5.2mb
                  epP    49 11.40  48kmX
SLKM    65.44 331 ePc    48 58.60  -0.3
                  e(pP)  49 11.20  43kmX
M8C     65.71 352 ePc    49 00.50   0.2
        1.0s     41.00nm          5.2mb
                  pP     49 14.50  50kmX
FBA     65.95 336 ePc    49 01.80  -0.3
        0.8s     21.72nm          5.0mb
                  epP    49 15.30  47kmX
SVW     68.15 331 ePc    49 15.40  -0.6
        0.6s      8.87nm          4.7mb
DAG     73.07  13 eP     49 58.50  13.4X
EKA     76.85  36 P      50 08.00   1.1
        0.8s      2.50nm          4.0mb
LKO     80.77  82 P      50 28.52  -0.4
N82     83.51  29 P      50 41.70  -0.4
        0.9s      5.50nm          4.3mb
HFS     84.93  29 eP     50 50.80   1.6
        0.8s      5.40nm          4.4mb
MOX     86.41  39 eP     51 13.10  16.4X
        1.6s     15.00nm
CLL     87.07  38 e(P)   51 16.00  16.2X
BRG     87.77  38 eP     51 20.00  16.8X
        1.4s     12.00nm
                  e      55 12.00
KHC     88.05  40 P      51 05.70   1.0
                  e      51 20.00
                  e      51 31.70
KBA     88.50  42 eP     51 08.00   0.9
                  e      51 28.00
LSZ    118.36 101 iPKPd  57 06.90   4.8X
KRI    119.88 102 iPKPd  57 08.80   3.9X
PTZ    121.28  99 iPKPc  57 12.00   4.4X
                  i      57 26.50
MTD    121.76 102 iPKPd  57 13.00   4.6X
                  ipP    57 27.90
BJI    122.89 338 ePKP   57 27.00  17.2X
        1.0s      8.00nm
HHC    123.71 342 PKPd   57 16.00   4.4X
TIY    126.28 340 ePKP   57 19.60   2.9X
GTA    127.66 352 ePKP   57 22.60   3.3X
SSE    128.16 328 PKPc   57 24.50   4.2X
NJ2    128.55 330 PKPd   57 24.00   3.0X
STK    130.62 239 ePKP   57 28.20   3.2X
        1.3s      4.20nm
XAN    130.79 341 PKP    57 30.00   4.7X
WHN    131.89 334 ePKP   57 32.00   4.6X
GYA    138.52 340 PKP    57 43.60   3.4X
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WB2    138.65 254 ePKP   57 34.40  -6.1X
                  i      57 45.00
                  i      58 01.20
WRA    138.67 254 PKP    57 39.00  -1.5
        0.8s      9.70nm
ASPA   138.71 249 ePKP   57 36.20  -4.3X
        1.0s      6.90nm
                  i      58 01.40
GKN    138.97  10 PKP    57 45.64   4.6X
GUN    139.25   8 PKP    57 44.88   3.1X
KKN    139.28   9 PKP    57 47.22   5.5X
DMN    139.43   9 PKP    57 49.76   7.7X
PKI    139.51   9 PKP    57 48.84   6.6X
CGP    141.19 301 ePKP   57 50.00   4.8X
        1.0s     58.00nm
AAI    142.97 281 ePKP   57 48.00  -0.3
                  e      57 55.50
PPR    145.21 309 ePKPc  57 57.00   5.0X
        1.0s    138.00nm
HYB    147.35  24 ePKP   58 00.30   4.8X
                  e      58 14.00
CHTO   147.94 347 iPKP   58 00.60   4.2X
        0.8s     10.80nm
TSM    149.13 301 ePKP   58 07.00   8.6X
BDT    149.45 346 ePKP   58 00.00   1.3
        1.0s     76.60nm
GBA    150.24  29 PKP    58 05.00   5.0X
        1.3s     31.40nm
KHT    151.91 346 ePKP   58 13.30  10.8X
KOD    153.14  33 ePKP   58 10.00   5.4X
KGM    161.49 321 ePKP   58 19.00   4.7X
      S.D. = 1.1  on  78 of 122 obs.
-----------------------------------------
?  JUL  02, 1991  05h 05m 40.03± 4.40s
   43.853 N ±21.9km     7.087 E ±23.5km
   DEPTH =  10.0km  (geophysicist)
 NEAR SOUTH COAST OF FRANCE        (379)
      ML 2.0 (GEN).

STV      0.43  24 P      05 48.92   0.2
                  S      05 53.74
ENR      0.44  33 P      05 49.12   0.0
                  S      05 54.15
IMI      0.58  84 P      05 52.00   0.1
                  S      05 59.79
PZZ      0.65   1 P      05 53.12   0.0
                  S      06 01.22
RO8      0.72  52 P      05 53.94  -0.3
                  S      06 02.76
      S.D. = 0.2  on   5 of   5 obs.
-----------------------------------------
   JUL  02, 1991  05h 14m 30.19± 0.12s
    1.068 S ± 3.1km   99.843 E ± 3.0km
   DEPTH =  53.8km  (geophysicist)
   5.8mb (105 obs.)
 SOUTHERN SUMATERA                 (274)
      Ms 6.2 (BRK). Mo=3.0*10**18 Nm
      (PPT). Light damage to many
      buildings ot Padong. Felt at
      Padangpanjong. Also felt at
      Singapare. Depth from broadband
      displacement seismograms.
      FAULT PLANE SOLUTION: P-Waves
       NP1:Strike=135 Dip=55 Slip=  39
       NP2:         20      59       138
       Principal Axes:
        T                 Plg=50  Azm=346
        P                      2       78
      Comment: The facal mechanism is
        poorly controlled and
        correspands to strike-slip
        foulting with o large reverse
        component. The preferred foult
        plane is not determined.
      RADIATED ENERGY
       No. of sta:   8  Focal mech.  F
       Energy        8.5±2.0*10**12 Nm
      MOMENT TENSOR SOLUTION
      Dep  48            No. of sto: 12
      Mament Tensor;     Scale 10**18 Nm
        Mrr= 3.02        Mtt= 0.66
        Mff=-3.68        Mrt= 1.33
        Mrf= 0.95        Mtf= 0.10
       Principal oxes:
        T  Val=  3.73  Plg=65  Azm=343
        N        0.09      23      185
        P       -3.81       8       91
```

02d 05h

```
Best Double Couple:Mo=3.8*10**18
 NP1:Strike=156 Dip=42 Slip=  54
 NP2:          21     57     118
CENTROID, MOMENT TENSOR    (HRV)
Data Used: GDSN
L.P.B.: 25S, 70C
Centroid Location:
Origin Time        05:14:35.1 0.3
Lat  1.31S 0.02 Lon  99.50E 0.03
Dep  40.0 BDY Half-duration  5.1
Moment Tensor;   Scale 10**18 Nm
  Mrr= 1.95 0.04  Mtt=-0.49 0.05
  Mff=-1.46 0.07  Mrt= 1.90 0.08
  Mrf=-1.95 0.08  Mtf= 1.28 0.05
 Principal Axes:
  T  Val=  3.30  Plg=63  Azm= 37
  N        0.34       6      139
  P       -3.64      26      232
Best Double Couple:Mo=3.5*10**18
 NP1:Strike=336 Dip=20 Slip= 108
 NP2:          137    71      84

PSI     3.85 346 eP     16 24.50  56.2X
                e(S)    17 31.00
KLM     4.52  23 ePc    15 41.00   3.3X
                eS      16 49.00
KGM     4.63  49 iPd    15 42.10   2.B
                iS      16 27.00
IPM     5.73  12 ePc    16 05.00  10.1X
                e       18 29.00
                e       19 46.00
SNG     8.23   5 eP     16 29.10  -0.5
      1.2s  1503.13nm          6.7mb
                e       18 22.40
NNT    13.57 360 eP     17 39.20  -2.6
TRT    14.35 118 ePc    17 52.50   0.5
      0.8s   140.70nm          5.5mb
KHT    15.80 356 iPc    18 11.60   0.8
KKM    17.81  66 ePd    18 39.80   3.8X
      0.9s   631.90nm          5.8mb
BDT    18.21 357 ePg    18 36.20  -4.7X
                eSg     18 41.10
CHG    19.78 357 ePc    18 57.30  -1.6
      0.9s    54.62nm          4.9mb
                e       23 46.00
CHTO   19.78 357 iP     18 57.20  -1.7
MKS    20.02 102 iPd    19 01.50   0.1
PPR    21.67  60 ePc    19 20.00   1.8
                iS      20 19.00
OIZ    22.26  26 iPc    19 25.00   0.9
      0.8s   100.00nm          5.3mb
    N  11s     8.90um
    E  13s    27.30um
                S       23 20.00
KOD    24.94 297 eP     19 52.00   1.5
                eS      24 13.00
KMI    26.19   6 iPc    20 01.96   0.1
                id      20 16.03
                S       24 30.00
NANU   26.25 146 eP     20 02.00  -0.2
CGP    26.52  69 iPc    20 06.00   1.2
      1.0s   192.00nm          5.6mb
GBA    26.57 304 Pc     20 04.60  -0.6
      0.8s    43.60nm          5.1mb
BAG    26.84  49 iPc+   20 08.00   0.1
                eS      24 40.00
DAV    26.92  72 ePd-   20 10.00   1.5
                eS      24 47.00
HKC    27.11  30 eP     20 12.00   1.9
                eS      24 32.00
GZH    27.37  28 iPc    20 12.00  -0.5
      0.8s    50.00nm          5.2mb
    Z  22s    54.30um          6.1Msz
    N  16s    54.90um
    E  15s    27.30um
                S       24 50.00
SHL    27.57 344 iP     20 13.40  -1.1
                iS      24 30.00
HYB    27.88 312 ePc    20 17.00  -0.2
      1.0s   140.00nm          5.5mb
                e       20 30.80
                iS      24 58.00
PIP    28.09  46 iPd    20 20.00   1.0
      1.5s  1850.00nm          6.5mb
GYA    28.15  13 iPc    20 18.00  -1.6
      0.8s    50.00nm          5.2mb
    N  14s    49.50um
    E  14s    18.30um
                pP      20 29.60  45kmX
AAI    28.44  96 eP     20 23.10   0.8
CVP    28.57  48 eP     20 24.40   1.0
      0.6s   111.00nm          5.7mb
OZH    31.60  34 iPc    20 50.50   0.3
      0.8s    80.00nm          5.6mb
    Z  19s    46.90um          6.2Msz
    E  14s    17.20um
                sP      21 08.00
                PP      21 47.00
PKI    31.68 335 P      20 50.78  -0.5
LSA    31.70 346 P      20 52.00   0.4
      5.0s  3100.00nm          6.4mb X
                sP      21 12.00
                iS      25 57.00
                Sc$     31 16.00
DMN    31.84 335 P      20 53.10   0.5
KKN    31.92 335 P      20 53.02  -0.2
MRWA   31.95 153 eP     20 53.00  -0.2
CD2    32.02   6 Pd     20 52.40  -1.4
      7.0s  2470.00nm          6.1mb X
    Z  22s    44.60um          6.1Msz
    E  12s    24.00um
                pP      21 04.00  44kmX
                S       25 59.00
KNA    32.04 119 iPd    20 51.10  -3.0X
POO    32.13 309 iPc    20 57.20   2.2
                iS      26 03.50
GKN    32.38 334 P      20 57.06  -0.1
MTN    33.13 112 eP     21 00.10  -3.6X
BOM    33.15 308 iPc    21 00.90  -2.8
                iS      26 05.40
BAL    33.45 153 eP     21 05.00  -1.3
WHN    34.34  23 Pd     21 14.50   0.6
      0.5s   100.00nm          6.0mb
    Z  20s    24.90um          5.9Msz
    N  18s    41.60um
    E  15s    23.70um
                PP      22 32.00
                S       26 38.00
MUN    34.41 155 eP     21 14.30  -0.2
      0.9s   187.00nm          6.0mb
KLB    34.77 153 eP     21 17.00  -0.6
NWAO   35.66 154 iPd    21 25.00  -0.2
      0.7s    54.00nm          5.6mb
                eS      27 00.00
COOL   35.87 148 eP     21 26.00  -1.0
WARB   35.90 136 eF     21 26.00  -1.3
      0.4s    26.00nm          5.5mb
XAN    35.95  13 P      21 25.10  -2.5
      0.6s   100.00nm          5.9mb
    N  14s    44.00um
    E  14s    18.80um
                PP      22 51.00
                S       26 55.60
NDI    36.67 326 iPc    21 34.00   0.3
                eS      27 10.00
RKG    36.99 156 eP     21 37.00   0.7
      0.4s    45.00nm          5.8mb
LZH    37.15   5 iPc    21 37.37  -0.5
      2.0s   210.00nm          5.7mb
    Z  22s    48.20um          6.2Msz
    N  13s    14.70um
                ipPd    21 52.35  58kmX
                PP      23 05.00
                PcP     23 58.00
                eS      27 17.76
                ScP     27 40.00
                sS      27 44.00
                PcS     27 48.00
                eSS     30 01.98
                eScS    31 47.01
NJ2    37.54  27 Pc     21 40.00  -0.9
      0.8s   200.00nm          6.1mb
    Z  20s    21.60um          5.9Msz
    N  15s    24.20um
    E  13s    13.50um
                PP      23 14.00
                S       27 19.00
SSE    37.87  31 iPc    21 44.00   0.2
      0.9s   180.00nm          6.0mb
    Z  20s    62.00um          6.4Msz
    N  16s    36.80um
    E  16s    25.60um
                sP      22 02.00
                PP      23 17.00
                S       27 28.00
                ScP     27 36.00
                PcS     27 44.00
                ScS     31 46.00
WRA    38.61 121 P      21 47.10  -3.0X
WB2    38.62 121 iPd    21 47.00  -3.2X
                ePcP    24 01.40
                eScP    27 28.30
                eS      27 36.80
ASPA   39.93 127 iPd    21 59.30  -1.8
      0.9s   777.90nm          6.6mb
                i       22 01.30
                iPcP    24 07.20
                eS      27 54.80
                eScS    32 02.10
FORR   39.93 141 eP     22 00.00  -0.9
      0.3s   111.00nm          6.2mb
                e       22 02.00
GTA    40.28 360 iPc    22 04.20   0.3
      0.8s    50.00nm          5.4mb
    Z  20s    33.10um          6.2Msz
    N  13s    11.00um
                pP      22 19.00  58kmX
                PP      23 40.00
                ScP     27 54.00
TIY    40.31  16 Pc     22 03.00  -1.0
      0.8s    60.00nm          5.5mb
    Z  24s    26.90um          6.0MszX
    N  15s    16.70um
                PP      23 42.00
                PcP     24 05.50
                sS      28 22.50
TIA    40.43  22 eP     22 04.40  -0.6
      9.0s  2300.00nm          6.0mb X
    Z  18s    48.50um          6.4Msz
    N  16s    43.70um
                sP      22 21.00
BTO    42.49  11 iPc    22 21.50  -0.5
      8.0s  2500.00nm          6.0mb X
    N  15s    46.60um
    E  15s    21.60um
                sP      22 39.00
                ePP     24 04.00
                S       28 42.00
                sS      29 04.00
                ScS     32 17.50
HHC    43.06  13 eP     22 26.50  -0.1
      8.0s  3000.00nm          6.1mb X
    Z  15s    74.60um          6.7MszX
    N  14s    26.30um
    E  14s    11.60um
                sP      22 42.50
                PP      24 11.00
                S       28 47.00
                sS      29 08.50
                SS      31 54.00
                ScS     32 24.00
OIS    43.39 119 iPd    22 27.00  -2.5
      0.3s    52.00nm          5.8mb
                i       24 19.70
                i       28 53.30
BJI    43.55  18 iPc    22 30.51   0.1
      0.8s   180.00nm          5.9mb
    Z  20s    20.90um          6.0Msz
    N  13s     7.10um
    E  13s    11.20um
                epPd    22 44.41  53kmX
                ePP     24 14.00
                eScP    28 07.00
                eS      28 54.00
                eSS     32 00.00
                eScS    32 23.00
KAGJ   43.56  40 eP     22 31.00   0.3
KUMJ   44.43  38 eP     22 37.30  -0.3
DL2    44.54  24 Pc     22 37.00  -1.4
      1.0s   380.00nm          6.1mb
    Z  16s    24.30um          6.2MszX
    N  15s    29.70um
    E  16s    12.00um
                S       29 07.50
SHNJ   45.68  37 eP     22 48.10   0.5
KSH    45.88 334 Pc     22 50.00   0.8
    E  10s     6.70um
                S       29 31.00
WMO    45.99 348 iPc    22 49.75  -0.3
                epPd    23 05.56  62kmX
                iS      29 31.85
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			iS	29 32.26	
			iScS	32 40.56	
			eSS	33 17.80	
SHK	46.91	38	ePd	22 56.80	-0.5
GUMO	46.93	70	iPc	22 55.60	-2.2
	0.5s	126.53nm			6.1mb
PJG	46.93	70	eP	22 56.70	-1.1
GUA	46.96	70	eP	22 56.50	-1.5
	0.6s	261.33nm			6.3mb
TKSJ	47.41	39	eP	23 03.10	1.9
SNY	47.80	24	iPc	23 02.50	-1.6
	0.8s	100.00nm			5.9mb
Z	16s	36.00um			6.4MszX
N	15s	7.90um			
E	15s	16.60um			
			sP	23 20.00	
			iS	29 52.00	
TLG	48.52	338	iP	23 13.00	3.1X
			eS	30 10.00	
CTAO	49.14	116	iPc	23 13.25	-1.6
	1.0s	192.50nm			6.1mb
			e	23 15.41	
			eS	30 08.14	
FRU	49.25	336	iPc	23 14.50	-0.9
			iS	30 17.00	
ADE	49.46	137	iPc+	23 17.00	-0.2
	0.8s	417.91nm			6.5mb
OLP	49.61	125	eP	23 17.00	-1.4
	1.0s	2250.00nm			7.2mb X
			i	23 31.70	
CN2	50.20	24	Pc	23 21.00	-1.6
	1.0s	170.00nm			6.0mb
Z	20s	79.00um			6.7Msz
N	16s	36.70um			
E	16s	12.60um			
			epP	23 33.00	43kmX
			PcP	24 41.00	
			ePP	25 17.00	
			ScP	28 31.00	
			eS	30 26.00	
			eSS	33 56.00	
MAJO	51.66	40	iPc	23 33.34	-0.5
			ipPd	23 48.23	56kmX
			eS	30 45.79	
			e	30 53.24	
MAT	51.66	40	eP	23 33.00	-0.9
	1.0s	110.00nm			5.8mb
Z	20s	5.32um			5.6Msz
			eS	30 47.00	
MDJ	52.63	26	iPc	23 40.62	-0.3
	1.0s	170.00nm			6.0mb
Z	20s	37.30um			6.4Msz
			epPd	23 55.52	56kmX
			PcP	24 49.49	
			iS	31 02.91	
			e	31 29.56	
MAIO	52.80	319	eP	23 41.00	-1.5
			eS	31 06.00	
CMS	52.91	130	eP	23 42.00	-1.3
	0.4s	57.00nm			6.0mb
			i	23 58.00	
HIA	53.00	16	iPc	23 42.29	-1.4
			epPd	23 56.85	54kmX
			ePcP	24 50.90	
BFD	53.27	137	e(P)	23 44.00	-1.8
			i	23 45.20	
			i	24 01.00	
			i	24 15.00	
			i	28 13.00	
IRK	53.28	3	iP+	23 45.00	-0.6
			e	23 59.20	
			ePcP	24 51.00	
			e	25 04.50	
			ePP	25 52.00	
			ePPP	27 08.00	
			ePcS	28 54.00	
			e	29 11.00	
			iS	31 15.00	
			ePS	31 34.00	
			eScS	33 32.00	
			eSS	35 10.00	
RMQ	53.34	123	iPd	23 46.20	-0.3
	0.9s	317.00nm			6.3mb
			i	24 01.00	
PAF	54.38	203	eP	23 55.00	1.2
			eS	31 25.00	
DHR	55.09	303	iPd	23 59.00	-0.4
			iS	31 38.00	
TOO	55.49	136	e(P)	24 02.40	0.3
			i	24 04.00	
BWA	56.13	132	eP	24 07.30	0.5
CAN	56.95	132	eP	24 12.00	-0.7
BRS	57.02	122	iPd	24 13.00	-0.3
			i(pP)	24 28.00	56kmX
			i(PP)	25 18.00	
			iS	32 03.00	
CNB	57.22	132	e(P)	24 09.00	-5.6X
			i	24 15.00	
COO	57.34	126	eP	24 15.00	-0.5
			i	24 17.00	
RYD	57.55	300	eP	24 16.00	-1.0
			iS	32 08.00	
SAP	57.56	35	eP	24 17.00	0.3
RIV	57.96	130	eP	24 21.00	1.3
Z	20s	10.21um			5.9Msz
			eS	32 20.00	
KMSA	58.20	295	eP	24 18.00	-3.6X
IR4	58.20	313	eP	24 20.50	-1.0
IR5	58.42	313	eP	24 22.00	-1.1
IR1	58.44	314	eP	24 22.00	-1.2
IR7	58.63	314	eP	24 23.50	-1.0
TAU	59.40	141	iPc	24 29.37	-0.1
			isPc	24 50.14	
			eS	32 39.00	
BISH	59.84	294	ePd	24 33.00	0.0
HNR	60.35	100	eP	24 26.00	-10.5X
YSS	60.80	32	iPc	24 38.00	-1.0
			eS	32 52.00	
AAE	61.66	281	eP	24 44.80	-1.0
BHD	62.30	309	ePd	24 49.00	-0.4
			ePcP	25 07.00	
			iS	33 10.00	
			iPS	33 34.00	
SLY	62.34	312	ePc	24 48.00	-1.6
			eS	33 09.00	
TAB	62.75	314	eP	24 52.00	-0.5
			i	25 08.00	
MSL	64.40	312	ePd	25 02.50	-0.6
			ePcP	25 14.00	
			eS	33 32.00	
			ePS	33 58.00	
CSY	65.53	175	eP	25 10.40	0.6
	0.7s	7.10nm			4.8mb X
			iPcP	25 45.00	
CLK	65.54	253	iPd	25 12.00	1.1
YAK	66.88	15	eP	25 14.10	-4.5X
			epP	25 38.00	94kmX
			ePcP	25 44.00	
			ePP	27 39.00	
			ePPP	28 48.00	
			iS	34 03.00	
			ePS	34 34.00	
			esS	34 45.00	
			iScS	35 06.00	
			eSS	37 53.00	
			eSSS	41 41.00	
DZM	67.96	113	iPd	25 25.50	-0.7
HOL	68.71	302	eP	25 30.00	-0.7
MTD	68.90	253	iPd	25 30.50	-1.6
			iPcP	25 44.80	
			iP'P'	53 47.60	
PTZ	68.91	255	iPd	25 32.00	-0.2
			i	25 43.10	
MBH	68.98	302	eP	25 30.80	-1.6
BKM	69.11	108	iPc	25 34.70	1.4
JVI	69.12	305	eP	25 31.50	-1.7
HRI	69.16	306	eP	25 32.20	-1.3
BHL	69.40	307	P	25 34.00	-0.9
			S	34 36.00	
ADI	69.53	306	eP	25 34.60	-1.0
KRI	70.78	253	iPd	25 40.30	-3.3X
			iPcP	25 56.10	
MAW	71.14	194	eP	25 45.00	0.3
	0.9s	51.00nm			5.5mb
Z	19s	8.00um			6.0Msz
KVT	71.24	314	eP	25 47.00	1.1
BFT	71.37	243	eP	25 49.50	2.3
	1.0s	120.00nm			5.8mb
CSS	71.53	307	eP	25 46.50	-1.3
HLW	71.99	302	eP+	25 50.90	0.3
			eS	35 07.00	
BUL	72.02	249	iPd	25 49.90	-1.2
	0.6s	30.00nm			5.4mb
LSZ	72.03	254	eP	25 50.00	-1.1
			i	26 03.00	
SLR	72.95	244	ePc	25 55.72	-0.7
	0.9s	67.23nm			5.6mb
			ic	26 11.53	
KAS	72.96	314	iPc	25 56.70	0.5
MSZ	73.78	136	eP	26 01.30	0.6
PRY	73.82	242	eP	25 54.00	-7.5X
	1.0s	53.00nm			5.4mb
			i	26 22.00	
KSR	74.20	244	iPd	26 01.50	-2.3
	0.8s	37.50nm			5.4mb
BCK	74.30	309	eP	26 04.00	0.0
ELL	74.66	309	iP	26 05.50	-0.7
TIK	74.95	9	iPc	26 05.00	-2.0
			eS	35 36.00	
KHL	75.32	310	eP	26 08.00	-1.9
HRT	75.80	313	eP	26 07.00	-5.5X
OBN	75.90	328	iPc	26 12.00	-0.7
	1.9s	1700.00nm			6.7mb
Z	12s	12.00um			6.4MszX
N	11s	6.50um			
E	12s	5.80um			
			epP	26 46.00	136kmX
			esP	26 57.00	
			ePP	28 57.00	
			ePPP	30 43.00	
			iS	35 48.00	
			eSKS	36 09.00	
			eSS	40 28.00	
			esSS	41 57.00	
HVD	76.00	239	eP	26 09.00	-5.0X
	1.0s	40.00nm			5.3mb
FRS	76.04	240	iPc	26 14.70	0.7
	0.7s	41.10nm			5.5mb
LTZ	76.42	134	P	26 15.40	-0.6
			e	26 31.90	
THZ	76.69	133	eP	26 16.40	-1.1
CTT	76.79	313	eP	26 18.80	0.8
IZM	77.07	310	eP	26 18.20	-1.5
KHZ	77.28	133	P	26 20.20	-0.4
DIW	77.28	132	eP	26 20.20	-0.5
DMK	77.43	313	eP	26 20.00	-1.5
PSN	77.55	315	iP	26 22.00	-0.1
TCW	77.61	132	eP	26 21.30	-1.2
NPS	77.78	306	eP	26 23.00	-0.6
MRW	77.93	132	eP	26 22.50	-1.7
WEL	77.99	132	P	26 24.00	-0.6
	1.0s	*******nm			8.1mb X
Z	22s	17.78um			6.3Msz
			(pP)	26 42.00	66kmX
			S	36 12.00	
			SS	41 16.00	
PRK	78.00	310	eP	26 24.00	-0.7
KIW	78.03	131	eP	26 23.20	-1.6
EZN	78.07	311	eP	26 22.80	-2.2
CAW	78.18	132	eP	26 24.20	-1.5
CNZ	78.26	130	P	26 26.80	0.5
NGZ	78.30	130	eP	26 26.30	-0.2
MNG	78.42	131	eP	26 26.50	-0.5
ALN	78.50	312	iPd	26 26.84	-0.5
RDO	78.92	312	eP	26 29.00	-0.7
PGZ	79.01	131	eP	26 29.80	-0.4
VRI	79.07	317	ePd	26 30.00	-0.4
DIM	79.10	313	iP	26 30.00	-0.7
BUC	79.18	316	iPc	26 32.00	1.0
BUC1	79.22	315	iPc	26 32.00	0.8
CVO	79.43	317	ePd	26 33.00	0.6
MLR	79.52	317	ePd	26 32.00	-1.0
PTT	79.54	318	eP	26 32.50	-0.4
RZN	79.63	313	iP	26 33.00	-0.8
PLD	79.72	313	eP	26 34.00	0.0
ATH	79.74	309	eP	26 36.00	1.8
			eS	36 28.00	
PAIG	80.09	311	ePc	26 34.40	-1.6
VLI	80.15	307	eP	26 35.00	-1.4
HBZ	80.20	128	eP	26 35.50	-1.2
SRS	80.36	312	ePc	26 35.76	-1.7
SOH	80.49	312	ePc	26 36.96	-1.2
TNR	80.70	317	ePc	26 41.00	1.8
THE	80.75	311	ePc	26 44.80	5.3X
KKB	80.87	313	iP	26 40.00	-0.1
KNT	80.89	312	ePc	26 38.84	-1.4
AGG	80.98	310	ePc	26 39.00	-1.8
LIT	81.02	311	ePc	26 39.32	-1.7
VAY	81.16	312	iP	26 41.00	-0.6
	1.3s	213.00nm			5.9mb
			i	26 54.40	

02d 05h

GRG	81.22	312	ePc	26 40.36	-1.7
CER	81.52	237	eP	26 42.10	-1.6
	0.8s	18.75nm			5.1mb
KZN	81.60	311	eP	26 44.00	0.0
BMR	81.61	318	ePd	26 57.00	13.2X
TUH	81.63	237	eP	26 45.00	0.7
	1.0s	100.00nm			5.8mb
DEV	81.69	317	ePd	26 46.00	1.7
SKO	82.09	312	eP	26 45.50	-1.0
			i	27 01.80	
			i	29 58.00	
			i	36 51.00	
			i	41 26.00	
UZH	82.58	319	iPc	26 49.00	0.2
IGT	82.59	310	ePc	26 48.52	-0.6
TIM	82.82	316	iPc	26 52.00	1.9
BEO	83.22	315	eP	26 52.50	0.3
PVY	83.26	313	iPd	26 52.95	0.3
KAF	83.29	333	iP	26 52.20	0.0
	0.7s	145.70nm			6.1mb
IVA	83.35	313	iPc	26 52.50	-0.6
NUR	83.66	331	iP	26 53.50	-0.6
ULC	83.71	312	iPc	26 54.52	-0.3
PLE	83.78	314	iPc	26 51.72	-3.5X
NKY	84.00	313	iPd	26 54.59	-1.8
SPC	84.00	320	eP	26 55.30	-1.1
			i	27 10.50	
			i	27 29.80	
PSZ	84.05	318	iP	26 57.40	0.9
BDV	84.06	313	iPc	26 54.79	-1.8
SBA	84.20	169	iP	26 58.50	1.9
			iS	37 20.80	
HCY	84.32	313	iPc	26 56.05	-1.8
KRA	84.33	320	eP	26 58.90	1.2
	1.3s	173.00nm			6.0mb
	Z 22s	3.40um			5.7Msz
	E 22s	3.80um			
			i	27 15.30	
			i	27 32.40	
			eS	37 16.00	
BRY	84.34	313	iP	26 55.02	-3.1X
SOD	84.57	338	iP	26 58.50	-0.1
BUD	84.57	318	e(P)	27 01.00	2.0
UZD	84.76	317	eP	27 02.40	2.5
KEV	85.10	341	iPc	27 01.79	0.6
	0.8s	70.40nm			5.8mb
	Z 22s	9.70um			6.1Msz
			esPc	27 21.82	
			ePP	30 20.17	
			e	32 16.00	
			e	33 46.00	
			eSKS	37 18.24	
			iS	37 24.40	
			e	37 44.26	
			LR	07 24.00	
ROI	85.48	310	P	27 06.70	2.9X
GRI	85.53	309	P	27 05.59	1.6
	1.2s	208.00nm			6.2mb
TDS	85.67	310	P	27 07.70	3.0X
CSI	85.71	310	P	27 05.60	0.7
SOI	85.75	308	P	27 06.20	1.1
CZI	85.79	309	P	27 05.60	0.4
HVAR	85.90	313	iP	27 04.70	-1.0
ZST	85.94	318	eP	27 07.50	1.7
			i	27 13.30	
			i	27 22.60	
MMN	85.95	310	P	27 08.60	2.6
MGR	86.31	310	P	27 07.52	-0.3
	0.8s	157.50nm			6.3mb
VKA	86.47	318	iPc	27 10.10	1.7
	4.0s	1343.00nm			6.5mb X
	Z 17s	1.30um			5.4MszX
			i	27 15.90	
			i	27 27.20	
			LR	14 00.00	
ZAG	86.47	316	iPc	27 10.00	1.6
PTJ	86.50	316	iPc	27 07.90	-0.8
SGO	86.53	311	P	27 10.89	2.1
	1.4s	192.00nm			6.1mb
PZI	86.58	307	P	27 11.70	2.4
	0.8s	83.70nm			6.0mb
ADK	86.79	38	eP	27 10.20	0.3
	0.8s	146.21nm			6.2mb
MNO	86.82	308	P	27 13.64	3.0X
VBY	86.95	315	eP	27 11.00	0.2
UPP	87.00	330	iP	27 10.50	-0.2
			e	37 32.00	

DUI	87.25	312	P	27 13.31	0.9
	2.1s	373.40nm			6.2mb
LJU	87.50	316	eP	27 13.60	0.2
			eS	37 37.00	
CEY	87.55	316	eP	27 14.90	1.2
RIY	87.55	315	eP	27 12.90	-0.8
RFI	87.58	311	P	27 15.84	2.0
	1.8s	3018.40nm			7.2mb X
ILT	87.76	22	iPc	27 15.00	0.8
			iS	37 26.00	
PRU	87.78	320	eP	27 15.00	0.3
	2.3s	322.60nm			6.1mb
	Z 17s	2.60um			5.7MszX
	N 22s	3.00um			
	E 21s	1.20um			
			e	27 30.70	
			ePP	30 30.00	
			S	37 38.00	
TRO	87.83	340	eP	27 15.00	0.5
KMR	87.91	318	iP+	27 15.00	-0.4
			iPP	30 42.60	
VOY	87.94	316	eP	27 14.80	-0.9
TRI	88.01	316	eP	27 13.50	-2.4
			e	27 16.10	
AOU	88.07	312	P	27 18.20	1.8
AFI	88.17	104	ePc	27 18.12	0.8
			epPd	27 32.27	48kmX
BRG	88.22	321	iP	27 17.00	0.2
	1.5s	290.00nm			6.3mb
			i	27 32.80	
			iS	37 52.00	
NVL	88.34	199	ePd	27 19.00	2.0
			ePcP	27 26.00	
			e	27 31.00	
			e	27 36.00	
			e	27 49.00	
			e	28 04.00	
			e	28 25.00	
			e	28 43.00	
			ePP	30 52.00	
			e	38 02.00	
			e	38 28.00	
			eS	38 38.00	
			ePS	38 41.00	
			e	38 58.00	
			e	39 10.00	
			e	40 41.00	
KHC	88.35	319	P	27 18.00	0.5
	Z 22s	2.00um			5.5Msz
	N 22s	1.90um			
	E 22s	2.30um			
			e	27 33.00	
			e	27 52.00	
			S	38 42.00	
KBA	88.38	317	iPc	27 17.90	0.0
	1.1s	41.10nm			5.6mb
			i	27 24.50	
			e	30 51.00	
ARV	88.47	313	P	27 18.84	0.6
	1.0s	191.10nm			6.3mb
RDP	88.55	312	P	27 19.50	0.8
RMP	88.57	312	P	27 20.29	1.6
	1.5s	739.00nm			6.7mb
LVI	88.68	308	P	27 20.70	1.5
BHG	88.73	318	eP	27 19.70	0.4
FVI	88.74	316	P	27 19.81	0.5
	1.3s	124.90nm			6.0mb
BRN	88.78	322	ePc	27 21.00	1.6
WET	88.81	319	eP	27 19.70	0.0
CLL	88.84	321	ePc	27 20.00	0.3
	2.8s	390.00nm			6.2mb
			i	27 36.60	
			e	37 32.00	
			e	38 00.00	
RSM	88.85	314	P	27 22.40	2.5
SPA	88.94	180	iPc	27 21.50	1.4
	1.0s	40.00nm			5.7mb
	Z 20s	11.26um			6.3Msz
			i	29 39.20	
HFS	88.99	330	eP	27 20.80	0.5
	0.4s	9.60nm			5.5mb
	Z 20s	4.40um			5.9Msz
			LR	04 08.00	
CRE	89.20	313	P	27 21.70	-0.1
SFI	89.28	314	P	27 23.30	1.3
	2.0s	5240.00nm			7.5mb X
PGD	89.37	314	P	27 23.61	0.9

COP	89.41	326	eP+	27 24.30	2.0
	0.8s	80.60nm			6.1mb
	Z 20s	3.19um			5.7Msz
			iS	38 10.00	
WTTA	89.56	317	iPd	27 23.30	-0.2
	0.8s	43.10nm			5.8mb
			i	27 30.00	
MOX	89.69	320	eP+	27 24.50	0.7
	2.0s	130.00nm			5.9mb
	Z 27s	5.00um			5.8MszX
			eSKS	37 48.00	
			eS	38 12.00	
MAO	89.74	312	P	27 24.77	0.6
	1.5s	619.00nm			6.7mb
FUR	89.83	318	eP	27 25.30	0.8
	Z 17s	3.00um			5.8MszX
			eS	38 10.50	
MME	90.12	314	P	27 27.54	1.3
BDI	90.19	314	P	27 26.77	0.4
	0.8s	169.00nm			6.4mb
PII	90.24	314	P	27 26.95	0.5
	1.1s	118.30nm			6.1mb
NB2	90.26	331	P	27 23.80	-2.4
	0.7s	13.10nm			5.4mb
SAL	90.28	315	P	27 28.39	1.8
	0.1s	130.10nm			7.2mb X
KBS	90.64	349	eP	27 29.70	2.0
MDI	90.85	316	P	27 29.50	0.3
BOB	91.03	315	P	27 30.21	0.0
	1.1s	133.30nm			6.3mb
KONO	91.04	329	iPc	27 30.59	0.8
			ePP	31 05.33	
CGL	91.09	309	P	27 31.23	0.6
	0.9s	11.60nm			5.3mb
PGF	91.34	312	eP	27 31.30	-0.4
	1.2s	65.45nm			5.9mb
PCP	91.67	314	P	27 33.66	0.6
TNS	91.71	320	ePd	27 33.60	0.4
CKI	91.86	314	P	27 34.22	0.3
	1.3s	75.00nm			6.0mb
FIN	91.91	314	P	27 34.69	0.5
IMI	92.14	314	P	27 35.71	0.4
ROB	92.15	314	P	27 35.61	0.3
SBF	92.47	314	eP	27 36.20	-0.6
	1.0s	56.00nm			5.9mb
ENR	92.48	314	P	27 36.63	-0.3
CDF	92.50	318	eP	27 36.00	-0.9
	1.0s	22.00nm			5.5mb
BNS	92.51	321	ePc	27 38.30	1.6
STV	92.55	314	P	27 36.22	-1.0
RSP	92.58	315	P	27 37.35	0.0
LSD	92.64	315	P	27 38.38	0.5
PZZ	92.70	314	P	27 35.61	-2.4
WTS	92.71	322	eP	27 40.00	2.4
	1.0s	13.00nm			5.3mb
BSF	92.84	318	eP	27 37.30	-1.2
	1.0s	12.00nm			5.3mb
RRL	92.92	315	P	27 38.58	-0.5
LPG	92.93	315	eP	27 38.50	-0.7
	0.6s	17.15nm			5.7mb
LPL	92.94	315	eP	27 38.60	-0.6
	1.2s	65.45nm			5.9mb
BNI	92.99	315	P	27 41.70	2.4
RSL	93.01	316	P	27 39.63	0.2
ANM	93.02	26	e(P)	27 41.00	2.2
FRF	93.05	313	eP	27 39.10	-0.3
	1.0s	28.00nm			5.6mb
HAU	93.13	318	eP	27 38.80	-0.9
	0.9s	27.85nm			5.7mb
	Z 19s	3.25um			5.8Msz
LMR	93.16	313	eP	27 39.40	-0.5
	1.2s	23.80nm			5.5mb
BER	93.16	330	eP	27 41.50	2.0
ASK	93.22	330	eP	27 41.90	2.1
MEM	93.26	320	P	27 43.30	3.1X
			e	27 56.90	
LRG	93.26	313	eP	27 40.30	-0.1
	Z 21s	3.25um			5.8Msz
ENN	93.31	321	eP	27 42.00	1.6
	2.0s	100.00nm			5.9mb
CDR	93.69	314	eP	27 46.50	4.2X
			e	27 56.70	
DBN	93.71	322	eP	27 44.00	1.8
	Z 20s	3.50um			5.8Msz
			ePP	31 30.00	
			eSKS	38 14.00	
			eS	38 48.00	

```
                    ePS    40 00.00
DOU     94.19 320 P+     27 46.00    1.5
                    PP     31 35.00
                    SKS    38 14.00
                    S      38 52.00
                    SP     40 03.00
UCC     94.30 321 P+     27 46.00    1.1
                    PP     31 37.00
                    SKS    38 16.00
                    S      38 53.00
LBF     94.79 317 eP     27 46.50   -0.9
        1.0s    20.00nm          5.5mb
LOR     94.85 317 eP     27 47.00   -0.6
        1.0s    23.00nm          5.6mb
      Z  21s     3.50um          5.8Msz
SMF     94.90 317 eP     27 46.80   -1.1
        1.0s    28.00nm          5.6mb
SSF     95.10 317 eP     27 48.10   -0.7
AVF     95.23 317 eP     27 48.30   -1.0
        1.0s    16.00nm          5.4mb
BGF     95.59 317 eP     27 50.70   -0.4
        1.0s    30.00nm          5.7mb
MAF     95.81 316 eP     27 51.60   -0.5
        0.9s     9.85nm          5.3mb
CAF     96.27 315 eP     27 53.80   -0.4
        1.2s    16.35nm          5.4mb
LPO     96.91 315 eP     27 57.00    0.0
DAG     97.37 348 iPd    27 58.60    0.1
        0.9s    26.05nm          5.8mb
      Z  21s    11.90um          6.4Msz
      N  20s     6.10um
LDF     97.39 319 eP     27 57.80   -1.3
        1.0s    12.00nm          5.4mb
FLN     97.61 319 eP     27 59.10   -1.0
MFF     97.64 317 eP     27 59.20   -1.1
EBR     97.78 311 eP     28 04.00    3.0X
                    e      38 34.00
                    e      39 20.00
GRR     97.91 319 eP     28 00.60   -0.8
SVW     97.93  28 ePc    28 02.30    0.9
        0.7s    23.26nm          5.8mb
                    ePP    32 03.50
BTH     98.07 313 eP     28 02.00   -0.3
                    PP     31 35.00
                    SKS    31 38.50
                    PS     40 43.00
                    SSSS   50 53.20
LPF     98.07 318 eP     28 01.50   -0.7
        1.0s    16.00nm          5.5mb
EKA     98.26 326 Pc     28 04.20    1.3
        0.9s     9.40nm          5.3mb
COL    100.31  24 iPdiff28 11.76   -0.2
                    ed     28 21.20
                    ePd    28 27.16
FBA    100.31  24 ePdiff28 14.00    2.0
        0.8s    17.24nm          5.7mb
                    ePP    32 18.30
SLKM   100.65  28 ePdiff28 12.60   -1.0
PMR    100.82  27 ePdiff28 14.30    0.0
        0.8s    29.66nm          6.0mb
      Z  18s     5.71um          6.1Msz
                    ePP    32 20.00
MBC    101.74   9 ePdiff28 19.00    0.9
        0.6s     5.00nm          5.3mb
MAL    102.05 307 iPdiff28 22.00    1.6
                    iPP    32 32.00
VAL    103.13 323 Pdiff 28 28.00    3.3X
                    S      40 07.00
INK    103.83  18 ePdiff28 27.00   -0.5
BALM   104.08  26 ePdiff28 30.50    1.5
                    ePP    32 49.70
AVE    104.98 304 ePdiff32 54.00  260.5X
                    i      33 08.50
TIO    105.20 302 iPKP  32 57.50    8.4X
                    i      33 13.50
YKA    113.53  17 ePdiff29 12.00    1.2
        0.8s     1.40nm
YKA    113.53  17 ePKP  33 02.60   -1.1
        0.9s     4.80nm
FRB    116.88 354 ePKP  33 10.00    0.0
PNT    121.28  29 ePKP  33 19.00    0.1
        0.9s    62.00nm
COR    122.29  35 iPdiff29 53.71    3.5X
                    eSKS   40 21.51
                    e      40 40.82
                    e      42 09.66
                    ePS    44 56.99
NEW    123.20  29 ePKP  33 21.60   -1.0
FFC    123.61  15 ePKP  33 22.00   -1.2
        0.8s    55.00nm
FHC    124.03  39 iPKPc 33 26.32    1.8
WDC    125.06  39 ePKPc 33 27.30    0.8
SCH    125.32 351 ePKPc 33 26.00   -0.5
        0.8s    47.00nm
MIN    125.78  39 ePKPc 33 28.87    0.7
ORV    126.30  39 ePKPc 33 29.80    0.8
BKS    126.77  41 ePKP  33 31.00    1.1
        0.9s    25.00nm
      Z  20s     5.00um          6.2Msz
      N  20s     4.50um
      E  20s     3.70um
                    ePP    35 17.00
                    ePKS   36 51.00
                    eSKSP  47 13.00
                    ePPS   53 19.00
                    eSSS   02 15.00
                    eLQ    08 13.00
                    eLR    13 38.00
PCC    126.87  42 ePKPc 33 31.37    1.3
LRM    127.18  28 ePKP  33 31.30    0.6
CMB    127.89  40 ePKPc 33 32.02   -0.1
                    ePP    35 21.18
                    eSKP   37 04.37
PRS    128.19  43 ePKPc 33 34.64    2.0X
LLA    128.32  42 ePKPc 33 35.69    2.8X
TNP    129.87  38 e(PKP)33 26.80   -9.2X
                    ePP    36 54.00
SYP    130.13  44 ePKP  33 38.00    1.5
                    ePKS   36 57.00
ISA    130.51  42 ePKP  33 38.00    0.9
                    ePP    35 51.00
                    ePKS   37 01.00
BW06   130.83  29 ePKP  33 37.80    0.0
                    ePP    35 53.50
                    SKP    36 36.50
CLC    131.00  41 ePKP  33 37.00   -1.1
                    e      33 55.00
                    ePP    35 53.00
                    ePKS   36 57.00
S8B    131.50  42 ePKP  33 29.00  -10.1X
                    ePP    36 05.00
                    ePKS   37 03.00
MWC    131.61  43 ePKP  33 28.00  -11.5X
                    ePP    35 55.00
                    ePKS   37 07.00
GSC    131.82  41 ePKP  33 31.00   -8.7X
                    e      33 42.00
                    ePP    36 04.00
                    ePKS   37 01.00
RSSD   132.17  23 e(PKP)33 38.00   -2.2X
      Z  20s     6.78um          6.4Msz
                    ePP    36 02.50
                    iSKP   37 02.30
RVR    132.21  43 ePKP  33 41.00    0.7
                    ePP    36 03.00
                    ePKS   37 08.00
PEC    132.41  43 ePKP  33 41.80    1.0
                    e      37 05.00
PLM    132.93  43 ePKP  33 42.00    0.0
                    ePP    36 10.00
                    eSKP   37 14.30
TPC    133.03  42 ePKP  33 44.00    2.0
                    ePP    36 10.00
                    ePKS   37 08.00
BAR    133.44  44 ePKP  33 44.00    1.2
                    ePP    36 11.00
                    ePKS   37 15.00
PV09   134.25  32 ePKP  33 45.00    0.5
                    ePP    37 22.00
GLA    134.48  42 ePKP  33 46.00    1.3
                    ePP    36 18.00
                    ePKS   37 10.00
GOL    135.21  28 ePKP  33 47.20    1.0
      Z  19s     3.30um          6.1Msz
                    ePP    36 24.10
GLD    135.24  28 ePKP  33 47.50    1.3
      Z  21s     5.37um          6.2Msz
BNH    135.95 351 ePKP  33 47.00   -0.1
                    e      37 20.00
ANMO   138.32  33 iPKPc 33 52.46    0.3
                    ePP    36 42.00
                    iSKP   37 35.80
ALQ    138.32  33 ePKP  33 42.20  -10.0X
      Z  19s     3.82um          6.2Msz
SOB1   139.58 255 ePKP  33 45.40   -9.3X
                    e      33 55.30
TBR    139.75 353 ePKP  33 54.70    0.5
VAO    139.80 231 ePKP  33 55.70    0.7
                    e      34 15.80
                    e      37 42.80
PNJ    139.97 353 PKP   33 55.70    1.1
GMTN   140.00 353 iPKP  33 54.40   -0.3
FVM    142.07  13 e(PKP)33 52.80   -5.7X
MEO    142.31  25 iPKPd 33 53.00   -6.1X
CBN    142.95 356 ePKP  33 58.00   -2.0
BLA    144.03   0 ePKP  33 59.60   -2.3X
ITB    144.04 223 e(PKP)33 50.50  -11.8X
BAO    144.14 241 ePKPc 34 00.00   -2.8X
ITB1   144.26 223 e(PKP)33 54.50   -8.1X
MDZ    144.58 197 i(PKP)34 03.80    0.7
PEL    144.82 194 ePKP  34 01.50   -1.9
IHA    145.15 193 ePKP  34 04.00    0.1
JSC    146.95   2 iPKP  34 06.80    0.0
                    i      34 21.70
                    ePP    37 44.50
CYA    147.58 204 ePKPd 34 09.00    0.9
CGX    150.62  49 (PKP) 34 20.50    7.3X
ANT    153.62 200 ePKP  34 20.00    2.9X
III    154.40  47 (PKP) 34 21.00    2.4X
PPM    154.55  44 (PKP) 34 22.00    2.8X
IIT    154.80  44 (PKP) 34 22.00    2.8X
ACX    155.05  50 (PKP) 34 22.00    2.8X
CCH    157.05 216 PKP   34 25.00    2.7X
OXX    157.22  45 (PKP) 34 26.00    3.6X
CNCB   158.56 214 PKP   34 26.00    1.6
                    i      38 51.00
LPB    158.85 214 PKP   34 26.00    1.5
ZOBO   159.07 214 PKP   34 25.00    0.0
        1.1s    40.60nm
                    i      34 27.20
TRN    159.08 298 ePKP  34 26.90    2.6X
ARE    160.60 206 ePKP  34 29.00    2.8X
PT10   166.57 194 e(PKP)34 33.00    1.5
NNA    166.62 194 iPKPc 34 33.50    1.9
        1.0s    16.00nm
      Z  22s     6.11um
BOG    172.97 300 iPKPc 34 37.00    1.5
PSO    177.17 273 ePKP  34 38.50    1.8
      S.D. = 1.2  on 372 of 429 obs.
-----------------------------------------
    JUL  02, 1991  06h 00m 05.81± 0.73s
    42.940 N ± 9.2km   17.816 E ± 5.5km
    DEPTH =  10.0km  (geophysicist)
 ADRIATIC SEA                        (382)
      ML 2.7 (TTG).

BRY      0.54  94 iPgc   00 16.32   -0.4
                    iSg    00 25.32
HCY      0.70 134 iPgd   00 18.80   -0.9
                    iSg    00 30.76
NKY      0.88  98 iPgd   00 22.41   -0.4
                    iSg    00 36.46
BDV      0.99 131 iPgc   00 24.89    0.2
                    iSg    00 40.11
HVAR     1.03 284 iPg    00 25.20   -0.1
                    iSg    00 41.00
TTG      1.18 115 iPgd   00 28.34    0.5
                    iSg    00 45.64
PLE      1.22  71 ePg    00 28.34   -0.2
                    iSg    00 44.39
ULC      1.44 132 iPgc   00 32.17    0.2
                    iSg    00 54.12
IVA      1.53  92 iPgd   00 33.42    0.1
                    iSg    00 55.19
PVY      1.63 102 iPgd   00 35.62    0.9
                    iSg    01 00.11
VBY      3.16 325 e(Pn)  01 07.60   11.2X
                    e(Sn)  01 38.40
      S.D. = 0.6  on  10 of  11 obs.
-----------------------------------------
    JUL  02, 1991  06h 08m 09.25± 0.11s
    23.233 S ± 3.0km  179.126 W ± 3.1km
    DEPTH = 429.2km  ( 20 depth phases)
    5.7mb ( 77 obs.)
 SOUTH OF FIJI ISLANDS               (171)
      mb 6.2 (BRK).

SVA      5.57 336 iPd    09 37.30   -1.8
VUN      5.67 336 iPd    09 37.80   -2.4
KRO      6.05 346 iPd    09 42.00   -2.3
                    eS     11 14.90
```

02d 06h

SGE	6.26	333	iPd	09 47.10	0.5
			eS	11 19.00	
NDF	6.32	329	eP	09 35.00	-12.1X
			eS	10 53.70	
MBU	6.55	342	eP	09 47.90	-1.7
			eS	11 21.00	
AFI	11.60	38	iPd	10 38.00	-8.2X
PVC	12.97	293	iPc	11 02.40	1.3
			iS	13 26.10	
BKM	13.07	293	iP	11 03.50	1.4
			iS	13 32.00	
DZM	13.37	272	iPd	11 06.40	0.9
			iS	13 32.60	
			ScP	18 55.00	
			ScS	22 36.90	
HBZ	14.49	188	P	11 15.20	-1.9
WLZ	15.25	196	P	11 26.00	1.0
TAZ	15.41	193	eP	11 27.70	1.1
NOZ	15.53	188	eP	11 25.50	-2.3
WHH	16.04	192	P	11 31.60	-1.6
MOH	16.16	190	eP	11 33.30	-1.1
NGZ	16.52	195	eP	11 36.80	-1.3
CNZ	16.55	195	eP	11 36.90	-1.5
PGZ	17.76	192	eP	11 49.60	-0.8
MNG	17.92	193	eP	11 49.20	-2.8
	0.6s	302.00nm			5.9mb
			eS	14 54.00	
RAR	18.03	87	P	12 00.00	6.9X
KIW	18.28	195	P	11 52.80	-2.7
CAW	18.48	194	eP	11 55.50	-1.9
WDW	18.65	194	eP	11 57.30	-1.8
MRW	18.68	195	eP	11 58.00	-1.3
			eS	15 09.80	
WEL	18.72	194	eP	12 01.50	1.8
TCW	18.76	196	eP	11 58.00	-2.2
CCW	19.29	195	eP	12 04.60	-0.6
THZ	19.64	198	eP	12 08.70	-0.1
			eS	15 23.60	
KHZ	20.08	196	P	12 13.30	0.3
	0.6s	422.00nm			6.1mb
			eS	15 29.70	
LTZ	20.77	198	P	12 19.20	-0.4
			eS	15 42.20	
MHZ	23.75	201	P	12 45.50	-1.7
MSZ	23.87	203	P	12 49.00	0.8
			e	13 56.70	
TLC	23.93	201	eP	12 47.60	-1.3
			e	13 58.80	
HNR	24.27	301	eP	12 50.00	-2.1
COO	26.81	248	eP	13 17.00	2.2
	0.6s	35.00nm			5.0mb
			i	19 29.60	
TBI	27.23	96	iP	13 17.70	-0.7
	0.9s	350.00nm			5.8mb
AFR	28.06	84	iP	13 24.50	-1.3
PAE	28.20	84	iP	13 25.80	-1.3
PPT	28.23	84	iP	13 26.40	-0.9
PPN	28.38	84	iP	13 27.50	-1.1
TVO	28.47	85	iP	13 28.20	-1.3
RMO	29.28	257	iPc	13 38.00	1.6
	1.1s	146.00nm			5.3mb
			i	14 54.00	
			i	16 33.00	
			i	19 35.00	
CNB	29.88	239	iPd	13 44.10	2.4
	0.2s	54.00nm			5.6mb
			i	16 34.70	
			i	18 14.40	
			i	19 36.40	
CAN	30.17	239	eP	13 46.30	2.2
			iScP	19 39.10	
BWA	30.42	241	eP	13 46.50	0.2
			eScP	19 38.60	
PMO	30.57	80	iP	13 46.60	-1.1
	1.1s	590.00nm			5.9mb
VAH	30.73	81	iP	13 47.60	-1.4
	1.1s	295.00nm			5.6mb
TPT	30.83	80	iP	13 48.90	-1.0
	1.1s	690.00nm			6.0mb
RUV	30.97	81	iP	13 49.90	-1.2
	1.1s	630.00nm			5.9mb
CMS	32.09	247	eP	14 02.00	1.4
	0.9s	131.00nm			5.3mb
			i	15 22.50	
			i	19 46.60	
CTAO	32.28	269	iPc	14 02.50	0.1
	1.0s	195.00nm			5.4mb

			i(pP)	15 18.00	406kmX
			i(S)	18 45.00	
			i(ScS)	23 46.00	
OLP	33.33	257	iPc	14 12.00	0.9
	0.4s	147.00nm			5.7mb
			i	15 38.30	
			i	19 49.20	
TOO	33.48	237	eP	14 14.00	1.7
	0.1s	457.00nm			6.8mb X
			i	14 48.00	
			i	15 06.00	
			e	19 06.50	
			e	19 48.00	
TAU	33.97	227	iPd	14 18.60	2.3
			e	19 49.00	
PMG	35.05	287	iPc	14 25.40	-0.2
	1.0s	1040.00nm			6.2mb
BFD	35.67	238	eP	14 30.50	-0.2
			i	14 31.70	
			i	16 48.40	
			i	19 54.40	
STK	35.72	247	iPc	14 32.10	1.0
	0.5s	51.90nm			5.2mb
			iPcP	16 50.20	
			iS	19 39.20	
			iScP	19 56.80	
			iScS	24 02.20	
OIS	38.30	266	iPc	14 52.20	-0.3
	0.6s	15.00nm			4.6mb X
			i	16 57.40	
			i	20 07.00	
ADE	38.40	243	eP	14 54.00	0.8
	1.0s	392.00nm			5.8mb
RKT	40.47	99	iP	15 10.20	0.0
	1.2s	540.00nm			5.8mb
ASPA	42.94	260	iPc	15 30.00	-0.1
	1.2s	98.70nm			5.1mb
			i	16 51.70	
			iScP	20 26.70	
			eS	21 21.90	
			iScS	24 45.70	
WB2	43.24	265	iPc	15 31.50	-1.0
			iPcP	17 14.70	
			i	18 34.30	
			e	18 48.40	
			eScP	20 26.50	
			ePcS	21 19.40	
			i	21 34.60	
			eScS	24 43.40	
			e	25 37.00	
			i	25 57.10	
			e	26 08.90	
WRA	43.25	265	P	15 41.00	8.4X
	0.6s	23.30nm			4.7mb
FORR	47.26	249	eP	16 03.00	-0.5
	0.4s	237.00nm			5.9mb
MTN	48.21	273	iPd	16 09.80	-1.2
			e	20 47.00	
HON	48.83	27	P	16 14.20	-1.3
WARB	49.06	255	eP	16 16.50	-0.9
	0.4s	36.00nm			5.1mb
OPA	49.16	26	P	16 15.90	-2.1
KNA	49.47	269	iPc	16 19.90	-0.7
	0.3s	55.00nm			5.4mb
GUA	50.74	312	ePc	16 28.70	-1.2
	1.0s	1080.00nm			6.1mb
GUMO	50.80	312	iPc	16 29.00	-1.3
	1.0s	832.00nm			6.0mb
			e	17 40.00	
			e	17 57.60	
PJG	50.80	312	iPc	16 29.00	-1.3
COOL	53.20	248	eP	16 46.50	-1.3
	0.4s	91.00nm			5.5mb
SBA	55.09	184	iPc	17 04.00	3.4X
KLB	55.98	247	eP	17 06.10	-1.4
RKG	56.23	243	eP	17 09.00	-0.1
	0.4s	114.00nm			5.6mb
NWAO	56.24	245	eP	17 08.50	-0.8
	0.4s	54.00nm			5.3mb
BAL	57.02	248	eP	17 14.00	-0.7
	0.3s	126.00nm			5.8mb
MUN	57.23	246	eP	17 16.00	-0.2
	1.0s	360.00nm			5.8mb
MRWA	57.87	249	iPc	17 20.00	-0.5
NANU	59.71	257	eP	17 32.50	-0.6
CSY	61.06	206	iPc	17 42.00	0.6
	0.7s	58.50nm			5.2mb

			e	19 10.10	
DAV	61.86	292	eP	17 45.50	-1.8
CGP	63.31	293	eP	17 55.00	-1.7
	1.0s	169.00nm			5.6mb
MAP	64.88	294	ePd	18 04.00	-2.7
SPA	66.91	180	iPd	18 20.80	1.8
	1.0s	230.00nm			5.8mb
			i	19 51.30	
KAKJ	70.53	326	P	18 39.90	-1.0
CVP	70.59	300	ePc	18 41.00	-0.6
	1.0s	28.00nm			4.8mb
BAG	70.89	298	eP	18 42.00	-1.7
			e	20 12.00	
CHJJ	71.02	325	iP+	18 42.80	-1.0
IIDJ	71.17	324	P	18 43.70	-1.1
WKYJ	71.53	322	eP	18 45.90	-1.0
MAT	71.81	325	eP	18 44.00	-4.4X
	0.9s	100.84nm			5.4mb
NIIJ	71.92	326	eP	18 47.90	-1.1
OFUJ	72.03	329	P	18 48.80	-0.8
MTMJ	72.05	325	iP+	18 49.10	-0.9
YAMJ	72.11	327	eP	18 49.70	-0.4
TKSJ	72.26	320	eP	18 49.90	-1.2
TSRJ	72.27	323	iP+	18 50.60	-0.5
YONJ	73.45	321	eP	18 56.80	-1.1
KUSJ	73.92	333	eP	18 59.70	-0.7
HOOJ	73.94	332	eP	19 00.90	0.4
SHNJ	74.11	319	eP	19 00.00	-1.7
ADK	74.82	2	iP	19 03.20	-2.0
	0.9s	823.33nm			6.4mb
			ePP	21 55.50	
MRRJ	74.95	331	eP	19 05.80	-0.4
ASAJ	75.62	333	eP	19 10.60	0.7
SMY	75.87	356	P	19 09.80	-1.2
QZH	77.06	304	iPc	19 18.00	-0.2
	0.8s	150.00nm			5.7mb
			S	28 31.00	
MAW	78.65	200	iPd	19 28.00	1.9
	1.2s	188.00nm			5.6mb
SSE	78.66	311	Pd	19 26.00	-0.7
	1.0s	49.00nm			5.1mb
			ScS	29 02.00	
HKC	79.11	300	iP	19 30.40	1.1
KGM	79.37	277	ePc	19 31.00	0.1
	0.9s	170.10nm			5.7mb
			e	21 09.60	
SDN	79.86	11	P	19 30.70	-1.8
	0.8s	606.90nm			6.3mb
BLP	80.06	46	P	19 43.00	9.0X
SYP	80.32	46	iP+	19 36.00	0.5
			e	21 13.00	
PRS	80.51	44	iPc	19 37.40	1.1
			epP	21 13.80	429km
GCC	80.54	43	eP	19 37.12	0.7
			e(pP)	21 13.30	428km
PCC	80.59	42	iPc	19 37.44	0.7
BCH	80.64	45	P	19 38.30	1.1
			pP	20 15.00	147kmX
SAO	80.73	43	iPc	19 37.98	0.5
			epP	21 14.70	430km
NJ2	80.83	311	iPc	19 38.70	0.6
	1.0s	200.00nm			5.7mb
			pP	21 16.40	435km
			S	29 12.00	
PRI	80.84	44	iPc	19 39.40	1.2
			epP	21 18.30	442kmX
NWRM	80.88	41	P	19 39.00	0.8
BRK	80.90	42	iPc	19 39.10	0.8
			epP	21 18.30	443kmX
BKS	80.92	42	iPc	19 39.40	1.0
	1.0s	291.00nm			5.9mb
ZSP	80.95	42	iPc	19 39.62	1.1
LLA	80.95	44	eP	19 39.51	0.9
			epP	21 15.50	426km
MHC	80.96	43	iPc	19 39.80	1.0
			epP	21 16.00	427km
ABL	81.01	46	P	19 40.00	0.7
			pP	20 16.70	147kmX
PAS	81.30	47	iP+	19 40.00	-0.5
MWC	81.42	47	iP+	19 41.00	-0.4
BAR	81.49	49	eP	19 42.00	0.5
FOX	81.55	39	iPc	19 43.19	1.6
FHC	81.73	39	ePc	19 43.85	1.3
PLM	81.74	48	iP+	19 43.00	0.0
RVR	81.75	48	iP+	19 43.00	0.2
PEC	81.84	48	iPc	19 43.50	0.2
			epP	21 19.80	427km

SBB	81.85	47	iP+	19 44.00	0.6
FRI	81.97	44	eP	19 44.67	0.9
			epP	20 16.10	123kmX
ISA	81.98	46	iP+	19 44.00	0.0
			e	21 20.00	
MDJ	82.16	326	Pc	19 45.30	0.7
	1.4s	310.00nm			5.8mb
			pP	21 23.00	433km
CMB	82.17	43	iPc	19 45.58	0.7
			epP	20 14.30	111kmX
ORV	82.41	41	iPc	19 46.75	0.7
			epP	21 23.70	429km
WDC	82.43	40	iPc	19 46.94	0.8
			epP	21 22.70	423km
LTCM	82.45	40	P	19 46.80	0.6
CLC	82.65	46	iP+	19 48.00	0.6
TPC	82.72	48	iP+	19 48.00	0.2
			e	21 26.00	
MIN	82.84	41	iPc	19 48.47	0.1
GSC	82.89	47	iP+	19 49.00	0.4
GLA	82.99	50	iP+	19 50.00	0.9
WHN	83.23	307	iPd	19 51.50	1.2
	1.0s	100.00nm			5.5mb
			pP	21 29.50	434km
LBFM	83.30	40	P	19 51.80	1.1
BONR	83.44	44	P	19 52.40	0.8
SNY	83.64	321	iPc	19 52.00	0.0
	1.4s	200.00nm			5.7mb
KDC	83.69	14	P	19 50.90	-1.1
	0.9s	66.67nm			5.4mb
CN2	83.83	323	iPc	19 53.20	0.2
	1.4s	460.00nm			6.0mb
			pP	21 30.00	427km
			eSKS	29 30.00	
			eS	29 40.00	
TNP	84.21	44	iPc	19 55.30	0.0
	1.0s	143.75nm			5.7mb
			epP	21 32.50	428km
			e	22 49.60	
			ePP	23 10.00	
KVN	84.21	43	P	19 55.80	0.5
TIA	84.36	313	Pc	19 56.00	0.2
	1.1s	290.00nm			5.9mb
			pP	21 34.40	434km
			SKS	29 38.50	
			S	29 47.00	
PDB	85.21	12	P	19 58.00	-1.5
BMW	85.82	35	P	20 03.60	0.8
NVL	85.94	184	iPc	20 03.50	0.5
			ePcP	20 13.00	
			ipP	21 40.50	425km
			e	21 44.00	
			e	21 49.00	
			ePP	23 05.00	
			e	23 50.00	
			eS	29 47.00	
			eScS	30 00.00	
			e	30 12.00	
			e	30 40.00	
SHW	86.16	36	P	20 05.60	1.1
SVW	86.17	11	iPc	20 02.70	-1.4
	0.7s	145.35nm			5.9mb
VGB	86.53	37	P	20 06.60	0.4
SNA	86.69	179	iPd	20 07.90	1.4
	1.0s	162.00nm			5.8mb
SLKM	86.70	14	iPc	20 05.50	-1.2
			epP	21 42.20	423km
			ePP	23 29.50	
LON	86.75	35	P	20 07.50	0.3
NNT	86.94	285	iPc	20 11.00	2.3
GYA	87.10	300	iPc	20 09.40	-0.1
	1.2s	40.00nm			5.1mb
			pP	21 48.00	432km
			SKS	29 57.00	
BJI	87.11	316	eP	20 09.50	0.5
	2.0s	460.00nm			5.9mb
			epP	21 45.00	416kmX
			esP	22 28.00	
			ePP	23 44.00	
			eSKS	29 54.00	
PGC	87.11	33	ePc	20 09.40	0.6
	1.1s	150.00nm			5.7mb
RMW	87.20	35	P	20 10.00	0.6
MSU	87.75	46	P	20 13.50	1.1
TTA	87.81	10	P	20 11.50	-0.5
PMR	87.91	14	iPc	20 10.90	-1.4
	0.8s	2827.59nm			7.1mb X
			ePP	23 41.20	
SIT	88.04	22	P	20 13.30	0.3
	1.1s	175.00nm			5.8mb
DUG	88.23	45	P	20 14.80	0.3
	1.2s	21.01nm			4.8mb
TIY	88.33	312	Pc	20 15.00	0.0
	1.3s	290.00nm			5.9mb
			pP	21 55.00	437km
			SKS	30 03.00	
KLU	88.56	15	P	20 14.90	-0.6
KHT	88.85	287	eP	20 19.20	1.5
XAN	88.96	308	iPc	20 18.80	0.9
	1.5s	200.00nm			5.7mb
			pP	21 58.80	437km
			SKS	30 05.00	
BALM	89.08	17	iPc	20 17.40	-0.6
DAU	89.35	45	P	20 20.30	0.4
DPW	89.37	36	P	20 19.70	0.2
PNT	89.49	34	iPc	20 20.80	0.8
	1.0s	257.00nm			6.0mb
BDT	89.50	289	eP	20 19.10	-1.5
	1.0s	184.90nm			5.9mb
KMI	89.66	297	Pc	20 23.00	1.4
	1.5s	400.00nm			6.1mb
			SKS	30 12.00	
PV09	89.78	48	ePc	20 21.80	-0.1
ALQ	89.92	52	iPc	20 23.20	0.7
	1.0s	73.00nm			5.5mb
			epP	22 00.00	420km
ANMO	89.92	52	P	20 23.40	0.9
	1.1s	151.90nm			5.8mb
PTI	89.94	42	P	20 23.20	0.8
NEW	90.19	36	iPc	20 22.30	-0.9
	0.7s	28.00nm			5.3mb
			iPP	23 59.60	
CHG	90.20	290	ePc	20 26.00	2.2
	1.0s	101.25nm			5.7mb
			e	22 03.00	
CHTO	90.20	290	iPc	20 25.90	2.1
			pP	22 00.00	406kmX
FBA	91.12	13	iPc	20 25.10	-2.0
	0.8s	162.07nm			6.0mb
CD2	91.39	303	P	20 30.50	1.3
	1.6s	300.00nm			6.0mb
BTO	91.41	314	P	20 30.00	0.9
LRM	91.47	40	eP	20 29.60	0.1
BW06	91.66	44	iPc	20 29.80	-0.6
	0.8s	47.62nm			5.5mb
			epP	22 06.30	417kmX
			ePP	24 10.30	
PEL	91.76	127	iPd	20 32.10	1.1
	1.0s	80.00nm			5.6mb
GOL	92.92	48	iPc	20 36.20	-0.1
	0.9s	25.38nm			5.2mb
GLD	93.05	48	ePc	20 37.00	0.2
	0.9s	73.68nm			5.7mb
LZH	93.60	308	iPc	20 40.00	0.6
	1.5s	140.00nm			5.8mb
YAK	94.23	338	eP	20 40.00	-1.4
			ePcP	20 50.00	
			i	22 19.00	
			ePP	23 45.00	
			ePPP	25 54.00	
			eS	30 30.00	
			eSKS	30 46.00	
			eScS	30 55.00	
			esS	31 09.00	
			eSS	34 59.00	
			eSSS	38 59.00	
MEO	95.64	55	iPd	20 47.70	-0.8
RSSD	95.83	44	iPc	20 48.60	-0.8
	0.8s	20.03nm			5.3mb
			epP	22 25.20	417kmX
			ePP	24 41.00	
INK	97.17	16	eP	20 53.00	-1.6
	0.9s	26.00nm			5.5mb
GTA	97.89	309	Pc	20 59.00	0.3
	1.4s	40.00nm			5.5mb
			pP	22 33.80	409kmX
			PP	25 07.00	
			SKS	30 53.60	
YKA	99.42	25	eP	21 02.90	-2.0
	1.1s	11.00nm			5.2mb
KKN	105.15	294	PKP	25 43.28	-0.4
	0.9s	69.00nm			
DMN	105.24	294	PKP	25 43.46	-0.5
MBC	105.66	12	ePKP	25 43.00	0.1
	1.0s	29.00nm			
MBC	105.66	12	ePdiff	21 32.50	0.1
	1.0s	6.00nm			5.5mb
GKN	105.76	294	PKP	25 43.88	-0.9
FRB	119.68	29	ePKP	26 09.00	-0.8
			pP	27 34.00	
CER	121.05	198	iPKPc	26 12.20	-1.3
	0.8s	12.50nm			
TUH	121.15	198	e(PKP)	26 14.00	0.4
QUE	121.28	292	ePKP	26 15.50	1.2
	1.8s	3068.18nm			
FRS	122.32	205	iPKPc	26 15.70	-0.2
	1.0s	90.00nm			
BFT	123.76	212	iPKPc	26 20.50	1.3
	1.0s	65.00nm			
PRY	123.89	209	ePKP	26 19.00	-0.4
	0.7s	15.00nm			
			i	26 21.00	
SLR	124.55	210	iPKPc	26 20.00	-0.7
	0.7s	23.97nm			
KSR	125.07	209	iPKPc	26 20.50	-1.2
DAG	125.54	5	iPKPd	26 18.70	-2.2
	0.8s	12.69nm			
SOB1	127.95	123	ePKP	26 26.30	-1.0
			e	29 05.90	
MAIO	128.18	299	iPKPd	26 28.30	1.0
			e	28 10.00	
BUL	129.10	214	iPKPc	26 30.30	0.8
			iPP	29 11.10	
MTD	130.17	220	iPKPd	26 32.50	1.0
			iPP	29 16.20	
KEV	130.93	348	ePKP	26 22.00	-9.3X
	0.7s	13.30nm			
			i	26 30.80	
KRI	131.27	218	iPKPc	26 34.10	0.4
			iPP	29 19.70	
SOD	133.02	347	iPKP	26 34.80	-0.5
LSZ	133.32	217	iPKP	26 39.10	1.5
			i	29 27.00	
IR4	135.16	297	ePKP	26 28.00	-12.6X
IR1	135.32	297	ePKP	26 28.00	-12.9X
IR7	135.38	298	ePKP	26 28.50	-12.5X
AKU	135.82	11	iPKP	26 43.20	2.5X
	1.6s	93.33nm			
			i	29 23.00	
KMZ	136.11	216	e(PKP)	26 33.00	-9.9X
KAF	137.46	343	ePKP	26 33.00	-10.9X
TAB	138.60	302	ePKP	26 38.00	-9.0X
OBN	138.61	330	ePKP	26 38.00	-8.2X
	1.0s	*******nm			
			e	26 45.00	
			e	29 38.00	
NUR	139.23	342	ePKP	26 37.10	-10.0X
NB2	141.54	352	PKP	26 44.40	-7.0X
	0.9s	34.80nm			
UPP	141.55	346	iPKP	26 44.70	-6.6X
HFS	142.04	350	ePKP	26 46.30	-5.9X
	0.4s	59.70nm			
ASK	142.65	356	ePKP	26 50.00	-3.2X
BER	142.75	356	ePKP	26 49.50	-3.8X
KONO	143.09	353	iPKPc	26 50.20	-3.8X
KVT	145.61	310	ePKP	27 00.00	1.1
COP	146.48	348	iPKP	27 00.90	1.2
	1.0s	440.00nm			
			i	28 40.60	
GHZJ	147.65	291	PKPd	27 04.10	1.5
BHL	147.80	297	PKP	27 05.00	2.3X
EKA	147.80	4	PKPc	27 00.30	-1.6
	0.9s	49.90nm			
HRI	147.83	296	ePKP	27 03.60	0.8
SALJ	148.05	294	PKPd	27 04.23	1.1
MASJ	148.06	293	PKP	27 04.31	1.1
LISJ	148.31	292	PKPd	27 04.76	1.4
JVI	148.34	293	ePKP	27 04.90	1.3
PTT	148.71	325	ePKP	27 05.00	1.4
DMU	148.82	9	ePKP	27 03.50	0.0
	1.0s	51.00nm			
RMN	149.12	291	ePKP	27 06.60	1.7
VRI	149.21	323	ePKP	27 10.00	5.6X
DCN	149.30	10	ePKP	27 04.10	-0.2
KRA	149.35	336	ePKP	27 04.90	0.5
	1.4s	279.00nm			
			i	27 09.00	
			i	27 15.40	
BRN	149.37	345	ePKPd	27 11.00	6.6X
			id	27 16.30	
CSS	149.46	300	ePKP	27 10.00	4.9X

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DLF   149.46   9 ePKP  27 04.50   0.0
       1.0s   58.00nm
CVO   149.54 324 ePKPd 27 10.00   5.1X
BMR   149.65 329 ePKPd 27 22.00  17.0X
SPC   149.92 334 ePKP  27 06.00   0.4
                 i     27 17.60
                 e     28 53.60
KSP   149.94 340 ePKP  27 06.30   1.0
       1.2s  342.00nm
                 ic    27 11.00
                 i     27 18.30
                 ic    28 53.20
ETA   150.09   9 ePKP  27 09.50   4.1X
VAL   150.09  14 iPKP  27 10.90   5.4X
                 e     27 19.00
WIT   150.14 353 ePKP  27 12.50   7.0X
ECB   150.33   9 ePKP  27 09.80   4.0X
       0.9s  144.00nm
CLL   150.44 344 iPKP  27 05.60  -0.4
       1.4s   31.00nm
CMP   150.50 324 iPKPd 27 12.00   5.6X
ECP   150.57   9 ePKP  27 11.30   5.1X
       0.9s  257.00nm
BRG   150.60 343 iPKP  27 06.80   0.5
                 i     27 12.20
                 i     27 19.80
                 ipPKP 28 54.80
TNR   150.66 325 ePKPc 27 13.00   6.4X
BCK   150.84 306 ePKP  27 04.00  -3.2X
WTS   150.92 352 ePKP  27 07.50   0.8
       0.9s   34.00nm
WTS   150.92 352 iPKPc 27 13.00   6.3X
                 e     27 21.50
PSZ   151.07 333 iPKP  27 07.90   0.7
DEV   151.20 327 ePKPc 27 14.00   6.6X
PRU   151.23 342 PKP   27 08.30   1.0
       0.9s   87.90nm
                 i     27 13.80
                 i     27 24.10
                 e     28 55.50
KHL   151.30 308 ePKP  27 14.00   6.1X
MOX   151.38 346 ePKP  27 07.50   0.0
                 pPKP  28 57.00
BNT   151.53 313 ePKP  27 15.00   7.0X
EDC   151.57 313 iPKP  27 15.00   6.9X
ELL   151.60 305 ePKP  27 09.00   0.6
BUD   151.77 333 ePKP  27 14.60   6.5X
SRO   151.80 335 ePKP  27 08.60   0.5
                 i     27 15.60
                 i     27 26.20
                 i     29 07.20
BNS   151.89 352 ePKPd 27 09.50   1.3
                 ec    27 15.30
                 ic    27 25.50
                 ic    28 58.00
ZST   151.94 337 ePKP  27 08.80   0.4
                 i     27 15.50
                 i     27 27.20
                 e     28 54.10
                 i     29 07.70
                 i     29 22.90
VKA   152.16 338 ePKP  27 08.00  -0.7
       1.7s  317.00nm
                 i     27 17.50
                 i     27 28.60
                 e     28 58.00
ENN   152.24 353 ePKP  27 10.00   1.3
KHC   152.27 342 iPKP  27 09.50   0.6
       1.0s   39.30nm
                 i     27 16.50
                 i     27 28.50
                 e     28 58.20
                 i     29 08.50
KLL   152.31 353 ePKPd 27 08.80   0.0
                 ec    27 15.80
                 id    27 27.50
KOE   152.33 351 iPKPc 27 16.60   7.8X
                 id    27 27.50
UCC   152.35 355 PKPd  27 17.30   8.5X
                 id-   27 27.80
MEM   152.38 353 iPKPc 27 10.68   1.8
                 ic    27 15.58
                 id    27 27.67
                 id    28 58.63
TNS   152.42 349 iPKPc 27 16.50   7.4X
WET   152.45 343 iPKPc 27 10.80   1.7
ALN   152.49 316 ePKPc 27 16.26   6.9X
BGG   152.61 351 iPKPc 27 18.50   9.3X
SNF   152.64 355 iPKPc 27 11.39   2.1X
                 id    27 17.09
                 id    27 28.47
                 id    29 06.96
UZD   152.67 333 ePKP  27 17.30   7.9X
YER   152.67 307 ePKP  27 17.00   7.2X
EZN   152.86 313 ePKP  27 16.80   6.9X
IZM   152.88 310 ePKP  27 17.70   7.6X
DOU   153.03 355 PKP   27 17.70   7.9X
                 i     27 30.70
                 e     29 00.10
KMR   153.07 340 iPKP- 27 11.30   1.3
                 i     27 19.20
                 i     27 31.70
BEO   153.17 328 i(PKP)27 18.00   7.8X
                 i     27 31.00
WLF   153.29 352 PKP   27 12.00   1.8
                 ic    27 19.00
                 id    27 32.10
                 e     29 01.00
                 id    29 08.00
FUR   153.78 344 ePKP  27 12.50   1.6
                 i     27 34.50
KBA   154.18 340 iPKPd 27 10.90  -0.8
       1.2s   19.60nm
                 i     27 20.30
                 i     27 36.00
                 ipPKP 29 05.90
                 i     29 18.60
                 iPP   30 58.00
                 i     31 11.60
                 i     31 22.80
PTJ   154.29 335 ePKP  27 11.50  -0.3
ZAG   154.35 335 iPKP  27 21.20   9.5X
CDF   154.36 350 ePKP  27 11.30  -0.5
       1.0s   10.00nm
VAY   154.39 320 ePKP  27 11.00  -0.9
VAY   154.39 320 iPKP  27 20.60   8.7X
       1.2s  395.00nm
                 i     27 37.60
FLN   154.50   2 ePKP  27 11.50  -0.3
       0.9s   26.20nm
WTTA  154.51 343 iPKPd 27 12.10  -0.1
       1.0s  263.00nm
                 i     27 21.40
                 i     27 37.90
PAIG  154.53 316 ePKPc 27 02.90  -9.3X
SKO   154.63 322 ePKP  27 13.00   0.7
SKO   154.63 322 iPKP  27 21.60   9.3X
                 i     27 39.00
                 i     29 09.50
LDF   154.68   2 ePKP  27 11.80  -0.3
       0.8s   12.10nm
FVI   154.79 340 PKP   27 12.50   0.2
GRR   154.86   3 ePKP  27 12.20  -0.1
       1.0s   14.00nm
HAU   154.90 351 ePKP  27 12.30  -0.2
       0.9s    9.85nm
BSF   155.00 351 ePKP  27 12.40  -0.3
       0.9s   11.45nm
LPF   155.21   3 ePKP  27 12.70  -0.1
       1.0s   20.00nm
TRI   155.25 338 PKP   27 13.20   0.3
FNA   155.43 320 ePKPc 27 13.90   0.4
LOR   155.90 355 ePKP  27 13.80   0.0
       1.0s   18.00nm
SSF   156.13 356 ePKP  27 14.20   0.1
       0.9s   17.20nm
LBF   156.17 355 ePKP  27 14.20   0.0
       1.1s   19.55nm
AVF   156.41 356 ePKP  27 14.10  -0.4
       1.1s    9.75nm
SMF   156.52 355 ePKP  27 14.30  -0.4
       1.0s   15.00nm
MFF   156.67   2 ePKP  27 14.80   0.0
       0.9s   18.00nm
BGF   156.67 357 ePKP  27 14.80   0.0
       1.3s   32.50nm
TCF   156.97 358 ePKP  27 15.30   0.0
       1.1s   24.40nm
MAF   157.02 357 ePKP  27 15.00  -0.3
LSF   157.03 359 ePKP  27 15.00  -0.3
       1.0s   20.00nm
LPL   157.26 349 ePKP  27 15.90   0.0
       1.1s   12.20nm
LPG   157.28 349 ePKP  27 15.90  -0.1
       1.1s   12.20nm
BOB   157.40 344 PKP   27 16.30   0.4
SFI   157.47 339 PKP   27 16.90   1.1
PGD   157.55 339 PKP   27 33.80  17.6X
BNI   157.72 349 PKP   27 16.71   0.4
       1.3s  132.40nm
RJF   157.98 359 ePKP  27 16.50   0.1
       1.2s   23.80nm
CAF   158.34 358 ePKP  27 17.20   0.3
       1.4s   23.95nm
LFF   158.35   0 ePKP  27 17.20   0.4
       1.2s   17.85nm
LPO   158.60 359 ePKP  27 17.50   0.4
       1.3s   25.25nm
SBF   158.72 347 ePKP  27 17.70   0.3
CSI   158.96 325 PKP   27 16.00  -1.7
ROI   158.96 324 PKP   27 18.60   0.9
MMN   159.04 326 PKP   27 18.50   0.8
FRF   159.17 348 ePKP  27 17.60  -0.2
LMR   159.42 348 ePKP  27 18.00   0.0
CZI   159.45 324 PKP   27 17.80  -0.4
PGF   159.59 343 ePKP  27 18.50   0.1
       1.0s   16.00nm
EPF   160.25   1 ePKP  27 19.60   0.6
       0.9s    9.00nm
LIC   162.16 161 PKP   27 22.50   0.8
       1.0s   66.00nm
KIC   162.37 161 PKP   27 22.59   0.7
       1.2s   89.50nm
TIC   162.56 160 PKP   27 22.82   0.7
NKM   166.66  23 iPKP  27 30.00   4.9X
                 i     27 31.00
                 i     27 36.20
IFR   168.48  26 iPKPd 27 29.00   2.4X
                 i     28 39.00
TIO   169.46  42 iPKP  27 29.00   1.8
                 i     28 43.40
     S.D. = 1.1  on 309 of 371 obs.
-----------------------------------
? JUL  02, 1991  06h 48m 52.45± 4.49s
   27.033 S ±11.7km  111.413 E ±47.8km
   DEPTH =  10.0km  (geophysicist)
   4.1mb (  1 obs.)
 WEST OF AUSTRALIA                (589)

MRWA    4.60 119 iPd   50 07.10   3.5X
NANU    5.81  41 eP    50 21.00   0.2
BAL     5.85 129 eP    50 24.10   2.8X
       0.2s   94.00nm          6.2mb X
                eS    51 30.00
MUN     6.46 141 eP    50 31.10   1.1
       0.6s   51.00nm          5.6mb X
                eS    51 41.50
KLB     7.16 131 eP    50 41.00   1.2
       0.3s   22.00nm          5.9mb X
                eS    52 01.00
NWAO    7.74 141 eP    50 48.50   0.6
       0.2s   57.00nm          6.4mb X
                eS    52 12.20
RKG     8.92 149 eP    51 02.60  -1.7
       0.3s   34.00nm          6.2mb X
                eS    52 36.00
COOL    9.35 117 eP    51 09.70  -0.5
                eS    52 50.50
WARB   13.65  90 eP    52 06.70  -1.9X
       0.3s    9.00nm          5.2mb X
                eS    54 30.00
FORR   15.10 109 eP    52 26.50  -0.9
                eS    55 04.00
ASPA   20.59  86 eP    53 36.60   2.2X
       0.6s    5.40nm          4.1mb
                eS    57 11.60
WB2    22.17  76 eP    53 58.40   8.1X
                i     55 34.90
                i     57 16.70
                eS    57 48.50
GKN    60.46 333 P     59 00.00  -4.9X
     S.D. = 1.3  on   7 of  13 obs.
-----------------------------------
% JUL  02, 1991  07h 04m 52.90± 0.85s
   40.415 N ± 6.0km   23.334 E ± 8.5km
   DEPTH =  10.0km  (geophysicist)
 GREECE                           (364)
     MD 1.8 (THE).

THE     0.36 308 ePc   04 59.58  -0.6
SOH     0.41   2 iPc   05 01.41   0.2
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                    eS    05 08.14
PAIG     0.55 151 ePc    05 04.02  -0.1
                    iS    05 12.18
LIT      0.72 244 iPc    05 07.22   0.2
KNT      0.82 336 ePd    05 08.58  -0.1
GRG      0.89 308 iPd    05 10.58   0.5
     S.D. = 0.5  on   6 of   6 obs.
-----------------------------------
   JUL  02, 1991  07h 51m 50.26± 0.48s
   38.701 N ± 5.3km   24.757 E ± 3.9km
   DEPTH =  11.6 ±  3.0 km
 AEGEAN SEA                        (365)
     ML 3.2 (ATH). MD 3.3 (THE).

ATH      1.09 229 ePn    52 10.00  -0.7
PRK      1.30  65 ePb    52 15.50   1.3
PAIG     1.48 326 iPc    52 16.50  -0.2
                    eS    52 40.86
EZN      1.66  47 iPn    52 18.80  -0.4
AGG      1.92 280 ePc    52 23.26   0.1
IZM      1.99  98 iPn    52 24.20   0.1
LIT      2.25 309 ePc    52 28.58   0.7
THE      2.37 325 iPd    52 31.14   1.5
SOH      2.38 333 ePd    52 29.82   0.1
ALN      2.41  24 ePc    52 29.26  -0.8
VLI      2.45 217 ePn    52 29.50  -1.2
RDO      2.51  14 ePn    52 31.00  -0.6
SRS      2.57 340 ePd    52 32.22  -0.3
KZN      2.81 306 ePn    52 36.30   0.3
KNT      2.84 330 ePd    52 37.26   1.0
CIN      2.85 112 eP     52 37.00   0.7
EDC      2.91  55 eP     52 39.00   1.7
BNT      2.95  55 eP     52 38.70   0.9
KDZ      2.99  10 eP     52 35.00  -3.3X
MMB      2.99 345 eP     52 37.00  -1.4
                    eS    53 22.00
VAY      3.11 328 ePn    52 41.70   1.7
YER      3.20 118 eP     52 42.00   0.6
VLS      3.31 262 ePn    52 43.50   0.5
KKB      3.41 338 iPc    52 44.00  -0.4
                    eS    53 27.00
IGT      3.54 285 ePd    52 47.94   1.7
DMK      3.87  35 eP     52 48.30  -2.6
CZI      6.74 277 P      53 30.70  -0.8
MLR      6.84   7 eP     53 32.00  -1.0
     S.D. = 1.1  on  27 of  28 obs.
-----------------------------------
?  JUL  02, 1991  09h 04m 26.02± 3.10s
   24.471 N ±30.0km   91.635 E ±15.3km
   DEPTH =  33.0km  (normol)
 INDIA-BANGLADESH BORDER REGION  (315)

SHL      1.11  12 iP     04 45.50   0.0
                    iS    04 56.40
GUN      6.20 305 P      05 58.40   0.3
PKI      6.40 300 P      06 00.60  -0.1
KKN      6.60 301 P      06 03.20  -0.3
DMN      6.65 299 P      06 04.60   0.3
GKN      7.20 301 P      06 11.60  -0.3
VBY     63.66 310 e(P)   15 03.00   6.8X
VOY     64.51 311 e(P)   15 02.00   0.0
     S.D. = 0.3  on   7 of   8 obs.
-----------------------------------
   JUL  02, 1991  09h 12m 36.91± 0.64s
   38.193 N ± 5.9km   22.217 E ± 5.6km
   DEPTH =  11.7 ±  2.8 km
   3.8mb (  2 obs.)
 GREECE                            (364)
     ML 3.5 (ATH). MD 3.5 (THE).

AGG      0.83   6 iPd    12 52.00  -0.9
ATH      1.20 100 ePb    13 02.50   3.3X
VLS      1.28 270 ePn    13 00.00  -0.5
VLI      1.58 159 ePn    13 05.00   0.2
LIT      1.92   6 ePd    13 08.94  -0.8
IGT      1.99 313 ePd    13 13.94   3.2X
PAIG     2.07  33 ePd    13 11.69  -0.2
KZN      2.14 351 ePn    13 12.50  -0.5
KEK      2.42 310 ePb    13 20.00   3.1X
THE      2.50  13 ePd    13 19.18   1.1
FNA      2.67 346 ePc    13 20.46  -0.1
GRG      2.76   3 ePd    13 21.62  -0.2
SOH      2.77  18 ePc    13 21.62  -0.3
KNT      3.01  10 ePd    13 25.30   0.0
SRS      3.11  20 ePc    13 27.22   0.6
VAY      3.14   5 iPn    13 27.00   0.0
PRK      3.34  70 ePn    13 33.20   3.2X
MMB      3.59  18 iPc    13 33.00  -0.5
EZN      3.59  62 eP     13 38.80   5.2X
KKB      3.73  10 iP     13 36.00   0.4
SKO      3.82 351 ePn    13 38.50   1.7
                    i     13 52.00
                    Lg    14 54.00
RDO      3.91  40 ePn    13 38.00   0.0
IZM      3.98  85 eP     13 33.20  -5.8X
KDZ      4.24  34 eP     13 42.00  -0.8
VTS      4.46   9 iP     13 47.00   1.0
BRT      4.71 306 P      13 54.00   4.5X
TDS      4.81 290 P      13 52.50   1.6
CZI      4.87 284 P      13 51.60  -0.1
CSI      4.88 291 P      13 49.90  -2.0
MGR      5.53 293 P      14 01.60   0.5
SDI      7.35 301 P      14 33.30   6.7X
MLR      7.80  20 eP     14 37.00   3.9X
VRI      8.37  22 eP     14 40.00  -0.9
KHC     12.59 333 eP     15 31.00  -7.5X
NB2     23.89 347 P      17 54.20   3.2X
        0.7s     1.20nm          3.6mb
EKA     24.20 323 P      17 54.00   0.0
        0.7s     2.60nm          3.9mb
     S.D. = 0.9  on  25 of  36 obs.
-----------------------------------
?  JUL  02, 1991  10h 08m 00.02± 3.40s
   61.761 N ±15.2km    3.246 E ±25.1km
   DEPTH =  10.0km  (geophysicist)
 NORWEGIAN SEA                     (642)
     MD 2.2 (BER).

FRO      0.78  90 iP     08 16.37   1.2
                    eS    08 22.65
FOO      0.87 100 iP     08 16.73   0.0
                    eS    08 23.15
SUE      1.01 133 iP     08 18.03  -1.2
HYA      1.53 112 iP     08 26.99  -0.4
                    eSg   08 41.04
ASK      1.59 143 iP     08 28.61   0.3
                    eSg   08 45.75
EGD      1.78 146 iP     08 32.33   1.4
                    eS    08 50.72
MOL      2.18  66 eP     08 36.11  -0.6
                    eSg   09 04.31
ODD1     2.49 137 iP     08 40.71  -0.5
                    eS    09 05.59
KMY      2.74 158 eP     08 44.63  -0.2
                    eSg   09 20.17
     S.D. = 1.0  on   9 of   9 obs.
-----------------------------------
   JUL  02, 1991  11h 15m 04.53± 0.50s
   41.759 N ± 5.9km   19.632 E ± 5.3km
   DEPTH =  13.3 ±  3.0 km
   3.4mb (  1 obs.)
 ALBANIA                           (391)
     ML 3.0 (TTG), 3.0 (SKO). MD 3.0
     (THE).

ULC      0.35 306 iPgd   15 11.95   0.0
                    iSg   15 18.93
TTG      0.73 338 iPgd   15 18.40  -0.1
                    iSg   15 30.97
BDV      0.80 311 iPgc   15 19.65   0.0
                    iSg   15 33.30
PVY      0.87  17 iPgc   15 20.63  -0.5
                    iSg   15 35.33
HCY      1.09 310 iPgd   15 24.97   0.3
                    iSg   15 42.90
IVA      1.13  10 iPgc   15 25.45   0.0
                    iSg   15 44.13
NKY      1.15 336 iPgd   15 26.13   0.3
                    iSg   15 45.35
SKO      1.37  80 iPn    15 29.50   0.3
                    iSn   15 47.20
                    iSg   15 49.20
                    Lg    15 53.20
BRY      1.40 325 iPgc   15 30.35   0.6
                    iSg   15 52.40
PLE      1.58 354 iPnc   15 33.40   1.1
                    iSn   15 56.65
FNA      1.64 126 iPd    15 33.18   0.1
                    eS    15 57.58
GRG      2.23 110 ePd    15 41.86   0.1
VAY      2.25 100 ePn    15 41.40  -0.5
KNT      2.53 103 ePc    15 46.06   0.2
THE      2.76 113 ePd    15 48.70  -0.4
SRS      3.05 101 ePd    15 54.34   1.1
AGG      3.42 142 ePc    15 58.50  -0.1
NB2     19.98 348 P      19 37.40  -1.7
        0.4s     0.90nm          3.4mb
     S.D. = 0.7  on  18 of  18 obs.
-----------------------------------
&  JUL  02, 1991  11h 35m 00.52s
   58.412 N          142.661 W
   DEPTH =  10.0km  (geophysicist)
 GULF OF ALASKA                    ( 15)
     <AEIC>. ML 2.6 (AEIC).

PNL      2.11  52 eP     35 31.22  -5.1
                    S     35 53.37
MID      2.16 300 eP     35 31.76  -5.3
                    eS    35 55.62
BCPM     2.19  44 eP     35 32.66  -4.9
                    eS    35 56.69
HQN      2.22  60 iP     35 32.78  -5.2
                    eS    35 56.88
TGL      2.35 358 iP     35 34.74  -5.2
                    eS    36 00.58
CROM     2.36 354 eP     35 34.97  -5.2
BALM     2.64   3 iP     35 38.91  -5.1
                    eS    36 08.92
CTGM     2.65  14 eP     35 39.16  -5.0
GLB      3.09 350 eP     35 45.18  -5.2
LTI      3.13 304 iP     35 44.77  -6.0
KNIM     3.24 309 eP     35 46.51  -5.9
                    eS    36 22.30
VLZ      3.30 327 eP     35 47.11  -6.1
VZW      3.31 325 eP     35 47.51  -5.9
GLI      3.35 320 eP     35 47.58  -6.3
KLU      3.50 333 eP     35 50.30  -5.8
KNK      4.19 318 eP     36 02.09  -3.8
SLKM     4.39 302 eP     36 02.42  -6.4
PLRM     4.55 317 eP     36 06.29  -4.7
CNPM     4.58 288 eP     36 05.83  -5.5
GHO      4.60 320 eP     36 07.06  -4.7
RDT      5.42 298 eP     36 17.40  -5.9
CUT      5.50 320 eP     36 19.81  -4.6
     22 obs. ossocioted
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&  JUL  02, 1991- 11h 40m 04.97s
   63.254 N          150.777 W
   DEPTH = 133.2km
 CENTRAL ALASKA                    (  1)
     <AEIC>.

TRF      0.30  48 iPd    40 23.75   1.6
                    eS    40 37.80
KTH      0.31 348 iPc    40 23.75   1.7
                    eS    40 37.44
HUR      0.59 118 ePd    40 24.56  -0.6
                    eS    40 40.76
RND      0.88  79 ePd    40 26.70  -0.8
                    eS    40 43.10
CUT      0.88 164 iPd    40 27.07  -0.3
MCK      0.96  59 iPd    40 27.49  -0.6
                    eS    40 43.94
BWN      1.09  32 iPd    40 29.28   0.0
SKT      1.33 196 iPd    40 31.40  -0.3
                    eS    40 52.14
NEA      1.53  29 iPd    40 32.78  -1.1
                    eS    40 53.57
PWA      1.66 165 ePc    40 35.31  -0.2
WRH      1.71  43 iPd    40 34.90  -1.1
GHO      1.72 149 iPc    40 35.62  -0.6
SUA      1.80 179 ePc    40 37.49   0.3
PLRM     1.84 155 iPc    40 36.44  -1.1
                    S     41 01.10
CCB      1.92  42 iPd    40 37.29  -1.2
                    eS    41 01.95
RDS      1.96  35 iPd    40 37.91  -1.1
                    eS    41 03.48
NCG      1.97 200 eP     40 39.17  -0.1
CGLM     2.04 197 ePd    40 40.13   0.0
MDM      2.04  32 iPd    40 38.99  -1.1
                    eS    41 05.77
PMS      2.10 164 ePc    40 40.09  -0.7
                    eS    41 07.20
FBA      2.11  37 ePd    40 39.81  -1.1
BGL      2.14 201 eP     40 41.87   0.5
KNK      2.14 149 eP     40 40.45  -0.9
SCM      2.14 130 eP     40 40.05  -1.3
SPU      2.16 197 eP     40 41.45  -0.2
GLM      2.29  39 iPd    40 42.08  -1.1
                    eS    41 10.80
```

02d 11h

TTA	2.40	265	iPc	40	44.30	-0.4
			eS	41	13.90	
PAX	2.43	94	ePc	40	43.86	-1.2
SDG	2.51	105	ePc	40	44.55	-1.4
TZL	2.75	114	eP	40	48.27	-0.8
SLKM	2.77	174	eP	40	48.72	-0.6
RDT	2.80	197	eP	40	49.41	-0.3
DFR	2.82	200	eP	40	50.04	0.0
KLU	2.87	126	ePc	40	48.62	-2.1
NCT	2.89	202	eP	40	51.01	0.1
RDN	2.91	200	eP	40	50.91	-0.3
REF	2.92	199	eP	40	51.53	0.1
RDW	2.94	200	eP	40	51.79	0.0
GLI	2.95	142	ePc	40	49.65	-1.9
RS2	2.95	199	eP	40	51.76	-0.1
RSO	2.95	199	eP	40	52.22	0.3
VZW	2.96	136	ePc	40	49.75	-2.1
VLZ	2.98	134	ePc	40	49.60	-2.4
IMA	3.09	337	eP	40	52.96	-0.6
SVW	3.13	229	eP	40	53.51	-0.5
SEW	3.22	168	eP	40	53.76	-1.4
NNL	3.23	185	eP	40	56.06	0.7
KNIM	3.25	152	ePc	40	53.41	-2.2
HIN	3.51	143	eP	40	57.28	-1.8
LTI	3.51	155	iPc	40	57.06	-2.0
TMW	3.51	85	ePc	40	56.92	-2.2
CVA	3.61	137	eP	40	58.61	-1.7
HOM	3.63	187	eP	41	00.88	0.2
GLB	3.72	116	iPc	41	00.28	-1.6
CNPM	3.75	184	eP	41	01.65	-0.6
SGAM	3.82	134	eP	41	00.56	-2.6
XLV	3.84	187	eP	41	02.75	-0.7
PDB	3.84	207	eP	41	03.05	-0.4
RAGM	4.08	132	eP	41	04.55	-2.1
HMT	4.26	131	eP	41	06.92	-2.1
TGL	4.51	120	eP	41	09.51	-3.0
BALM	4.54	116	eP	41	10.52	-2.4
WAX	4.69	123	eP	41	13.37	-1.5

63 obs. associated

& JUL 02, 1991 11h 49m 12.78s
61.372 N 152.081 W
DEPTH = 113.7km
SOUTHERN ALASKA (2)
<AEIC>.

NCG	0.05	311	iPc	49	28.03	1.0
			eS	49	40.52	
CGLM	0.07	151	iPc	49	27.80	0.7
BGL	0.18	234	eP	49	28.24	1.0
SPU	0.19	176	iPc	49	28.10	0.9
CKL	0.22	215	ePc	49	28.20	0.8
SUA	0.65	81	ePc	49	31.38	-0.1
			eS	49	45.61	
SKT	0.66	23	iPd	49	30.57	-0.9
			eS	49	44.91	
NKA	0.75	147	iPc	49	33.30	1.1
RDT	0.82	191	iPc	49	31.92	-1.0
DFR	0.84	201	iPc	49	32.33	-0.8
NCT	0.91	207	iPc	49	33.11	-0.7
			eS	49	49.08	
RDN	0.92	201	iPc	49	32.99	-1.0
REF	0.94	199	ePc	49	33.27	-0.9
RDW	0.96	202	iPc	49	33.62	-0.8
RS2	0.97	200	eP	49	33.74	-0.8
			eS	49	50.93	
RSO	0.97	200	ePc	49	33.75	-0.8
			S	49	50.62	
PWA	1.09	74	eP	49	35.18	-0.3
PMS	1.22	95	ePc	49	36.64	-0.4
			eS	49	55.93	
SLKM	1.26	133	eP	49	36.69	-0.7
CUT	1.35	39	iPd	49	37.69	-0.6
			eS	49	56.66	
NNL	1.39	164	ePc	49	39.28	0.4
PLRM	1.43	80	iPd	49	38.07	-1.3
			eS	49	58.28	
GHO	1.56	74	ePd	49	39.83	-1.2
BRLK	1.72	159	eP	49	42.37	-0.5
			eS	50	04.23	
HOM	1.73	173	eP	49	42.69	-0.3
KNK	1.75	87	eP	49	42.16	-1.1
SEW	1.81	133	eP	49	42.85	-1.2
			eS	50	05.91	
CNPM	1.90	167	eP	49	44.61	-0.5
			eS	50	08.16	
PDB	1.90	214	iPd	49	44.16	-1.0
			iS	50	09.00	
XLV	1.93	175	eP	49	44.72	-0.8
HUR	1.98	34	eP	49	45.07	-1.1
			eS	50	08.95	
TRF	2.25	21	ePd	49	48.08	-1.7
KTH	2.25	13	ePc	49	47.93	-1.9
SCM	2.32	76	eP	49	49.47	-1.2
KNIM	2.36	114	eP	49	48.55	-2.5
GLI	2.47	99	ePc	49	50.01	-2.5
			eS	50	20.59	
LTI	2.47	121	ePc	49	50.42	-2.1
RND	2.54	35	eP	49	51.72	-1.7
CDD	2.57	198	eP	49	52.02	-1.9
MTU	2.58	121	eP	49	52.46	-1.6
VLZ	2.79	92	eP	49	55.16	-1.5
KLU	2.96	85	eP	49	56.96	-2.2
SDG	3.30	67	eP	50	02.14	-1.5
PAX	3.49	60	eP	50	05.14	-1.2
CCB	3.82	29	eP	50	07.94	-2.7
GLB	3.98	85	eP	50	11.50	-1.3
			eS	50	55.95	
MDM	4.00	24	eP	50	10.41	-2.7
GLM	4.21	28	eP	50	13.63	-2.3
BALM	4.72	90	eP	50	21.87	-1.2

49 obs. associated

& JUL 02, 1991 11h 57m 07.86s
63.147 N 150.464 W
DEPTH = 115.1km
CENTRAL ALASKA (1)
<AEIC>.

TRF	0.32	15	iP	57	24.48	1.5
			eS	57	37.41	
HUR	0.41	114	iP	57	24.68	-0.3
			eS	57	37.65	
KTH	0.46	333	iP	57	25.01	-0.3
			eS	57	37.61	
CUT	0.75	173	iP	57	27.24	-0.1
			eS	57	41.92	
RND	0.77	70	iP	57	27.26	-0.5
			eS	57	42.36	
MCK	0.90	49	iP	57	28.43	-0.4
BWN	1.12	23	iP	57	30.78	-0.3
SKT	1.27	203	iP	57	31.99	-0.7
			eS	57	50.77	
PWA	1.53	169	eP	57	35.53	-0.1
GHO	1.55	152	eP	57	35.69	-0.4
NEA	1.56	23	eP	57	34.83	-1.3
PLRM	1.68	158	eP	57	36.56	-0.9
SUA	1.69	185	eP	57	37.95	0.1
WRH	1.70	37	iP	57	36.77	-1.0
CCB	1.91	37	iP	57	39.30	-1.1
NCG	1.92	205	eP	57	40.16	-0.5
PMS	1.96	167	eP	57	40.49	-0.5
SCM	1.96	131	eP	57	40.42	-0.8
RDS	1.97	30	iP	57	40.11	-1.1
KNK	1.98	151	eP	57	40.26	-1.0
CGLM	1.98	202	eP	57	41.41	0.0
MDM	2.07	27	iP	57	41.25	-1.2
SPU	2.11	201	eP	57	42.71	-0.3
FBA	2.12	33	eP	57	41.98	-1.1
PAX	2.28	92	eP	57	44.70	-0.6
GLM	2.29	35	eP	57	44.24	-1.1
SDG	2.34	103	eP	57	45.17	-0.8
SLKM	2.65	177	eP	57	49.31	-0.8
KLU	2.69	126	eP	57	49.01	-1.7
RDT	2.74	200	eP	57	51.65	0.3
GLI	2.78	144	eP	57	49.81	-1.9
VLZ	2.80	134	eP	57	49.93	-2.1
SEW	3.09	171	eP	57	54.77	-1.1
KNIM	3.09	154	eP	57	53.58	-2.4
LTI	3.36	157	eP	57	57.07	-2.4
GLB	3.55	116	iP	58	00.58	-1.5

36 obs. associated

% JUL 02, 1991 12h 40m 08.72± 1.40s
44.605 N ± 6.5km 6.897 E ±13.6km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.1 (GEN).

PZZ	0.18	124	P	40	13.22	0.4
			S	40	15.79	
RRL	0.33	346	P	40	15.58	0.0
			S	40	20.40	
BHB	0.35	48	P	40	15.89	-0.1
			S	40	20.50	
STV	0.47	139	P	40	18.25	-0.1
			S	40	25.01	
ENR	0.53	135	P	40	19.27	-0.3
			S	40	26.76	
RSP	0.60	25	P	40	21.02	0.0

S.D. = 0.3 on 6 of 6 obs.

JUL 02, 1991 12h 42m 11.26± 0.25s
44.647 N ± 1.9km 6.980 E ± 2.8km
DEPTH = 10.0km (geophysicist)
FRANCE (538)
ML 2.6 (LDG), 2.6 (GEN).

DOI	0.24	127	P	42	16.60	0.2
			eSg	42	20.40	
BHB	0.28	46	P	42	17.77	0.6
			S	42	23.31	
RRL	0.31	333	P	42	17.30	-0.4
			S	42	22.48	
BNI	0.46	332	P	42	20.20	-0.5
			eSg	42	26.30	
STV	0.47	148	P	42	20.24	-0.6
			S	42	26.73	
ENR	0.53	143	P	42	21.07	-0.8
			S	42	28.50	
RSP	0.54	21	P	42	22.48	0.2
			S	42	31.44	
TOUF	0.66	163	Pg	42	24.04	-0.5
AUTN	0.73	154	Pg	42	25.71	0.0
ROB	0.73	119	P	42	25.55	-0.1
			S	42	36.04	
MVIF	0.76	171	Pg	42	26.80	0.6
			Sg	42	37.39	
SAOF	0.78	148	Pg	42	26.10	-0.4
			Sg	42	36.66	
AURF	0.80	162	Pg	42	26.73	-0.1
LSD	0.82	9	P	42	27.79	0.5
			S	42	39.46	
SBF	0.85	157	Pg	42	27.80	0.1
			Sg	42	39.00	
LPG	0.87	349	Pg	42	27.40	-0.7
			Sg	42	40.40	
CALN	0.90	184	Pg	42	29.05	0.5
CKI	0.96	103	P	42	29.80	0.3
FIN	0.98	116	P	42	29.91	0.0
			S	42	42.88	
IMI	0.98	138	P	42	29.68	-0.3
			S	42	42.88	
FRF	1.11	193	Pg	42	32.60	0.5
			Sg	42	47.20	
PCP	1.12	95	P	42	32.74	0.4
			S	42	47.01	
CDR	1.31	222	eP	42	35.70	0.3
			e	42	52.50	
LMR	1.36	195	Pg	42	36.60	0.4
			Sg	42	53.80	
PGF	2.56	144	Pn	42	53.20	-0.4
			Sn	43	23.20	
BGF	3.47	305	Pn	43	06.60	0.2

S.D. = 0.5 on 26 of 26 obs.

% JUL 02, 1991 12h 57m 19.75± 1.26s
39.079 N ± 7.8km 27.710 E ±15.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

IZM	0.76	207	ePg	57	34.70	0.0
			eSg	57	46.20	
EDC	1.27	5	ePn	57	43.00	-0.4
BNT	1.29	7	ePn	57	43.70	0.1
EZN	1.31	305	ePn	57	43.80	-0.1
KGT	1.41	347	iPn	57	45.70	0.3

S.D. = 0.4 on 5 of 5 obs.

% JUL 02, 1991 13h 16m 21.04± 0.49s
42.709 N ± 4.2km 19.187 E ± 4.1km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.6 (TTG).

NKY	0.17	307	iPgc	16	25.67	0.6
			iSg	16	28.97	
TTG	0.28	169	iPgc	16	27.30	0.3
			iSg	16	31.65	
BDV	0.50	212	iPgd	16	31.40	0.2

iSg 16 39.02
BRY 0.51 292 iPgd 16 31.20 -0.2
iSg 16 39.89
IVA 0.55 73 iPgc 16 32.42 0.3
iSg 16 41.35
HCY 0.57 243 iPgc 16 32.02 -0.6
iSg 16 41.99
PVY 0.59 101 iPgd 16 32.60 -0.5
iSg 16 42.69
PLE 0.64 14 iPgd 16 33.75 -0.2
iSg 16 44.90
ULC 0.75 176 iPgd 16 35.77 0.1
iSg 16 47.80
S.D. = 0.5 on 9 of 9 abs.

• JUL 02, 1991 13h 34m 21.19± 0.88s
38.856 N ± 8.9km 32.740 E ± 7.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

BCK 2.19 231 ePn 34 58.30 0.0
KHL 2.58 259 ePn 35 03.40 -0.3
KAS 2.63 17 eP 35 12.50 8.0X
ELL 3.07 228 ePn 35 11.00 0.2
KVT 3.38 48 ePn 35 15.00 0.0
BNT 4.01 293 ePn 35 24.00 0.0
EDC 4.05 293 ePn 35 25.00 0.5
KGT 4.49 293 ePn 35 30.70 -0.1
EZN 5.07 283 eP 35 38.80 -0.2
S.D. = 0.3 on 8 of 9 abs.

JUL 02, 1991 13h 39m 07.20± 0.28s
7.709 S ± 7.6km 81.308 W ± 6.9km
DEPTH = 33.0km (normal)
5.1mb (23 abs.) 4.2Msz (2 abs.)
OFF COAST OF NORTHERN PERU (108)

PT10 6.09 136 e(P) 40 35.00 -2.4
eS 41 39.00
ARE 12.95 133 eP 42 23.00 11.1X
ZOBO 15.44 125 P 42 45.00 0.1
1.0s 35.50nm 4.5mb
Z 16s 1.79um
LR 48 08.00
LPB 15.60 125 P 42 52.20 5.4X
Z 16s 2.42um
LR 48 12.00
CCH 17.64 124 eP 43 13.00 0.5
SIV 21.43 114 iP 43 54.00 -0.8
i 44 03.80
VAO 36.31 119 (P) 46 10.00 -0.1
SOB1 39.99 95 eP 46 40.90 0.0
e 46 51.00
MEO 45.31 340 iPd 47 22.70 -1.2
GLA 51.57 324 eP 48 13.00 0.5
GOL 52.16 337 eP 48 16.90 -0.3
1.0s 6.50nm 4.5mb
BAR 52.41 322 eP 48 19.00 0.1
PLM 52.99 322 eP 48 24.00 0.7
TPC 53.03 324 eP 48 24.00 0.5
RVR 53.74 323 eP 48 29.00 0.4
MWC 54.31 322 eP 48 33.00 0.0
GSC 54.31 324 iPd 48 33.00 0.1
SBB 54.49 323 eP 48 33.00 -1.2
CLC 55.14 324 eP 48 38.00 -0.9
ISA 55.54 323 eP 48 42.00 0.2
BW06 56.45 335 iPd 48 47.00 -1.5
1.1s 17.26nm 5.0mb
i 49 43.80
TNP 56.52 326 iPd 48 49.20 0.2
1.1s 16.23nm 5.0mb
ORV 59.95 325 iP 49 13.10 0.4
LRM 60.14 335 eP 49 13.80 -0.4
SCH 63.47 9 eP 49 34.00 -2.1
FFC 64.57 347 ePd 49 41.80 -1.5
0.8s 13.00nm 5.1mb
PNT 65.91 334 eP 49 53.00 1.0
FRB 71.91 6 eP 50 28.00 -0.7
LIC 77.33 82 P 51 01.16 0.3
1.1s 20.50nm 5.1mb
LKO 77.34 78 P 51 00.94 0.0
TIC 77.40 81 P 51 01.68 0.3
KIC 77.63 82 P 51 03.02 0.4
0.7s 30.00nm 5.4mb
SPA 82.34 180 iPd 51 28.40 1.4
1.0s 25.00nm 5.2mb
IFR 82.85 55 iPd 51 32.00 1.7
MAL B4.19 52 iPc 51 39.00 2.2
AKU B6.35 22 iP 51 49.10 2.2
1.0s 20.00nm 5.3mb
MBC B6.71 352 ePd 51 49.00 0.5
0.9s 29.00nm 5.5mb
LPF 89.22 41 eP 52 00.90 -0.2
0.9s 13.10nm 5.2mb
GRR 89.41 41 eP 52 01.80 -0.2
0.7s 6.60nm 5.0mb
MFF 89.51 43 eP 52 02.30 -0.2
0.7s 4.40nm 4.9mb
EKA 89.60 34 Pd 52 02.40 -0.3
1.3s 19.10nm 5.2mb
FLN 89.73 41 eP 52 03.50 0.0
0.8s 16.10nm 5.4mb
Z 21s 0.08um 4.1Msz
LFF 89.79 45 eP 52 03.50 -0.4
0.7s 5.50nm 4.9mb
LDF B9.93 41 eP 52 04.30 -0.1
0.8s 14.80nm 5.3mb
LPO 90.06 45 eP 52 04.B0 -0.3
1.0s 12.00nm 5.1mb
RJF 90.40 44 eP 52 06.20 -0.5
Z 20s 0.10um 4.2Msz
LSF 90.58 44 eP 52 07.20 -0.3
CAF 90.72 45 eP 52 07.90 -0.3
1.0s 6.00nm 4.9mb
TCF 91.06 44 eP 52 09.40 -0.3
1.1s 6.10nm 4.9mb
MAF 91.29 44 eP 52 10.70 0.0
1.2s 11.90nm 5.1mb
BGF 91.53 43 eP 52 11.80 -0.1
0.9s 7.35nm 5.1mb
DOU 93.23 40 P 52 20.40 0.9
NB2 97.91 29 P 52 40.70 0.0
1.0s 2.80nm 4.7mb
ASPA 133.57 227 ePKP 58 21.20 -1.7
1.0s 9.00nm
WB2 135.43 231 iPKPc 58 26.80 0.3
i 58 37.50
WRA 135.44 231 PKP 58 26.00 -0.5
0.8s 8.10nm
WMQ 142.76 13 PKP 58 35.00 -4.3X
BJI 144.21 337 ePKP 58 38.50 -3.2X
BTO 145.72 345 PKP 58 44.00 -0.5
TIA 147.01 332 ePKP 58 46.70 0.2
TIY 147.64 339 ePKP 58 47.40 -0.2
GTA 148.42 358 PKP 58 49.20 0.3
SSE 148.65 321 PKPc 58 53.00 3.7X
NJ2 149.36 325 PKPd 58 54.40 4.1X
pPKP 59 04.60
NDI 150.92 41 iPKPd 58 54.00 1.2
LZH 151.36 351 PKP 59 00.00 6.5X
Z 21s 0.76um 5.5MszX
E 16s 0.77um
pPKP 59 07.50
pP'ab 59 19.70
XAN 152.15 342 PKP 58 55.00 0.5
GKN 155.83 32 PKP 59 00.50 0.6
KKN 156.33 31 PKP 59 01.24 0.6
DMN 156.39 31 PKP 59 00.66 -0.2
CD2 156.44 349 ePKP 59 00.60 0.1
GUN 156.53 30 PKP 59 03.64 2.5X
PKI 156.58 31 PKP 59 01.24 0.1
GBA 158.31 73 PKPc 59 03.70 0.6
1.1s 9.80nm
GYA 159.87 339 PKP 59 05.00 0.3
PKPab 59 44.60
sP'ab 59 57.00
S.D. = 0.8 on 67 of 75 abs.

JUL 02, 1991 14h 04m 37.09± 0.53s
10.276 N ± 8.1km 93.657 E ± 6.0km
DEPTH = 29.2km (6 depth phases)
4.7mb (22 abs.)
ANDAMAN ISLANDS REGION (703)

NNT 6.39 68 eP 06 10.00 -1.7
KHT 6.58 47 iPd 06 14.80 0.4
SNG 7.54 114 eP 06 34.00 6.2X
e 08 52.10
PSI 9.17 145 eP 05 54.50 -56.0X
IPM 9.24 127 ePc 06 57.10 5.6X
CHG 9.91 30 eP 07 02.50 1.7
1.3s 44.23nm 5.6mb
CHTO 9.91 30 eP 07 03.10 2.4
1.0s 20.75nm 5.4mb
LOE 10.57 47 iPc 07 10.40 0.7
KGM 12.63 130 eP 07 44.50 6.9X
SHL 15.30 354 eP 08 11.00 -2.0
eS 10 59.00
KOD 15.93 271 eP 08 24.00 2.7
GBA 16.21 283 Pd 08 25.30 0.8
0.5s 3.50nm 3.7mb
HYB 16.29 297 ePd 08 25.50 0.0
KMI 17.10 29 Pc 08 39.50 3.6X
1.5s 150.00nm 4.9mb
pP 08 45.80
QIZ 17.90 59 eP 08 46.50 0.7
N 11s 0.70um
E 13s 0.80um
PKI 18.88 337 P 08 58.48 0.5
GUN 19.01 338 P 08 58.14 -1.5
DMN 19.03 336 P 08 59.B4 0.1
KKN 19.12 337 P 09 00.04 -0.B
LSA 19.47 353 P 09 03.30 -1.9
GKN 19.57 336 P 09 05.08 -0.9
GYA 20.26 36 iPc 09 13.00 -0.2
1.0s 20.00nm 4.4mb
N 16s 1.20um
E 16s 1.10um
pP 09 21.60 32km
sP 09 26.00
PP 09 35.00
POO 20.85 295 iPd 09 22.60 3.3X
CD2 22.58 23 P 09 36.80 0.3
NDI 23.94 322 eP 09 51.00 1.3
LZH 27.31 18 Pc 10 29.50 8.0X
2.0s 49.00nm 4.8mb
Z 15s 0.63um 4.3MszX
N 10s 0.48um
sP 10 45.00
PP 11 16.00
eS 15 09.00
XAN 27.48 28 P 10 21.50 -1.4
GTA 29.53 10 eP 10 41.00 -0.4
pP 10 49.50 29km
QUE 31.80 312 eP 11 08.60 6.9X
NJ2 31.81 43 Pc 11 02.00 0.5
Z 14s 0.30um 4.1MszX
pP 11 09.50 26km
TIY 32.12 29 eP 11 06.60 2.4
Z 12s 0.72um 4.6MszX
N 10s 0.54um
SSE 32.89 47 eP 11 15.00 4.1X
Z 14s 0.40um 4.3MszX
N 14s 0.70um
E 14s 0.40um
BTO 33.50 23 eP 11 23.00 6.8X
N 13s 0.30um
E 11s 0.30um
eS 16 35.00
WMQ 33.82 352 P 11 19.00 0.0
Z 14s 0.30um 4.2MszX
pP 11 27.50 29km
PP 12 32.50
S 16 40.00
HHC 34.32 24 eP 11 23.00 -0.3
BJI 35.75 30 eP 11 36.00 0.6
SNY 40.95 35 eP 12 19.00 0.2
CN2 43.29 34 eP 12 38.00 0.1
0.8s 5.00nm 4.3mb
Z 16s 0.58um 4.6MszX
epP 12 46.00 27km
ePcP 14 26.00
eS 19 02.00
eSS 22 07.00
WB2 50.07 127 iPc 13 31.80 0.1
ASPA 51.B3 131 eP 13 43.60 -1.4
0.8s 7.30nm 4.7mb
i 13 53.20 32km
STK 62.11 134 eP 14 57.00 -0.9
0.6s 2.20nm 4.5mb
VRI 66.66 316 ePd 15 28.00 0.7
MLR 67.14 315 eP 15 30.00 -0.6
TOO 67.94 138 eP 15 36.00 0.5
SOD 71.82 338 eP 16 04.00 5.3X
KEV 72.43 340 eP 16 06.00 3.7X
PRU 75.21 319 eP 16 21.00 2.2
e 16 54.30 133kmX
BRG 75.61 320 e(P) 16 23.B0 2.7
1.0s 10.00nm 4.Bmb
KHC 75.82 318 eP 16 08.50 -13.8X
e 17 30.00 359kmX

02d 14h

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CLL     76.21 320 e(P)   16 26.00   1.6
                e        16 45.00  70kmX
NB2     77.42 330 P      16 29.00  -2.0
        1.1s      2.30nm          4.1mb
CDF     80.01 318 eP     16 58.90  13.4X
        0.6s      3.60nm
LPG     80.60 315 eP     16 48.80  -0.1
        0.8s      8.05nm          4.8mb
LPL     80.61 315 eP     16 49.00   0.1
        0.6s      6.30nm          4.8mb
LBF     82.36 316 eP     16 57.50  -0.3
        0.6s      3.60nm          4.6mb
LOR     82.41 317 eP     16 57.90  -0.1
        0.6s      3.60nm          4.6mb
SMF     82.49 316 eP     16 57.80  -0.6
        0.8s      9.05nm          4.9mb
SSF     82.67 316 eP     16 58.40  -0.9
        0.8s      5.35nm          4.7mb
AVF     82.81 316 eP     16 58.80  -1.2
        0.8s      3.35nm          4.5mb
BGF     83.19 316 eP     16 59.20  -2.8
        0.6s      5.85nm          4.9mb
MAF     83.42 316 eP     17 00.50  -2.7
        0.8s      6.05nm          4.8mb
TCF     83.66 316 eP     16 59.20  -5.3X
        1.0s      6.00nm          4.7mb
LSF     84.13 316 eP     16 59.50  -7.3X
        0.6s      4.50nm          4.8mb
ZOBO   161.30 249 PKP    24 39.00   1.6
     S.D. = 1.4  on  48 of  64 obs.
-----------------------------------
&  JUL  02, 1991  15h 13m 57.24s
   60.672 N          149.859 W
   DEPTH =  42.5km
   3.7mb (  2 obs.)
 KENAI PENINSULA, ALASKA          ( 14)
      <AEIC>. ML 4.1 (AEIC), 4.2
      (PMR). Felt (III) at Anchorage,
      Eagle River, Hope, Seward and
      Soldotna.

SLKM    0.24 227 iPd     14 04.98  -0.3
                eS       14 10.79
PMS     0.59  14 iPd     14 08.68  -0.7
SEW     0.61 160 iPc     14 08.63  -0.8
NKA     0.68 277 iPc     14 11.62   1.1
SUA     0.90 332 iPd     14 13.21  -0.6
                eS       14 25.32
NNL     0.95 229 iPd     14 14.86   0.5
PWA     0.98 359 iPd     14 14.24  -0.5
PLRM    0.99  21 iPd     14 14.25  -0.6
                eS       14 27.72
PMR     0.99  21 iP      14 14.20  -0.6
KNK     1.01  42 iPd     14 14.63  -0.5
                eS       14 28.32
BRLK    1.05 210 iPd     14 15.41  -0.3
                eS       14 27.55
KNIM    1.10 106 iPc     14 14.99  -1.4
                S        14 30.44
LTI     1.18 122 iPc     14 16.22  -1.3
SPU     1.19 296 iPc     14 17.39  -0.3
                iS       14 32.99
GHO     1.19  22 iPd     14 17.50  -0.3
CGLM    1.23 302 iPc     14 18.03  -0.3
RDT     1.26 267 iPc     14 18.49  -0.3
MTU     1.29 121 eP      14 18.01  -1.2
CKL     1.32 295 eP      14 19.30  -0.3
NCG     1.34 304 iPc     14 19.70  -0.2
CNPM    1.34 212 iPd     14 19.66  -0.2
                eS       14 36.70
HOM     1.35 222 iPd     14 20.23   0.3
BGL     1.37 297 iPc     14 20.20  -0.1
GLI     1.37  80 iPd     14 18.79  -1.5
DFR     1.40 268 iPc     14 20.33  -0.4
REF     1.42 264 iPc     14 20.84  -0.2
RDN     1.44 265 iPc     14 20.90  -0.5
RSO     1.45 263 iPc     14 21.28  -0.2
RS2     1.45 263 iPc     14 21.30  -0.2
RDW     1.47 264 iPc     14 21.52  -0.3
NCT     1.52 267 iPc     14 22.15  -0.3
                eS       14 41.25
XLV     1.54 218 ePc     14 22.16  -0.5
SKT     1.54 329 iPd     14 22.35  -0.3
                eS       14 42.25
VZW     1.66  75 eP      14 23.29  -1.2
SCM     1.69  45 ePd     14 24.20  -0.7
CUT     1.75 354 ePd     14 24.96  -0.6
VLZ     1.78  73 ePd     14 24.90  -1.2
KLU     2.08  65 iPd     14 29.62  -0.8
MID     2.16 124 eP      14 31.07  -0.4
AUE     2.20 235 eP      14 32.04   0.0
AUH     2.23 235 eP      14 32.51   0.0
AUI     2.24 235 eP      14 33.02   0.4
                eS       14 58.79
HUR     2.32   3 eP      14 33.88   0.1
PDB     2.34 250 ePc     14 33.40  -0.6
SYI     2.44 213 iPd     14 35.02  -0.4
TZL     2.54  55 eP      14 36.49  -0.4
CDD     2.59 229 ePd     14 37.42  -0.2
MCNL    2.70 238 ePc     14 38.37  -0.9
SDG     2.78  46 ePc     14 39.93  -0.4
RND     2.79   9 ePc     14 40.47   0.0
TRF     2.80 356 eP      14 40.90   0.2
SVW     2.85 281 ePc     14 39.80  -1.6
KTH     2.93 351 eP      14 43.14   0.5
GLB     3.04  73 iPd     14 42.39  -1.7
MCK     3.10   8 eP      14 45.11   0.2
PAX     3.11  40 eP      14 44.38  -0.7
KDC     3.23 206 iPd     14 44.88  -1.8
CROM    3.30  86 eP      14 45.74  -2.2
TGL     3.46  86 eP      14 47.41  -2.6
BWN     3.52   3 eP      14 49.32  -1.5
BALM    3.69  81 iPd     14 50.99  -2.4
TTA     3.70 310 eP      14 52.00  -1.4
WRH     3.90  11 eP      14 55.71  -0.5
NEA     3.94   5 eP      14 55.53  -1.2
CCB     4.10  12 eP      14 58.30  -0.7
CTGM    4.19  82 eP      14 58.92  -1.5
FBA     4.35  12 eP      15 01.00  -1.6
MDM     4.37   9 eP      15 01.65  -1.2
GLM     4.48  14 eP      15 03.42  -1.0
PNL     5.32  96 eP      15 13.35  -2.9
IMA     5.68 344 eP      15 20.00  -1.5
FYU     6.26  17 eP      15 27.55  -1.9
INK    10.37  36 P       16 23.00  -3.2
        1.4s      2.10nm          4.1mb
YKA    16.75  68 eP      17 47.00  -3.0
        0.7s      1.80nm          3.3mb
        74 obs. associated
-----------------------------------
?  JUL  02, 1991  16h 08m 00.01± 2.60s
   46.302 N ±24.6km   14.998 E ± 7.8km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                        (383)
      MD 2.5 (LJU).

LJU     0.41 231 ePg     08 08.10  -0.4
                eSg      08 14.00
PTJ     0.78 121 e(Pg)   08 15.10  -0.2
                eSg      08 27.60
VOY     0.81 251 ePg     08 16.10   0.3
                eSg      08 28.00
VBY     0.82 167 eP      08 16.10   0.3
                e        08 23.00
                e(Sg)    08 27.40
KBA     1.38 305 ePg     08 31.00   5.6X
                eSg      08 49.00
     S.D. = 0.5  on   4 of   5 obs.
-----------------------------------
   JUL  02, 1991  17h 16m 48.70± 0.51s
   45.789 N ± 4.7km   26.706 E ± 6.8km
   DEPTH = 118.7 ±  7.0 km
   3.7mb (  1 obs.)
 ROMANIA                           (358)

VRI     0.08   9 iPc     17 05.00   0.5
CVO     0.37 275 iPc     17 06.00  -0.1
ISR     0.66 190 iPc     17 07.50  -0.5
PTT     1.17 349 iPd     17 13.00   0.4
CMP     1.28 247 iPd     17 16.00   2.0
BUC1    1.52 199 iPc     17 16.20  -0.4
IAS     1.52  23 iPd     17 16.00  -0.7
TNR     1.71 266 iPc     17 19.00   0.0
DRA     2.06 238 iP      17 24.00   0.7
PSN     2.36 153 iPc     17 28.00   0.9
                iS       17 54.00
PVL     2.75 201 iPd     17 34.00   1.7
                iS       17 59.00
BMR     2.90 312 iPc     17 40.00   5.7X
PLD     3.96 202 iPc     17 48.00  -0.5
                eS       18 18.00
DMK     4.04 169 ePn     17 48.10  -1.5
VTS     4.07 219 iP      17 50.00  -0.2
                iS       18 23.00
KDZ     4.24 193 iPc     17 53.00   0.6
                iS       18 39.00
RZN     4.35 200 iPd     17 54.00   0.0
                eS       18 28.00
BEO     4.51 260 eP      17 54.70  -1.4
KKB     4.72 215 iPc     17 59.00   0.2
                eS       18 42.00
MMB     4.72 208 iPc     17 59.00   0.1
CTT     4.81 164 ePn     18 01.00   0.9
ALN     4.91 186 iPc     18 01.69   0.2
SRS     5.19 207 ePd     18 05.48   0.2
KGT     5.35 175 ePn     18 07.70   0.2
VAY     5.38 215 eP      18 07.70  -0.2
SKO     5.39 227 eP      18 06.70  -1.3
KNT     5.39 212 iPd     18 07.88  -0.2
BNT     5.50 170 eP      18 14.00   4.4X
GRG     5.76 215 ePd     18 12.64  -0.5
PAIG    6.27 202 ePc     18 19.12  -0.9
FNA     6.34 220 ePd     18 20.00  -1.1
OBN    11.24  30 eP      19 25.00  -1.8
        1.0s  *******nm          8.0mb X
     Z  18s      0.40um          4.7MszX
                e        19 34.00
YKA    67.72 342 eP      27 37.20   2.5
        0.7s      0.70nm          3.7mb
     S.D. = 1.0  on  31 of  33 obs.
-----------------------------------
&  JUL  02, 1991  18h 22m 01.91s
   63.180 N          150.405 W
   DEPTH = 125.2km
 CENTRAL ALASKA                    (  1)
      <AEIC>.

TRF     0.28  11 iPc     22 19.58   1.5
                iS       22 32.87
HUR     0.40 120 iPc     22 19.75  -0.4
                eS       22 32.99
KTH     0.44 328 iPc     22 20.17  -0.3
                eS       22 33.48
RND     0.74  71 ePc     22 22.03  -0.4
                S        22 37.14
CUT     0.78 175 iPc     22 22.40  -0.3
MCK     0.86  49 ePd     22 23.18  -0.3
                eS       22 38.40
BWN     1.08  22 eP      22 24.83  -0.6
SKT     1.31 204 iPc     22 27.26  -0.7
                S        22 46.94
PWA     1.55 171 eP      22 30.60   0.0
GHO     1.57 153 iPc     22 30.56  -0.4
WRH     1.65  37 iPd     22 31.12  -0.7
PLRM    1.70 159 ePc     22 31.47  -0.9
SUA     1.73 185 eP      22 32.58  -0.3
                S        22 56.48
CCB     1.87  37 ePd     22 33.57  -0.8
RDS     1.93  30 ePd     22 34.39  -0.8
NCG     1.96 205 eP      22 35.18  -0.5
SCM     1.97 132 eP      22 35.19  -0.5
PMS     1.98 168 ePc     22 35.22  -0.7
KNK     1.99 152 eP      22 35.32  -0.7
                eS       23 00.98
CGLM    2.02 202 ePd     22 36.70   0.2
MDM     2.03  27 ePd     22 35.60  -0.8
BGL     2.14 207 eP      22 38.74   0.8
SPU     2.15 202 eP      22 37.91  -0.1
GLM     2.25  35 iPd     22 38.39  -0.9
PAX     2.26  93 ePd     22 38.96  -0.5
SDG     2.32 104 ePc     22 39.62  -0.6
SLKM    2.68 178 eP      22 44.08  -0.8
KLU     2.69 127 eP      22 43.73  -1.3
RDT     2.78 201 eP      22 46.31   0.1
GLI     2.79 144 ePc     22 44.50  -1.7
VZW     2.79 138 eP      22 45.11  -1.2
VLZ     2.81 135 eP      22 44.60  -1.8
DFR     2.81 204 eP      22 46.48  -0.2
REF     2.91 203 eP      22 47.81  -0.2
RDW     2.94 204 eP      22 48.29  -0.1
KNIM    3.11 155 ePc     22 48.45  -2.0
MTU     3.46 156 ePc     22 53.51  -1.7
GLB     3.54 117 iPc     22 55.32  -0.9
CNPM    3.69 187 eP      22 57.15  -1.1
     39 obs. associated
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*  JUL  02, 1991  18h 29m 44.81± 0.86s
   23.325 N ±24.1km   93.362 E ±19.5km
   DEPTH =  33.0km  (normal)
 BURMA-INDIA BORDER REGION         (294)
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SHL      2.61 329 eP     30 25.70    0.0
                  iS     30 55.50
CHG      6.88 130 eP     31 26.00    0.0
CHTO     6.88 130 e(P)   31 16.30   -9.7X
GUN      8.15 306 P      31 44.50    0.4
PKI      8.34 302 P      31 47.20    0.5
KKN      8.54 303 P      31 49.20   -0.3
DMN      8.59 301 P      31 50.60    0.4
GKN      9.14 302 P      31 56.70   -1.0
     S.D. = 0.6  on   7 of   8 obs.
-----------------------------------------
?  JUL  02, 1991  19h 14m 15.26± 1.10s
   56.094 S ±26.8km  142.279 W ±19.2km
   DEPTH =  10.0km  (geophysicist)
   5.0mb (  3 obs.)
 SOUTH PACIFIC CORDILLERA          (691)

SPA     34.09 180 iPd   21 01.80    0.1
        1.0s     31.00nm          5.2mb
MAW     55.21 191 eP    23 49.60   -0.2
        0.9s     14.00nm          5.0mb
ASPA    67.30 261 eP    25 14.10    1.9
        1.1s      9.60nm          4.9mb
CNCB    67.46  87 eP    25 14.00    0.1
LPB     67.62  86 (P)   25 07.00   -7.7X
ZOBO    67.82  86 P     25 19.00    2.8X
WB2     70.02 264 eP    25 27.20   -1.8
SIV     71.99  92 eP    25 41.00    0.0
QUE    146.91 231 ePKP  34 03.40    6.2X
     S.D. = 1.5  on   6 of   9 obs.
-----------------------------------------
   JUL  02, 1991  19h 54m 29.40± 0.25s
   11.211 N ± 6.2km   85.671 W ± 4.5km
   DEPTH =  30.6km  (  5 depth phases)
   4.8mb ( 34 obs.)  5.0Msz (  4 obs.)
 NICARAGUA                          ( 75)
      Felt in northwestern Costo Rico.

LPS      4.58 312 iPc    55 38.30   -0.2
TPX      7.40 300 (P)    56 16.00   -2.0
PBJ     10.79 300 (P)    57 00.50   -4.4X
PPM     14.74 304 (P)    57 57.50   -0.6
ACX     14.87 294 (P)    57 59.00   -0.3
III     15.12 300 (P)    58 02.50   -0.3
MRX     17.17 301 (P)    58 29.50    0.8
JSC     23.31   9 P      59 38.00    2.3
TRN     23.83  89 eP     59 39.50   -1.4
TUL     26.24 341 iPc    00 02.80   -0.8
        1.0s    116.10nm          5.4mb
      Z  22s     1.12um          4.4Msz
                  eS     04 54.00
                  LR     08 27.00
MEO     26.25 335 e(P)   00 01.00   -2.7
BLA     26.32   9 P      00 05.00    0.6
        0.7s     19.44nm          4.8mb
FVM     27.00 352 P      00 10.50    0.0
        0.6s     20.81nm          4.9mb
ANMO    30.26 325 eP     00 40.00   -0.2
        0.9s     22.06nm          5.0mb
                  pP     00 48.30   29km
                  sP     00 53.10
CLE     30.38   6 iP     00 44.80    3.9X
ZOBO    32.36 147 P      00 58.90   -0.3
LPB     32.59 147 P      01 05.00    4.0X
CNCB    32.88 148 P      01 03.00   -0.7
PV09    34.31 326 P      01 15.00   -0.7
CCH     34.34 146 P      01 16.50    0.4
GLA     34.46 314 eP     01 16.00   -0.7
BAR     35.60 312 eP     01 34.00    7.6X
TPC     35.89 314 eP     01 29.00    0.1
PLM     36.08 313 eP     01 31.00    0.4
SIV     36.38 138 eP     01 31.00   -2.1
PEC     36.56 313 P      01 34.90    0.4
RVR     36.77 313 eP     01 37.00    0.8
GSC     37.05 315 eP     01 39.00    0.3
MWC     37.37 313 eP     01 42.00    0.5
PAS     37.42 313 eP     01 43.00    1.3
SBB     37.44 314 eP     01 42.00    0.0
BW06    37.70 331 iP     01 43.90   -0.3
        0.7s      7.89nm          4.7mb
                  pP     01 54.70   38km
TNP     38.88 319 iP     01 54.50    0.4
        1.0s     18.25nm          4.8mb
                  pP     02 04.90   36km
SYP     38.91 312 eP     01 55.00    0.7
FRI     39.94 316 eP     02 02.80    0.1
PRI     40.18 314 eP     02 06.30    1.5
LLA     40.61 314 eP     02 08.40    0.2
PRS     40.77 314 eP     02 09.80    0.3
CMB     40.94 317 iPd    02 12.30    1.3
LRM     41.36 332 ePc    02 14.70    0.2
                  e      04 14.10
MHC     41.45 315 eP     02 16.30    1.1
GCC     41.54 314 eP     02 15.00   -0.8
BKS     42.12 315 iPd    02 22.00    1.4
                  i(pP)  02 29.80   26km
                  ePP    04 16.00
BRK     42.14 315 eP     02 22.20    1.5
ORV     42.48 318 ePd    02 25.30    1.8
SES     44.29 337 ePc    02 37.80   -0.3
                  pP     02 45.00   24km
FFC     45.28 347 iPc    02 45.70   -0.2
        0.6s     10.00nm          4.9mb
BAO     45.86 125 ePc    02 51.90    0.8
SCH     45.99  15 ePc    02 52.60    1.1
        0.9s     47.00nm          5.4mb
PNT     47.26 330 iP     03 01.00   -0.7
        0.7s     26.00nm          5.4mb
PGC     48.79 327 eP     03 13.00   -0.5
FRB     53.84   9 eP     03 51.00   -0.4
YKA     55.27 344 eP     03 59.90   -2.0
        0.8s     10.80nm          4.9mb
BALM    64.46 333 P      05 03.00   -2.2
INK     64.90 342 ePc    05 06.80   -1.0
SLKM    67.88 331 eP     05 26.10   -0.8
SVW     70.60 331 P      05 42.30   -1.3
        1.0s     35.00nm          5.4mb
EKA     76.61  36 Pd     06 15.90   -2.8
        0.7s      3.70nm          4.5mb
LPF     78.18  43 eP     06 27.60    0.1
        0.9s     13.10nm          5.0mb
GRR     78.28  43 eP     06 28.20    0.2
        0.9s     19.65nm          5.1mb
FLN     78.51  42 eP     06 29.50    0.2
        1.0s     12.00nm          4.9mb
      Z  20s      0.63um          4.9Msz
LKO     78.55  82 P      06 30.08   -0.1
        0.7s     20.50nm          5.2mb
LDF     78.76  42 eP     06 20.70 -10.0X
        0.9s      9.85nm          4.8mb
MFF     78.89  44 eP     06 31.60    0.2
        0.8s      8.05nm          4.8mb
EPF     79.55  48 eP     06 35.80    0.6
        0.9s      3.30nm          4.3mb
TIC     79.60  85 P      06 37.30    1.4
LFF     79.65  46 eP     06 35.80    0.2
        0.8s      5.35nm          4.6mb
LIC     79.67  86 P      06 37.90    1.6
        0.7s     14.00nm          5.1mb
KIC     79.92  85 P      06 39.00    1.3
        0.8s      6.50nm          4.7mb
LPO     80.00  46 eP     06 37.70    0.2
        0.8s      5.35nm          4.6mb
LSF     80.08  45 eP     06 37.80   -0.1
        0.6s      2.25nm          4.4mb
TCF     80.54  45 eP     06 40.10   -0.3
        0.8s      4.05nm          4.5mb
CAF     80.59  46 eP     06 40.60   -0.1
        0.8s      4.70nm          4.5mb
MAF     80.80  45 eP     06 41.40   -0.3
        1.0s      8.00nm          4.7mb
BGF     80.95  44 eP     06 42.20   -0.3
        0.6s      4.50nm          4.7mb
SSF     81.34  44 eP     06 43.90   -0.6
        0.8s      2.70nm          4.3mb
LOR     81.55  44 eP     06 45.30   -0.3
        0.6s      2.70nm          4.4mb
      Z  20s      0.63um          5.0Msz
HAU     83.11  43 eP     06 53.50   -0.2
        0.9s      6.55nm          4.7mb
      Z  20s      0.70um          5.0Msz
BSF     83.44  43 eP     06 54.90   -0.6
        0.8s      5.35nm          4.7mb
NB2     83.60  29 P      06 55.80   -0.2
        0.8s      1.30nm          4.1mb
CDF     83.66  42 eP     06 56.10   -0.5
        0.8s      4.05nm          4.6mb
MOX     86.00  39 eP     07 09.00    0.8
CLL     86.70  38 eP     07 12.00    0.4
BRG     87.39  39 e(P)   07 15.60    0.7
KHC     87.59  40 eP     07 16.50    0.5
BUL    116.44 107 iPKPd  13 12.60   -0.3
        0.5s      7.04nm
KRI    117.19 103 iPKPd  13 14.20   -0.2
MTD    119.07 103 iPKPd  13 18.10    0.2
WMQ    124.90   6 PKP    13 28.50    0.2
BJI    125.13 340 ePKP   13 28.50   -0.2
HHC    125.81 344 ePKP   13 31.00    0.7
TIA    128.16 337 ePKP   13 34.30   -0.5
TIY    128.46 342 PKPd   13 34.80   -0.6
GTA    129.38 355 PKP    13 37.60    0.4
SSE    130.66 329 PKP    13 39.00   -0.6
NJ2    130.99 332 ePKP   13 40.00   -0.2
QUE    131.13  32 ePKP   13 41.10    0.3
XAN    132.91 343 PKPd   13 44.00    0.1
NDI    137.03  22 ePKP   13 52.00    0.2
CD2    137.15 348 PKP    13 52.40    0.3
GKN    139.90  13 PKP    13 49.04   -8.3X
KKN    140.25  13 PKP    13 49.28   -8.8X
GUN    140.26  12 PKP    13 48.14  -10.1X
DMN    140.39  13 PKP    13 50.38   -8.0X
ASPA   140.40 246 ePKP   13 54.80   -3.4X
        0.5s     11.40nm
PKI    140.49  12 PKP    13 50.20   -8.4X
WB2    140.56 252 ePKP   13 47.10  -11.4X
                  i      13 57.10
                  e      17 39.70
GYA    140.68 342 PKP    13 57.80   -0.9
CGP    144.03 302 ePKP   14 21.50   16.8X
        0.6s     16.00nm
WARB   146.08 239 ePKP   14 06.00   -1.9X
QIZ    146.28 333 PKP    14 09.60    1.2
HYB    147.56  29 ePKP   14 10.80    0.3
PPR    148.01 310 ePKPd  14 14.00    2.8X
CHG    149.82 351 ePKP   14 13.40   -0.6
CHTO   149.82 351 ePKP   14 11.90   -2.0X
        1.1s      8.83nm
                  pP     14 18.70
GBA    150.19  35 PKPd   14 13.40   -1.1
        0.8s     12.90nm
LOE    150.64 345 iPKPc  14 21.20    6.0X
BDT    151.35 351 ePKP   14 13.20   -3.0X
        0.6s     68.60nm
TSM    151.96 302 ePKP   14 18.00    0.7
KOD    152.89  39 ePKP   14 20.00    1.1
KHT    153.83 351 ePKP   14 20.50    0.7
     S.D. = 0.9 _ on 103 of 121 obs.
-----------------------------------------
   JUL  02, 1991  20h 20m 48.59± 0.25s
   11.199 N ± 7.9km   85.666 W ± 8.0km
   DEPTH =  33.0km  (normal)
   4.7mb (  9 obs.)  4.9Msz (  5 obs.)
 NICARAGUA                          ( 75)
      Ms 4.6 (BRK). Felt in
      northwestern Costo Rico.
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 17S, 29C
      Centroid Location:
      Origin Time        20:20:51.1 0.8
      Lat 10.56N 0.10 Lon  86.27W 0.11
      Dep  15.0 FIX Half-duration  1.9
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 0.43 0.05  Mtt=-0.50 0.07
        Mff= 0.07 0.09  Mrt= 1.16 0.20
        Mrf=-0.90 0.16  Mtf= 0.28 0.05
      Principal Axes:
        T  Val=  1.49  Plg=54  Azm= 47
        N        0.13       8       306
        P       -1.62      35       211
      Best Double Couple:Mo=1.6*10**17
       NP1:Strike=267 Dip=12 Slip=  50
       NP2:        128     81        98

TPX      7.41 301 (P)    22 36.50   -0.7
PBJ     10.80 300 (P)    23 19.50   -4.5X
PPM     14.75 304 (P)    24 16.50   -0.7
ACX     14.87 294 (P)    24 18.00   -0.4
III     15.13 300 (P)    24 21.00   -0.9
MRX     17.18 301 (P)    24 49.00    1.2
JSC     23.32   9 P      26 01.00    6.3X
TUL     26.26 341 ePc    26 21.80   -0.8
        1.2s     85.40nm          5.2mb
      Z  22s      1.39um          4.5Msz
                  eS     31 36.00
                  LR     34 49.00
MEO     26.26 335 iPc    26 21.00   -1.7
ALQ     30.27 325 eP     26 59.00   -0.2
        0.9s     10.08nm          4.6mb
                  e      27 07.20
ANMO    30.28 325 P      27 00.00    0.8
```

02d 20h

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        0.9s      9.45nm          4.6mb
ZOBO   32.34 147 P      27 17.40  -0.5
LPB    32.58 147 P      27 18.00  -1.8
CNCB   32.87 148 P      27 22.40  -0.1
PV09   34.32 326 P      27 34.00  -0.6
CCH    34.33 146 P      27 34.60  -0.3
GLA    34.48 314 eP     27 36.00   0.3
PLM    36.09 313 eP     27 50.00   0.4
SIV    36.36 138 P      27 51.70  -0.1
RSSD   36.43 338 P      27 52.90   0.5
RVR    36.78 313 eP     28 02.00   6.8X
                e       30 19.00
GSC    37.06 315 eP     27 59.00   1.3
                e       30 18.00
MWC    37.39 313 eP     28 01.00   0.5
PAS    37.43 313 eP     28 01.00   0.4
SBB    37.46 314 eP     28 14.00  13.1X
BW06   37.71 331 P      28 02.00  -1.1
        1.0s     13.33nm          4.8mb
TNP    38.89 319 P      28 14.00   0.9
FRI    39.95 316 eP     28 21.80   0.2
PRI    40.19 314 eP     28 24.80   1.0
LLA    40.62 314 ePd    28 27.50   0.3
CMB    40.95 317 ePd    28 31.30   1.4
LRM    41.37 332 ePc    28 33.80   0.3
                e       28 41.90
MHC    41.46 315 eP     28 35.50   1.3
BKS    42.13 315 iPd    28 41.20   1.7
     Z  20s      0.60um          4.5Msz
     N  20s      0.40um
     E  20s      1.10um
                e       30 30.00
                eS      34 38.00
                e       38 48.00
                eLQ     40 35.00
                eLR     44 15.00
ORV    42.49 318 ePd    28 44.30   1.8
WDC    43.71 319 eP     28 49.80  -2.5
SES    44.30 337 ePc    28 56.20  -0.9
FFC    45.29 347 iPc    29 05.10   0.2
        1.0s     15.00nm          4.9mb
NEW    45.34 331 eP     29 04.70  -0.7
        1.2s      4.92nm          4.3mb
BAO    45.85 125 ePc    29 11.20   1.3
SCH    46.00  15 eP     29 12.00   1.5
MDZ    46.68 160 eP     29 16.20   0.0
PNT    47.27 330 eP     29 20.00  -0.6
YKA    55.28 344 eP     30 18.80  -2.1
        0.9s      5.00nm          4.5mb
INK    64.92 342 ePc    31 25.10  -1.6
MBC    67.50 352 eP     31 42.50  -0.6
        0.6s      4.00nm          4.7mb
SLKM   67.90 331 eP     31 44.90  -1.0
LKO    78.55  82 P      32 49.78   0.7
        0.7s     12.50nm          5.0mb
KRI   117.18 103 iPKPd 39 33.40   0.2
MTD   119.06 103 iPKPd 39 37.20   0.5
WMO   124.91   6 PKP   39 47.50   0.3
     Z  20s      0.50um          5.2Msz
BJI   125.14 340 PKP   39 47.50  -0.1
HHC   125.82 344 PKPd  39 50.40   1.3
BTO   126.46 345 ePKP  39 49.40  -1.0
TIA   128.18 337 ePKP  39 52.50  -1.1
TIY   128.47 342 ePKP  39 54.00  -0.2
     Z  22s      0.52um          5.2Msz
GTA   129.39 355 PKP   39 56.00   0.0
     Z  26s      0.50um          5.1MszX
QUE   131.13  32 e(PKP)40 03.30   3.6X
LZH   132.12 350 ePKP  40 01.50   0.2
     Z  20s      0.40um          5.1Msz
                sPKP    40 16.00
XAN   132.92 343 PKP   40 03.00   0.3
WHN   134.25 336 ePKP  40 06.50   1.2
NDI   137.04  22 ePKP  40 11.50   0.8
LSA   139.22   4 PKP   40 15.00  -0.3
GKN   139.91  13 PKP   40 16.64   0.5
KKN   140.26  13 PKP   40 16.64  -0.2
GUN   140.27  12 PKP   40 17.14   0.1
DMN   140.40  13 PKP   40 16.80  -0.4
ASPA  140.40 246 ePKP  40 16.40  -0.6
        0.9s      7.00nm
PKI   140.50  13 PKP   40 17.04  -0.4
WB2   140.57 252 ePKP  40 07.00 -10.3X
                i       40 16.10
                e       42 43.60
GYA   140.70 342 PKP   40 16.80  -0.8
HYB   147.57  29 ePKP  40 32.00   2.7X
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PPR   148.02 310 ePKPc 40 33.00   3.0X
CHTO  149.83 351 ePKP  40 33.00   0.2
        1.3s     20.83nm
GBA   150.20  35 PKPd 40 34.60   1.2
        0.8s      4.80nm
LOE   150.65 345 iPKPc 40 40.20   6.2X
TSM   151.97 302 ePKPd 40 43.00   6.9X
     S.D. = 1.0  on  67 of  77 abs.
-----------------------------------
?  JUL  02, 1991  21h 05m 39.26± 6.19s
   48.776 N ±53.3km     6.877 E ±15.8km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                            (538)
     MD 2.3 (UCC).

WLF     1.01 332 iPd    05 56.94  -1.4
                 iS     06 06.30
TNS     1.77  35 ePnd   06 09.70  -0.5
                 eSn    06 31.50
MEM     1.92 343 iP     06 13.00   0.8
DOU     1.99 312 P      06 13.10  -0.2
                 ic     06 17.00
                 iS     06 35.60
ENN     2.09 343 eP     06 16.00   1.3
       0.7s     15.00nm
                 eS     06 36.00
     S.D. = 1.5  on   5 of   5 obs.
-----------------------------------
   JUL  02, 1991  21h 20m 09.90± 0.35s
   44.997 N ± 2.7km     6.708 E ± 3.9km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                            (538)
     ML 2.5 (LDG), 2.6 (GEN).

BNI     0.06 337 Pd     20 11.80  -0.5
                 eSg    20 13.40
RRL     0.09 145 P      20 12.24  -0.5
                 S      20 14.50
RSP     0.42  68 P      20 19.31   0.8
                 S      20 25.26
BHB     0.42 111 P      20 18.45  -0.1
LPG     0.50   3 Pg     20 19.80  -0.3
                 Sg     20 27.40
LPL     0.52   2 Pg     20 20.50   0.0
                 Sg     20 29.00
LSD     0.56  34 P      20 21.47   0.0
                 S      20 29.36
PZZ     0.57 150 P      20 20.24  -1.3
                 S      20 28.33
DOI     0.62 142 Pc     20 21.30  -1.2
                 eSg    20 30.00
STV     0.87 149 P      20 26.39  -0.3
                 S      20 37.57
ENR     0.92 146 P      20 26.92  -0.7
ROB     1.09 130 P      20 30.49   0.1
                 S      20 43.83
ORX     1.10  54 P      20 30.86   0.2
                 S      20 45.95
SBF     1.25 155 Pg     20 34.00   0.9
                 Sg     20 51.00
CKI     1.26 117 P      20 33.50   0.2
                 eSg    20 50.00
FIN     1.33 126 P      20 34.18  -0.3
                 S      20 50.16
IMI     1.38 142 P      20 35.09  -0.1
                 S      20 51.30
PCP     1.39 109 P      20 36.22   0.9
                 S      20 53.43
FRF     1.44 182 Pg     20 36.40   0.4
                 Sg     20 55.50
LRG     1.56 189 Pg     20 38.60   0.9
                 Sg     20 58.80
LMR     1.67 185 Pg     20 40.40   1.1
                 Sg     21 01.20
SMF     2.60 310 Pn     20 52.00  -0.6
                 Pg     20 58.00
                 Sg     21 31.00
BGF     3.12 301 Pn     21 00.40   0.4
                 Pg     21 08.00
     S.D. = 0.7  on  23 of  23 obs.
-----------------------------------
   JUL  02, 1991  21h 24m 03.87± 0.12s
   72.961 N ± 1.8km    12.309 E ± 2.5km
   DEPTH =  10.0km  (geophysicist)
   5.4mb ( 84 abs.)  4.7Msz ( 18 abs.)
 NORWEGIAN SEA                     (642)
     CENTROID, MOMENT TENSOR       (HRV)
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```
Data Used: GDSN
L.P.B.: 13S, 27C
Centroid Location:
Origin Time        21:24:11.4 0.6
Lat 73.47N 0.08 Lon  12.36E 0.19
Dep  17.3 3.1 Half-duration  2.5
Moment Tensor;    Scale 10**16 Nm
  Mrr= 6.73 0.44   Mtt= 0.58 0.64
  Mff=-7.30 0.37   Mrt=-1.38 1.02
  Mrf= 0.85 1.74   Mtf= 1.39 0.35
 Principal Axes:
  T  Val=  7.04   Plg=78  Azm=191
  N        0.58       11       349
  P       -7.63        4        80
Best Double Couple:Mo=7.3*10**16
 NP1:Strike=181 Dip=42 Slip= 107
 NP2:        339      50        76

TRO     3.96 144 eP     25 04.80  -1.1
                 eS     25 46.00
KTK1    5.33 133 eP     25 06.48 -18.9X
                 eS     26 02.61
KEV     5.70 117 iP     25 26.80  -3.7X
       0.6s    122.60nm          5.8mb
                 i      25 30.00
KBS     5.99 359 eP     25 32.50  -2.1
                 eS     26 37.50
JNE     6.68 263 iPc    25 42.17  -2.1
JNW     6.70 263 iP     25 43.06  -1.5
JMI     6.83 263 iPd    25 44.65  -1.8
SOD     7.41 132 iP     25 51.50  -3.0X
NSS     8.47 181 eP     25 44.50 -24.9X
                 eS     27 09.43
RGS    10.01 185 eP     26 26.00  -4.6X
                 eS     28 10.00
MOL    10.59 192 eP     26 27.88 -10.6X
                 eS     28 16.04
FRO    11.60 198 eP     26 49.26  -3.0X
                 eS     28 47.59
FOO    11.74 197 iP     26 50.87  -3.3X
NB2    11.98 183 P      26 51.70  -5.8X
       0.6s     20.90nm          5.6mb
KAF    12.08 147 iP     26 54.60  -4.2X
       0.6s    171.30nm          6.5mb X
AKU    12.82 251 iP     27 06.30  -2.3
       1.0s    144.00nm          6.1mb
                 i      27 09.50
                 i      29 34.00
UPP    13.32 168 iP     27 09.20  -6.1X
                 e      29 28.00
                 i      30 21.00
NUR    13.37 153 eP     27 11.30  -4.6X
REY    15.06 252 eP     27 38.90   1.0
COP    17.35 180 iPc    28 03.90  -3.3X
       0.8s    208.96nm          5.3mb
EKA    18.82 208 Pd     28 24.20  -1.1
       1.1s     53.40nm          4.7mb
WIT    20.37 190 eP     28 44.00   1.2
OBN    20.54 138 iPc    28 43.10  -1.5
       1.0s   1700.00nm          6.4mb
                 e      28 53.00
                 ePP    29 11.00
                 iS     32 27.00
                 LQ     33 50.00
BRN    20.62 178 ePc    28 45.00  -0.4
DMU    20.77 213 eP     28 46.20  -0.8
       1.0s    104.00nm          5.1mb
DBN    21.16 192 eP     28 51.00   0.0
WTS    21.18 189 iPc    28 51.00  -0.1
       1.0s    149.00nm          5.3mb
DLF    21.29 212 eP     28 51.60  -0.7
       1.0s     81.00nm          5.1mb
DCN    21.37 213 eP     28 52.40  -0.6
CLL    21.73 179 iPc    28 55.70  -1.1
     Z  18s      1.50um          4.4Msz
                 i      29 06.50
                 eS     33 00.00
ETA    21.82 211 iPd    28 57.00  -0.6
BRG    22.18 177 iPc    29 00.40  -0.8
       1.2s    130.00nm          5.3mb
                 e      33 14.00
BNS    22.19 189 ePc    29 01.50   0.2
ECB    22.23 212 iPd    29 01.30  -0.4
KSP    22.27 173 iPc    29 01.40  -0.7
       0.9s    109.00nm          5.3mb
                 i      29 36.20
                 e      33 17.80
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ECP     22.35 211 eP     29 02.70  -0.1
MOX     22.40 181 iPc    29 03.00  -0.4
        1.6s   320.00nm          5.5mb
      Z  14s     1.10um          4.4MszX
      N  15s     0.80um
                  eS     33 13.00
ENN     22.45 191 iPc    29 03.80  -0.1
        1.0s   117.00nm          5.3mb
UCC     22.51 193 Pc+    29 05.30   0.8
                  S      33 10.00
KLL     22.55 190 iPc    29 04.80  -0.1
STB     22.58 189 ePc    29 05.20   0.1
MEM     22.60 190 iPd    29 04.81  -0.6
KOE     22.71 188 iPc    29 06.60   0.2
HOF     22.73 181 iPc    29 07.00   0.3
        0.9s   218.00nm          5.7mb
TNS     22.88 186 ePc    29 08.90   0.7
PRU     23.08 176 Pc     29 10.00  -0.1
        1.5s   139.50nm          5.3mb
      Z  17s     1.40um          4.5MszX
      N  17s     1.00um
      E  17s     0.50um
                  e      29 22.00
                  e      31 18.00
                  eS     33 24.00
DOU     23.20 193 Pc+    29 11.40   0.2
        1.0s   152.80nm          5.5mb
                  S      33 27.00
VAL     23.22 217 iP     29 12.00   0.6
KRA     23.23 167 ePc    29 11.50  -0.1
        1.3s   404.00nm          5.8mb
      Z  16s     1.30um          4.5MszX
      E  16s     1.80um
                  i      29 22.70
                  i      29 31.30
                  eS     33 32.00
WET     23.90 179 iPc    29 19.60   1.5
        1.5s   292.00nm          5.6mb
KHC     23.92 178 iPc    29 20.00   1.7
        1.0s    32.00nm          4.9mb
                  e      29 24.00
                  e      30 46.50
                  S      33 40.00
SPC     24.12 167 iPc    29 21.60   1.2
STU     24.31 185 iPc    29 22.50   0.4
        0.9s    42.02nm          5.1mb
CDF     24.74 188 iPc    29 26.80   0.5
        1.0s    32.00nm          4.9mb
VKA     24.85 174 eP     29 26.00  -1.2
        4.0s   537.00nm          5.6mb X
                  ic     29 27.80
                  i      29 36.80
                  i      30 26.60
FUR     24.88 182 iPc    29 28.50   0.9
        1.2s   279.00nm          5.8mb
ZST     24.94 172 iP     29 29.60   1.5
FLN     24.95 200 iPc    29 27.80  -0.4
        1.0s    68.00nm          5.3mb
      Z  20s     0.82um          4.2Msz
KMR     25.00 177 iP+    29 29.60   0.9
LDF     25.08 200 iPc    29 29.30  -0.1
        0.9s    67.15nm          5.3mb
HAU     25.18 189 iPc    29 31.10   0.6
        1.0s    76.00nm          5.3mb
      Z  20s     0.82um          4.2Msz
BHG     25.33 179 iPc    29 32.90   1.1
BSF     25.34 189 iPc    29 32.20   0.2
        1.0s    44.00nm          5.1mb
GRR     25.36 201 iPc    29 31.40  -0.7
        1.2s    95.20nm          5.4mb
PSZ     25.36 168 iP     29 32.60   0.4
SRO     25.38 171 iP     29 33.10   0.9
LPF     25.73 201 iPc    29 34.90  -0.6
        0.8s    80.60nm          5.5mb
CEI     25.77 164 eP     29 37.00   1.0
WTTA    25.78 181 iPc    29 37.00   0.7
        1.2s   170.00nm          5.6mb
                  i      29 39.50
                  i      29 47.30
BMR     25.87 163 ePd    29 40.00   3.1X
KBA     25.97 178 iPc    29 38.90   0.9
        0.9s    59.00nm          5.3mb
                  i      29 44.50
                  i      29 50.90
                  i      30 51.20
LOR     26.06 193 iPc    29 38.40  -0.3
        0.8s   111.95nm          5.6mb
      Z  20s     0.80um          4.3Msz
OGA     26.18 182 eP     29 40.70   0.6
SSF     26.29 194 iPc    29 40.40  -0.4
LBF     26.34 193 iPc    29 40.80  -0.5
FVI     26.45 179 P      29 43.10   0.9
AVF     26.57 194 iPc    29 43.00  -0.4
UZD     26.61 170 iP     29 44.00   0.3
SMF     26.68 193 iPc    29 43.80  -0.6
BGF     26.84 195 iPc    29 45.70  -0.1
PTT     26.89 158 eP     29 45.00  -1.3
CTI     27.00 181 P      29 47.60   0.2
MFF     27.05 199 iPc    29 47.50  -0.3
        1.0s    78.00nm          5.4mb
VVI     27.06 180 P      29 47.70  -0.2
TCF     27.16 195 iPc    29 48.40  -0.4
MAF     27.20 195 iPc    29 48.80  -0.3
PTJ     27.20 174 iPc    29 49.10  -0.1
LSF     27.25 196 iPc    29 49.10  -0.5
ZAG     27.28 174 iPc    29 50.00   0.2
MDI     27.30 184 P      29 49.10  -0.8
TRI     27.35 178 ePc    29 49.70  -0.7
TIM     27.62 166 iPd    29 57.00   4.1X
LPL     27.65 188 iPc    29 53.90   0.4
        0.8s    21.50nm          5.0mb
LPG     27.67 188 iPc    29 54.20   0.5
        1.2s    65.45nm          5.3mb
RIY     27.72 177 eP     29 53.50  -0.3
TNR     27.95 162 ePc    29 58.00   2.1
CVO     27.97 159 eP     30 00.00   3.9X
VRI     27.98 158 iPc    29 55.50  -0.7
RSP     27.99 188 P      29 56.70   0.2
BNI     28.12 188 P      29 58.60   1.0
RJF     28.19 196 iPc    29 57.70  -0.4
        1.0s    52.00nm          5.3mb
      Z  20s     0.68um          4.2Msz
RRL     28.24 188 P      29 59.36   0.5
MBC     28.25 338 ePc    29 59.50   1.1
        1.0s    37.00nm          5.1mb
BOB     28.31 184 P      29 59.80   0.5
CMP     28.40 161 ePd    30 02.00   2.0
BEO     28.48 168 eP     30 01.00   0.3
CAF     28.52 195 iPc    30 00.90  -0.2
        1.0s    18.00nm          4.8mb
PCP     28.56 186 P      30 00.70  -0.8
LFF     28.62 197 iPc    30 01.80  -0.1
        1.1s    43.95nm          5.2mb
PZZ     28.65 188 P      29 58.34  -4.0X
ISR     28.68 159 eP     30 00.00  -2.6
CKI     28.68 186 P      30 02.20  -0.3
FRB     28.76 294 eP     29 57.00  -6.0X
ROB     28.83 187 P      30 03.36  -0.5
LPO     28.84 197 iPc    30 03.80  -0.1
        1.0s    32.00nm          5.1mb
MME     28.86 182 P      30 05.30   0.9
STV     28.90 187 P      30 02.13  -2.4
FIN     28.90 186 P      30 03.06  -1.5
ENR     28.91 187 P      30 03.47  -1.2
BDI     28.99 183 Pd     30 05.80   0.4
RSM     29.12 180 Pd     30 07.30   0.9
SFI     29.13 181 P      30 07.30   0.9
PGD     29.17 181 P      30 07.94   0.8
IMI     29.21 187 P      30 06.23  -1.1
SBF     29.27 187 iPc    30 07.80  -0.1
        1.2s    83.30nm          5.4mb
CRE     29.42 181 P      30 10.00   0.7
CDR     29.53 190 ePd    30 10.30   0.1
ARV     29.55 179 P      30 10.10  -0.2
FRF     29.61 188 iPc    30 10.80   0.0
        1.0s    32.00nm          5.1mb
LRG     29.72 189 iPc    30 12.00   0.1
        1.0s    32.00nm          5.1mb
      Z  20s     0.95um          4.4Msz
LMR     29.84 189 iPc    30 12.90   0.0
        0.8s    13.45nm          4.8mb
HVAR    29.93 174 iPc    30 12.60  -1.1
ASS     29.98 179 P      30 21.60   7.4X
PVL     30.46 161 iP     30 19.00   0.6
PGF     30.54 185 eP     30 19.00  -0.2
        1.2s    35.70nm          5.1mb
EPF     30.55 197 iPc    30 18.80  -0.5
        0.8s    42.00nm          5.4mb
MNS     30.66 179 P      30 19.79  -0.4
        0.2s    10.20nm          5.3mb
RMP     31.23 179 P      30 25.40   0.2
SDI     31.35 178 P      30 26.21  -0.1
        1.3s   107.80nm          5.6mb
SKO     31.38 167 iPc    30 25.80  -0.7
                  i      30 31.60
                  i      33 19.00
DUI     31.40 177 P      30 26.80   0.0
PLD     31.51 162 iPc    30 26.00  -1.6
KKB     31.61 165 iPd    30 28.00  -0.5
RFI     31.75 178 P      30 30.62   0.9
        1.6s   804.60nm          6.4mb X
RZN     31.92 162 iPc    30 30.00  -1.5
MMB     31.93 164 iPc    30 31.00  -0.4
DMK     32.09 158 eP     30 32.50  -0.3
VAY     32.11 165 iPc    30 32.40  -0.5
        0.8s   119.00nm          5.9mb
BRT     32.25 173 P      30 33.30  -0.9
KNT     32.29 165 ePc    30 34.08  -0.4
SRS     32.39 164 ePc    30 34.68  -0.7
GRG     32.46 166 ePd    30 35.64  -0.3
SGO     32.52 176 P      30 36.40   0.0
RDO     32.53 161 eP     30 36.00  -0.6
FNA     32.56 167 ePc    30 36.28  -0.6
EBR     32.73 197 eP     30 39.00   0.7
EROO    32.73 197 eP     30 38.90   0.6
THE     32.82 165 ePc    30 38.56  -0.5
LCI     32.83 172 Pd     30 38.80  -0.3
ALN     32.83 161 ePc    30 38.48  -0.7
CTT     32.83 157 iP     30 39.80   0.6
MGR     32.94 175 P      30 39.80  -0.4
ETOR    32.97 200 eP     30 41.20   0.7
ISK     32.99 156 eP     30 41.00   0.5
ORI     33.04 174 P      30 41.80   0.8
KZN     33.06 167 eP     30 53.90  12.6X
MMN     33.20 175 P      30 42.60   0.2
HRT     33.30 156 iP     30 42.80  -0.5
LIT     33.32 166 ePd    30 43.00  -0.4
CSI     33.32 174 P      30 43.70   0.2
GUD     33.37 203 eP     30 44.00  -0.1
KGT     33.40 159 eP     30 44.70   0.6
TDS     33.44 174 P      30 45.00   0.5
KEK     33.53 170 eP     30 48.50   3.2X
ROI     33.54 174 P      30 46.10   0.7
BNT     33.56 158 iP     30 45.70   0.2
EDC     33.56 158 iP     30 45.00  -0.5
PAIG    33.58 164 ePc    30 44.80  -0.9
ESEL    33.59 193 eP     30 46.00   0.2
CGL     33.71 184 P      30 46.79  -0.2
        0.5s     2.40nm          4.4mb
IGT     33.74 169 ePd    30 46.12  -1.0
CZI     33.88 175 P      30 47.30  -0.9
EZN     33.92 160 eP     30 47.80  -0.8
KVT     33.95 147 eP     30 50.00   1.0
ECHE    34.08 198 eP     30 50.60   0.5
GRI     34.28 174 P      30 51.29  -0.6
        0.8s    61.90nm          5.6mb
AGG     34.38 166 ePd    30 51.80  -0.8
PRK     34.49 161 eP     30 53.90   0.4
ATN     34.92 176 Pd     30 55.50  -1.7
SOI     35.02 175 Pd     30 56.50  -1.6
GIB     35.06 178 Pd     30 58.40  -0.2
VLS     35.11 169 eP     30 58.00  -0.9
MNO     35.13 177 P      30 59.60   0.3
IZM     35.43 160 iP     31 01.80   0.2
KHL     35.75 157 iP     31 04.40   0.0
SCH     35.76 283 eP     31 04.00  -0.3
AFC     36.65 201 eP     31 13.00   0.9
BCK     36.73 155 iP     31 13.60   0.9
YER     36.78 158 iP     31 13.00  -0.1
EGUA    37.07 201 eP     31 17.00   1.5
EPRU    37.13 204 eP     31 17.00   1.0
INK     37.22 340 iPc    31 16.30   0.0
        1.0s    90.00nm          5.5mb
MAL     37.27 202 iPd    31 19.20   2.1
TAB     38.78 135 eP     31 30.00   0.1
YAK     38.87  42 eP     31 29.00  -1.3
                  e      33 01.00
                  e      33 24.00
                  e      37 30.00
                  e      38 29.00
YKA     40.17 325 eP     31 40.10  -1.0
        0.9s    25.80nm          4.9mb
IFR     40.52 203 iPd    31 47.00   2.5
HRI     41.55 150 eP     31 53.10   0.3
IRK     41.62  68 eP+    31 51.00  -2.1
                  e      31 58.00
                  ePP    33 30.00
                  ePcP   33 45.00
                  eS     38 16.00
                  eSS    41 34.00
IR7     41.97 131 iPc    31 58.00   1.7
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02d 21h

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IR1     42.26 131 iPc    31 59.50    0.8
IR5     42.44 131 eP     32 02.50    2.4
ZNT     42.46 151 iPd    32 00.60    0.4
IR4     42.48 131 iPc    32 02.50    2.0
KER     42.52 136 eP     32 02.00    1.2
KFNJ    42.92 150 P      32 04.30    0.4
MKRJ    43.22 150 Pd     32 06.60    0.1
TIO     43.33 205 iP     32 08.50    1.1
MAIO    43.52 121 iPc    32 10.30    1.4
        0.9s     29.84nm          5.1mb
                  i      33 53.00
WMO     44.51  88 Pc     32 18.50    1.7
        1.0s     60.00nm          5.4mb
      Z  21s      1.30um          4.8Msz
      N  10s      0.60um
                  pP     32 23.00   15kmX
                  PcP    34 00.00
                  PP     34 05.50
                  eS     38 54.00
MBH     44.87 152 iPd    32 19.60   -0.2
FFC     44.93 312 iPc    32 20.40    0.5
        0.9s     38.00nm          5.3mb
HSHJ    45.05 151 P      32 22.80    1.5
KSH     45.09 102 P      32 23.00    1.4
                  S      39 04.00
PMR     45.13 348 e(P)   32 21.20   -0.2
        0.9s     37.50nm          5.3mb
                  e      32 35.00
SVW     45.95 352 ePc    32 29.20    1.2
        0.9s     72.50nm          5.7mb
                  e      32 37.00
SLKM    46.27 348 ePc    32 30.60    0.1
                  e      32 38.00
RSO     46.46 350 ePc    32 31.60   -0.6
                  e      32 39.80
SES     50.92 316 eP     33 06.70    0.0
        1.0s    119.00nm          5.8mb
QUE     51.26 115 iPc    33 10.60    0.9
                  e      40 30.70
GTA     52.11  79 iPc    33 16.40    0.4
        1.2s     40.00nm          5.2mb
      Z  22s      1.50um          5.0Msz
      N  20s      1.10um
                  pP     33 23.00   22kmX
                  sP     33 28.40
                  PcP    34 27.00
                  PP     35 15.60
                  eS     40 42.00
PNT     53.59 323 eP     33 27.00    0.3
BTO     53.89  69 eP     33 28.50   -0.6
      N  17s      0.60um
      E  15s      1.60um
                  epP    33 34.00   18kmX
                  ePP    35 28.00
                  eS     41 10.00
HHC     54.08  68 eP     33 31.20    0.7
        1.5s     30.00nm          5.1mb
      Z  22s      0.90um          4.8Msz
      E  10s      0.40um
CN2     54.89  54 P      33 35.80   -0.5
        1.0s     16.00nm          5.0mb
      Z  18s      2.10um          5.3Msz
      N  10s      0.23um
      E  10s      0.80um
PGC     54.89 326 eP     33 37.00    0.8
MDJ     55.09  51 eP     33 37.30   -0.4
        1.0s      8.00nm          4.7mb
ADK     55.29   7 eP     33 39.30    0.2
        1.0s     60.00nm          5.6mb
NDI     55.52 105 iPc    33 42.00    1.0
LRM     55.56 316 eP     33 41.20   -0.3
BLA     55.65 285 e(P)   33 42.00    0.0
BJI     56.08  64 eP     33 44.50   -0.4
        1.4s     29.00nm          5.1mb
      Z  20s      1.01um          4.9Msz
      E  20s      1.68um
                  ePP    35 51.00
                  eS     41 36.00
SNY     56.29  57 iPd    33 46.20   -0.2
        1.0s     20.00nm          5.1mb
      Z  20s      1.00um          4.9Msz
                  S      41 33.00
LZH     56.36  77 Pc     33 47.00   -0.2
        1.5s     43.00nm          5.3mb
      Z  22s      1.27um          5.0Msz
      N  15s      0.80um
                  pP     33 52.50   18kmX
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                  sP     33 58.00
                  S      41 32.00
TIY     57.25  68 iPd    33 53.00   -0.4
      Z  18s      0.85um          4.9Msz
      E  15s      0.65um
                  S      41 40.50
                  sS     41 54.00
FVM     57.71 294 ePc    33 54.10   -2.4
        0.9s     29.66nm          5.3mb
                  e      34 01.90
GKN     58.30  98 P      34 00.80   -0.2
        0.8s    325.00nm          6.4mb X
LSA     58.62  91 P      34 04.50    0.9
KKN     58.69  97 P      34 03.56   -0.2
        0.6s    390.00nm          6.7mb X
GUN     58.75  97 P      34 04.46    0.1
        1.0s    532.00nm          6.6mb X
DMN     58.81  98 P      34 04.50   -0.2
        0.9s    240.00nm          6.3mb
PKI     58.93  97 P      34 05.12   -0.5
        0.8s    116.00nm          6.1mb
MRRJ    59.63  42 eP     34 09.40   -0.4
XAN     59.72  73 Pc     34 10.00   -0.6
        1.0s     30.00nm          5.4mb
GLD     59.77 308 ePc    34 10.90   -0.2
                  e      34 18.00
TIA     59.93  65 eP     34 12.10    0.1
      Z  18s      0.80um          4.9Msz
      E  17s      0.90um
HOOJ    60.10  40 eP     34 11.60   -1.5
TUL     61.08 298 e(P)   34 23.10    3.3X
CD2     61.18  79 eP     34 20.00   -0.6
        1.0s     30.00nm          5.4mb
      Z  20s      0.93um          4.9Msz
                  eS     42 40.00
PV09    61.86 311 ePd    34 25.50    0.0
WDC     62.56 323 eP     34 29.70    0.0
MIN     62.62 322 eP     34 30.90    0.6
MEO     62.86 300 iPd    34 30.60   -1.2
OFUJ    62.97  42 eP     34 34.30    1.9
POO     64.20 112 iPd    34 40.20   -0.6
LKO     64.27 200 P      34 40.20   -1.0
        0.9s     67.00nm          5.8mb
NJ2     64.32  65 eP     34 40.00   -1.3
      Z  16s      0.30um          4.6MszX
                  eS     43 18.00
WHN     64.53  69 Pc     34 42.50   -0.2
CMB     64.63 320 ePd    34 43.50    0.1
ALQ     64.64 307 eP     34 43.00   -0.7
        1.1s     21.20nm          5.2mb
MAT     64.71  46 iPc    34 42.30   -1.6
        1.2s     23.44nm          5.3mb
BKS     65.13 322 e(P)   34 49.60    3.0X
                  i      34 54.80
BRK     65.14 322 eP     34 47.20    0.6
FRI     65.51 319 eP     34 49.80    0.8
MHC     65.54 321 eP     34 50.70    1.3
SSE     65.84  63 Pc     34 49.50   -1.6
        0.6s     20.00nm          5.5mb
      Z  20s      0.50um          4.7Msz
      E  20s      1.00um
SAO     66.06 321 eP     34 54.30    1.7
LLA     66.11 320 eP     34 52.30   -0.6
GYA     66.21  78 P      34 52.60   -1.1
        1.0s     40.00nm          5.6mb
      N  18s      1.00um
      E  18s      1.30um
                  S      43 43.00
KMI     66.33  82 Pd     34 54.00   -0.7
        2.0s     70.00nm          5.5mb
PRS     66.47 320 eP     34 55.80    0.6
PRI     66.52 320 eP     34 57.80    2.2
HYB     66.57 108 iPd    34 55.40   -0.6
        1.0s     80.00nm          5.9mb
GSC     66.57 316 eP     34 57.00    1.1
TIC     67.08 199 P      34 58.02   -1.2
KIC     67.34 198 P      35 00.10   -0.7
        1.0s     50.50nm          5.7mb
SBB     67.37 317 eP     35 02.00    1.0
LIC     67.50 199 P      35 01.18   -0.6
      Z  20s      0.08um          3.9Msz
TPC     67.57 315 eP     35 04.00    1.8
MWC     67.87 317 eP     35 05.00    0.7
RVR     67.95 316 eP     35 08.00    3.4X
SYP     67.96 319 eP     35 06.00    1.3
PAS     67.97 317 eP     35 09.00    4.4X
PLM     68.47 316 eP     35 08.00    0.0
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BAR     69.08 315 eP     35 13.00    1.4
GBA     69.89 110 Pc     35 15.50   -1.1
        0.9s     42.10nm          5.6mb
CHG     71.17  87 eP     35 23.90   -0.5
        1.0s     25.00nm          5.3mb
                  e      38 10.70
CHTO    71.17  87 eP     35 23.80   -0.6
        1.0s     23.50nm          5.3mb
BDT     72.68  88 eP     35 30.60   -2.7
KOD     73.11 111 eP     35 36.00   -0.3
KHT     74.88  89 eP     35 47.00    0.8
NNT     77.30  89 eP     36 00.00    0.2
LPS     79.77 285 eP     36 15.70    2.2
        1.0s     82.00nm          5.7mb
PTZ     87.91 162 iPc    36 54.60    0.1
KGM     88.38  88 eP     36 57.50    0.6
LSZ     88.65 165 iPd    36 58.90    0.8
SOB1    88.71 232 eP     36 59.90    1.5
KRI     90.31 163 iPd    37 05.70   -0.2
                  iPP    40 39.40
MTD     90.43 162 iPd    37 06.50    0.1
                  ipP    37 14.00   23kmX
BUL     93.51 165 iPd    37 20.80    0.2
        0.6s     15.00nm          5.6mb
                  i      37 27.90
SIV    100.40 250 Pdiff  37 53.40    1.5
WB2    118.11  65 ePKP   42 51.80   -0.2
                  e      44 17.60
ASPA   121.54  66 iPKPd  42 57.70   -0.7
        0.7s     22.20nm
                  i      43 04.90
RMQ    127.98  52 iPdiff40 09.00   14.7X
SNA    143.35 188 iPKPc  43 35.00   -2.9X
        1.0s     80.00nm
NVL    143.50 180 ePKPc  43 35.00   -3.2X
                  e      43 42.00
MAW    144.18 150 iPKPd  43 39.00   -0.4
        1.0s     26.00nm
      S.D. = 0.9  on 289 of 317 obs.
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   JUL  02, 1991  21h 56m 40.80± 0.21s
    5.125 S ± 3.3km  153.630 E ± 4.8km
   DEPTH =  57.4km  (  2 depth phases)
   5.3mb ( 26 obs.)
 NEW IRELAND REGION                (190)
      CENTROID, MOMENT TENSOR      (HRV)
      Doto Used: GDSN
      L.P.B.: 14S, 23C
      Centroid Location:
      Origin Time        21:56:41.8 0.6
      Lot  5.37S 0.09 Lon 153.53E 0.08
      Dep  35.6 6.8 Half-durotion  1.4
      Moment Tensor;    Scale 10**16 Nm
        Mrr= 3.92 0.27  Mtt=-1.99 0.43
        Mff=-1.93 0.51  Mrt= 0.79 0.83
        Mrf= 0.60 0.75  Mtf= 2.22 0.29
       Principal Axes:
        T  Val=  4.17   Plg=76  Azm=318
        N        0.01       14       135
        P       -4.18        1       225
      Best Double Couple:Mo=4.2*10**16
       NP1:Strike=329 Dip=46 Slip= 110
       NP2:        121      48        71

RAB      1.73 302 eP     57 10.00    1.1
                  iS     57 32.00
HNR      7.59 125 eP     58 37.00    5.7X
                  eS     00 05.00
PMG      7.71 236 eP     58 30.00   -2.9
YYYY     7.71 261 eP     58 34.60    1.5
CTAO    16.51 205 iPc    00 31.50    1.3
        1.0s     75.00nm          4.8mb
GUA     20.46 335 eP     01 16.80    0.5
        0.5s    112.68nm          5.5mb
QIS     20.52 220 eP     01 15.50   -1.4
GUMO    20.53 335 eP     01 17.20    0.3
        1.0s    192.00nm          5.4mb
                  e      01 33.60   78kmX
                  eS     05 27.80
PJG     20.53 335 eP     01 17.20    0.3
DZM     20.92 145 iPc    01 20.70   -0.4
OLP     23.15 202 eP     01 44.00    1.0
MTN     23.49 249 eP     01 47.00    0.6
WB2     23.85 230 iPc    01 50.10    0.2
                  i      02 13.40  109kmX
                  i      05 33.40
COO     25.37 183 iPc    02 05.80    1.4
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ASPA    26.48 224 eP    02 13.20  -1.5
        0.5s     8.50nm          4.6mb
      Z  22s     0.90um          4.3Msz
                  iPcP  05 38.90
                  eS    06 40.60
KNA     26.60 245 eP    02 17.50   1.8
STK     28.91 202 eP    02 36.20  -0.3
        0.4s     2.10nm          4.1mb X
                  e     05 44.40
CAN     30.35 188 eP    02 50.00   0.6
WARB    33.23 228 eP    03 14.50  -0.2
COOL    39.86 226 eP    04 10.00  -0.6
NOZ     40.03 150 P     04 12.60   0.7
THZ     40.33 158 eP    04 14.50   0.1
KIW     40.38 155 P     04 14.80   0.1
TCW     40.41 156 P     04 15.60   0.7
MNG     40.42 154 Pc    04 14.90  -0.2
        0.2s    42.00nm          5.9mb
MRW     40.60 155 P     04 16.30  -0.2
CAW     40.65 155 eP    04 16.70  -0.2
WDW     40.75 155 P     04 17.70   0.0
LTZ     40.98 159 P     04 20.20   0.5
KHZ     41.14 157 P     04 20.30  -0.6
KLB     42.69 228 eP    04 32.90  -0.9
MRWA    42.89 232 iPc   04 35.10  -0.4
BAL     42.99 229 eP    04 35.50  -0.8
MAT     43.89 342 eP    04 42.00  -1.5
        0.6s     5.33nm          4.5mb
MUN     44.02 228 eP    04 44.00  -0.6
YAMJ    44.89 345 P     04 51.10  -0.4
OFUJ    45.35 347 eP    04 56.80   1.7
SSE     47.51 321 Pd    05 12.60   0.4
        1.0s    24.00nm          5.1mb
      Z  20s     0.50um          4.5Msz
                  pP    05 28.00  60km
NJ2     49.62 321 Pd    05 29.00   0.5
                  PcP   06 49.20
KGM     50.76 277 eP    05 37.50   0.0
WHN     51.66 316 Pc    05 45.00   0.9
        1.0s    30.00nm          5.3mb
TIA     53.47 323 Pc    05 56.20  -1.2
GYA     55.25 307 P     06 10.00  -0.8
        1.0s    20.00nm          5.1mb
LOE     55.91 295 iPc   06 15.60   0.0
BJI     56.62 326 eP    06 19.00  -1.3
TIY     57.29 322 eP    06 23.50  -1.7
XAN     57.43 316 iPc   06 25.80  -0.4
        0.7s    70.00nm          5.9mb
KMI     57.85 304 Pc    06 29.50   0.0
        1.5s   100.00nm          5.7mb
KHT     58.02 291 iPc   06 31.20   0.7
CHTO    58.87 295 iPc   06 36.30  -0.2
        1.1s    39.16nm          5.5mb
CD2     59.58 310 P     06 41.00  -0.2
        0.8s   100.00nm          6.0mb
HHC     59.79 324 eP    06 42.00  -0.6
        1.2s    20.00nm          5.1mb
BTO     60.55 323 P     06 47.00  -0.8
LZH     62.04 316 iPc   06 59.00   1.0
        1.4s   140.00nm          5.9mb
GTA     66.45 317 iPc   07 27.30   0.7
        1.0s    60.00nm          5.5mb
SHL     67.18 300 iP    07 31.00  -0.6
LSA     69.10 304 P     07 44.50   0.7
YAK     69.44 348 eP    07 47.10   2.5
IRK     70.79 330 eP    07 52.00  -1.1
GUN     73.00 301 P     08 07.18   0.0
        0.7s    95.00nm          5.8mb
SBA     73.01 177 P     08 07.70   1.9
PKI     73.31 301 P     08 08.74  -0.2
KKN     73.48 301 P     08 09.84   0.1
        0.7s    79.00nm          5.7mb
DMN     73.58 301 P     08 10.82   0.4
GKN     74.08 301 P     08 13.26   0.1
KDC     76.12  26 eP    08 24.10   0 1
WMO     76.54 317 iPc   08 27.50   0.7
        0.7s    20.00nm          5.2mb
                  S     18 11.00
SVW     76.79  23 P     08 28.30   0.5
KOD     77.36 282 eP    08 33.00   0.9
HYB     77.38 289 eP    08 31.40  -0.4
TTA     77.77  21 ePc   08 33.40   0.2
        1.1s    14.70nm          4.9mb
GBA     77.86 285 Pd    08 34.90   0.5
        0.9s    17.20nm          5.1mb
PMR     79.64  24 eP    08 42.60  -0.7
        0.9s    12.50nm          4.8mb
```

```
IMA     80.49  19 ePc   08 47.40  -0.6
        0.8s     7.20nm          4.7mb
NDI     80.61 300 iPc   08 49.00  -0.2
TOA     81.11  24 eP    08 51.60   0.4
KSH     83.75 310 P     09 07.00   1.6
SPA     84.91 180 iPc   09 11.40   0.7
        0.8s    30.00nm          5.4mb
                  i     09 27.20  55km
MAW     85.59 203 iPc   09 09.60  -4.2X
        1.0s    68.00nm          5.7mb
QUE     89.68 300 iPc   09 34.90   0.3
YKA     95.33  28 eP    09 58.60  -1.0
        0.9s     1.90nm          4.6mb
MAIO    96.33 306 eP    10 05.00   0.1
BFT    117.32 238 e(PKP)15 23.50   1.0
NB2    117.50 340 PKP   15 19.80  -1.7
        0.7s     0.80nm
MTD    118.74 248 iPKPd 15 25.00  -0.2
                  i     15 41.30
BUL    120.44 243 iPKPd 15 28.20  -0.3
        0.5s    28.17nm
KRI    120.54 247 iPKPd 15 28.30  -0.4
KHC    124.64 329 PKP   15 35.00  -0.6
ZOBO   133.55 118 PKP   15 53.00  -1.2
IFR    145.52 328 iPKPd 16 13.50  -1.4
                  i     16 15.50
VAO    145.55 145 (PKP) 16 10.00  -5.1X
TIO    148.67 327 iPKP  16 24.50   4.5X
                  i     16 49.50
BAO    150.27 134 ePKPc 16 27.00   4.2X
        S.D. = 0.9  on  88 of  93 obs.
-----------------------------------------
&  JUL  02, 1991  23h 00m 11.00s
   37.320 N          121.677 W
   DEPTH =   6.0km
 CENTRAL CALIFORNIA                ( 39)
      <BRK>. ML 2.0 (BRK).

MHC      0.04  52 iPd    00 12.15  -0.4
                  iS    00 13.55
ARN      0.12  76 iPd    00 13.30  -0.3
GCC      0.39 222 eP     00 18.30  -0.5
                  eS    00 24.50
SAO      0.58 161 iP     00 22.30  -0.4
PCC      0.59 288 eP     00 22.20  -0.6
8KS      0.71 322 eP     00 25.80   0.6
                  iS    00 37.70
LLA      0.92 140 eP     00 28.00  -0.9
                  iS    00 43.00
CMB      1.25  55 eP     00 37.80   3.2
                  eS    00 51.00
        8 obs. associated
-----------------------------------------
   JUL  02, 1991  23h 31m 58.58± 0.27s
   32.110 N ± 4.6km   85.101 E ± 4.2km
   DEPTH =  16.5km  (  4 depth phases)
   4.7mb ( 29 obs.)  4.5Msz (  4 obs.)
 TIBET                             (306)

GKN      4.11 186 P      33 03.06   0.8
GUN      4.24 171 P      33 05.36   1.1
KKN      4.31 178 P      33 05.90   0.8
DMN      4.49 180 P      33 08.08   0.4
PKI      4.53 177 P      33 08.78   0.4
LSA      5.73 113 Pc     33 28.00   2.6
NDI      7.62 245 iPd    33 52.00   0.5
        0.6s    33.33nm          5.7mb X
                  iS    35 15.00
KSH     10.42 317 P     34 31.00   0.7
                  S     36 30.00
WMO     11.87   9 eP    34 51.50   1 4
      Z  21s     1.60um
      N  10s     1.00um
                  sP    35 06.50
                  eS    37 01.00
GTA     13.98  55 eP    35 17.50  -0 7
      Z  16s     1.70um
      N  13s     3.50um
                  sP    35 27.00
QUE     15.66 268 eP    35 39 20  -1.1
                  eS    38 20.20
HYB     15.78 204 ePc   35 34.50  -7 3X
CD2     15.96  89 eP    35 43.80  -0 2
        1.4s   100.00nm          4.8mb
      Z  12s     2.00um
LZH     16.02  71 P     35 49.00   4 1X
        1.5s   150.00nm          4 9mb
```

```
      Z  12s     3.16um
      N  13s     6.45um
                  pP    35 54.50
                  PP    36 05.00
POO     16.90 220 iPc   35 57.10   1.2
                  iS    38 43.80
KMI     16.97 110 Pc    35 55.00  -2.0
        1.5s    60.00nm          4.5mb
CHG     18.18 133 eP    36 08.00  -3.9X
        1.2s    31.25nm          4.3mb
CHTO    18.18 133 eP    36 06.40  -5.5X
        1.3s    30.23nm          4.3mb
BDT     19.43 136 eP    36 20.80  -6.3X
GYA     19.62 101 iPc   36 27.00  -2.4
        1.2s    20.00nm          4.3mb
      N  12s     2.00um
      E  12s     0.90um
                  pP    36 37.60  47kmX
                  PP    36 49.00
                  S     40 05.00
GBA     19.71 203 Pc    36 26.10  -4.2X
        0.6s     4.10nm          3.9mb
XAN     20.05  78 Pd    36 32.00  -1.8
        1.0s    30.00nm          4.6mb
KHT     21.19 141 eP    36 41.50  -4.1X
MAIO    21.56 288 eP    36 49.00  -0.4
BTO     21.73  60 eP    36 51.00   0.0
      N  11s     1.90um
      E  14s     1.20um
KOD     22.89 200 eP    37 03.00   0.1
HHC     22.93  60 eP    37 04.00   1.1
      Z  18s     1.70um          4.5Msz
      E  12s     1.00um
TIY     23.06  68 iPc   37 04.00  -0.2
      Z  14s     1.43um          4.6MszX
      N  15s     2.82um
IRK     24.53  29 eP    37 26.00   7.8X
                  e     37 31.80  21km
WHN     25.00  86 P     37 25.50   2.5X
      E  10s     1.10um
                  pP    37 36.60  43kmX
BJI     26.24  64 eP    37 36.00   1.6
        1.2s    20.00nm          4.7mb
      Z  16s     0.87um          4.4MszX
      N  12s     1.24um
TIA     26.75  72 eP    37 39.80   0.7
      Z  12s     1.10um          4.6MszX
      N  15s     2.60um
SSE     30.66  82 P     38 15.00   0.6
      Z  20s     1.40um          4.6Msz
      N  12s     1.60um
SNY     32.01  61 eP    38 27.00   0.9
      Z  22s     0.50um          4.2Msz
      N  11s     1.09um
CN2     33.58  58 eP    38 40.00   0.2
        0.8s    10.00nm          4.8mb
      Z  16s     3.94um          5.2MszX
      N  13s     0.92um
      E  13s     0.24um
                  pP    38 50.00  35kmX
OBN     40.88 319 eP    39 50.00   8.9X
        1.2s  *******nm          7.9mb X
VRI     46.42 305 eP    40 27.00   1.0
ISR     46.61 304 eP    40 27.00  -0.6
CVO     46.81 305 ePc   40 25.00  -4.1X
MLR     47.00 304 eP    40 28.00  -2.8X
KAF     47.65 327 eP    40 40.50   5.0X
NUR     48.18 325 eP    40 40.70   1.1
SOD     48.74 334 eP    40 48.00   4.2X
KEV     49.31 337 eP    40 53.00   4.8X
        0.6s    11.70nm          5.1mb
SKO     50.71 300 eP    41 01.00   1.6
UPP     51.63 324 iP    41 06.50   0.5
SRO     51.96 308 eP    41 15.60   6.9X
KSP     52.87 312 eP    41 19.50   4.0X
HFS     53.60 324 eP    41 21.90   1.2
        0.5s     2.90nm          4.5mb
      Z  16s     0.27um          4.4MszX
                  LR    02 52.00
PRU     54.10 311 eP    41 25.00   0.5
      Z  15s     0.40um          4.6MszX
      N  23s     1.50um
      E  23s     0.30um
                  e     41 28.50  12km
                  e     41 32.20
BRG     54.34 312 eP    41 29.30   3.0X
                  e     41 34.20  16km
```

02d 23h

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NB2     54.78 325 P      41 28.70  -0.8
        0.8s     5.70nm          4.7mb
KHC     54.86 310 eP     41 32.00   1.8
        1.0s     4.30nm          4.4mb
                  e      41 37.50  18km
MOX     55.84 312 e(P)   41 41.00   3.8X
ASS     56.80 303 P      41 45.00   0.7
SFI     57.15 305 P      41 49.00   2.4
MME     57.89 305 P      41 55.00   2.9X
BSF     59.55 310 eP     42 03.10  -0.4
        0.8s     8.05nm          4.9mb
LPG     60.23 307 eP     42 08.00  -0.4
        0.8s     6.70nm          4.8mb
LPL     60.23 308 eP     42 07.40  -0.9
        1.0s     9.00nm          4.9mb
LOR     61.62 310 eP     42 16.40  -1.1
        1.0s     4.00nm          4.5mb
      Z  22s     0.40um          4.5Msz
LBF     61.63 310 eP     42 16.70  -0.9
        1.0s     4.00nm          4.5mb
SMF     61.82 309 eP     42 17.70  -1.1
        0.8s     4.05nm          4.6mb
SSF     61.91 310 eP     42 18.60  -0.8
        0.9s     6.55nm          4.8mb
MAF     62.79 309 eP     42 25.00  -0.3
        0.8s     5.35nm          4.8mb
TCF     63.00 309 eP     42 26.40  -0.3
        1.0s     9.00nm          4.9mb
EKA     63.33 320 Pc     42 35.60   6.9X
        0.8s     4.30nm          4.7mb
CAF     63.55 308 eP     42 29.90  -0.5
        0.8s     4.05nm          4.6mb
LDF     63.74 312 eP     42 30.80  -0.7
        1.0s    14.00nm          5.1mb
WB2     70.02 131 iPd    43 09.70  -1.9
MTD     70.63 235 iPc    43 13.00  -2.5
MBC     70.81   6 eP     43 16.00   0.4
        1.0s     8.00nm          4.8mb
KRI     72.04 236 eP     43 12.15 -11.9X
IFR     73.27 299 iPd    43 34.00   2.8X
BUL     74.98 234 iPc    43 39.10  -2.1
INK     75.84  14 eP     43 45.00  -0.2
STK     83.08 134 eP     44 29.70   5.1X
        0.6s     1.60nm          4.4mb
YKA     84.40   9 eP     44 30.60  -0.3
        0.6s     1.30nm          4.3mb
SIV    145.37 290 PKP    51 36.10  -1.7
CCH    150.17 293 PKP    51 36.10  -9.6X
ZOBO   151.04 297 PKP    51 55.00   7.6X
      Z  24s     0.11um          4.6MszX
                  LR     49 20.00
LPB    151.18 296 ePKP   52 06.00  18.6X
CNCB   151.26 296 PKP    51 54.00   6.3X
      S.D. = 1.2  on  55 of  83 obs.
-----------------------------------------
   JUL  02, 1991  23h 38m 07.93± 0.86s
   38.852 N ± 7.0km   32.712 E ± 7.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)

BCK      2.18 231 iPn    38 44.50  -0.3
KHL      2.55 259 ePn    38 49.30  -0.9
KAS      2.64  17 iPc    38 58.10   6.7X
ELL      3.06 227 ePn    38 58.00   0.7
HRT      3.06 311 ePn    38 57.30   0.0
GBZT     3.17 309 ePn    38 58.60  -0.2
KVT      3.39  48 ePn    39 02.00   0.0
ISK      3.57 309 ePn    39 04.00  -0.5
YER      3.90 245 ePn    39 09.00  -0.2
BNT      4.00 294 ePn    39 11.00   0.5
EDC      4.03 293 ePn    39 12.00   1.0
EZN      5.05 283 eP     39 25.30  -0.1
      S.D. = 0.6  on  11 of  12 obs.
-----------------------------------------
   JUL  03, 1991  01h 36m 14.11± 0.58s
   19.397 S ± 6.1km   69.510 W ± 7.5km
   DEPTH = 138.4 ±  8.4 km
   4.3mb (  2 obs.)
 NORTHERN CHILE                      (123)

CNCB     2.96  30 iPd    37 02.50   0.9
LPB      3.15  25 Pd     37 05.00   1.0
        1.1s  1392.41nm
ZOBO     3.38  23 iPd    37 07.20   0.0
ARE      3.48 327 iPc    37 07.50  -0.7
                  iS     37 47.50
CCH      3.77  58 Pc     37 11.80  -0.3
ANT      4.37 191 iPc    37 19.00  -0.7
                  i      38 09.00
SIV      8.73  68 iPc    38 13.90  -4.7X
NNA     10.20 315 eP     38 37.50  -0.7
        0.7s     9.59nm          4.6mb
                  eS     40 29.00
PEL     13.73 184 eP     39 26.00   1.8
ITB1    14.96 113 e(P)   39 39.50  -0.2
ITB     15.16 113 e(P)   39 41.50  -0.8
ITB7    15.29 115 e(P)   39 48.00   4.1X
BAO     20.86  83 ePc    40 46.00  -0.8
VAO     21.32 104 eP     40 50.40  -0.9
                  e      41 04.80
SOB1    29.47  74 eP     42 07.30   0.0
TUL     60.38 336 eP     46 37.70  26.9X
        1.0s    10.80nm
LIC     68.36  75 P      47 03.60   0.6
KIC     68.68  75 P      47 05.20   0.3
LKO     69.21  71 P      47 08.74   0.5
YKA     89.03 341 eP     48 57.90   3.8X
        0.5s     0.90nm          4.1mb
GBA    147.82  95 PKPc   55 46.60   4.8X
        0.7s     3.30nm
      S.D. = 0.9  on  16 of  21 obs.
-----------------------------------------
*  JUL  03, 1991  01h 48m 25.62± 2.78s
   31.066 S ±21.8km   64.770 W ±27.1km
   DEPTH =  33.0km  (normal)
 CORDDBA PROVINCE, ARGENTINA         (141)
      Felt (IV) at Cordoba. Felt
      throughout the Punilla Valley
      from Villa Carlos Paz to Cruz
      del Eje.

RTLL     3.18 264 iPd    49 14.80   0.3
                  S      50 02.00
ZON      3.38 261 eP     49 17.70   0.3
MDZ      3.91 241 iPc    49 37.00  12.1X
                  i      49 40.90
                  iS     50 24.00
PEL      5.43 246 iPd    49 46.00  -0.4
                  iS     50 47.00
SLA      6.35 354 eP     49 59.90   0.4
CCH     13.68 354 eP     51 40.00   0.1
CNCB    14.49 348 P      51 50.00  -0.8
LPB     14.78 347 P      51 58.00   3.5X
ZOBO    15.04 347 P      51 58.00  -0.1
SIV     15.38  14 P      52 02.20   0.3
                  i      56 02.70
ARE     15.78 336 eP     52 13.00   5.7X
      S.D. = 0.5  on   8 of  11 obs.
-----------------------------------------
%  JUL  03, 1991  02h 23m 43.30± 0.88s
   40.592 N ± 6.8km   22.905 E ±10.6km
   DEPTH =  10.0km  (geophysicist)
 GREECE                              (364)
      MD 1.8 (THE).

THE      0.06  48 iPc    23 46.29   0.7
                  eS     23 48.02
KNT      0.57 359 iPd    23 54.54  -0.3
                  eS     24 02.54
LIT      0.58 213 ePc    23 55.26   0.1
                  eS     24 05.38
SRS      0.74  45 ePc    23 57.50  -0.3
                  eS     24 06.30
PAIG     0.89 138 ePc    24 00.14  -0.2
      S.D. = 0.6  on   5 of   5 obs.
-----------------------------------------
?  JUL  03, 1991  02h 25m 45.27± 5.46s
   44.978 N ±27.0km    3.181 E ±38.8km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                              (538)
      ML 1.9 (LDG).

CAF      0.79 267 Pg     26 00.20  -0.5
                  Sg     26 10.00
RJF      1.22 286 Pg     26 08.40   0.4
                  Sg     26 21.60
LPO      1.45 259 Pg     26 11.80   0.3
                  Sg     26 30.40
TCF      1.48 333 Pg     26 11.80  -0.1
                  Sg     26 29.00
      S.D. = 0.7  on   4 of   4 obs.
-----------------------------------------
   JUL  03, 1991  02h 30m 32.25± 0.76s
   40.600 N ± 6.3km   23.040 E ± 7.8km
   DEPTH =  10.0km  (geophysicist)
 GREECE                              (364)
      MD 2.5 (THE).

THE      0.07 299 iPc    30 34.56   0.0
                  eS     30 36.16
KNT      0.57 349 iPc    30 42.82  -1.0
                  eS     30 50.52
GRG      0.60 307 ePd    30 42.96  -1.5
                  eS     30 51.00
LIT      0.65 220 ePc    30 43.82  -1.5
                  eS     30 53.32
SRS      0.67  39 ePc    30 44.52  -1.0
                  eS     30 54.52
VAY      0.80 334 ePn    30 46.50  -1.3
PAIG     0.83 144 ePc    30 47.74  -0.6
                  eS     31 00.52
SKO      1.83 319 ePn    31 05.00   1.1
      S.D. = 1.0  on   8 of   8 obs.
-----------------------------------------
?  JUL  03, 1991  03h 13m 19.36± 2.33s
   37.743 N ±15.7km  142.065 E ±22.3km
   DEPTH =  68.1 ± 18.3 km
   4.2mb (  2 obs.)
 OFF EAST COAST OF HONSHU, JAPAN (229)

OFUJ     1.37 347 iP+    13 41.50  -1.4
                  eS     14 04.50
YAMJ     1.66 286 P      13 47.80   0.9
                  S      14 14.00
AOMJ     3.11 335 eP     14 07.90   0.9
MAT      3.31 250 eP     14 10.00   0.2
                  eS     15 04.00
BJI     20.26 285 eP     17 50.00  -1.6
WB2     57.83 189 iPd    23 05.60  -0.5
        1.0s     2.80nm          4.3mb
NB2     73.73 337 P      24 48.10   0.6
        0.8s     1.70nm          4.0mb
CNCB   146.35  60 PKP    32 54.50   0.8
      S.D. = 1.4  on   8 of   8 obs.
-----------------------------------------
%  JUL  03, 1991  03h 31m 37.56± 0.85s
   40.655 N ± 7.3km   23.064 E ± 7.9km
   DEPTH =  10.0km  (geophysicist)
 GREECE                              (364)
      MD 1.5 (THE).

THE      0.08 253 iPc    31 39.42  -0.6
                  eS     31 41.18
KNT      0.52 346 iPc    31 47.62  -0.5
                  eS     31 55.38
GRG      0.59 301 iPd    31 50.30   0.8
SRS      0.61  41 ePd    31 49.98   0.1
                  eS     31 59.18
PAIG     0.87 147 ePd    31 54.34   0.1
                  eS     32 04.94
      S.D. = 0.8  on   5 of   5 obs.
-----------------------------------------
   JUL  03, 1991  03h 49m 46.46± 0.39s
   15.270 N ± 5.7km  120.521 E ± 8.3km
   DEPTH =  26.0km  (  6 depth phases)
   4.7mb ( 17 obs.)  4.5Msz (  7 obs.)
 LUZON, PHILIPPINE ISLANDS           (249)
      Felt at San Fernando and Manila.

OCP      0.83 139 eP     49 36.00 -26.1X
BAG      1.14   3 iP+    50 04.00  -2.9
PGP      1.81 167 iPc    50 16.00  -0.3
                  iS     50 43.00
PIP      3.04   2 iPc    50 36.00   2.1
                  eS     51 25.00
MAP      5.96 145 eP     51 18.00   2.6
CGP      7.91 148 eP     51 45.50   2.8
        1.0s    23.00nm          5.3mb
DAV      9.52 148 eP     52 08.80   3.8X
GZH     10.31 320 eP     52 15.00  -0.9
      Z  16s     1.80um
      N  10s     1.90um
      E  10s     2.80um
QIZ     10.87 292 eP     52 19.00  -4.5X
      N  13s     1.50um
      E  15s     3.00um
SSE     15.76   2 eP     53 28.00  -0.4
      Z  16s     1.30um
      N  14s     0.70um
      E  14s     2.00um
                  sP     53 40.00
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WHN     16.22 341 P      53 40.50   6.3X
        1.5s   100.00nm          4.7mb
      Z  20s      1.10um
      N  12s      1.00um
      E  12s      1.80um
                  pP     53 46.00
NJ2     16.78 355 eP     53 42.00   0.8
      Z  18s      1.20um
      E  13s      1.00um
GYA     17.06 313 P      53 47.00   2.0
        1.6s    50.00nm          4.4mb
      N  12s      2.30um
      E  12s      1.70um
KMI     19.33 303 Pd     54 15.00   1.8
NNT     20.35 265 eP     54 21.00  -2.8
CHG     20.93 283 eP     54 30.90   1.1
        1.4s    55.23nm          4.8mb
CHTO    20.93 283 eP     54 30.20   0.5
        1.6s    61.02nm          4.8mb
TIA     21.08 352 eP     54 36.20   5.1X
      Z  18s      1.30um          4.4Msz
      N  16s      1.50um
      E  16s      1.40um
SNG     21.10 250 eP     54 31.50   0.0
                  e      58 32.00
XAN     21.42 333 P      54 34.50  -0.2
        1.0s    40.00nm          4.8mb
      N  12s      1.60um
      E  12s      1.50um
KGM     21.48 234 eP     54 27.00  -8.4X
CD2     21.87 318 P      54 40.20   1.0
        1.4s   200.00nm          5.4mb
      Z  15s      1.20um          4.4MszX
      E  11s      2.80um
TIY     23.47 344 iPd    54 55.50   0.5
      Z  18s      1.22um          4.4Msz
      N  13s      0.88um
                  PP     55 30.00
DL2     23.57   2 eP     54 56.00   0.3
      Z  16s      0.60um          4.2MszX
      E  15s      1.60um
BJI     24.97 352 eP     55 10.00   0.7
        1.5s    35.00nm          4.8mb
      Z  18s      0.59um          4.1Msz
      E  12s      0.79um
LZH     25.53 327 P      55 15.50   0.6
        1.5s   120.00nm          5.3mb
      Z  14s      1.65um          4.7MszX
      N  11s      2.04um
      E  11s      1.85um
                  pP     55 22.00  23km
                  sP     55 25.00
MAT     26.41  33 (P)    55 24.00   1.2
                  eS     00 14.00
SNY     26.60   5 eP     55 20.80  -3.6X
      Z  18s      1.30um          4.5Msz
      E  14s      0.80um
HHC     26.65 345 P      55 26.00   0.9
        1.4s    20.00nm          4.6mb
      Z  18s      1.20um          4.5Msz
      N  13s      0.60um
      E  13s      0.80um
BTO     26.84 342 eP     55 25.00  -1.9
      N  15s      0.70um
      E  12s      1.20um
                  PP     56 06.00
                  eS     59 56.50
CN2     28.75   7 eP     55 49.50   5.6X
      Z  15s      2.08um          4.9MszX
      N  13s      0.86um
      E  13s      0.46um
                  ePP    55 55.00  19km
                  eS     00 27.00
GTA     30.13 327 eP     55 56.20  -0.4
        1.4s    20.00nm          4.8mb
      Z  25s      2.20um          4.7MszX
      E  12s      0.80um
                  pP     56 08.60  48kmX
                  sP     56 12.60
                  PP     56 52.00
WB2     37.54 158 iPc    56 56.70  -3.8X
        0.6s    12.30nm          4.9mb
WMQ     39.86 322 P      57 20.50   0.8
        2.0s    20.00nm          4.5mb
      Z  18s      0.90um          4.7Msz
      N  13s      1.54um
                  eS     03 26.00
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QIS     40.24 152 eP     57 21.00  -1.9
HYB     40.27 279 eP     57 24.00   0.6
ASPA    40.85 161 eP     57 27.10  -0.8
        1.7s    10.70nm          4.3mb
KSH     45.71 311 P      58 08.00   0.6
      E  10s      1.60um
                  eS     04 56.00
YAK     47.14   6 eP     58 17.00  -1.2
                  e      58 40.00  96kmX
STK     51.05 157 eP     58 46.80  -1.9
        0.6s     2.10nm          4.2mb
QUE     51.16 297 eP     58 50.50   0.6
BWA     56.09 152 eP     59 26.00   0.0
CAN     57.10 152 eP     59 32.40  -0.8
MAIO    57.86 303 eP     59 38.00  -0.7
                  eS     07 20.00
OBN     74.16 324 eP     01 30.00   7.6X
      Z  20s      0.40um          4.7Msz
                  e      02 02.00 128kmX
FBA     77.02  26 e(P)   01 39.20   0.7
        1.2s     0.90nm          3.7mb X
                  pP     01 47.90  28km
INK     81.70  21 eP     02 02.00  -1.7
MBC     82.06  12 eP     02 05.00  -0.4
KRA     85.07 321 eP     02 22.00   0.8
NB2     85.80 333 P      02 22.70  -2.0
        0.9s     3.50nm          4.6mb
VAY     85.89 312 eP     02 24.40  -1.1
SKO     86.52 312 eP     02 27.50  -1.1
PRU     88.37 322 eP     02 38.30   0.9
                  e      02 46.00  24km
BRG     88.39 323 eP     02 45.40   8.0X
                  e      02 56.60  36km
KHC     89.28 321 P      02 33.00  -8.8X
                  i      02 49.50  58kmX
WTTA    91.21 320 i(P)   02 50.10  -0.9
        1.3s    15.40nm          5.2mb
                  i      02 58.50  26km
      S.D. = 1.4  on  44 of  56 obs.
-----------------------------------
?  JUL  03, 1991  05h 03m 27.48± 5.57s
    1.210 S ±19.6km   79.144 W ±41.6km
    DEPTH =  10.0km  (geophysicist)
 ECUADOR                          (107)

QUIL     0.50  26 P      03 36.80  -0.9
                  S      03 48.50
TUNG     0.73 106 P      03 41.40  -0.6
VC1      0.93  52 P+     03 46.40   0.8
GGP      1.17  28 P+     03 49.30  -0.4
QUR      1.20  31 eP     03 50.00  -0.2
                  S      04 10.00
YANA     1.23  28 P      03 50.30  -0.4
CAYA     1.73  42 P      03 59.40   1.2
COTA     1.73  28 P      03 58.80   0.5
ANGL     1.79  63 eP     03 52.30  -6.8X
      S.D. = 0.9  on   8 of   9 obs.
-----------------------------------
&  JUL  03, 1991  05h 27m 34.40s
    61.568 N          149.794 W
    DEPTH =  34.9km
 SOUTHERN ALASKA                  (  2)
      <AEIC>. ML 3.7 (AEIC), 3.6
      (PMR). Felt (III) at Anchorage
      and Chugiak. Felt (II) at
      Palmer.

PWA      0.09 334 iPd    27 40.80   0.4
PLRM     0.32  85 iPc    27 41.88  -0.6
                  iS     27 48.24
PMR      0.32  85 iPc    27 42.40  -0.1
PMS      0.34 161 iPc    27 42.71  -0.2
GHO      0.46  63 iPd    27 43.71  -0.8
SUA      0.47 257 iPd    27 44.15  -0.5
                  eS     27 52.63
KNK      0.66 103 iPc    27 46.36  -0.9
                  eS     27 56.65
CUT      0.87 345 iPd    27 49.29  -0.9
SKT      0.92 297 iPc    27 50.14  -0.9
                  eS     28 02.88
NKA      1.08 221 ePd    27 54.31   1.0
SLKM     1.08 191 ePc    27 52.03  -1.3
CGLM     1.09 257 iPc    27 53.08  -0.5
NCG      1.15 263 iPc    27 53.88  -0.4
SPU      1.16 251 iPc    27 53.71  -0.7
                  eS     28 09.44
SCM      1.21  76 iPc    27 54.13  -1.0
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                  eS     28 10.14
BGL      1.29 257 ePc    27 55.71  -0.7
                  eS     28 13.77
HUR      1.42   3 iPc    27 57.77  -0.5
GLI      1.48 117 iPc    27 57.44  -1.6
                  eS     28 16.09
SEW      1.48 173 eP     27 57.05  -2.0
KNIM     1.58 140 ePc    27 57.93  -2.6
RDT      1.61 233 iPd    27 59.87  -1.2
VZW      1.64 107 iPc    27 59.96  -1.5
NNL      1.70 206 ePc    28 01.76  -0.4
DFR      1.71 236 ePd    28 01.44  -1.0
VLZ      1.72 103 ePc    28 00.72  -1.8
REF      1.78 234 iPd    28 02.50  -1.0
RDN      1.79 235 ePd    28 02.06  -1.5
TOA      1.80  71 iPc    28 04.10   0.4
LTI      1.80 147 ePc    28 01.10  -2.6
RSO      1.82 234 eP     28 02.83  -1.2
RS2      1.82 234 ePd    28 02.98  -1.1
RDW      1.83 235 eP     28 03.03  -1.2
NCT      1.83 238 ePd    28 03.16  -1.0
KLU      1.86  91 iPc    28 02.84  -1.7
BRLK     1.89 197 eP     28 03.02  -1.9
                  S      28 27.56
RND      1.90  13 eP     28 04.29  -0.8
                  S      28 28.56
MTU      1.90 146 ePc    28 02.68  -2.4
TRF      1.90 353 ePc    28 04.49  -0.8
HIN      1.99 125 ePc    28 04.45  -1.9
KTH      2.06 346 iPc    28 06.64  -0.8
HOM      2.12 206 eP     28 08.34   0.1
                  eS     28 33.52
TZL      2.13  75 eP     28 07.52  -0.8
CNPM     2.17 200 ePd    28 06.94  -2.0
MCK      2.21  10 eP     28 09.37  -0.1
CVA      2.22 116 eP     28 07.32  -2.2
SDG      2.22  62 eP     28 09.43  -0.2
IVS      2.25 227 eP     28 09.08  -1.1
XLV      2.33 205 eP     28 09.56  -1.5
PAX      2.46  53 eP     28 12.92  -0.2
SGAM     2.48 114 eP     28 10.60  -2.6
BWN      2.62   3 ePd    28 14.77  -0.5
MID      2.74 140 eP     28 16.55  -0.5
RAGM     2.76 113 eP     28 15.07  -2.3
PDB      2.81 232 ePd    28 15.86  -2.1
AUE      2.84 220 eP     28 17.42  -0.9
SVW      2.85 263 ePc    28 17.10  -1.4
AUH      2.86 221 eP     28 17.91  -0.8
GLB      2.87  90 eP     28 16.89  -2.0
HMT      2.97 112 eP     28 17.83  -2.4
WRH      3.02  14 eP     28 19.67  -1.2
NEA      3.04   6 eP     28 19.94  -1.3
TTA      3.21 298 iPc    28 22.20  -1.6
CCB      3.22  15 eP     28 21.90  -1.9
CDD      3.27 218 eP     28 22.15  -2.4
CROM     3.33 101 eP     28 24.00  -1.5
RDS      3.36  12 eP     28 24.27  -1.5
FBA      3.47  14 eP     28 25.50  -1.8
TGL      3.47 101 eP     28 27.00  -0.5
MDM      3.48  11 eP     28 25.58  -1.9
GLM      3.60  17 eP     28 26.94  -2.3
TMW      3.62  58 eP     28 29.45   0.1
BALM     3.63  95 eP     28 28.45  -1.3
KDC      4.07 201 ePc    28 33.00  -2.8
CTGM     4.13  95 eP     28 37.00   0.2
IMA      4.83 341 ePd    28 45.50  -1.3
INK      9.63  39 eP     30 06.00  12.4
YKA     16.41  71 eP     31 21.70  -1.6
        0.4s     0.30nm          2.8mb
        77 abs. associated
-----------------------------------
    JUL  03, 1991  06h 08m 53.49± 0.23s
    11.194 N ± 5.6km   85.707 W ± 4.9km
    DEPTH =  27.6km  (  5 depth phases)
    4.8mb ( 29 obs.)  4.5Msz (  4 obs.)
 NICARAGUA                        ( 75)
      Felt in Costa Rica.

LPS      4.57 313 eP     10 02.70   0.0
TPX      7.37 301 (P)    10 51.50   9.4X
PBJ     10.76 300 (P)    11 25.50  -3.5X
PPM     14.72 304 (P)    12 22.00  -0.2
ACX     14.84 294 (P)    12 23.50   0.1
III     15.09 300 (P)    12 26.50  -0.4
TRN     23.87  89 eP     14 08.00   2.3
TUL     26.25 341 iPc    14 27.30  -0.9
        0.8s    50.40nm          5.2mb
```

03d 06h

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     Z  22s      0.58um          4.1Msz
                  e    19 22.00
                  e    23 06.00
                  LR   25 30.00
MEO    26.25 335 iPd   14 27.50  -0.7
BLA    26.34  10 eP    14 26.60  -2.4
       0.9s     5.04nm          4.1mb
                  pP   14 33.70  25km
                  sP   14 47.90
FVM    27.01 352 P     14 35.00  -0.1
       0.7s    17.01nm          4.8mb
CBN    27.91  14 eP    14 48.00   4.7X
ALO    30.26 325 eP    15 03.90  -0.7
       1.0s    14.50nm          4.8mb
                  e    15 12.50  30km
ANMO   30.26 325 iP    15 04.50  -0.1
       0.7s    11.13nm          4.8mb
                  pP   15 13.60  31km
CLE    30.40   6 iP    15 08.50   2.9
ARE    30.87 153 eP    15 11.00   0.7
ZOBO   32.36 147 P     15 23.00  -0.7
     Z  19s      0.69um          4.4Msz
                  LR   28 24.00
LPB    32.59 147 P     15 25.00  -0.5
     Z  16s      0.67um          4.4MszX
                  LR   28 22.00
CNCB   32.88 148 P     15 27.70  -0.5
GLD    33.29 332 P     15 31.50   0.3
PV09   34.31 326 P     15 39.70  -0.4
CCH    34.35 145 P     15 40.50  -0.1
GLA    34.45 314 eP    15 41.00  -0.1
BAR    35.59 312 eP    16 01.00  10.2X
TPC    35.87 314 eP    15 54.00   0.8
PLM    36.06 313 eP    15 56.00   1.0
SIV    36.39 137 iPc   15 57.30  -0.4
                  i    16 01.00  12kmX
RSSD   36.42 338 P     15 57.10  -0.8
       1.2s    16.40nm          4.8mb
PEC    36.55 313 P     15 59.50   0.6
RVR    36.76 313 eP    16 01.00   0.4
GSC    37.04 315 eP    16 04.00   0.9
MWC    37.36 313 eP    16 06.00   0.1
PAS    37.40 313 eP    16 07.00   1.0
SBB    37.43 314 eP    16 07.00   0.7
BW06   37.69 331 iP    16 08.50  -0.1
       1.3s    20.49nm          4.8mb
                  pP   16 14.70  21km
                  sP   16 20.70
CLC    37.86 316 eP    16 10.00   0.1
ISA    38.39 315 eP    16 15.00   0.6
TNP    38.87 319 P     16 18.50   0.0
       0.6s    14.35nm          4.9mb
SYP    38.89 312 eP    16 19.00   0.3
FRI    39.93 316 eP    16 27.40   0.4
                  ePcP 18 33.70
PRI    40.16 314 eP    16 30.00   0.8
                  ePcP 18 34.80
CMB    40.93 317 eP    16 36.10   0.8
                  ePcP 18 36.70
LRM    41.35 332 eP    16 39.20   0.2
MHC    41.44 315 eP    16 40.80   1.2
BKS    42.11 315 eP    16 45.20   0.2
                  i(pP) 16 54.50  31km
                  iPP  18 41.50
BRK    42.12 315 ePd   16 46.70   1.6
                  ePcP 18 40.80
ORV    42.47 318 eP    16 49.40   1.5
                  ePcP 18 42.60
MIN    42.95 319 eP    16 52.20   0.1
SES    44.29 337 eP    17 03.00   0.4
FFC    45.29 347 ePc   17 10.50   0.0
       1.0s    17.00nm          4.9mb
NEW    45.33 331 P     17 09.80  -1.1
       1.0s    11.50nm          4.8mb
BAO    45.88 125 iPc   17 16.70   0.9
SCH    46.01  15 eP    17 17.00   0.8
PNT    47.25 330 eP    17 26.00  -0.1
       0.7s    14.00nm          5.1mb
SOB1   48.96 113 (P)   17 40.00   0.1
VAO    50.93 132 (P)   17 54.00  -0.8
FRB    53.86   9 eP    18 17.00   0.9
YKA    55.27 344 eP    18 23.90  -2.6
       0.9s     8.10nm          4.8mb
INK    64.91 342 eP    19 31.00  -1.3
MBC    67.50 352 eP    19 48.00  -0.7
       0.7s     8.00nm          4.9mb
SLKM   67.88 331 P     19 49.80  -1.6
FBA    68.26 336 P     19 51.60  -2.1
       0.7s     9.30nm          5.0mb
RSO    69.07 331 P     19 58.30  -0.7
SVW    70.59 331 P     20 05.80  -2.3
       0.7s    14.53nm          5.2mb
EKA    76.64  36 Pd    20 42.80  -0.6
       0.7s     3.10nm          4.4mb
LPF    78.22  43 eP    20 52.30   0.1
       0.7s     7.70nm          4.8mb
GRR    78.32  43 eP    20 52.90   0.1
       0.8s    12.10nm          5.0mb
FLN    78.54  42 eP    20 54.20   0.2
       0.6s     5.40nm          4.7mb
     Z  20s      0.38um          4.7Msz
LKO    78.59  82 P     20 54.84  -0.1
       0.7s    15.50nm          5.1mb
LDF    78.79  42 eP    20 55.40   0.0
       0.8s     8.05nm          4.8mb
MFF    78.93  44 eP    20 56.40   0.2
       0.6s     3.60nm          4.6mb
EPF    79.59  48 eP    21 00.40   0.5
LFF    79.69  46 eP    21 00.60   0.3
       0.4s     2.85nm          4.6mb
LIC    79.70  86 P     21 02.00   1.0
LPO    80.03  46 eP    21 02.40   0.2
       0.2s     1.15nm          4.5mb
RJF    80.20  46 eP    21 03.10   0.0
TCF    80.58  45 eP    21 04.90  -0.2
       0.7s     2.20nm          4.3mb
MAF    80.83  45 eP    21 06.20  -0.2
       0.6s     2.25nm          4.4mb
BGF    80.99  44 eP    21 07.20   0.0
       0.4s     2.85nm          4.6mb
ADK    81.90 321 P     21 11.20  -0.6
       0.8s   104.83nm          5.9mb X
HAU    83.15  43 eP    21 18.80   0.4
     Z  20s      0.43um          4.8Msz
BSF    83.47  43 eP    21 19.60  -0.6
       0.4s     1.70nm          4.6mb
NB2    83.63  29 P     21 20.30  -0.3
       0.8s     1.10nm          4.1mb
CDF    83.70  42 eP    21 20.90  -0.4
KRI   117.22 103 iPKPd 27 39.30   0.3
MTD   119.10 103 iPKPd 27 42.60   0.1
BJI   125.13 340 ePKP  27 52.50  -0.8
HHC   125.81 344 PKPd  27 55.80   1.0
TIY   128.46 342 PKPd  27 59.40  -0.5
GTA   129.40 354 PKP   28 02.00   0.3
STK   131.87 237 ePKP  28 04.40  -2.1
       0.8s     1.80nm
XAN   132.92 343 PKP   28 08.50   0.1
CD2   137.16 348 PKP   28 16.80   0.2
ASPA  140.36 246 ePKP  28 19.60  -3.0X
       0.8s     8.10nm
WB2   140.53 252 ePKP  28 12.10 -10.9X
       0.7s     3.40nm
                  i    28 21.80
                  i    28 31.80
                  e    34 53.50
GYA   140.69 342 PKP   28 22.60  -0.7
CGP   144.00 302 iPKPd 28 29.50   0.3
       0.8s    17.00nm
OIZ   146.28 333 PKP   28 34.20   1.3
CHG   149.83 351 ePKP  28 38.80   0.3
GBA   150.22  35 PKPd  28 38.30  -0.8
       0.8s    10.80nm
LOE   150.65 345 ePKP  28 38.90  -0.8
KOD   152.93  39 ePKP  28 44.60   1.1
     S.D. = 0.9  on  96 of 102 obs.
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&  JUL  03, 1991  06h 51m 59.82s
   62.121 N          151.576 W
   DEPTH =  93.7km
 CENTRAL ALASKA                    (  1)
      <AEIC>. Felt (III) ot Skwentna.

SKT     0.14 171 iPd   52 12.54   0.9
                  eS   52 22.59
CUT     0.67  64 iPc   52 15.98  -0.6
SUA     0.77 149 iPc   52 17.45  -0.3
                  eS   52 31.43
NCG     0.77 201 ePd   52 16.88  -0.9
                  eS   52 30.59
CGLM    0.84 194 ePd   52 17.47  -1.0
PWA     0.93 120 iPc   52 19.30   0.0
BGL     0.94 205 ePd   52 18.98  -0.6
SPU     0.97 194 iPc   52 18.78  -1.0
CKL     1.00 202 iPd   52 19.46  -0.7
                  eS   52 34.83
HUR     1.24  45 ePc   52 22.00  -1.0
                  eS   52 38.94
PLRM    1.28 114 eP    52 22.06  -1.2
                  S    52 40.55
PMR     1.27 114 iPc   52 22.50  -0.8
GHO     1.30 104 iPc   52 22.97  -0.8
PMS     1.30 132 ePc   52 22.89  -0.8
NKA     1.39 173 eP    52 25.78   1.0
TRF     1.46  23 iPd   52 24.82  -1.0
                  eS   52 44.03
KTH     1.47  12 ePd   52 24.53  -1.3
                  eS   52 42.96
RDT     1.60 195 ePc   52 26.70  -0.8
                  S    52 47.76
DFR     1.63 200 ePc   52 27.29  -0.6
KNK     1.65 114 iPc   52 26.82  -1.2
                  eS   52 48.26
NCT     1.70 203 ePc   52 28.22  -0.5
RDN     1.71 200 eP    52 28.25  -0.8
REF     1.73 199 eP    52 28.55  -0.7
SLKM    1.75 157 eP    52 28.83  -0.5
RDW     1.75 200 eP    52 29.09  -0.5
RS2     1.76 199 eP    52 29.27  -0.4
RSO     1.76 199 eP    52 29.37  -0.3
RND     1.80  43 eP    52 29.21  -0.9
SCM     2.03  96 ePc   52 31.57  -1.5
NNL     2.09 176 eP    52 35.02   1.1
SVW     2.18 244 iPd   52 34.10  -1.1
TTA     2.21 294 ePd   52 33.80  -1.8
IVS     2.24 200 eP    52 35.45  -0.7
SEW     2.27 152 eP    52 35.32  -1.0
BRLK    2.39 172 eP    52 37.35  -0.6
GLI     2.48 118 iPc   52 36.64  -2.5
TOA     2.54  88 eP    52 39.10  -0.9
KNIM    2.57 132 iPc   52 37.05  -3.3
CNPM    2.61 176 eP    52 40.03  -0.9
VZW     2.63 112 eP    52 39.09  -2.1
PDB     2.67 210 ePd   52 40.88  -0.8
VLZ     2.69 109 ePc   52 39.56  -2.4
KLU     2.76 101 ePc   52 40.86  -2.1
LTI     2.76 137 eP    52 39.85  -3.1
SDG     2.85  79 eP    52 43.14  -1.0
MTU     2.87 137 eP    52 41.40  -3.0
PAX     2.96  71 eP    52 44.84  -0.9
FBA     3.26  30 eP    52 47.00  -2.8
GLB     3.75  97 ePc   52 54.33  -2.3
IMA     4.07 348 eP    52 59.40  -1.7
        50 obs. associated
-----------------------------------
   JUL  03, 1991  07h 47m 40.03± 0.39s
    1.130 N ±10.5km   30.238 W ± 7.6km
   DEPTH =  10.0km  (geophysicist)
   4.7mb (  9 obs.)  4.2Msz (  4 obs.)
 CENTRAL MID-ATLANTIC RIDGE        (406)

LIC    25.65  78 P     53 11.60  -0.2
     Z  20s      0.52um          4.1Msz
KIC    25.96  78 P     53 15.20   0.5
SIV    34.88 240 P     54 34.30   0.3
CCH    39.87 241 (P)   55 34.30  18.0X
ZOBO   41.20 244 P     55 27.00  -0.5
     Z  20s      0.50um          4.4Msz
                  LR   07 48.00
CNCB   41.27 243 P     55 28.00  -0.1
LPB    41.27 243 P     55 28.00   0.1
     Z  18s      1.37um          4.9Msz
                  eLR  08 00.00
EPF    49.87  29 eP    56 37.00   1.4
       1.7s    36.75nm          5.1mb
LFF    51.49  28 eP    56 48.10   0.2
       1.2s    17.85nm          4.9mb
LPO    51.51  28 eP    56 48.20   0.2
CAF    52.11  29 eP    56 52.70   0.1
       1.2s    11.90nm          4.7mb
LSF    52.84  27 eP    56 57.20  -0.9
       1.0s     6.00nm          4.5mb
MAF    53.30  28 eP    57 01.60   0.2
       1.3s     9.05nm          4.6mb
LBF    54.53  28 eP    57 10.30  -0.1
       1.0s     8.00nm          4.7mb
LOR    54.68  28 eP    57 10.90  -0.6
     Z  20s      0.10um          3.9Msz
TRI    58.81  35 eP    57 41.00   0.1
KHC    60.75  31 iP    57 54.10  -0.2
       1.4s     8.00nm          4.7mb
```

```
                    e      58 10.00
SKO     61.62   42 eP     57 59.50  -0.8
VAY     62.09   43 eP     58 03.80   0.3
ZST     62.10   34 eP     58 03.40   0.0
                    e      18 24.70
SRO     62.58   35 eP     58 06.00  -0.5
KRA     64.68   33 eP     58 20.30   0.0
ALO     78.06  305 eP     59 40.50  -0.7
ANMO    78.06  305 eP     59 42.10   0.9
        1.9s     10.53nm          4.6mb
FFC     78.60  326 eP     59 43.00  -0.5
        1.6s     30.00nm          5.1mb
SES     83.26  320 eP     00 09.00   0.7
     S.D. = 0.6  on  25 of  26 obs.
-----------------------------------------
&  JUL  03, 1991  07h 53m 06.31s
   65.704 N            148.890 W
   DEPTH =  31.6km
 ALASKA                                (676)
      <AEIC>. ML 3.0 (AEIC).

MDM      0.80  159 iP     53 20.53  -0.7
FBA      0.93  150 iPd    53 23.50   0.4
RDS      0.94  160 iP     53 23.23   0.0
                   iS     53 34.85
GLM      0.96  138 iP     53 23.22  -0.4
                   eS     53 35.94
NEA      1.13  184 eP     53 26.00  -0.1
                   eS     53 40.97
CCB      1.16  156 eP     53 26.19  -0.1
                   S      53 41.19
WRH      1.28  164 eP     53 28.04  -0.1
                   S      53 45.49
BWN      1.56  189 eP     53 32.97   0.8
FYU      1.72   58 eP     53 33.74  -0.7
                   S      53 57.80
MCK      1.98  181 eP     53 38.50   0.2
IMA      2.00  283 ePc    53 38.60  -0.1
RND      2.31  180 eP     53 43.17   0.2
KTH      2.33  203 eP     53 42.77  -0.5
TRF      2.34  196 eP     53 43.21  -0.3
PAX      3.12  150 eP     53 54.20  -0.3
CUT      3.37  191 eP     53 58.14   0.2
TMW      3.49  130 eP     53 58.94  -0.8
SDG      3.51  154 eP     53 59.47  -0.6
TOA      3.81  160 ePc    54 06.00   1.8
SKT      3.92  199 eP     54 05.04  -0.7
GHO      3.95  180 eP     54 05.65  -0.6
PLRM     4.13  182 eP     54 07.65  -1.1
PMR      4.13  182 eP     54 09.20   0.5
TTA      4.17  231 eP     54 07.60  -1.7
KNK      4.31  177 eP     54 11.94   0.6
KLU      4.43  161 eP     54 12.85  -0.3
INK      6.56   60 P      54 41.00  -2.0
        0.4s     1.50nm          4.2mb
        27 obs. associated
-----------------------------------------
*  JUL  03, 1991  08h 16m 38.00± 3.04s
   51.296 N ±23.9km   15.926 E ±17.1km
   DEPTH =  10.0km  (geophysicist)
 POLAND                                (548)

KSP      0.51  153 iPd    16 48.20  -0.1
        0.4s     85.00nm
                   iS     16 56.90
                   iLR    17 01.70
BRG      1.32  252 iPg    17 02.20  -0.2
                   iSg    17 20.90
PRU      1.58  214 Pn     17 06.40   0.3
                   Pg     17 08.00
                   e      17 10.30
                   Sn     17 25.00
                   Sg     17 28.70
CLL      1.83  272 iPg    17 10.30   0.5
                   iSg    17 35.70
KHC      2.64  216 Pn     17 21.50   0.1
                   Pg     17 27.00
                   eSn    17 56.00
                   eSg    18 08.50
MOX      2.80  258 ePn    17 23.00  -0.7
                   iPg    17 30.00
                   iSg    18 09.00
     S.D. = 0.5  on   6 of   6 obs.
-----------------------------------------
   JUL  03, 1991  08h 47m 10.30± 0.53s
   47.488 N ± 8.8km    5.444 E ± 6.4km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                                (538)
      ML 3.4 (STR).

VITF     0.82   26 Pg     47 27.82   1.7
                   Sg     47 39.04
LOMF     0.95   98 Pg     47 30.01   1.6
                   Sg     47 41.76
BSF      0.97   69 Pg     47 29.76   0.9
MOF      1.20   72 Pn     47 32.72   0.0
ECH      1.36   57 Pn     47 34.64  -0.7
BBS      1.40   90 Pn     47 35.91   0.0
CDF      1.54   52 Pn     47 36.91  -1.0
GRC      1.62  264 Pn     47 39.68   0.7
                   Sg     48 06.36
FEL      1.78   76 Pn     47 40.41  -1.0
                   Sg     48 09.67
PLDF     1.97  220 Pn     47 44.24   0.1
GWF      2.08   44 Pn     47 44.17  -1.6
AGO      2.14  229 Pn     47 46.48  -0.1
                   Sg     48 24.49
PYM      2.42  225 Pn     47 50.41  -0.1
LBL      2.72  215 Pn     47 54.46  -0.5
     S.D. = 1.0  on  14 of  14 obs.
-----------------------------------------
   JUL  03, 1991  08h 59m 33.38± 1.24s
   12.823 N ± 9.1km   90.689 W ± 8.0km
   DEPTH =  38.3 ± 10.6 km
   4.8mb (  7 obs.)  3.6Msz (  2 obs.)
 OFF COAST OF CENTRAL AMERICA     ( 76)

LPS      2.08   45 iPc    00 08.40   1.7
TPX      2.57  324 (P)    00 11.50  -2.1
SCX      4.32  334 (P)    00 40.50   2.1
PBJ      5.81  309 eP     00 53.50  -5.9X
                   iS     01 52.50
PPM      9.84  310 (P)    01 56.00   0.0
III     10.10  304 (P)    01 58.00  -1.3
MRX     12.18  306 (P)    02 28.50   1.2
BOG     18.33  115 eP     03 52.00   5.1X
                   eS     07 28.00
MEO     23.01  343 iPd    04 33.30  -2.6
TUL     23.44  350 eP     04 37.70  -2.4
        0.8s     35.20nm          4.9mb
     Z  18s      0.14um          3.5Msz
                   eS     08 39.00
                   LR     11 08.00
ALQ     26.25  330 eP     05 07.00  -0.1
        1.0s     4.75nm          4.0mb
CBN     27.92   23 eP     05 22.00   0.0
GLA     29.86  316 eP     05 40.00   0.4
TPC     31.31  317 eP     05 52.00  -0.4
PLM     31.42  315 eP     05 55.00   1.4
GSC     32.52  318 eP     06 03.00   0.0
                   e      08 49.00
MWC     32.73  315 eP     06 05.00   0.0
SBB     32.84  316 eP     06 06.00   0.2
CLC     33.34  318 eP     06 10.00  -0.1
ISA     33.83  317 eP     06 15.00   0.6
                   e      08 53.00
FRI     35.41  318 eP     06 27.90   0.1
PRI     35.57  316 eP     06 30.80   1.5
CMB     36.45  319 eP     06 37.30   0.6
ZOBO    36.51  142 P      06 37.10  -0.9
     Z  20s      0.15um          3.8Msz
                   LR     17 40.00
LPB     36.73  142 P      06 39.00  -0.6
CNCB    37.02  142 P      06 42.00  -0.2
LRM     37.71  335 eP     06 47.60   0.2
CCH     38.58  140 P      06 54.50  -0.5
SIV     40.96  134 P      07 13.40  -1.0
                   i      07 24.00
SES     41.00  340 eP     07 15.00   0.7
FFC     42.74  350 iPc    07 27.90  -0.6
        0.7s     12.00nm          4.7mb
PNT     43.50  333 eP     07 35.00   0.2
SCH     45.90   19 eP     07 52.00  -1.9
BAO     50.83  123 ePd    08 39.50   6.7X
SOB1    54.09  111 (P)    08 43.00 -14.0X
INK     61.92  343 eP     09 50.00  -1.3
MBC     65.23  353 eP     10 12.00  -0.8
        1.5s     19.00nm          4.9mb
EKA     78.17   36 Pd     11 28.70  -1.6
        0.7s     3.30nm          4.5mb
LKO     83.19   82 P      11 58.80   1.1
        1.0s     31.50nm         5.4mb
NB2     84.56   29 P      12 04.20   0.4
        1.0s     10.20nm         4.9mb
KIC     84.68   85 P      12 07.00   1.8
MOX     87.84   38 e(P)   12 21.00   0.9
CLL     88.47   38 eP     12 23.00   0.0
KHC     89.52   40 eP     12 28.50   0.3
CHG    147.16  343 ePKP   19 13.90   1.2
        1.1s     12.66nm
CHTO   147.16  343 ePKP   19 14.10   1.4
        1.1s      8.83nm
GBA    151.23   25 PKPc   19 25.40   6.4X
        1.2s     17.10nm
     S.D. = 1.2  on  42 of  47 obs.
-----------------------------------------
&  JUL  03, 1991  09h 14m 04.80s
   37.628 N            118.942 W
   DEPTH =   6.0km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      <BRK>. ML 3.7 (BRK). Felt (IV)
      at Mammoth Lakes, California.

BONR     0.60   57 iPc    14 15.80  -1.1
FRI      0.88  224 iPc    14 20.80  -1.3
                   iS     14 33.40
CMB      1.21  290 iP     14 26.70  -1.1
TNP      1.44   71 iPc    14 31.00  -0.6
KVN      1.57   25 iPd    14 33.30  -0.1
PKEM     1.82  211 iPc    14 37.90   1.0
LLA      1.89  238 iPc    14 38.30   0.4
ARN      2.08  263 eP     14 40.80   0.1
PHAM     2.14  214 eP     14 41.40  -0.1
MHC      2.17  263 ePc    14 42.80   0.8
PRS      2.34  237 eP     14 46.70   2.3
BCH      2.61  201 iPc    14 48.10  -0.2
BKS      2.62  276 iPd    14 48.60   0.2
                   iS     15 20.75
BRK      2.64  276 ePd    14 48.70   0.0
PCC      2.74  268 iPd    14 50.50   0.5
ORV      2.78  315 eP     14 50.50  -0.2
ABL      2.78  185 eP     14 50.50  -0.4
NWRM     3.22  286 eP     14 59.00   2.1
PEC      4.00  158 eP     15 07.00  -1.0
LBFM     4.36  329 eP     15 13.50   0.2
MSU      5.41   79 eP     15 27.00  -1.3
DUG      5.42   60 e(P)   15 29.00   0.7
GLA      5.67  142 e(P)   15 35.00   3.3
DAU      6.60   63 e(P)   15 48.00   2.9
BW06     8.83   51 eP     16 17.50   1.3
GOL     10.81   75 e(P)   16 48.50   5.0
FFC     20.65   29 eP     18 46.00  -1.6
        0.8s     7.00nm          4.1mb
        27 obs. associated
-----------------------------------------
&  JUL  03, 1991  09h 15m 54.40s
   37.630 N            118.935 W
   DEPTH =   8.0km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      <BRK>. ML 3.4 (BRK).

BONR     0.60   57 eP     16 05.00  -1.5
FRI      0.89  224 iPc    16 10.50  -1.1
                   iS     16 23.30
CMB      1.22  290 iPc    16 17.20  -0.1
                   iS     16 29.80
TNP      1.43   71 eP     16 20.40  -0.5
KVN      1.56   25 eP     16 22.50  -0.2
PKEM     1.83  211 eP     16 27.30   1.0
LLA      1.90  238 iPc    16 27.90   0.5
ARN      2.09  263 eP     16 30.50   0.4
PHAM     2.14  214 eP     16 30.50  -0.4
MHC      2.17  263 iPd    16 33.00   1.5
                   eS     17 00.85
SAO      2.18  247 iP     16 32.30   0.8
PRS      2.34  237 eP     16 34.00   0.2
GCC      2.51  257 eP     16 36.30   0.1
BCH      2.61  201 eP     16 40.50   2.8
BKS      2.63  276 eP     16 38.40   0.6
                   e(S)   17 13.40
BRK      2.65  276 eP     16 38.50   0.4
ABL      2.78  185 P      16 40.50   0.2
        17 obs. associated
-----------------------------------------
   JUL  03, 1991  09h 20m 05.04± 1.20s
   44.010 N ± 4.9km  128.907 W ±10.2km
   DEPTH =  10.0km  (geophysicist)
   3.8mb (  5 obs.)
 OFF COAST OF OREGON                   ( 30)

HSO      4.24   95 P      21 10.80  -0.4
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03d 09h

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NLO      4.39  60 P      21 13.26  -0.1
BMW      4.71  56 P      21 17.38  -0.5
HBO      4.76  90 P      21 18.67   0.0
                  S      22 15.97
PGO      4.82  70 P      21 19.46   0.0
OBH      4.85  45 P      21 20.41   0.7
RVW      4.86  62 P      21 19.58  -0.4
GT2      4.88  74 P      21 19.56  -0.7
CPW      5.02  52 P      21 21.79  -0.5
LVP      5.04  64 P      21 22.61   0.0
VLMM     5.12  70 P      21 23.11  -0.6
                  S      22 23.28
CZM      5.13  60 P      21 23.52  -0.3
FL2      5.13  62 P      21 24.13   0.3
MTMW     5.16  65 P      21 23.29  -0.9
ERK      5.18  61 P      21 24.02  -0.5
SHW      5.20  63 P      21 25.31   0.4
STD      5.23  62 P      21 25.22   0.0
REMW     5.24  63 P      21 26.47   1.0
JLK      5.24  64 P      21 25.36   0.0
OSD      5.26  42 P      21 26.91   1.1
TDL      5.28  61 P      21 25.32  -0.7
SOSW     5.28  63 P      21 26.84   0.8
CDFW     5.30  64 P      21 25.64  -0.5
VBEM     5.34  76 P      21 26.67  -0.2
KOSW     5.34  60 P      21 26.93   0.2
VLL      5.35  72 P      21 26.62  -0.4
                  S      22 29.10
LMW      5.37  58 P      21 27.41   0.2
APM      5.42  69 P      21 27.65  -0.3
MEW      5.43  52 P      21 28.89   0.9
VFP      5.47  74 P      21 28.26  -0.4
GULW     5.53  67 P      21 29.37  -0.1
                  S      22 34.36
GMW      5.55  48 eP     21 29.00  -0.7
ASR      5.60  65 P      21 29.93  -0.6
RVC      5.69  57 P      21 32.53   0.8
                  S      22 39.06
LON      5.70  59 P      21 31.88   0.0
GLK      5.75  61 P      21 33.28   0.7
LBFM     5.82 115 eP      21 40.00   6.4X
WPW      5.84  60 P      21 33.70  -0.2
FMW      5.87  58 P      21 34.36   0.1
GSM      5.92  55 P      21 35.24   0.2
VIPM     5.97  82 P      21 35.73  -0.1
VGB      5.98  73 P      21 35.01  -0.8
RMW      6.05  53 P      21 37.22   0.5
GL2      6.06  68 P      21 38.88   2.0
VTHM     6.07  76 P      21 36.93  -0.2
MCW      6.28  40 P      21 40.31   0.3
NAC      6.31  62 P      21 41.99   1.5
JCW      6.41  47 P      21 42.09   0.3
JBO      6.62  74 P      21 43.59  -1.2
TBM      6.63  59 P      21 45.62   0.6
ORV      7.10 126 eP      21 52.30   0.8
PNT      8.30  47 eP      22 09.00   0.7
       0.6s      8.00nm            5.2mb X
CMB      8.78 130 eP      22 16.00   1.1
NEW      9.22  58 eP      22 19.50  -1.6
MSU     13.73 108 eP      23 24.00   1.8
RSSD    17.86  81 eP      24 15.00  -0.3
       1.0s      6.78nm            3.7mb
ANMO    19.50 110 eP      24 35.50   0.1
ALQ     19.51 110 eP      24 33.00  -2.5
YKA     20.31  19 eP      24 42.90  -0.6
       0.9s      2.20nm            3.5mb
YKA     20.31  19 eP      24 43.10  -0.4
       0.9s      2.10nm            3.5mb
FFC     20.42  49 eP      24 44.00  -0.8
       0.5s      5.00nm            4.1mb
FFC     20.42  49 eP      24 49.00   4.2X
       0.7s     16.00nm            4.5mb
     S.D. = 0.8  on  60 of  62 obs.
-----------------------------------------
*  JUL  03, 1991  09h 46m 52.57± 0.83s
   41.515 N ±12.8km   14.629 E ± 9.8km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN ITALY                     (390)

DUI      0.19 319 P      46 56.80  -0.1
                  eSg    46 58.50
SDI      0.64 288 P      47 04.00  -1.4
                  eSg    47 10.50
SGO      1.08 151 P      47 16.30   3.4X
                  eSn    47 33.90
AQU      1.24 313 P      47 16.60   0.9
MGR      1.54 153 P      47 22.90   2.7X
MNS      1.69 302 P      47 22.50   0.1
                  eSn    47 42.40
ASS      2.13 317 P      47 27.50  -1.2
TDS      2.27 144 P      47 31.50   0.9
ARV      2.34 328 P      47 33.00   1.3
SFI      3.16 321 P      47 43.20   0.0
PGD      3.19 319 P      47 44.50   0.7
TRI      4.24 352 eP     48 39.70  41.1X
SKO      5.12  83 ePn    48 10.00  -1.1
     S.D. = 1.1  on  10 of  13 obs.
-----------------------------------------
?  JUL  03, 1991  10h 16m 26.55± 1.63s
   19.176 N ±12.2km   67.836 W ±24.1km
   DEPTH =  74.1 ± 19.5 km
   3.9mb (  2 obs.)
 MONA PASSAGE                       ( 89)

LRS      1.29 133 P      16 48.90  -0.3
MGP      1.36 149 P      16 49.50  -0.7
PORP     1.59 134 P      16 55.00   1.7
SJG      1.92 123 iP     16 57.20  -0.6
LPR      2.05 115 P      16 59.00  -0.7
CPD      2.14 122 P      17 00.50  -0.4
TRN     10.51 143 eP     18 58.50   1.9
TUL     29.72 310 e(P)   22 01.70 -26.2X
       0.6s      4.80nm
     Z  18s      0.05um            3.2Msz
                  LR     32 02.00
ZOBO    35.22 180 P      23 15.00  -1.5
                  i      24 50.50
LPB     35.48 180 P      23 28.00   9.5X
SIV     35.57 169 eP     23 17.00  -1.8
CNCB    35.76 180 P      23 23.00   2.0
CCH     36.37 177 (P)    23 20.00  -5.8X
ANMO    37.55 303 eP     23 35.50  -0.1
       1.0s      1.50nm            3.9mb
SES     46.23 323 eP     24 46.00   0.1
YKA     53.86 335 eP     25 44.20   0.3
       0.8s      1.00nm            3.9mb
MBC     62.76 348 eP     26 46.00   0.2
INK     63.40 338 eP     26 50.00  -0.1
     S.D. = 1.3  on  15 of  18 obs.
-----------------------------------------
?  JUL  03, 1991  10h 33m 33.87± 1.29s
   39.152 N ± 7.5km   27.620 E ±16.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)
     MD 2.7 (ISK).

IZM      0.80 200 ePg    33 49.50   0.0
                  iSg    34 01.50
EZN      1.21 304 ePn    33 56.30   0.0
BNT      1.22  11 ePn    33 56.60   0.0
KGT      1.32 349 iPn    33 58.30   0.1
     S.D. = 0.1  on   4 of   4 obs.
-----------------------------------------
   JUL  03, 1991  11h 01m 01.10± 0.97s
   39.347 N ± 9.6km   21.534 E ± 6.8km
   DEPTH =  10.0km  (geophysicist)
 GREECE                             (364)
     MD 3.0 (ATH).

AGG      0.70 117 ePd    01 14.94   0.0
                  eS     01 27.30
IGT      0.95 282 ePc    01 18.06  -1.1
KZN      0.98  11 ePb    01 19.00  -0.7
                  eSb    01 34.00
LIT      1.05  44 ePd    01 21.14   0.2
                  eS     01 37.30
KEK      1.39 286 ePb    01 27.50   1.0
FNA      1.44 355 ePc    01 28.50   1.2
GRG      1.74  22 iPd    01 30.94  -0.6
KNT      2.09  30 ePc    01 40.74   4.1X
VAY      2.13  22 eP     01 41.50   4.4X
     S.D. = 1.1  on   7 of   9 obs.
-----------------------------------------
&  JUL  03, 1991  11h 58m 25.95s
   37.632 N          118.939 W
   DEPTH =   8.3km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
     <GM-P>. MD 2.9 (GM).

FRI      0.89 224 iPc    58 42.80  -0.3
                  iS     58 54.30
CMB      1.21 290 ePc    58 48.70   0.0
                  eS     59 04.20
LLA      1.90 238 eP     59 00.30   1.4
PRI      2.03 223 iPd    59 02.80   1.9
MHC      2.17 263 eP     59 04.70   1.8
SAO      2.18 247 eP     59 04.50   1.5
PRS      2.34 237 ePd    59 07.00   1.7
BKS      2.62 276 iPd    59 10.80   1.5
         8 obs. associated
-----------------------------------------
*  JUL  03, 1991  13h 00m 32.19± 2.00s
   39.002 N ±20.2km  142.891 E ±37.5km
   DEPTH =  33.0km  (normal)
 NEAR EAST COAST OF HONSHU, JAPAN(228)

HOOJ     3.39   5 P      01 24.90   0.9
                  eS     02 00.30
KAKJ     3.53 219 P      01 25.40  -0.6
                  S      02 05.10
CHJJ     4.28 228 P      01 36.90   0.3
KUSJ     4.32  18 P      01 36.90  -0.3
                  eS     02 22.50
MAT      4.45 238 eP     01 39.00  -0.1
ASAJ     5.12 358 P      01 47.40  -1.1
     S.D. = 0.9  on   6 of   6 obs.
-----------------------------------------
?  JUL  03, 1991  13h 21m 30.57± 4.47s
    5.027 S ±45.9km  145.512 E ±15.6km
   DEPTH =  33.0km  (normal)
   3.8mb (  1 obs.)
 EAST PAPUA NEW GUINEA REGION       (207)

MDG      0.35 130 iPd    21 38.80  -0.1
YYYY     1.29 159 iPd    21 53.90   1.4
MNDI     2.16 239 eP     22 10.00   4.9X
LAT      2.19 138 eP     22 07.50   2.1X
                  eS     22 43.10
PMG      4.65 160 eP     22 39.00  -1.3
WB2     18.38 215 eP     25 44.30  -0.4
ASPA    21.65 210 eP     26 20.80   0.5
       1.7s      6.60nm            3.8mb
     S.D. = 1.4  on   5 of   7 obs.
-----------------------------------------
%  JUL  03, 1991  13h 41m 08.86± 0.90s
   39.200 N ± 6.5km   27.278 E ±11.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)
     MD 3.1 (ISK).

IZM      0.80 181 ePg    41 24.50   0.1
                  iSg    41 35.00
EZN      0.97 311 ePn    41 27.00  -0.2
EDC      1.23  21 ePn    41 31.50  -0.2
KGT      1.25   1 iPn    41 32.70   0.6
BNT      1.26  23 ePn    41 32.00  -0.2
     S.D. = 0.5  on   5 of   5 obs.
-----------------------------------------
?  JUL  03, 1991  14h 24m 50.47± 6.81s
   39.653 N ±55.3km   28.784 E ±14.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)
     MD 3.0 (ISK).

BNT      0.97 317 ePn    25 08.10  -0.8
EDC      0.99 315 ePn    25 09.00  -0.2
YLV      1.02  26 iPn    25 09.90   0.1
HRT      1.35  30 ePn    25 14.70  -0.6
KGT      1.39 306 iPn    25 16.20   0.3
CTT      1.52 350 iPn    25 18.70   1.0
     S.D. = 0.9  on   6 of   6 obs.
-----------------------------------------
   JUL  03, 1991  15h 33m 15.19± 0.48s
   41.896 N ± 4.9km   23.369 E ± 3.7km
   DEPTH =   5.0km  (geophysicist)
 GREECE-BULGARIA BORDER REGION      (363)
     ML 2.5 (SKO). MD 2.9 (THE).

KKB      0.22 262 iPc    33 19.00  -0.6
MMB      0.41 139 iPc    33 25.00   1.6
                  iSg    33 31.00
VTS      0.71 350 iPg    33 27.00  -2.3X
                  iSg    33 38.00
SRS      0.80 168 iPc    33 30.86  -0.3
                  eS     33 42.26
KNT      0.81 206 ePd    33 30.78  -0.7
                  eS     33 41.34
VAY      0.83 226 iPg    33 31.20  -0.5
                  iSg    33 42.60
PLD      1.02  7B iPc    33 34.00  -0.9
                  eS     33 49.00
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RZN      1.03 101 iPc    33 35.00  -0.2
                  eS     33 48.00
SOH      1.07 181 ePd    33 35.78  -0.1
                  eS     33 50.86
GRG      1.19 218 iPc    33 37.42  -0.4
                  eS     33 53.66
THE      1.30 194 ePd    33 39.94   0.3
                  iS     33 57.14
SKO      1.44 274 ePn    33 41.70  -0.3
KDZ      1.55  98 iPd    33 43.00  -0.5
                  iS     34 02.00
DIM      1.62  84 ePg    33 46.00   1.5
                  eSg    34 08.00
FNA      1.87 234 ePc    33 49.54   1.4
LIT      1.91 201 ePd    33 49.98   1.2
                  eS     34 14.34
PVL      1.96  47 iPd    33 49.00  -0.4
                  iSg    34 14.00
PAIG     1.98 173 ePc    33 49.38  -0.3
                  eS     34 14.18
ALN      2.25 115 ePd    33 56.74   3.2X
                  iS     34 28.06
EZN      3.05 132 ePn    34 05.00   0.1
DMK      3.28  90 ePn    34 08.00  -0.3
KGT      3.30 115 ePn    34 06.70  -1.9
CMP      3.58  19 ePd    34 41.00  28.4X
MLR      4.05  27 ePd    34 20.50   1.2
     S.D. = 1.0  on  21 of  24 obs.
-----------------------------------
?  JUL  03, 1991  15h 52m 05.05± 1.35s
   7.001 S ±26.2km  125.979 E ±21.4km
   DEPTH = 509.1 ± 29.5 km
   4.4mb (  2 obs.)
 BANDA SEA                        (280)

AAI      3.96  34 eP     53 24.50   0.0
MTN      7.71 139 iPd    53 59.80   0.0
WB2     15.22 149 iPc    55 16.50  -1.0
                  eS     57 56.10
ASPA    18.23 156 eP     55 48.50   1.3
      0.4s     10.50nm          4.8mb
NANU    18.46 212 eP     55 49.20  -0.1
OIS     18.86 137 iPc    55 53.50   0.2
STK     28.72 152 iPd    57 21.80  -0.4
      0.6s      3.10nm          4.0mb
     S.D. = 1.0  on   7 of   7 obs.
-----------------------------------
%  JUL  03, 1991  16h 05m 39.51± 1.15s
   43.032 N ± 7.9km   18.680 E ± 6.9km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                       (383)
     ML 1.9 (TTG).

BRY      0.17 217 iPgd   05 43.33   0.0
                  iSg    05 45.60
NKY      0.32 133 iPgd   05 46.35   0.1
                  iSg    05 51.80
HCY      0.60 193 iPgc   05 51.63   0.0
                  iSg    06 00.30
PLE      0.60  60 iPgd   05 51.78   0.0
                  iSg    06 01.27
TTG      0.74 144 iPgd   05 53.70  -0.3
                  iSg    06 04.93
BDV      0.76 172 iPgc   05 54.38   0.1
                  iSg    06 05.65
IVA      0.91 100 iPgd   05 57.03   0.1
                  iSg    06 11.28
PVY      1.05 114 iPgc   05 59.20  -0.2
                  iSg    06 15.43
ULC      1.15 158 iPgc   06 01.20   0.2
                  iSg    06 18.62
     S.D. = 0.2  on   9 of   9 obs.
-----------------------------------
%  JUL  03, 1991  16h 42m 40.99± 2.02s
   45.086 N ±18.4km    2.845 E ±15.4km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                           (538)
     ML 2.2 (LDG).

CAF      0.58 254 Pg     42 51.60  -1.1
                  Sg     43 02.20
RJF      0.96 284 Pg     43 00.00   0.7
                  Sg     43 13.50
LPO      1.25 252 Pg     43 04.80   0.7
                  Sg     43 21.80
TCF      1.28 340 Pg     43 03.90  -0.9
                  Sg     43 20.00
SMF      1.71  24 Pg     43 09.50  -1.5
                  Sg     43 30.60
SSF      2.03  13 Pg     43 16.60   1.0
                  Sg     43 40.80
LBF      2.06  22 Pg     43 15.40  -0.6
                  Sg     43 41.20
LOR      2.29  18 Pg     43 21.20   1.7
                  Sg     43 48.90
     S.D. = 1.4  on   8 of   8 obs.
-----------------------------------
%  JUL  03, 1991  17h 13m 36.82± 0.73s
   45.006 N ± 5.3km    0.762 E ± 9.0km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                           (538)
     ML 3.1 (LDG).

LFF      0.07 193 Pg     13 40.00   0.8
                  Sg     13 42.80
LPO      0.44 137 Pg     13 46.50   0.7
                  Sg     13 53.80
RJF      0.61  60 Pg     13 51.00   1.8
                  Sg     14 00.40
CAF      0.93  94 Pg     13 56.80   2.2X
                  Sg     14 10.00
LSF      1.36  23 Pn     14 02.40   0.7
                  Pg     14 04.00
                  Sg     14 22.00
TCF      1.64  38 Pn     14 06.00   0.2
                  Pg     14 09.30
                  Sg     14 31.20
MFF      1.72 339 Pg     14 07.80   0.9
                  Sg     14 29.20
MAF      1.76  46 Pn     14 07.60   0.1
                  Pg     14 11.60
                  Sg     14 36.00
EPF      2.00 189 Pn     14 09.60  -1.4
                  Pg     14 13.60
                  Sg     14 39.50
BGF      2.13  42 Pn     14 12.80  -0.1
                  Pg     14 18.80
                  Sg     14 47.80
AVF      2.54  44 Pn     14 18.50  -0.2
                  Pg     14 25.40
                  Sg     14 59.00
SMF      2.71  52 Pn     14 20.40  -0.8
                  Sg     14 28.60
                  Sg     15 05.60
SSF      2.81  42 Pn     14 21.80  -0.8
                  Pg     14 31.70
                  Sg     15 07.80
LBF      2.99  47 Pn     14 24.20  -1.0
                  Pg     14 33.60
                  Sg     15 13.50
LOR      3.12  42 Pn     14 26.00  -1.0
                  Pg     14 36.40
                  Sg     15 18.00
LPF      3.27 338 Pg     14 36.80   7.7X
                  Sg     15 18.00
GRR      3.56 342 Pg     14 42.20   9.0X
                  Sn     15 10.00
                  Sg     15 27.40
LDF      3.64 351 Pg     14 44.70  10.3X
                  Sg     15 30.40
FLN      3.85 348 Pg     14 48.40  11.0X
                  Sg     15 37.00
     S.D. = 1.0  on  14 of  19 obs.
-----------------------------------
*  JUL  03, 1991  17h 22m 43.96± 1.96s
   11.324 N ± 9.3km  125.466 E ±19.1km
   DEPTH =  79.9 ± 17.8 km
   4.6mb (  6 obs.)
 SAMAR, PHILIPPINE ISLANDS        (251)

MAP      1.77 236 iPc    23 12.50  -0.7
                  eS     23 36.50
CGP      2.95 195 iPc    23 30.00   0.5
                  iS     24 03.00
DAV      4.21 179 eP     23 54.00   6.9X
NJ2     21.51 345 Pc     27 29.20   1.2
     Z  20s      0.30um          3.7Msz
CHTO    26.65 289 eP     28 17.20   0.0
      1.0s      4.75nm          4.0mb
XAN     27.20 329 P      28 21.00  -1.1
SNY     30.43 357 eP     28 51.00   0.1
      1.2s     20.00nm          4.7mb
WB2     32.28 164 iPc    29 05.60  -1.7
                  e      29 18.70
                  e      31 54.00
ASPA    35.74 167 eP     29 36.70  -0.4
      0.5s      7.20nm          4.9mb
GTA     36.07 325 P      29 40.20   0.4
      1.4s     10.00nm          4.6mb
     Z  16s      0.30um          4.2MszX
     E  17s      0.40um
LSA     36.78 305 P      29 46.90   0.6
WARB    37.30 178 eP     29 52.00   1.9
FORR    42.01 177 eP     30 29.00   0.1
STK     45.65 161 iPc    30 58.90   0.5
      0.5s      4.50nm          4.6mb
WMQ     45.91 322 eP     31 01.40   1.0
YAK     50.70   3 iPc    31 36.90  -0.2
KEV     82.38 340 eP     35 16.00  17.9X
KAF     84.33 332 iP     35 06.70  -1.5
      0.3s      1.50nm          4.5mb
NUR     85.50 331 eP     35 13.30  -0.7
     S.D. = 1.1  on  17 of  19 obs.
-----------------------------------
*  JUL  03, 1991  17h 30m 57.01± 0.31s
   15.084 S ±14.4km  173.665 W ±12.8km
   DEPTH =  10.0km  (geophysicist)
   4.9mb ( 10 obs.)  4.9Msz (  5 obs.)
 TONGA ISLANDS                    (173)

AFI      2.17  58 iPc    31 31.00  -2.8
                  eS     31 44.00
DZM     20.08 247 iPc    35 37.20   3.5X
CAN     39.02 232 e(P)   38 24.00  -1.7
TOO     42.47 230 eP     38 49.70  -4.3X
                  e      39 01.00
STK     43.98 240 eP     39 05.30  -1.0
      0.9s      3.00nm          4.1mb
                  i      39 18.70
WB2     49.65 257 eP     39 50.30  -0.9
                  i      40 02.20
ASPA    49.97 252 iPc    39 52.50  -1.1
      0.7s     17.70nm          5.1mb
     Z  22s      0.60um          4.5MszX
                  i      40 03.60
SBA     63.54 185 P      41 30.50   1.0
MAT     68.53 320 eP     42 11.00   9.0X
PRS     71.06  42 eP     42 18.30   0.8
MHC     71.48  41 eP     42 20.80   0.7
LLA     71.51  42 eP     42 20.60   0.4
PLM     72.47  47 eP     42 27.00   0.8
CMB     72.70  42 ePc    42 26.80  -0.4
WDC     72.89  38 eP     42 27.80  -0.4
ORV     72.90  40 eP     42 28.70   0.4
TNP     74.78  43 eP     42 39.00  -0.6
      1.0s     15.00nm          5.0mb
SPA     75.01 180 iPd    42 40.00  -0.4
      0.9s     17.27nm          5.1mb
PNT     79.89  33 eP     43 20.00  12.6X
      0.7s      6.00nm
PV09    80.47  46 ePc    43 11.20   0.1
ANMO    80.80  50 ePc    43 13.00   0.2
      1.0s      5.75nm          4.5mb
FBA     82.13  11 ePc    43 18.60  -0.3
      0.7s     17.44nm          5.3mb
                  e      43 29.70
BW06    82.21  42 ePc    43 18.70  -1.4
      1.0s      5.00nm          4.6mb
GOL     83.62  46 eP     43 27.50   0.0
BJI     85.07 314 eP     43 48.50  14.2X
RSSD    86.40  43 eP     43 41.00  -0.2
      1.1s      9.32nm          4.9mb
                  e      43 50.80
MAW     88.01 199 eP     43 48.60   0.3
      0.9s     11.00nm          5.2mb
INK     88.02  14 eP     43 48.00  -0.2
YKA     89.91  23 eP     43 57.20  -0.1
      0.8s      1.40nm          4.2mb
NB2    133.98 357 PKP    50 15.40  -0.5
      0.8s      1.70nm
CLL    143.47 353 ePKP   50 31.00  -2.5X
BRG    143.78 352 ePKP   50 34.80   0.8
                  e      50 45.50
SPC    144.13 344 ePKP   50 32.40  -2.5X
MOX    144.27 354 ePKP   50 33.50  -1.4
PRU    144.55 351 ePKP   50 34.50  -0.9
                  e      50 46.70
MEM    144.57   0 PKP    50 33.90  -1.4
DOU    145.05   2 PKP    50 35.90  -0.3
GRF    145.26 354 iPKPd  50 37.00   0.4
     Z  22s      0.10um          4.5Msz
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03d 17h

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                    e      50 49.60
MLR   145.48 335 ePKPc 50 37.00   -0.3
                    e      22 25.00
WLF   145.51   0 iPKPd 50 37.91    1.0
KHC   145.53 352 iPKPd 50 38.00    0.9
       1.1s      9.20nm
                    i      50 49.50
ZST   145.80 347 ePKP  50 39.10    1.6
                    e      50 50.80
SRO   145.89 346 iPKP  50 38.70    1.0
FLN   145.95   8 ePKP  50 37.90    0.1
       0.6s      5.40nm
      Z  20s      0.47um          5.3Msz
CMP   146.02 336 ePKPc 50 42.00    3.9X
LDF   146.16   8 ePKP  50 38.60    0.5
LPF   146.59   9 ePKP  50 39.90    1.1
       0.9s     14.75nm
CDF   146.76 359 ePKP  50 41.00    1.8
       1.0s     18.00nm
BHG   147.01 352 iPKPd 50 42.50    3.0X
HAU   147.17 360 ePKP  50 42.20    2.4X
       0.9s     11.45nm
      Z  20s      0.08um          4.5Msz
KBA   147.57 351 iPKPc 50 42.60    1.9
                    i      51 07.10
WTTA  147.61 353 i(PKP)50 43.70    3.0X
       0.6s      9.70nm
                    i      50 56.20
LOR   147.85   3 ePKP  50 43.80    2.9X
       0.8s      9.40nm
      Z  20s      0.47um          5.3Msz
SSF   148.03   4 ePKP  50 44.50    3.3X
       1.0s     17.00nm
MFF   148.11   8 ePKP  50 44.30    3.0X
LBF   148.13   3 ePKP  50 44.70    3.3X
       1.0s     13.00nm
PTJ   148.23 347 ePKP  50 44.20    2.6X
AVF   148.29   4 ePKP  50 44.80    3.2X
       1.0s      9.00nm
LJU   148.38 349 e(PKP)50 42.00    0.2
                    e      50 45.00
SMF   148.47   3 ePKP  50 45.30    3.4X
       0.9s      7.35nm
BGF   148.49   5 ePKP  50 45.40    3.5X
       0.9s      9.00nm
VOY   148.50 350 ePKP  50 45.30    3.2X
LSF   148.67   6 ePKP  50 45.90    3.7X
       0.9s      6.55nm
CEY   148.69 349 e(PKP)50 46.00    3.7X
TCF   148.70   6 ePKP  50 45.90    3.6X
MAF   148.80   5 ePKP  50 46.30    3.8X
       1.0s     12.00nm
CTI   148.81 353 PKPd  50 46.70    4.1X
RJF   149.60   7 ePKP  50 48.30    4.6X
       1.0s      8.00nm
      Z  20s      0.17um          4.9Msz
LPL   149.66 359 ePKP  50 49.60    5.5X
       1.0s     11.00nm
LPG   149.68 359 ePKP  50 49.60    5.4X
       0.9s     12.30nm
LFF   149.87   8 ePKP  50 49.00    4.9X
       0.9s      8.20nm
CAF   150.04   6 ePKP  50 49.80    5.4X
       1.0s      8.00nm
BNI   150.13 360 PKP   50 55.50   10.8X
BOB   150.30 356 PKPd  50 50.40    5.6X
VAY   150.31 335 ePKP  50 50.00    5.2X
SFI   150.88 352 PKP   50 52.20    6.6X
PGD   150.94 352 PKP   50 52.40    6.4X
ARV   151.12 350 PKPd  50 52.80    6.8X
FRF   151.62 360 ePKP  50 53.20    6.4X
       1.1s      9.75nm
EPF   151.68   9 ePKP  50 55.60    8.6X
       0.9s      3.30nm
PGF   152.54 356 ePKP  50 55.20    6.9X
       0.9s     11.45nm
     S.D. = 1.0  on  42 of  81 obs.
-----------------------------------
&  JUL  03, 1991  18h 30m 49.40s
   49.240 N          122.520 W
   DEPTH =   5.1km
 BRITISH COLUMBIA                  ( 23)
      <PGC>. ML 3.0 (PGC). MD 2.9
      (SEA). Felt (V) in the Maple
      Ridge area. Also felt at Fort
      Langley, Haney, Langley,
      Mission, North Vancouver, Pitt
      Meadows, Port Coquitlom, Surrey
      and Vancouver.
HNB     0.05 312 Pc     30 50.73   -0.2
VDB     0.35 128 Pd     30 55.68   -0 7
BIB     0.54 288 Pd     30 58.88   -1.3
MCW     0.60 200 Pd     31 00.24   -1.1
WPB     0.61 313 P      31 00.12   -1.6
SNB     0.63 223 P      31 01.15   -0.9
PGC     0.85 226 P      31 04.00   -2.2
       0.2s     38.00nm
WHB     0.93 343 P      31 05.68   -2.0
SHB     0.95 293 Pd     31 05.96   -2.1
NAB     0.97 270 P      31 06.19   -2.1
VGZ     0.98 213 P      31 06.39   -2.1
STW     1.33 215 Pd     31 12.25   -2.2
                 S      31 29.63
PGW     1.42 182 P      31 14.67   -1.2
PFB     1.43 243 P      31 13.95   -2.1
BLH     1.44 167 P      31 15.08   -1.1
MGB     1.45 261 Pc     31 14.20   -2.2
ALB     1.51 272 P      31 15.29   -1.8
HTW     1.52 161 P      31 16.22   -1.1
OSD     1.62 209 P      31 17.27   -1.7
OTR     1.67 227 P      31 18.08   -1.4
SPW     1.70 174 P      31 19.39   -0.4
OFK     1.78 224 P      31 20.27   -0.7
NLW     1.86 128 P      31 21.52   -0.7
OOW     1.87 217 Pc     31 21.77   -0.6
PNT     1.90  87 P      31 23.20    0.4
OZB     1.97 263 P      31 22.51   -1.3
BTB     1.98 278 P      31 22.41   -1.6
SMW     2.00 196 P      31 24.08   -0.2
CBB     2.01 294 P      31 22.71   -1.7
GSM     2.10 166 P      31 24.84   -0.9
OBH     2.12 206 P      31 25.18   -0.7
ETW     2.19 137 P      31 27.80    0.7
GHW     2.21 176 P      31 26.42   -0.8
                 S      31 54.59
DHW2    2.21 123 P      31 28.27    0.9
WTV     2.30 131 P      31 30.05    1.4
CPW     2.31 191 P      31 28.13   -0.6
RVC     2.33 171 P      31 28.55   -0.5
FMW     2.38 166 Pc     31 29.23   -0.6
LMW     2.58 176 P      31 32.59    0.0
EBG     2.67 150 P      31 36.28    2.4
EPH     2.72 133 P      31 37.52    3.0
GLK     2.75 167 P      31 35.82    0.8
NAC     2.75 155 P      31 37.39    2.3
VTG     2.85 142 P      31 39.82    3.5
TDL     2.90 176 P      31 37.66    0.5
ASR     3.15 168 P      31 41.52    0.8
MTMW    3.22 176 P      31 42.69    0.9
      47 obs. associoted
-----------------------------------
&  JUL  03, 1991  19h 12m 58.34s
   60.001 N          152.839 W
   DEPTH = 102.7km
 SOUTHERN ALASKA                   (  2)
      <AEIC>.

IVS     0.12 274 ePc    13 12.67    1.0
                 eS     13 23.98
RS2     0.47   5 ePc    13 14.06   -0.6
                 eS     13 25.95
RSO     0.46   5 ePc    13 14.04   -0.6
                 eS     13 25.57
RDW     0.48   2 ePc    13 14.12   -0.6
                 eS     13 25.87
REF     0.49   8 ePc    13 14.23   -0.6
                 eS     13 26.14
RDN     0.52   4 eP     13 14.42   -0.5
                 iS     13 26.52
NCT     0.56 355 ePd    13 14.58   -0.7
                 eS     13 26.62
DFR     0.60   7 eP     13 14.69   -0.8
                 eS     13 27.29
RDT     0.61  20 iPc    13 14.81   -0.8
                 iS     13 27.63
HOM     0.69 119 eP     13 15.78   -0.4
                 eS     13 29.65
AUH     0.71 206 eP     13 15.47   -0.9
PDB     0.72 253 ePd    13 15.54   -0.8
                 iS     13 28.83
AUI     0.73 204 eP     13 15.55   -1.0
                 eS     13 28.81
NNL     0.78  86 ePc    13 17.13    0.2
XLV     0.79 134 ePc    13 16.09   -1.0
                 eS     13 30.13
CNPM    0.94 120 iPc    13 17.86   -0.8
                 eS     13 33.35
NKA     1.09  46 eP     13 21.26    1.1
CDD     1.15 201 ePc    13 19.74   -1.2
CKL     1 22  11 ePd    13 21.22   -0.7
                 eS     13 39.16
SPU     1.25  18 ePd    13 21.30   -0.8
                 eS     13 39.25
BGL     1.29  10 eP     13 22.00   -0.6
CGLM    1.37  17 iPd    13 23.03   -0.6
SLKM    1.40  68 eP     13 22.74   -1.2
SYI     1.41 170 ePd    13 22.88   -1.1
                 eS     13 41.39
NCG     1.45  13 eP     13 23.96   -0.6
SEW     1.70  85 eP     13 26.19   -1.4
SVW     1.77 310 iPd    13 27.03   -1.5
SUA     1.79  34 ePd    13 28.66   -0.3
PMS     2.04  51 ePc    13 31.11   -1.0
SKT     2.09  17 ePd    13 31.60   -1.1
PLRM    2.42  47 eP     13 35.46   -1.6
LTI     2.50  87 iPc    13 36.24   -1.9
KNIM    2.57  80 ePc    13 36.31   -2.8
KNK     2.58  55 eP     13 37.32   -1.9
MTU     2.61  88 ePc    13 37.85   -1.7
GHO     2.61  45 eP     13 37.93   -1.8
GLI     2.98  70 eP     13 41.86   -2.8
      37 obs. associoted
-----------------------------------
%  JUL  03, 1991  20h 12m 31.99± 0.56s
   38.660 N ± 4.9km   16.085 E ± 8.9km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN ITALY                    (390)

CZI     0.56   4 P      12 43.30    0.0
                 eSg    12 52.00
SOI     0.59 182 P      12 43.20   -0.7
                 eSg    12 52.40
ACI     0.70   8 P      12 46.10    0.4
ATN     0.70 225 P      12 46.20    0.4
                 eSg    12 56.40
ROI     0.99  22 P      12 50.90    0.2
                 eSg    13 05.80
TDS     1.02  11 P      12 52.00    0.8
                 eSg    13 04.80
CSI     1.13   8 P      12 53.20    0.1
                 eSg    13 09.60
MMN     1.23 357 P      12 53.50   -1.3
                 eSg    13 12.40
MNO     1.31 237 P      12 55.00   -1.4
ORI     1.43  11 P      12 58.80    0.8
MGR     1.53 345 P      12 58.80   -0.6
                 eSg    13 17.70
GIB     1.75 248 P      13 03.50    0.8
MEU     1.80 211 P      13 04.50    1.1
SGO     1.99 343 P      13 06.60    0.6
LCI     2.21  40 P      13 09.30    0.1
BRT     2.38  21 P      13 10.40   -1.2
     S.D. = 0.9  on  16 of  16 obs.
-----------------------------------
?  JUL  03, 1991  20h 58m 15.21± 1.73s
   51.033 N ±35.9km  172.275 W ±14.4km
   DEPTH =  33.0km  (normal)
   4.2mb (  1 obs.)
 ANDREANDF ISLANDS, ALEUTIAN IS. (  7)

ADK     2.89 289 eP     58 59.80   -0.1
INK    25.46  33 eP     03 41.00   -0.2
NB2    68.25 358 P      09 14.50    0.3
       0.8s     1.70nm          4.2mb
GUN    75.74 297 P      09 59.60    0.0
KKN    76.17 297 P      10 01.50   -0.4
PKI    76.26 297 P      10 02.40   -0.2
GKN    76.37 298 P      10 02.80   -0.1
DMN    76.41 297 P      10 03.90    0.6
     S.D. = 0.4  on   8 of   8 obs.
-----------------------------------
%  JUL  03, 1991  21h 14m 24.05± 1.10s
   16.859 N ±11.3km   99.641 W ± 8.1km
   DEPTH =  33.0km  (normal)
 NEAR COAST OF GUERRERO, MEXICO  ( 58)

ACX     0.21 273 iP     14 31.00    0.2
                 iS     14 38.00
III     1.52   6 iP     14 49.00   -0.4
                 iS     15 09.50
```

```
PPM      2.40  24 iP     15 03.00    0.7
                iS     15 31.05
IIT      2.50  30 eP     15 04.50    1.0
                iS     15 35.00
TAC      2.57   9 (P)    15 12.50    8.0X
                (S)    15 44.00
VHO      2.79  85 eP     15 06.50   -1.1
                (S)    15 37.50
IISM     3.02  45 eP     15 10.00   -0.7
MRX      3.19 333 iP     15 12.50   -0.5
                (S)    15 50.50
PBJ      4.08  95 (P)    15 26.50    0.8
     S.D. = 0.9  on   8 of   9 obs.
-----------------------------------------
%  JUL  03, 1991  22h 36m 22.05± 0.58s
   43.003 N ± 5.3km   12.792 E ± 8.8km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                        (381)

ASS      0.12 305 Pc     36 24.40   -0.7
                eSg    36 25.70
ARV      0.51  12 Pc     36 31.50   -0.8
                eSg    36 39.30
MNS      0.62 188 P      36 34.20   -0.4
                eSg    36 44.10
AQU      0.79 145 P      36 37.10   -0.3
                eSg    36 50.90
CRE      0.88 316 P      36 38.60   -0.4
                eSg    36 52.20
RSM      0.96 345 P      36 41.10    0.9
                eSg    36 54.50
SFI      1.15 324 P      36 43.70    0.3
PGD      1.17 319 P      36 44.60    0.6
                eSg    37 00.70
SDI      1.50 149 P      36 50.00    0.9
     S.D. = 0.8  on   9 of   9 obs.
-----------------------------------------
*  JUL  03, 1991  22h 43m 16.38± 1.79s
   18.155 S ±13.5km  178.562 W ±10.2km
   DEPTH = 637.7 ± 24.3 km
   4.9mb ( 13 obs.)
 FIJI ISLANDS REGION                  (181)

DZM     14.61 252 iPc    46 21.60    1.3
BRS     27.93 246 iPc    48 20.00   -0.3
COO     29.52 240 iPd    48 33.90   -0.1
        0.6s    35.00nm          5.2mb
RMQ     31.28 249 ePd    48 49.00    0.3
CAN     33.44 233 iPd    49 07.10    0.3
BWA     33.56 235 iPd    49 07.00   -0.8
PMG     34.36 280 eP     49 15.60    1.1
        0.9s   134.45nm          5.5mb
QLP     35.31 250 iPd    49 22.00   -0.2
        0.4s   121.00nm          5.8mb
LAT     35.45 284 eP     49 24.30    0.9
TOO     36.90 231 iPd    49 36.00    0.8
        0.2s    59.00nm          5.8mb
TAU     37.96 222 eP     49 35.00   -8.6X
STK     38.39 241 iPd    49 48.00    0.8
        0.6s    24.00nm          4.9mb
                e      52 01.90
                e      54 01.10
QIS     39.47 260 iPd    49 55.00   -1.1
WB2     44.43 260 iPc    50 33.80   -1.2
                e      52 04.80
ASPA    44.59 254 iPd    50 35.60   -0.6
        0.7s   262.40nm          5.8mb
MTN     48.65 269 iPc    51 06.00   -0.9
FORR    49.74 245 eP     51 13.50   -1.1
        0.4s    20.00nm          4.9mb
WARB    51.06 251 iPd    51 24.10   -0.3
        0.5s    27.00nm          4.9mb
AAI     54.01 279 eP     51 43.10   -2.3
                eS     20 45.00
COOL    55.72 245 eP     51 56.00   -1.1
KLB     58.58 244 eP     52 16.00   -0.5
        0.4s    13.00nm          4.5mb
NWAO    58.97 242 eP     52 18.50   -0.5
BAL     59.55 245 eP     52 22.00   -0.8
MUN     59.88 243 eP     52 25.30    0.3
NANU    61.52 254 eP     52 36.00    0.3
SPA     71.96 180 iPd    53 40.00    1.3
        0.6s     8.54nm          4.5mb
GCC     76.49  43 eP     54 04.30    0.2
PRS     76.51  44 eP     54 04.70    0.5
PCC     76.52  43 eP     54 04.20    0.0
SAO     76.70  44 eP     54 05.30    0.1
PRI     76.87  45 eP     54 06.70    0.4
MWC     77.61  48 eP     54 10.00   -0.4
PLM     78.00  49 eP     54 13.00    0.5
SBB     78.02  47 eP     54 12.00   -0.4
ISA     78.09  46 eP     54 12.00   -0.7
CMB     78.12  43 eP     54 12.70   -0.1
WDC     78.22  40 eP     54 13.30    0.1
ORV     78.27  42 eP     54 13.30   -0.2
CLC     78.78  46 eP     54 16.00   -0.3
TPC     78.97  49 eP     54 17.00   -0.3
GSC     79.05  47 eP     54 17.00   -0.8
GLA     79.32  50 eP     54 20.00    0.8
SNG     83.57 280 eP     54 43.50    2.6
PNT     85.02  34 eP     54 47.00   -0.2
        0.6s    10.00nm          4.6mb
CHG     88.95 290 eP     55 08.10    1.8
CHTO    88.95 290 iP     55 08.10    1.8
        0.9s     5.54nm          4.4mb
INK     92.16  15 eP     55 19.00   -1.0
YKA     94.61  25 eP     55 30.60   -0.7
        0.6s     1.20nm          4.3mb
FLN    149.43   2 ePKP   01 56.60    5.8X
        0.8s     8.05nm
CDF    149.45 352 ePKP   01 57.00    6.0X
LDF    149.61   2 ePKP   01 57.00    5.9X
GRR    149.79   3 ePKP   01 57.70    6.3X
HAU    149.96 353 ePKP   01 58.00    6.3X
BSF    150.08 353 ePKP   01 58.30    6.3X
LPF    150.13   3 ePKP   01 58.20    6.3X
        0.6s     4.50nm
LOR    150.90 357 ePKP   02 00.60    7.4X
        0.4s     1.70nm
SSF    151.12 357 ePKP   02 01.20    7.7X
        0.5s     2.20nm
LBF    151.17 356 ePKP   02 00.40    6.8X
        0.8s     2.70nm
BGF    151.65 358 ePKP   02 02.10    7.9X
        0.7s     3.30nm
TCF    151.94 359 ePKP   02 02.90    8.2X
        0.4s     1.45nm
     S.D. = 1.0  on  47 of  60 obs.
-----------------------------------------
%  JUL  03, 1991  23h 19m 17.90± 1.42s
   17.685 N ±13.0km  101.344 W ±10.8km
   DEPTH =  10.0km  (geophysicist)
 NEAR COAST OF GUERRERO, MEXICO  ( 58)

ACX      1.63 120 iP     19 47.20    0.4
                iS     20 06.50
III      1.91  69 iP     19 50.50   -0.5
                iS     20 16.00
MRX      2.01   4 iP     19 51.50   -0.8
                iS     20 18.00
TAC      2.66  50 (P)    20 04.00    2.1
                (S)    20 39.00
CGX      2.84 315 iP     20 04.50    0.2
PPM      2.92  62 iP     20 05.00   -0.8
                iS     20 43.00
IIT      3.17  65 eP     20 08.50   -0.6
                iS     20 48.50
IISM     3.98  70 eP     20 20.75    0.4
VHO      4.45  97 eP     20 28.00    0.9
PBJ      5.81 101 (P)    20 45.00   -1.3
     S.D. = 1.1  on  10 of  10 obs.
-----------------------------------------
   JUL  03, 1991  23h 45m 00.26± 0.53s
   26.126 N ± 7.1km   99.587 E ± 7.5km
   DEPTH =  10.0km  (geophysicist)
   4.5mb (  6 obs.)
 YUNNAN PRDVINCE, CHINA               (318)

KMI      3.02 109 ePn    45 50.00    0.8
                Pg     45 55.00
                Sn     46 26.00
                Sg     46 32.50
CD2      6.01  37 Pn     46 32.00    0.5
                Pg     46 50.00
                Sg     48 13.60
GYA      6.36  85 Pn     46 36.80    0.3
                Pg     46 56.80
CHG      7.30 185 ePn    46 50.00    0.4
                ePg    47 17.20
                iSg    48 55.30
CHTO     7.30 185 ePn    46 50.10    0.5
                ePg    47 17.30
                eLg    48 55.50
LSA      8.27 297 P      47 04.70    1.2
LZH     10.58  19 eP     47 39.50    4.4X
        2.0s    53.00nm          5.6mb X
      Z  14s     0.85um          4.5MszX
                sP     47 49.00
XAN     11.29  43 eP     47 41.40   -3.3X
      N  12s     0.80um
      E  12s     0.50um
GTA     13.25   1 eP     48 15.60    4.5X
      Z  10s     0.50um
TIA     18.04  52 eP     49 11.70   -0.9
      Z  14s     0.40um
      E  11s     0.40um
                eS     52 38.00
BJI     19.59  41 eP     49 31.00   -0.5
WMO     20.13 334 P      49 37.00   -0.2
      Z  10s     0.30um          3.9MszX
                sP     49 49.00
SNY     25.20  46 eP     50 29.80    2.4
WB2     56.89 140 eP     54 45.50   -2.4
NB2     66.73 328 P      55 52.00   -1.5
        0.8s     1.10nm          4.1mb
PGF     73.25 309 eP     56 39.40    5.7X
        0.7s     4.40nm          4.6mb
LPG     73.74 313 eP     56 37.00    0.3
        0.7s     2.75nm          4.4mb
LPL     73.74 313 eP     56 36.80    0.1
        0.7s     3.30nm          4.5mb
SBF     73.86 311 eP     56 40.90    3.7X
        0.7s     7.70nm          4.8mb
MBC     75.06   9 eP     56 43.00   -0.4
        0.5s     2.00nm          4.4mb
INK     78.12  18 eP     57 00.00   -0.6
     S.D. = 1.2  on  16 of  21 obs.
-----------------------------------------
   JUL  04, 1991  00h 03m 47.74± 0.77s
   39.114 N ± 6.4km   21.656 E ± 7.2km
   DEPTH =  10.0km  (geophysicist)
 GREECE                               (364)
     MD 3.1 (ATH), 2.9 (THE).

AGG      0.53 100 ePc    03 58.54    0.0
                eS     04 07.02
IGT      1.11 293 iPc    04 10.77    2.2X
                iS     04 27.42
LIT      1.18  33 ePc    04 10.53    0.8
                iS     04 27.98
KZN      1.19   4 ePb    04 10.00   -0.1
VLS      1.25 222 ePb    04 11.20    0.1
FNA      1.68 353 ePc    04 18.54    1.2
                eS     04 41.34
PAIG     1.76  62 ePc    04 18.02   -0.5
                eS     04 39.98
THE      1.82  33 ePd    04 18.74   -0.6
GRG      1.93  17 ePc    04 21.34    0.4
SOH      2.15  37 iPd    04 24.54    0.4
                eS     04 51.54
KNT      2.26  25 iPd    04 26.01    0.3
VAY      2.31  17 ePn    04 27.00    0.6
SRS      2.49  36 ePd    04 28.38   -0.6
VLI      2.60 157 ePn    04 33.80    3.3X
SKO      2.86 357 ePn    04 32.00   -2.2
     S.D. = 0.9  on  13 of  15 obs.
-----------------------------------------
%  JUL  04, 1991  00h 55m 58.98± 0.84s
   41.616 N ± 9.2km   13.718 E ± 6.5km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN ITALY                       (390)

SDI      0.12  39 P      56 02.00    0.0
                eSg    56 06.20
DUI      0.56  85 P      56 09.90   -0.4
AQU      0.77 342 P      56 13.50   -0.6
                eSg    56 27.50
RMP      0.79 285 P      56 13.80   -0.5
                eSg    56 26.20
MNS      1.09 315 P      56 20.00    0.5
                eSg    56 35.00
SGO      1.60 131 P      56 27.70    0.4
ASS      1.65 332 P      56 29.50    1.3
ARV      1.97 343 P      56 33.30    0.6
CRE      2.40 328 P      56 37.70   -1.3
SFI      2.68 330 P      56 42.80   -0.1
     S.D. = 0.8  on  10 of  10 obs.
-----------------------------------------
*  JUL  04, 1991  01h 48m 12.16± 0.85s
   20.211 S ± 9.8km   68.924 W ±15.4km
   DEPTH = 191.5 ± 21.5 km
```

04d 01h

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 CHILE-BOLIVIA BORDER REGION      (124)
CNCB     3.50  15 P      49 08.80   0.3
LPB      3.74  12 P      49 14.00   2.6X
ANT      3.74 201 eP     49 11.00   0.1
CCH      3.85  44 P      49 12.20  -0.5
                  (S)    49 29.20
ZOBO     3.99  11 P      49 15.20   0.5
ARE      4.46 326 eP     49 20.00  -0.3
                  iS     50 10.50
SIV      8.56  62 iPc    50 08.40  -5.4X
VAO     20.60 102 eP     52 37.90   0.0
     S.D. = 0.6  on   6 of   8 obs.
-----------------------------------------
%  JUL  04, 1991  01h 58m 10.64± 1.18s
   43.006 N ± 8.5km   18.697 E ± 7.4km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                       (383)
     ML 1.6 (TTG).

BRY      0.15 227 iPgd   58 14.16  -0.1
                  iSg    58 16.85
NKY      0.29 131 iPgd   58 16.51  -0.3
                  iSg    58 22.53
HCY      0.58 195 iPgc   58 22.23  -0.1
                  iSg    58 30.25
PLE      0.60  57 iPgc   58 23.08   0.2
                  iSg    58 32.36
TTG      0.71 144 iPgc   58 24.00  -0.6
                  iSg    58 35.30
BDV      0.73 172 iPgd   58 24.76  -0.2
                  iSg    58 37.33
IVA      0.89  98 ePg    58 27.71  -0.1
                  iSg    58 42.83
ULC      1.12 158 iPgd   58 32.96   1.3
                  iSg    58 50.70
     S.D. = 0.7  on   8 of   8 obs.
-----------------------------------------
   JUL  04, 1991  02h 17m 19.68± 0.53s
   44.599 N ± 7.2km    9.906 E ± 4.2km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                   (545)

BOB      0.37 297 P      17 28.30   1.0
                  eSg    17 36.80
MME      0.70 125 P      17 32.90  -0.8
                  eSg    17 42.50
BDI      0.73 137 P      17 32.60  -1.5
                  eSg    17 44.10
PCP      0.97 267 P      17 40.18   1.9
PII      0.98 153 P      17 38.40   0.1
                  eSg    17 50.70
CKI      1.18 262 P      17 41.30  -0.3
MDI      1.19 353 P      17 41.00  -0.8
FIN      1.28 253 P      17 43.56   0.1
ROB      1.49 259 P      17 46.53   0.0
                  S      18 06.13
PGD      1.49 118 P      17 47.30   0.6
SFI      1.55 115 P      17 48.40   1.0
IMI      1.60 245 P      17 48.36   0.2
                  S      18 09.66
CRE      1.76 123 P      17 51.70   1.1
ENR      1.82 259 P      17 51.32   0.0
STV      1.88 260 P      17 51.18  -1.1
RSP      1.96 287 P      17 53.01  -0.4
PZZ      2.01 268 P      17 52.87  -1.3
     S.D. = 1.0  on  17 of  17 obs.
-----------------------------------------
*  JUL  04, 1991  02h 42m 34.79± 0.98s
   0.041 S ± 9.1km  123.821 E ±12.4km
   DEPTH = 133.2 ± 10.3 km
   4.6mb (  5 obs.)
 MINAHASSA PENINSULA              (265)

MNI      1.79  35 ePd    43 08.00   1.2
                  eS     43 31.00
AAI      5.68 130 iPc    43 56.90  -1.2
                  iS     44 59.50
TSM      7.34 306 ePd    44 19.80  -0.9
WB2     22.31 153 iPc    47 22.70   0.6
         0.6s    16.00nm          4.6mb
ASPA    25.44 158 eP     47 52.20   0.2
         0.5s     7.70nm          4.5mb
QIS     25.58 144 iPc    47 53.40   0.2
                  i      48 28.00
CHTO    30.78 309 eP     48 41.00   1.0
         0.9s     5.33nm          4.3mb
STK     35.85 154 iPd    49 23.70   0.2
         0.4s     7.90nm          4.9mb
                  e      49 55.80
                  i      51 48.40
MAT     38.77  19 eP     49 46.00  -1.9
         0.8s    14.93nm          4.8mb
OFUJ    42.23  21 eP     50 16.70   0.5
INK     94.71  21 eP     55 42.00   0.3
MBC     96.24  12 eP     55 48.50  -0.1
     S.D. = 1.1  on  12 of  12 obs.
-----------------------------------------
%  JUL  04, 1991  03h 43m 05.14± 0.84s
   37.662 N ± 7.5km   15.047 E ± 6.9km
   DEPTH =  10.0km  (geophysicist)
 SICILY                           (398)

MNO      0.39 314 P      43 12.90  -0.2
                  eSg    43 19.50
MEU      0.57 190 P      43 16.50  -0.2
                  eSg    43 25.50
ATN      0.60  33 P      43 16.70  -0.5
                  eSg    43 25.80
GIB      0.87 292 P      43 22.40   0.4
                  eSg    43 36.00
SOI      0.90  63 P      43 22.80   0.5
CZI      1.77  28 P      43 32.90  -3.1X
                  eSg    43 58.60
     S.D. = 0.6  on   5 of   6 obs.
-----------------------------------------
%  JUL  04, 1991  04h 00m 47.83± 1.90s
   45.115 N ±14.4km    2.868 E ±14.2km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                           (538)
     ML 2.0 (LDG).

CAF      0.60 252 Pg     00 59.00  -1.0
                  Sg     01 09.60
RJF      0.97 282 Pg     01 07.00   0.7
TCF      1.26 339 Pg     01 10.60  -0.7
                  Sg     01 26.20
LPO      1.27 251 Pg     01 12.00   0.6
                  Sg     01 28.80
LSF      1.47 321 Pg     01 14.40   0.0
                  Sg     01 32.60
SSF      2.00  13 Pg     01 23.00   1.0
LBF      2.02  22 Pg     01 21.80  -0.6
                  Sg     01 47.00
     S.D. = 1.0  on   7 of   7 obs.
-----------------------------------------
*  JUL  04, 1991  04h 26m 41.31± 1.13s
   44.546 N ±15.3km    9.911 E ± 7.9km
   DEPTH =  13.4 ±  6.5 km
 NORTHERN ITALY                   (545)

BOB      0.40 304 P      26 49.00  -0.6
                  eSn    26 56.80
BDI      0.69 134 P      26 55.00   0.3
                  eSg    27 05.00
PII      0.94 152 P      26 58.50  -0.3
                  eSg    27 12.50
PCP      0.98 270 P      27 00.64   1.1
                  S      27 12.84
CKI      1.17 265 P      27 04.50   1.6
                  eSn    27 17.00
FIN      1.27 255 P      27 04.33  -0.2
                  S      27 17.35
ROB      1.48 261 P      27 06.79  -0.9
                  S      27 20.22
SFI      1.53 113 P      27 08.50   0.3
IMI      1.59 247 P      27 08.02  -1.1
     S.D. = 1.1  on   9 of   9 obs.
-----------------------------------------
?  JUL  04, 1991  04h 27m 19.34± 2.21s
   31.068 S ±52.3km   14.845 W ±24.7km
   DEPTH =  10.0km  (geophysicist)
   4.6mb ( 11 obs.)  4.7Msz (  1 obs.)
 SOUTH ATLANTIC RIDGE             (410)

BAO     33.93 289 e(P)   34 05.00   0.0
SIV     44.64 279 eP     35 34.00  -0.1
                  i      38 19.00
                  i      49 52.00
CNCB    50.16 274 P      36 18.00   0.1
                  i      39 01.50
LPB     50.38 274 (P)    36 20.00   0.5
     Z  20s      0.71um          4.7Msz
                  LR     56 16.00
ZOBO    50.52 274 P      36 20.20  -0.5
     Z  24s      0.37um          4.3MszX
                  LR     56 10.00
LFF     76.97  11 eP     39 13.50   0.0
         1.2s    11.90nm          4.9mb
CAF     77.18  12 eP     39 14.30  -0.5
         1.2s     8.95nm          4.7mb
LSF     78.37  12 eP     39 21.40   0.1
         1.0s     6.00nm          4.6mb
TCF     78.53  12 eP     39 22.60   0.5
         1.0s     7.00nm          4.7mb
LPG     78.69  15 eP     39 23.30  -0.1
         1.0s     5.00nm          4.5mb
LPL     78.70  15 eP     39 23.40   0.0
         0.9s     4.90nm          4.6mb
SMF     79.17  13 eP     39 25.60  -0.1
         1.0s     8.00nm          4.7mb
AVF     79.22  13 eP     39 26.00   0.1
         1.2s     8.95nm          4.7mb
SSF     79.51  13 eP     39 27.60   0.2
         0.8s     2.70nm          4.3mb
LBF     79.53  13 eP     39 27.60   0.0
         1.0s     4.00nm          4.4mb
LOR     79.78  13 eP     39 28.70  -0.2
         1.0s     6.00nm          4.5mb
KHC     83.77  18 eP     39 50.50   0.8
                  i      40 36.50
                  PP     42 22.00
PRU     84.81  19 eP     39 54.00  -0.9
                  e      40 42.20
                  PP     44 27.80
INK    129.03 335 ePKP   46 32.00   3.9X
     S.D. = 0.4  on  18 of  19 obs.
-----------------------------------------
?  JUL  04, 1991  04h 29m 37.24± 1.14s
   34.132 S ±25.3km   14.227 W ±21.6km
   DEPTH =  10.0km  (geophysicist)
   4.8mb ( 16 obs.)
 TRISTAN DA CUNHA REGION          (411)

SOB1    34.85 309 eP     36 30.70   0.0
LPO     79.68  11 eP     41 45.10  -1.2
         1.2s    11.90nm          4.8mb
LFF     79.86  11 eP     41 46.30  -0.9
         1.2s    17.85nm          4.9mb
CAF     80.06  12 eP     41 47.30  -1.0
         1.0s    10.00nm          4.7mb
LSF     81.27  11 eP     41 54.30  -0.3
         0.8s     9.40nm          4.9mb
TCF     81.41  11 eP     41 55.20  -0.2
         1.2s     7.45nm          4.6mb
LPG     81.50  15 eP     41 56.20  -0.1
         1.0s     8.00nm          4.7mb
LPL     81.52  15 eP     41 56.20   0.0
         1.0s     6.00nm          4.6mb
SMF     82.04  12 eP     41 58.60   0.0
         1.0s     8.00nm          4.8mb
AVF     82.09  12 eP     41 59.10   0.2
         1.0s    12.00nm          4.9mb
SSF     82.38  12 eP     42 00.40   0.0
         1.0s     8.00nm          4.8mb
LBF     82.39  12 eP     42 00.20  -0.3
         1.2s     8.95nm          4.8mb
LPF     82.64   9 eP     42 01.80   0.1
         1.0s    12.00nm          5.0mb
LOR     82.64  12 eP     42 01.70  -0.1
         1.0s     6.00nm          4.7mb
LDF     83.31   9 eP     42 05.30   0.2
         0.8s     5.35nm          4.8mb
FLN     83.43   9 eP     42 05.80   0.1
         1.0s    16.00nm          5.2mb
ZST     86.62  20 e(P)   42 22.00   0.3
                  e      50 48.60
SRO     86.63  21 eP     42 23.00   1.3
EKA     89.61   6 Pc     42 38.10   2.3
         1.1s     9.10nm          4.9mb
WB2    118.46 146 ePKP   48 26.80  -0.4
         0.4s     1.10nm
INK    132.02 334 ePKP   49 03.00  11.4X
     S.D. = 0.8  on  20 of  21 obs.
-----------------------------------------
?  JUL  04, 1991  04h 39m 31.81± 5.47s
   45.069 N ±20.7km    3.018 E ±41.0km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                           (538)
     ML 1.9 (LDG).
```

```
CAF      0.69 258 Pg     39 44.80  -0.7
                  Sg     39 55.60
RJF      1.09 283 Pg     39 52.60   0.3
                  Sg     40 06.00
TCF      1.34 335 Pg     39 56.40  -0.2
                  Sg     40 12.00
LPO      1.36 254 Pg     39 57.20   0.5
                  Sg     40 14.40
LSF      1.58 319 Pg     40 00.00   0.1
                  Sg     40 19.20
     S.D. = 0.7   on   5 of   5 obs.
-----------------------------------
&  JUL  04, 1991  05h 03m 31.71s
   59.839 N          152.617 W
   DEPTH =  83.6km
 SOUTHERN ALASKA                    (  2)
     <AEIC>.

HOM      0.53 110 iPc    03 45.76  -0.4
                  eS     03 56.96
XLV      0.60 130 iPc    03 46.05  -0.8
                  iS     03 57.63
AUE      0.62 219 ePd    03 46.35  -0.7
RSO      0.63 354 ePc    03 46.77  -0.6
RS2      0.63 354 iPc    03 46.79  -0.6
                  eS     03 58.62
AUH      0.64 222 iPd    03 46.77  -0.5
                  S      03 57.52
AUI      0.65 220 iPd    03 46.70  -0.7
                  eS     03 57.72
RDW      0.65 352 ePc    03 46.92  -0.7
                  eS     03 59.73
REF      0.65 356 iPc    03 46.99  -0.6
                  eS     03 58.97
RDN      0.68 354 iPc    03 47.29  -0.5
                  eS     03 59.17
NNL      0.70  72 iPc    03 48.18   0.4
NCT      0.74 348 iPc    03 47.96  -0.5
                  eS     04 00.15
RDT      0.74   8 iPc    03 47.54  -0.9
                  eS     03 59.86
DFR      0.76 357 iPc    03 47.94  -0.6
                  eS     04 00.28
CNPM     0.77 114 iPc    03 47.95  -0.7
                  eS     04 00.59
PDB      0.80 267 iPd    03 48.11  -0.8
                  iS     04 00.69
CDD      1.05 210 iPd    03 50.89  -1.0
                  eS     04 05.95
MCNL     1.10 234 iPd    03 51.25  -1.2
                  eS     04 05.88
NKA      1.14  37 ePc    03 53.93   1.0
SYI      1.24 175 iPd    03 53.62  -0.5
                  eS     04 10.68
CKL      1.37   6 iPd    03 55.33  -0.7
                  eS     04 13.99
SLKM     1.37  60 eP     03 54.95  -1.0
SPU      1.38  11 iPd    03 55.40  -0.6
                  eS     04 13.39
BGL      1.43   4 eP     03 55.94  -0.9
CGLM     1.50  11 iPd    03 57.20  -0.5
                  eS     04 16.70
NCG      1.59   8 iPd    03 58.27  -0.6
SEW      1.62  79 eP     03 58.01  -1.0
SUA      1.87  29 ePc    04 02.37  -0.3
                  eS     04 26.55
PMS      2.07  46 iPc    04 04.54  -0.7
                  eS     04 28.72
KDC      2.10 178 eP     04 03.31  -2.2
SKT      2.21  13 ePd    04 06.12  -1.1
                  eS     04 32.68
PWA      2.26  35 eP     04 07.36  -0.4
LTI      2.41  83 iPc    04 07.73  -2.0
                  iS     04 35.B9
PLRM     2.46  43 eP     04 08.73  -1 7
KNIM     2.50  76 iPc    04 08.50  -2.6
MTU      2.51  84 eP     04 09.47  -1.7
                  eS     04 38.25
KNK      2.59  51 eP     04 10.42  -1.9
GHO      2.65  41 ePc    04 11.70  -1.6
                  eS     04 41.63
GLI      2.94  67 ePc    04 13.87  -3.2
VZW      3.24  65 eP     04 18.59  -2.8
VLZ      3.37  65 eP     04 20.28  -2.8
KLU      3.69  60 ePc    04 25.06  -2.5
                  eS     05 05.64
TRF      3.79  16 eP     04 28.46  -0.6
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KTH      3.81  11 eP     04 28.44  -0.9
MCK      4.28  23 eP     04 34.72  -1.1
GLB      4.62  66 eP     04 37.25  -3.4
PAX      4.65  44 eP     04 39.37  -1.7
CROM     4.80  75 eP     04 40.88  -2.4
TGL      4.96  75 eP     04 42.86  -2.4
NEA      5.04  18 eP     04 44.09  -2.2
BALM     5.23  72 iPc    04 47.07  -2.0
CCB      5.32  23 ePc    04 47.95  -2.3
MDM      5.53  20 eP     04 50.62  -2.6
FBA      5.55  22 eP     04 51.20  -2.3
GLM      5.71  23 ePd    04 53.07  -2.6
PNL      6.68  86 iPc    05 06.21  -2.9
        56 obs. associated
-----------------------------------
   JUL  04, 1991  06h 26m 31.86± 0.18s
   42.387 N ± 4.1km   44.116 E ± 2.5km
   DEPTH =  20.4km  ( 12 depth phases)
   5.0mb ( 83 obs.)  4.9Msz ( 14 obs.)
 WESTERN CAUCASUS                (362)
      Domage (VII) in the Dzhava-
      Tskhinvali area, USSR. Felt (IV)
      ot Tbilisi, USSR.
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 17S, 34C
      Centroid Location:
      Origin Time        06:26:38.6 1.4
      Lat 42.60N 0.10 Lon  44.25E 0.12
      Dep  19.7 2.9 Half-duration  2.0
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 1.51 0.08  Mtt=-0.14 0.09
        Mff=-1.37 0.09  Mrt= 0.40 0.18
        Mrf= 0.60 0.26  Mtf= 0.27 0.09
       Principal Axes:
        T  Val=  1.74  Plg=72  Azm=318
        N       -0.22      15       175
        P       -1.52      10        82
      Best Double Couple:Mo=1.6*10**17
       NP1:Strike=154 Dip=37 Slip=  65
       NP2:          4      57       108

TAB      4.63 158 eP     27 45.00   2.4
                  i      27 56.80
GAZ      7.44 228 eP     28 20.90  -1.0
KER      8.36 163 ePd    28 43.00   8.1X
IR7      8.37 141 ePc    28 37.00   1.9
IR1      8.64 142 ePc    28 40.50   1.7
TEH      8.72 137 eP     28 41.00   1.1
IR5      8.76 143 eP     28 43.00   2.5
IR4      8.88 141 ePc    28 44.00   1.8
BHL     10.77 221 P      29 10.00   1.9
                  S      32 08.00
HRT     10.93 267 iP     29 06.50  -3.8X
YLV     11.21 266 eP     29 12.60  -1.5
ISK     11.33 268 eP     29 07.00  -S.6X
BCK     11.49 249 eP     29 22.00   4.1X
PSN     11.74 282 eP     29 16.00  -5.1X
CTT     11.78 269 eP     29 20.60  -1.2
CFR     11.87 289 eP     29 18.00  -4.9X
DMK     12.17 273 eP     29 22.20  -4.7X
ELL     12.32 248 eP     29 31.40   2.3
KGT     12.77 267 eP     29 33.60  -1.4
VRI     12.97 291 ePc    29 31.50  -6.1X
ISR     13.00 288 ePd    29 36.50  -1.5
BUC1    13.31 285 eP     29 40.00  -2.0
CVO     13.34 291 ePd    29 41.00  -1.6
MAIO    13.36 112 eP     29 40.00  -2.9
        1.0s   127.50nm          5.9mb
IZM     13.45 258 eP     29 42.70  -1.3
MLR     13.46 290 iPd    29 42.00  -2.2
OBN     13.64 341 eP     29 43.00  -3.4X
        1.6s  *******nm          8.4mb X
      Z  16s      3.B0um          3.9MszX
      N  17s      3.60um
      E  12s      3.90um
                  iPP    29 50.00
                  ePPP   30 07.00
                  i      30 16.50
                  eS     32 11.00
                  iSS    32 28.00
                  iSSS   32 42.00
EZN     13.66 265 eP     29 46.80   0.1
DIM     13.78 275 eP     29 43.00  -5.3X
PVL     13.82 280 iPc    29 45.00  -3.8X
KDZ     13.93 273 iPd    29 52.00   1.8
CMP     14.07 288 ePc    29 51.00  -1.1
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RZN     14.44 274 iP     29 53.00  -4.1X
DRA     14.59 286 eP     29 50.00  -8.9X
MMB     15.18 274 iPc    30 06.00  -0.7
VTS     15.43 278 iP     30 06.00  -4.0X
BMR     15.49 297 eP     30 09.00  -1.6
KKB     15.62 275 iP     30 12.00  -0.3
DEV     15.62 290 eP     30 14.00   1.7
VAY     16 09 273 iP     30 19.00   0.6
        1.3s   140.00nm          4.9mb
                  i      30 24.00
                  i      30 40.00
TIM     16.78 289 ePc    30 37.00   9.9X
SKO     16.81 276 iP     30 29.00   1.5
        1.1s   238.00nm          5.2mb
                  i      30 32.00
                  i      30 48.00
                  i      33 49.00
                  i      37 20.00
                  i      37 52.00
                  i      39 08.00
                  i      39 36.00
PSZ     17.92 296 iP     30 41.30  -0.1
KRA     18.35 303 ePd    30 44.70  -1.9
        0.7s    64.00nm          4.9mb
      Z  18s     2.70um          5.9Msz
      E  18s     4.30um
                  i      30 46.80
                  i      30 51.20
                  eS     34 18.00
UZD     18.66 292 iP     30 52.30   1.8
SRO     18.96 295 iP     30 55.30   1.2
                  i      31 15.20
ZST     19.82 296 iP     31 04.80   0.9
BRT     20.15 275 P      31 06.80  -0.7
VKA     20.34 296 iPd    31 10.70   1.2
        5.5s   821.00nm          5.3mb X
                  i      31 23.40  57kmX
                  i      34 58.50
ASW     20.50 211 iPd    31 12.00   0.8
                  eS     35 04.00
KSP     20.80 304 iP     31 14.00  -0.1
        1.1s    79.00nm          5.0mb
                  i      31 14.90   3kmX
                  i      31 28.90
                  e      35 08.00
                  e      37 43.00
ROI     20.95 272 P      31 16.20   0.4
TDS     21.10 272 P      31 17.40   0.1
CSI     21.10 272 P      31 16.90  -0.4
MMN     21.29 273 P      31 18.60  -0.6
CZI     21.38 271 P      31 19.20  -0.9
MGR     21.55 274 P      31 21.90   0.1
SGO     21.62 275 P      31 22.90   0.4
NUR     21.67 333 iP     31 23.10   0.3
        1.0s    56.00nm          4.9mb
                  i      31 28.00  18km
                  e      35 40.00
PRU     21.74 301 P      31 23.50  -0.1
        1.3s    34.00nm          4.6mb
      Z  14s     1.90um          4.7MszX
      N  17s     3.70um
      E  17s     1.60um
                  e      31 29.00  20km
                  PP     31 54.50
                  eS     35 28.00
SOI     21.81 268 P      31 23.70  -0.7
QUE     21.99 116 eP     31 26.80   0.3
DUI     22.00 278 P      31 29.50   3.1X
TRI     22.00 289 ePc    31 26.30   0.0
                  e(S)   35 32.00
KHC     22.24 298 iP     31 29.00   0.3
        1.0s    35.50nm          4.8mb
      Z  20s     1.70um          4.5Msz
      N  16s     0.70um
      E  16s     2.00um
                  e      31 33.50  16km
                  e      32 03.50
                  S      35 38.00
BRG     22.26 303 iP     31 29.70   0.9
        1.4s    95.00nm          5.1mb
                  i      31 43.40  58kmX
                  i      32 01.80
                  eS     35 40.00
KBA     22.28 293 iPc    31 29.90   0.7
        0.9s   119.00nm          5.3mb
                  i      31 40.40  40kmX
KAF     22.42 338 eP     31 29.70  -0.6
```

04d 06h

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RFI     22.42 277 P      31 32.50   2.0
        0.1s   140.90nm          6.4mb X
SDI     22.46 279 P      31 33.10   2.1
AQU     22.64 280 P      31 34.70   2.0
ARV     22.79 283 P      31 35.50   1.4
CLL     22.93 304 iPc    31 35.90   0.5
        1.2s   145.00nm          5.4mb
                eS       35 47.00
ASS     23.05 282 P      31 38.60   1.8
RSM     23.08 285 P      31 39.20   2.3
MNS     23.16 281 P      31 38.59   0.8
        0.4s     6.40nm          4.5mb
RDP     23.25 279 P      31 42.25   3.5X
        0.3s    31.40nm          5.3mb
RMP     23.25 279 P      31 42.70   4.0X
WTTA    23.44 293 iPc    31 40.90   0.2
        0.9s   173.00nm          5.6mb
                i        31 51.40  40kmX
                i        35 26.60
CRE     23.48 284 P      31 43.70   2.7
SFI     23.51 285 P      31 43.10   2.0
PGD     23.61 285 P      31 44.40   2.1
MOX     23.69 302 eP+    31 43.50   0.7
        2.0s    53.00nm          4.7mb
      Z  15s     1.60um          4.6MszX
      N  21s     3.40um
                eS       36 04.00
FUR     23.70 295 eP     31 44.00   1.0
GRF     23.83 299 ePc    31 45.60   1.4
        1.8s   128.00nm          5.2mb
OGA     23.87 292 iPc    31 45.50   0.7
        1.5s   175.00nm          5.4mb
UPP     23.87 326 iP     31 44.70   0.3
                iS       36 04.00
KSH     24.18  86 P      31 50.00   2.2
MAO     24.26 281 P      31 49.80   1.4
MME     24.30 286 P      31 51.50   2.4
BDI     24.39 285 P      31 51.30   1.5
COP     24.41 314 iPd    31 52.10   2.4
        0.8s    74.63nm          5.3mb
PII     24.49 285 P      31 52.90   2.3
MDI     24.83 290 P      31 54.50   0.6
BOB     25.12 287 P      31 58.50   1.8
HFS     25.68 324 eP     32 01.60  -0.2
        0.6s    32.70nm          5.2mb
      Z  18s     2.64um          4.8Msz
                LR       42 04.00
PCP     25.78 287 P      32 02.64  -0.3
PGF     25.80 282 eP     32 03.20   0.0
        1.0s    24.00nm          4.8mb
CKI     25.99 287 P      32 07.40   2.6
        1.0s    40.40nm          5.0mb
ORX     26.05 290 P      32 03.66  -1.9
FIN     26.07 286 P      32 04.48  -1.1
ROB     26.30 287 P      32 09.00   1.3
IMI     26.35 286 P      32 07.15  -1.0
CDF     26.37 296 eP     32 07.20  -1.2
        1.0s    20.00nm          4.7mb
BNS     26.52 302 iPc    32 10.80   1.2
RSP     26.61 289 P      32 08.79  -1.9
ENR     26.63 287 P      32 09.82  -1.0
BHB     26.65 288 P      32 08.18  -2.7
SBF     26.68 286 eP     32 10.80  -0.4
        0.8s    52.40nm          5.2mb
STV     26.69 287 P      32 09.71  -1.7
BSF     26.71 295 eP     32 10.90  -0.7
        0.6s     9.00nm          4.6mb
SOD     26.78 345 iP     32 12.00   0.2
                i        32 18.10  21km
PZZ     26.81 287 P      32 09.41  -3.1X
WTS     26.84 304 eP     32 15.00   2.5
        0.9s    38.00nm          5.0mb
LPG     26.93 290 eP     32 13.30  -0.4
        0.8s    14.80nm          4.7mb
LPL     26.94 290 eP     32 13.50  -0.3
        1.2s    65.45nm          5.2mb
RRL     26.98 288 P      32 13.41  -0.7
HAU     27.01 295 eP     32 12.90  -1.2
        1.0s    32.00nm          4.9mb
      Z  20s     0.88um          4.3Msz
BNI     27.03 289 P      32 14.50  -0.1
KLL     27.05 301 ePc    32 15.80   1.3
WLF     27.12 299 P      32 15.00   0.0
NB2     27.19 325 P      32 14.60  -1.1
        0.9s     9.50nm          4.5mb
MEM     27.24 301 Pc     32 17.80   1.6
FRF     27.29 285 eP     32 16.30  -0.5
        0.8s    18.80nm          4.8mb
ENN     27.30 301 eP     32 18.00   1.3
        1.0s    33.00nm          5.0mb
KONO    27.30 321 eP     32 14.90  -1.8
LRG     27.52 285 eP     32 18.40  -0.4
        0.8s    18.80nm          4.8mb
      Z  20s     0.82um          4.3Msz
DBN     27.86 304 eP     32 26.00   4.2X
      Z  16s     0.70um          4.3MszX
                eS       37 32.00
CDR     27.90 286 ePd    32 25.30   3.0X
DOU     28.13 300 P      32 23.00  -1.3
                S        37 11.00
LBF     28.68 293 eP     32 27.80  -1.5
        0.8s    21.50nm          4.9mb
LOR     28.73 294 eP     32 28.40  -1.4
        0.8s     9.40nm          4.6mb
      Z  20s     0.75um          4.3Msz
SMF     28.81 292 eP     32 29.50  -0.9
        0.8s    12.10nm          4.7mb
KEV     28.82 348 iP     32 33.20   2.9
SSF     28.99 293 eP     32 30.80  -1.3
        1.0s    20.00nm          4.8mb
AVF     29.13 293 eP     32 32.30  -0.9
        1.0s    48.00nm          5.2mb
BER     29.56 321 eP     32 38.00   1.0
MAF     29.73 292 eP     32 38.20  -0.6
        0.8s    13.45nm          4.8mb
TCF     29.97 292 eP     32 40.30  -0.6
        1.0s    16.00nm          4.8mb
NDI     30.00 106 iPc    32 41.50   0.2
CAF     30.29 289 eP     32 43.30  -0.4
        0.8s     8.05nm          4.6mb
LSF     30.44 292 eP     32 43.90  -1.1
        1.0s    22.00nm          5.0mb
RJF     30.60 290 eP     32 46.30  -0.1
        1.0s    16.00nm          4.8mb
      Z  20s     0.95um          4.4Msz
LDF     31.28 297 eP     32 51.50  -0.8
        0.8s    10.75nm          4.8mb
FLN     31.50 297 eP     32 53.20  -1.1
        0.9s    19.65nm          5.0mb
WMO     31.58  72 Pc     32 55.50   0.3
        0.8s   100.00nm          5.8mb
                pP       32 59.00  12km
                PP       33 56.50
                eS       38 07.00
GRR     31.78 297 eP     32 55.70  -1.1
        0.8s    28.20nm          5.2mb
LPF     31.95 296 eP     32 57.10  -1.1
        1.1s    34.20nm          5.2mb
EKA     33.03 310 Pd     33 04.60  -2.9
        0.8s     7.60nm          4.7mb
POO     34.66 124 iPd    33 22.40   0.3
ECP     34.97 304 eP     33 23.60  -0.7
DMU     35.20 307 eP     33 26.20  -0.1
ECB     35.21 304 eP     33 24.30  -2.0
DCN     35.44 306 eP     33 28.30   0.0
VAL     37.37 304 eP     33 34.60 -10.0X
MAL     37.43 278 eP     33 46.00   0.8
                iPP      35 18.00
                eS       39 32.00
HYB     38.45 120 eP     33 54.00  -0.1
        1.0s    40.00nm          5.1mb
GBA     40.63 125 Pc     34 11.60  -0.5
        0.8s    20.80nm          4.9mb
IRK     40.87  55 eP     34 16.00   2.3
                e        35 55.00 555kmX
AKU     41.03 326 e(P)   34 17.80   3.0X
        0.9s    20.17nm          4.9mb
                i        35 59.80 581kmX
GTA     41.57  75 Pc     34 20.40   0.6
        1.0s    20.00nm          4.8mb
      Z  12s     2.20um          5.3MszX
      E  12s     2.00um
                pP       34 26.40  20km
                sP       34 30.40
                PP       36 02.80
SHL     42.44  98 iP     34 26.70  -0.4
KOD     43.31 128 eP     34 34.00  -0.4
LZH     45.86  77 iPc    34 55.50   0.9
        1.5s    74.00nm          5.4mb
      Z  20s     3.16um          5.3Msz
      N  10s     1.19um
                pP       35 02.00  22km
                PP       36 43.00
                eS       41 38.00
                sS       41 48.00
                SS       44 53.00
BTO     48.26  69 P      35 14.00   0.7
      N  11s     1.10um
      E  11s     0.70um
                ePP      37 09.50
CD2     48.31  83 P      35 14.40   0.7
        1.0s    30.00nm          5.3mb
                S        42 15.00
                sS       42 22.00
HHC     49.22  68 eP     35 21.40   0.7
        1.2s    40.00nm          5.3mb
      Z  16s     2.10um          5.2MszX
      N  10s     1.10um
      E  11s     0.50um
                pP       35 28.00  22km
                PP       37 19.00
                S        42 29.00
                ScS      45 09.00
XAN     50.50  77 Pc     35 30.20  -0.3
      N  11s     1.70um
      E  14s     1.37um
                pP       35 37.50  24km
                sP       35 39.00
KMI     50.71  90 Pc     35 31.00  -1.4
      Z  22s     1.60um          5.0Msz
                pP       35 37.50  22km
                S        42 50.00
TIY     51.23  71 Pc     35 35.00  -1.0
        1.0s    30.00nm          5.2mb
      Z  22s     1.80um          5.1Msz
      N  11s     1.00um
                S        42 57.00
                sS       43 04.00
CHG     51.72  99 ePc    35 39.00  -0.9
        0.7s    31.68nm          5.4mb
CHTO    51.72  99 iP     35 39.10  -0.7
BJI     52.73  67 eP     35 47.00  -0.2
        1.5s    35.00nm          5.1mb
      Z  14s     2.64um          5.4MszX
      N  11s     1.00um
      E  11s     1.07um
                pP       35 54.00  23km
                eS       43 19.00
BDT     52.76 101 iPc    35 44.20  -3.5X
        1.0s   124.20nm          5.8mb
GYA     52.86  86 P      35 47.20  -1.3
        1.2s    30.00nm          5.1mb
      Z  20s     1.80um          5.1Msz
      N  15s     0.40um
      E  15s     1.10um
                S        43 17.00
KHT     54.08 104 eP     35 57.00  -0.3
TIA     55.24  70 eP     36 05.20  -0.5
      Z  25s     1.30um          4.9MszX
      N  11s     0.70um
KIC     56.05 244 P      36 09.40  -2.4
        0.9s    12.00nm          4.9mb
WHN     56.24  78 eP     36 13.50   0.6
        1.0s    20.00nm          5.1mb
      Z  14s     0.80um          5.0MszX
      N  12s     1.00um
      E  14s     0.90um
                pP       36 24.50  37kmX
                eS       44 05.00
SNY     56.80  61 Pc     36 15.00  -1.9
        6.0s   700.00nm          5.9mb X
      Z  16s     4.40um          5.7MszX
      N  10s     0.60um
      E  12s     1.70um
                S        44 08.00
DL2     56.97  65 eP     36 17.00  -1.1
        1.0s   140.00nm          5.9mb
      Z  20s     1.30um          5.0Msz
      E  12s     1.10um
                eS       44 12.00
CN2     57.04  59 P      36 17.60  -0.9
        1.0s    10.00nm          4.8mb
      Z  15s     4.06um          5.6MszX
      N  12s     0.80um
      E  12s     1.16um
                eS       44 13.00
PTZ     57.57 195 iP     36 20.00  -2.5
NJ2     58.65  74 Pd     36 29.50  -0.4
      Z  14s     0.60um          4.9MszX
      E  14s     0.70um
                pP       36 37.00  25km
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MDJ     59.21  56 eP    36 34.50   0.8
      Z  18s     1.09um          5.0Msz
      N  10s     0.87um
      E  12s     1.64um
                   eS    44 34.00
QIZ     59.62  91 eP    36 36.00  -0.8
MTD     59.99 194 iPd   36 37.30  -2.1
KRI     60.42 196 eP    36 24.20 -18.1X
SNG     60.72 108 eP    36 42.50  -1.8
                   e    58 37.00
SSE     60.83  73 Pc    36 44.70  -0.2
        1.0s    37.00nm         5.5mb
      Z  22s     1.00um          4.9Msz
      N  12s     0.30um
      E  12s     0.30um
                   S    44 58.00
                   sS   45 10.00
MBC     61.18 356 eP    36 46.50  -0.2
        1.0s    13.00nm         5.0mb
FRB     61.67 332 eP    36 49.00  -1.2
PSI     62.75 113 ePc   37 03.50   5.5X
IPM     62.84 110 ePd   36 57.50  -1.1
        1.1s    46.80nm         5.5mb
BUL     63.84 196 iPd   37 03.40  -1.8
BRW     65.64   7 eP    37 16.70   0.6
KGM     66.26 110 eP    37 19.50  -1.3
SCH     66.75 324 eP    37 22.00  -1.5
BFT     68.97 194 iPc   37 37.00  -0.8
        1.0s    20.00nm         5.2mb
MAT     69.17  59 (P)   37 37.00  -1.9
        1.3s    25.00nm         5.2mb
      Z  20s     1.06um          5.1Msz
                   eSg   46 45.00
SLR     69.34 195 iPc   37 39.50  -0.5
INK     69.62 359 eP    37 41.00   0.0
        1.3s    43.00nm         5.4mb
KSR     69.75 197 eP    37 41.50  -1.0
        1.0s    15.00nm         5.1mb
PRY     70.66 196 eP    37 47.00  -1.1
ANM     70.89  13 P     37 49.00   0.1
IMA     71.01   8 eP    37 50.40   0.7
        1.1s    27.50nm         5.3mb
SEK     71.98 195 eP    37 55.50  -0.5
        0.8s     7.46nm         4.8mb
FBA     72.65   5 eP    38 00.10   0.8
FRS     73.84 197 iPd   38 04.70  -1.9
        0.7s    13.70nm         5.1mb
YKA     74.08 350 eP    38 06.90  -0.8
        1.2s    11.10nm         4.8mb
HVD     74.63 197 eP    37 52.70 -1B.7X
        1.2s    31.25nm
TOA     75.53   5 eP    38 17.10   1.0
SVW     75.61  10 eP    38 17.60   1.0
PMR     75.82   6 P     38 18.00   0.3
        1.5s    83.78nm         5.6mb
RSO     76.58   9 P     38 21.90  -0.4
SLKM    76.79   7 P     38 22.80  -0.4
BALM    76.80   3 P     38 23.30  -0.1
FFC     79.02 341 iPc   38 35.50  -0.1
        0.8s    14.00nm         5.0mb
KDC     79.27   9 eP    38 37.60   0.8
CLE     83.17 322 iP    38 58.20   0.5
CBN     83.75 317 eP    39 01.00   0.3
SES     85.08 344 ePc   39 07.20   0.0
        1.2s    61.00nm         5.7mb
PNT     87.57 349 eP    39 19.00  -0.4
NEW     B8.23 348 P     39 23.90   1.3
        1.0s    40.00nm         5.7mb
RSSD    89.27 338 P     39 29.00   1.0
        1.2s    14.58nm         5.1mb
BW06    91.97 341 P     39 40.20  -0.3
        1.1s     3.77nm         4.7mb
GOL     93.73 337 P     39 49.00   0.3
        1.0s     2.50nm         4.6mb
PV09    95.90 339 P     40 00.00   1.3
TNP     98.13 345 P     40 10.10   1.4
        1.1s     5.84nm         5.1mb
      S.D. = 1.3  on 202 of 229 obs.
-----------------------------------------
   JUL  04, 1991  06h 54m 16.18± 0.65s
    8.439 S ± 4.9km  111.021 E ± 6.0km
   DEPTH = 114.2 ±  5.8 km
   5.3mb ( 36 obs.)
 JAVA                                (277)

TRT      1.76  66 iPc   54 47.50   0.8
                  eS    55 35.50
KGM     12.92 323 ePc   57 22.60   5.9X
        1.0s   119.10nm         5.4mb
                   e    57 35.70
TSM     14.38  29 ePd   57 39.50   3.9X
NANU    14.70 163 eP    57 32.00  -7.6X
IPM     16.33 322 ePc   58 02.20   2.0
        0.7s    25.40nm         4.6mb
PSI     16.37 312 eP    58 10.00   9.4X
MNI     16.92  55 ePc   58 08.50   1.1
AAI     17.71  76 ePc   58 17.50   0.3
KNA     18.80 114 iPd   58 27.00  -2.6
PPR     19.66  23 iPd   58 38.50  -0.1
MRWA    21.19 168 eP    58 56.00   1.9
CGP     21.62  39 eP    59 01.00   2.7
        1.0s    69.00nm         5.0mb
MAP     22.67  35 iPc   59 11.00   2.4
        1.0s   138.00nm         5.3mb
BAL     22.69 167 eP    59 08.00  -0.7
                   e    59 23.00
                   eS   03 13.00
WARB    23.06 142 iPc   59 12.00  -0.4
                   e    59 29.00
                   eS   03 20.00
NNT     23.71 332 eP    59 18.30  -0.5
KLB     23.88 166 eP    59 20.00  -0.3
                   e    59 37.00
                   eS   03 40.00
MUN     23.91 169 eP    59 20.50  -0.1
                   e    59 38.00
                   eS   03 40.00
PLP     23.92  36 ePc   59 22.00   1.2
        1.2s    90.00nm         5.1mb
PGP     23.92  24 ePc   59 23.50   2.7
        1.0s   317.00nm         5.7mb
COOL    24.25 158 eP    59 21.00  -2.9
        0.3s    11.00nm         4.8mb
                   e    59 39.00
                   eS   03 40.00
KHT     26.16 332 eP    59 48.50   6.8X
ASPA    26.63 127 iPd   59 44.80  -1.3
        0.8s   124.10nm         5.5mb
                   ipP  00 17.50 158kmX
                   eS   04 42.70
FORR    27.41 147 eP    59 50.70  -2.3
        0.3s    13.00nm         5.0mb
                   e    00 24.00
                   eS   05 00.00
BDT     28.15 335 eP    59 57.00  -2.7
CHG     29.58 336 eP    00 15.00   2.4
CHTO    29.58 336 eP    00 12.30  -0.3
        0.6s     5.19nm         4.4mb
QIS     30.12 117 iPc   00 15.70  -1.7
GYA     34.95 353 P     01 01.00   1.8
        1.0s    20.00nm         4.9mb
                   PcP  03 30.20
KOD     38.21 298 eP    01 26.40  -0.7
SHL     38.59 332 iP    01 29.50  -0.5
                   iS   07 26.60
WHN     38.89   5 Pd    01 34.00   1.9
        1.0s    30.00nm         5.1mb
CMS     39.67 130 iPd   01 38.90   0.2
CD2     39.74 350 P     01 39.80   0.6
        0.6s    30.00nm         5.3mb
                   S    07 37.00
GBA     39.89 303 Pc    01 39.90  -0.7
        0.6s    10.10nm         4.8mb
RMQ     40.01 121 eP    01 42.60   1.0
                   e    03 12.60
GUMO    40.10  57 ePd   01 40.80  -1.5
        0.7s   101.65nm         5.7mb
PJG     40.10  57 eP    01 40.70  -1.6
GUA     40.11  57 eP    01 41.70  -0.7
        0.6s    64.00nm         5.6mb
BFD     40.42 140 eP    01 43.00  -1.7
SSE     40.50  13 Pc    01 46.50   1.2
        1.0s    87.00nm         5.5mb
NJ2     40.95  10 Pc    01 50.50   1.4
        0.7s   100.00nm         5.7mb
                   PcP  03 48.60
XAN     42.29 357 Pc    02 00.50   0.4
        0.6s    40.00nm         5.4mb
LSA     42.47 334 Pc    02 02.50   0.4
TOO     42.56 138 iPc   02 04.60   2.3
BWA     42.97 133 eP    02 07.20   1.5
BRS     43.70 121 iPc   02 13.50   1.8
                   i(pP) 03 08.00 261kmX
CAN     43.B1 133 eP    02 12.40  -0.1
                   e    03 58.30
COO     44.03 126 iPd   02 16.60   2.3
        1.0s    29.00nm         5.0mb
CNB     44.07 133 eP    02 15.00   0.4
TIA     44.78   7 Pc    02 20.30   0.2
                   PcP  04 01.60
                   ScP  07 45.10
LZH     44.80 352 Pc    02 21.50   1.0
        2.0s    85.00nm         5.2mb
      Z  20s     0.94um          4.7Msz
      N  16s     2.63um
      E  14s     1.37um
                   S    08 52.00
POO     45.42 306 eP    02 23.50  -2.0
TIY     45.93   2 eP    02 28.00  -1.2
        1.0s    50.00nm         5.2mb
                   S    09 06.00
DL2     48.12  11 eP    02 45.00  -1.3
        1.0s   110.00nm         5.6mb
                   PcP  04 12.60
BJI     48.47   5 eP    02 49.00   0.1
        1.0s    60.00nm         5.4mb
                   PcP  04 14.50
GTA     48.73 348 iPc   02 52.00   0.8
        0.8s    20.00nm         5.0mb
                   pP   03 09.80  71kmX
                   PcP  04 15.60
                   ScP  08 02.00
                   ScS  12 33.60
BTO     48.80 359 P     02 51.00  -0.6
HHC     49.04   1 eP    02 54.00   0.5
        1.0s    50.00nm         5.3mb
NDI     49.26 320 e(P)  02 53.60  -1.6
SNY     51.33  12 Pc    03 09.80  -1.0
        1.0s    80.00nm         5.6mb
MTMJ    51.37  28 P     03 10.10  -1.2
CHJJ    51.49  29 P     03 09.50  -2.6
MAT     51.52  28 iPc   03 10.50  -1.8
        1.7s   176.92nm         5.7mb
KAKJ    52.19  30 P     03 14.80  -2.5
NIIJ    52.45  28 eP    03 17.20  -2.1
CN2     53.62  13 iPc   03 26.40  -1.3
        1.0s    55.00nm         5.5mb
                   epP  03 45.00  73kmX
                   PcP  04 32.60
YAMJ    53.69  28 P     03 27.70  -0.6
DZM     54.88 111 iPc   03 38.00   0.5
OFUJ    55.18  29 P     03 38.10  -1.1
WMQ     56.15 340 P     03 45.50  -0.8
        1.0s    50.00nm         5.5mb
                   PcP  04 37.50
                   ScP  08 33.00
                   S    11 26.50
                   ScS  13 23.50
QUE     57.15 314 eP    03 52.10  -1.5
                   e(S) 11 36.70
MRRJ    57.58  26 eP    03 54.70  -1.5
HOOJ    58.54  28 eP    04 02.30  -0.6
ASAJ    59.63  26 eP    04 09.40  -1.0
KUSJ    59.76  28 eP    04 10.20  -1.0
IRK     60.74 355 eP    04 17.00  -0.B
                   sP   18 54.80
MAIO    65.71 316 iPc   04 50.00  -0.9
IR4     71.35 311 iPc   05 26.00   0.1
IR5     71.58 311 eP    05 27.50   0.2
IR1     71.59 312 iPc   05 27.50   0.2
YAK     71.73   9 iPc+  05 27.00  -0.4
                   epP  05 53.00 101kmX
                   iS   14 36.00
                   eScS 15 15.00
IR7     71.77 312 iPc   05 28.50   0.2
SLY     75.55 310 eP    05 50.00   0.0
MSL     77.61 310 eP    06 00.40  -1.1
PTZ     78.03 257 iP    06 04.70   0.4
LSZ     80.95 256 iP    06 21.80   1.8
                   i    06 50.00
ADK     85.87  36 P     06 44.20   0.1
        0.8s    82.76nm         5.7mb
ELL     87.94 307 iP    06 55.40   0.7
OBN     88.09 326 iPc+  06 55.80   1.0
        1.6s   272.00nm         6.0mb
      Z  20s     0.60um          5.0Msz
                   e    07 22.00
                   e    07 27.00
KAF     94.92 332 iP    07 26.30   0.0
        0.4s     5.60nm         5.3mb
NUR     95.49 330 iP    07 29.40   0.5
```

04d 07h

0.7s 14.70nm 5.5mb
SOD 95.57 337 eP 07 33.00 3.8X
KEV 95.78 340 eP 07 28.00 -2.2
SDN 96.01 35 P 07 31.50 0.1
IMA 99.81 24 P 07 47.50 -1.1
HFS 100.92 330 ePdiff07 53.70 0.2
0.5s 1.80nm 5.0mb
NB2 102.09 331 Pdiff 07 58.60 -0.1
0.8s 3.10nm 5.1mb
MBC 107.01 11 ePdiff08 21.00 0.8
MBC 107.01 11 ePKP 12 30.00 0.7
1.0s 5.00nm
INK 107.07 21 ePdiff08 20.00 -0.6
INK 107.07 21 ePKP 12 28.00 -1.6
YKA 116.77 22 ePKP 12 48.10 -0.2
0.6s 3.10nm
NEW 123.34 37 PKP 13 03.00 1.7
FFC 126.88 23 ePKP 13 08.00 0.1
0.6s 7.00nm
LRM 127.32 37 ePKP 13 10.30 0.9
TNP 127.55 48 PKP 13 11.70 1.6
MSU 131.01 45 PKP 13 18.00 1.4
SCH 133.72 358 ePKP 13 22.00 1.0
GOL 135.00 40 PKP 13 25.00 0.8
ANMO 136.73 47 PKP 13 29.00 1.5
BNH 143.93 3 PKP 13 38.50 -1.4
FVM 144.78 30 PKP 13 40.80 -0.7
WVLY 145.07 12 PKP 13 42.30 0.4
CLE 145.26 17 iPKP 13 43.20 1.0
POW 145.79 33 PKP 13 44.00 0.7
OLY 146.11 34 PKP 13 45.00 1.2
LST 146.26 31 PKP 13 45.50 1.5
SOB1 146.99 239 iPKPc 13 49.50 3.6X
TBR 147.10 7 PKP 13 48.20 3.0X
LVNJ 147.36 8 PKP 13 48.50 2.9X
BAO 148.31 221 ePKPd 13 54.00 6.0X
NA2 149.40 14 PKP 13 54.30 5.4X
CBN 149.41 13 ePKP 13 50.00 1.1
BLA 149.53 18 PKP 13 54.20 5.0X
PRM 151.66 24 PKP 14 00.00 7.5X
LHS 151.89 21 PKP 14 00.00 7.2X
JSC 151.91 22 PKP 13 54.50 1.7
CCH 154.19 186 PKP 14 01.00 4.2X
CNCB 154.89 182 PKP 14 01.00 2.9X
LPB 155.17 182 PKP 14 01.00 2.7X
ZOBO 155.44 182 PKP 14 01.00 2.1X
Z 20s 0.35um 5.2Msz
LR 53 26.00
S.D. = 1.3 on 114 of 132 obs.

JUL 04, 1991 07h 08m 31.90± 0.17s
8.146 S ± 3.1km 124.689 E ± 4.6km
DEPTH = 29.1km (6 depth phases)
5.4mb (48 obs.) 4.8Msz (8 obs.)
TIMOR (289)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 20S, 43C
Centroid Location:
Origin Time 07:08:37.8 0.7
Lat 7.76S 0.05 Lon 124.74E 0.04
Dep 44.3 2.8 Half-duration 2.5
Moment Tensor; Scale 10**17 Nm
Mrr= 2.86 0.12 Mtt=-2.47 0.13
Mff=-0.39 0.22 Mrt=-1.64 0.25
Mrf=-0.80 0.17 Mtf=-1.42 0.12
Principal Axes:
T Val= 3.36 Plg=74 Azm=155
N 0.33 1 63
P -3.70 16 333
Best Double Couple:Mo=3.5*10**17
NP1:Strike= 62 Dip=29 Slip= 89
NP2: 244 61 91

AAI 5.64 38 eP 09 57.00 1.1
MTN 7.87 127 iPc 10 26.20 -1.1
MNI 9.53 1 eP 10 51.50 1.2
TRT 11.95 271 ePc 11 27.50 4.2X
TSM 14.10 331 eP 11 52.00 0.1
WB2 15.00 142 iPd 11 58.00 -5.7X
0.8s 626.70nm 6.0mb
e 14 17.00
eS 14 33.80
DAV 15.16 3 eP 12 04.00 -1.7
CGP 16.49 0 ePc 12 24.50 1.6
1.2s 11.20nm 3.9mb X
NANU 16.82 211 eP 12 25.00 -2.0

ASPA 17.78 151 iPd 12 37.00 -2.0
0.6s 237.20nm 5.5mb
Z 20s 18.20um 4.2MszX
i 12 42.80
eS 15 40.00
WARB 18.03 174 eP 12 41.00 -1.2
0.4s 51.00nm 5.0mb
MAP 18.36 358 eP 12 49.00 2.8
MNDI 18.92 85 eP 12 55.00 1.6
OIS 18.98 132 iPd 12 51.50 -2.3
i 16 11.00
PLP 19.19 1 ePd 12 59.50 3.3X
1.2s 48.00nm 4.6mb
PGP 21.82 350 eP 13 28.00 4.1X
eS 13 32.00
LAT 22.17 88 eP 13 37.80 10.4X
PMG 22.24 95 eP 13 29.00 1.0
MRWA 22.50 200 iPc 13 30.20 -0.3
FORR 22.81 172 eP 13 32.90 -0.6
0.4s 80.00nm 5.6mb
COOL 22.86 188 eP 13 33.30 -0.8
0.7s 82.00nm 5.3mb
BAL 23.56 197 iPc 13 41.00 0.2
0.6s 208.00nm 5.8mb
KGM 23.58 294 ePd 13 44.40 3.2X
1.1s 136.90nm 5.4mb
e 14 16.30 160kmX
CTAO 24.01 122 iPc 13 41.50 -3.8X
1.0s 305.00nm 5.8mb
i(PP) 14 44.00
iS 18 00.00
KLB 24.21 195 eP 13 47.10 0.0
0.5s 37.00nm 5.2mb
BAG 24.74 351 eP 13 53.00 0.5
eS 18 16.00
MUN 24.99 197 eP 13 54.10 -0.6
1.0s 160.00nm 5.6mb
NWAO 25.61 195 eP 14 00.00 -0.5
0.6s 30.00nm 5.1mb
QLP 26.09 137 eP 14 05.00 0.0
i 14 21.40 70kmX
i 18 58.00
IPM 26.78 297 ePd 14 13.00 1.6
1.2s 116.30nm 5.4mb
RKG 27.23 194 eP 14 16.00 0.6
0.6s 106.00nm 5.7mb
RAB 27.60 83 e(P) 14 16.00 -2.9X
PSI 27.86 292 eP 14 30.00 8.7X
STK 28.37 149 iPc 14 25.90 0.1
1.1s 50.60nm 5.1mb
eS 19 48.70
SNG 28.42 302 eP 14 27.50 1.2
e 19 25.90
RMQ 29.24 132 iPd 14 34.00 0.4
0.4s 32.00nm 5.4mb
i 15 21.00 236kmX
GUA 29.45 43 eP 14 34.50 -1.1
1.1s 162.03nm 5.7mb
GUMO 29.45 43 eP 14 33.80 -1.8
1.5s 324.32nm 5.9mb
PJG 29.45 43 eP 14 34.20 -1.4
ADE 29.63 156 eP- 14 39.00 1.9
CMS 30.45 143 eP 14 44.00 -0.4
1.0s 46.00nm 5.2mb
i 15 18.80 166kmX
e 20 24.00
QIZ 30.71 332 P 14 49.50 2.7
BRS 32.75 129 iPc 15 03.50 -1.1
i(pP) 15 53.00 245kmX
e$ 20 33.00
GZH 32.97 341 Pc 15 11.00 4.6X
1.0s 40.00nm 5.3mb
Z 20s 1.50um 4.7Msz
S 20 24.00
BFD 33.13 153 iPd 15 07.20 -0.6
0.2s 78.00nm 6.3mb
i 15 16.40 32km
i 16 16.90
QZH 33.42 350 Pc 15 14.00 3.7X
N 14s 1.03um
S 20 32.00
COO 33.83 135 eP 15 16.00 2.0
BWA 34.06 144 eP 15 19.10 3.2X
KHT 34.48 311 eP 15 21.50 1.9
HNR 34.86 95 eP 15 23.00 0.0
CAN 35.03 144 eP 15 26.40 2.2
CNB 35.24 144 iPd 15 27.60 1.6

1.1s 128.00nm 5.8mb
i 15 31.50 13kmX
RIV 35.34 140 iPc 15 31.90 5.1X
1.0s 8320.00nm 7.6mb X
BDT 35.79 315 iPd 15 29.20 -1.6
1.0s 124.20nm 5.8mb
CHG 36.91 317 ePc 15 41.40 1.2
1.4s 90.12nm 5.4mb
eS 21 22.00
GYA 38.59 334 P 15 55.00 0.6
1.2s 30.00nm 5.0mb
Z 20s 2.30um 5.0Msz
N 18s 1.00um
E 18s 1.50um
PP 17 30.00
S 21 48.00
SSE 39.16 355 Pc 15 57.50 -1.4
1.1s 29.00nm 4.9mb
Z 20s 0.60um 4.4Msz
pP 16 04.00 22km
PP 17 33.00
KMI 39.38 328 Pc 16 03.00 1.9
2.5s 400.00nm 5.7mb
Z 28s 2.80um 4.9MszX
PP 17 39.00
S 21 55.00
WHN 39.73 346 Pd 16 05.50 1.9
1.2s 40.00nm 5.0mb
N 12s 0.80um
S 22 08.00
TAU 39.93 154 eP 16 07.00 1.9
e 22 04.00
NJ2 40.36 352 Pc 16 09.20 0.4
1.0s 60.00nm 5.3mb
Z 28s 1.30um 4.6MszX
PP 17 49.00
DZM 42.47 114 iPc 16 25.90 -0.5
TKSJ 42.83 11 eP 16 29.60 0.6
WKYJ 43.38 13 eP 16 30.00 -3.6X
CD2 43.71 334 eP 16 36.60 0.3
pP 16 44.40 26km
eS 23 03.00
YONJ 43.89 10 P 16 38.90 1.3
XAN 44.54 341 P 16 42.00 -1.0
1.0s 20.00nm 4.9mb
TIA 44.69 351 eP 16 43.20 -0.9
MTMJ 46.17 15 P 16 55.80 -0.1
MAT 46.23 15 eP 16 56.00 -0.3
1.6s 133.33nm 5.6mb
Z 20s 1.06um 4.8Msz
eS 23 39.00
SHL 46.28 317 iP 16 58.50 1.4
KAKJ 46.46 17 P 16 56.60 -1.5
DL2 46.90 357 eP 17 00.00 -1.5
1.0s 80.00nm 5.7mb
Z 40s 1.90um 4.8MszX
E 16s 1.30um
eS 23 47.00
TIY 47.04 347 Pd 17 01.50 -1.3
7.0s 610.00nm 5.7mb X
Z 24s 1.09um 4.7MszX
S 23 57.50
NIIJ 47.10 16 P 17 01.70 -1.4
LZH 48.17 337 P 17 12.00 0.2
2.0s 130.00nm 5.6mb
Z 40s 3.38um 5.0MszX
N 12s 0.73um
E 11s 0.69um
pP 17 20.00 27km
sP 17 26.00
PP 19 02.00
S 24 04.00
ScS 27 04.00
YAMJ 48.25 16 P 17 13.10 0.9
BJI 48.59 351 eP 17 13.50 -1.2
1.2s 20.00nm 5.0mb
eS 24 18.00
OFUJ 49.56 17 P 17 23.20 0.9
LSA 49.56 321 P 17 23.20 0.2
SNY 49.74 359 Pc 17 22.30 -1.2
HHC 50.23 347 P 17 27.00 -0.5
1.2s 20.00nm 5.0mb
Z 28s 1.60um 4.9MszX
N 11s 0.30um
E 16s 0.50um
pP 17 37.00 33km
PP 19 26.00

```
                PcS   22 41.00
                S     24 42.00
BTO   50.35 345 P     17 26.00  -2.5
KOD   50.43 290 eP    17 28.00  -1.7
GBA   51.65 294 Pc    17 38.00  -0.5
      1.0s    25.30nm          5.1mb
CN2   51.71   1 eP    17 37.60  -0.9
      1.2s    27.00nm          5.1mb
    Z  27s     3.33um          5.2MszX
                epP   17 48.00  35km
MSZ   52.17 142 eP    17 41.40  -0.6
HYB   52.19 299 eP    17 41.00  -1.6
      0.8s    78.60nm          5.7mb
MRRJ  52.51  15 eP    17 44.90   0.3
GTA   52.64 336 Pc    17 45.80   0.0
      1.2s    30.00nm          5.1mb
    Z  14s     1.20um          5.1MszX
    E  14s     0.90um
                pP    17 50.40  15kmX
                sP    17 53.40
                PcP   18 58.00
                eS    25 08.00
                ScS   27 33.40
                SS    28 52.00
MDJ   52.70   4 eP    17 46.00   0.0
      1.2s   200.00nm          5.9mb
HOOJ  53.08  17 eP    17 49.80   1.0
THZ   54.06 136 P     17 57.00   0.8
KUSJ  54.16  18 eP    17 56.60  -0.1
ASAJ  54.50  16 eP    17 59.20   0.0
KHZ   54.76 137 P     18 01.00  -0.2
      0.9s   195.00nm          6.1mb
WEL   55.16 135 P     18 04.00  -0.2
MNG   55.41 134 P     18 05.60  -0.4
HBZ   56.49 130 eP    18 14.30   0.5
POO   56.72 298 iPc   18 14.80  -1.0
NDI   58.62 311 eP    18 26.00  -2.9X
WMQ   61.62 330 P     18 48.00  -1.4
      1.4s    50.00nm          5.5mb
                S     27 10.00
QUE   67.22 307 eP    19 25.30  -0.9
MAW   71.99 201 eP    19 55.40   0.9
SBA   72.95 171 iPc   20 02.40   2.4
MAIO  75.37 311 eP    20 15.00   0.1
AFR   83.35 107 eP    21 01.00   2.9X
      1.6s    90.00nm          5.7mb
SLY   86.00 307 ePd   21 11.00  -0.1
BHD   86.40 304 iP    21 13.00  -0.1
MSL   88.03 307 eP    21 21.00   0.1
NVL   89.69 198 ePc   21 30.00   1.8
                ePcP  21 37.00 127kmX
                e     22 03.00
                e     22 16.00
                (S)   31 56.00
                e     32 24.00
                ePS   33 12.00
                e     33 32.00
                eSS   37 41.00
BFT   90.67 244 eP    21 35.00   1.1
      0.8s    22.39nm          5.5mb
PTZ   91.24 256 iP    21 35.70  -0.8
SLR   92.23 244 iPd   21 41.00   0.0
SEK   92.34 241 iPd   21 43.60   2.1
      0.8s    11.19nm          5.3mb
PRY   92.73 242 iPc   21 44.00   0.7
      0.7s     7.50nm          5.2mb
KSR   93.43 243 eP    21 47.00   0.4
      0.7s     7.50nm          5.2mb
HVD   93.73 239 e(P)  21 27.20 -20.7X
FRS   94.05 239 iPd   21 49.60   0.5
      0.8s    18.66nm          5.6mb
LSZ   94.09 254 eP    21 50.00   0.4
MOX  110.83 321 e(PKP)27 23.00  19.2X
YKA  111.06  25 ePKP  27 09.60   5.7X
      0.7s     1.50nm
BSF  114.59 319 ePKP  27 09.80  -1.5
      1.0s    12.00nm
HAU  114.83 319 ePKP  27 10.40  -1.2
      0.8s     5.35nm
    Z  20s     0.22um          4.8Msz
LOR  116.66 319 ePKP  27 14.00  -1.1
      1.2s    11.90nm
    Z  20s     0.20um          4.7Msz
LBF  116.67 319 ePKP  27 14.10  -1.1
      1.2s     8.95nm
SMF  116.86 318 ePKP  27 14.70  -0.8
      1.2s     8.95nm
SSF  116.95 319 ePKP  27 14.60  -1.1
      1.0s    13.00nm
AVF  117.13 319 ePKP  27 14.90  -1.1
      0.8s     4.05nm
BGF  117.54 319 ePKP  27 15.70  -1.1
      1.0s    21.00nm
EKA  117.56 329 PKP   27 17.00   0.5
      1.2s     7.50nm
TCF  118.04 318 ePKP  27 17.00  -0.8
      1.2s    16.35nm
CAF  118.57 317 ePKP  27 18.50  -0.4
      1.2s    20.85nm
RJF  118.82 318 ePKP  27 18.90  -0.4
      1.2s    17.85nm
    Z  20s     0.30um          4.9Msz
LPO  119.24 317 ePKP  27 19.50  -0.6
      1.2s    23.80nm
GRR  119.25 322 ePKP  27 19.20  -0.8
      1.2s    17.85nm
LFF  119.46 317 ePKP  27 19.80  -0.7
      1.2s    17.85nm
MFF  119.46 319 ePKP  27 19.80  -0.6
      0.8s     5.35nm
LPF  119.50 321 ePKP  27 20.40   0.0
      1.2s    23.80nm
EPF  120.35 315 ePKP  27 21.50  -0.8
      1.2s     8.95nm
FFC  120.58  29 ePKP  27 21.00  -1.3
      1.4s    28.00nm
LIC  130.10 271 PKP   27 42.00   0.2
    Z  22s     0.69um          5.3Msz
CBN  144.05  30 ePKP  28 04.00  -2.8X
ANT  145.07 155 ePKP  28 09.50   0.6
SLA  145.85 163 ePKPc 28 11.00   0.5
VAO  147.99 195 ePKP  28 18.10   4.3X
NNA  150.70 133 iPKP  28 24.20   6.0X
      1.0s    49.00nm
ARE  150.77 147 iPKPd 28 20.50   2.0
CNCB 152.22 153 PKP   28 22.80   1.8
LPB  152.41 153 ePKP  28 22.00   0.9
      1.0s    80.00nm
                i     28 29.00
                PP    32 12.00
                LR    22 48.00
ZOBO 152.63 152 PKP   28 23.00   1.4
      1.1s   103.83nm
                LR    22 16.00
BAO  155.29 197 ePKPd 28 26.50   1.8
     S.D. = 1.2  on 130 of 152 obs.
-----------------------------------
?  JUL  04, 1991  07h 51m 22.50± 4.90s
   30.151 N ±45.7km  113.598 W ±11.6km
   DEPTH =  10.0km  (geophysicist)
   3.8mb (  1 obs.)
 GULF OF CALIFORNIA                ( 49)

GLA    3.08 340 eP    52 12.00  -0.1
BAR    3.64 315 eP    52 20.00  -0.1
PLM    4.23 320 e(P)  52 33.00   4.3X
TPC    4.46 333 eP    52 54.00  22.3X
PEC    4.80 322 eP    53 00.00  23.4X
RVR    4.99 321 eP    53 51.00  71.7X
MWC    5.55 318 eP    53 08.00  20.7X
SBB    5.76 323 eP    53 11.00  20.8X
GSC    5.80 333 eP    52 15.00 -35.8X
CLC    6.57 330 eP    53 20.00  18.4X
ISA    6.86 325 eP    53 40.00  34.4X
ANMO   7.69  50 eP    53 17.00  -0.4
MSU    8.42   8 eP    53 27.00  -0.7
TNP    8.46 340 eP    53 28.50   0.3
RSSD  15.87  26 e(P)  55 08.80   1.1
      1.2s     8.02nm          3.8mb
     S.D. = 0.8  on   6 of  15 obs.
-----------------------------------
?  JUL  04, 1991  08h 27m 04.47± 0.99s
   44.368 N ± 9.7km    7.348 E ± 8.9km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                    (545)
     ML 1.6 (GEN).

STV    0.13 188 P     27 07.54  -0.1
                S     27 09.48
ENR    0.15 160 P     27 08.16   0.1
                S     27 10.40
PZZ    0.22 308 P     27 09.39   0.0
                S     27 12.77
ROB    0.38 101 P     27 12.31   0.0
                S     27 18.72
     S.D. = 0.1  on   4 of   4 obs.
-----------------------------------
*  JUL  04, 1991  08h 45m 39.75± 2.01s
   5.801 S ± 7.5km  150.197 E ±17.2km
   DEPTH = 129.9 ± 20.0 km
   4.7mb (  6 obs.)
 NEW BRITAIN REGION                (192)

LAT    3.29 255 eP    46 32.90   2.1
PMG    4.68 220 eP    46 47.50  -2.1
QIS   17.91 214 iPd   49 41.40  -0.8
GUA   19.92 345 eP    50 04.00   0.4
      0.4s    67.80nm          5.4mb
GUMO  19.98 345 eP    50 04.00  -0.1
      0.6s    58.36nm          5.1mb
PJG   19.98 345 eP    50 04.20   0.0
MTN   20.06 248 iPd   50 03.30  -1.7
RMO   20.62 184 eP    50 11.00   0.4
                i     50 25.30
BRS   21.61 174 iPc   50 21.00   0.5
DZM   22.55 137 iPc   50 29.90   0.1
ASPA  23.70 220 eP    50 42.00   1.2
      0.4s    15.50nm          4.8mb
STK   27.17 196 eP    51 11.80  -1.1
      0.6s     3.60nm          4.2mb
TAU   37.04 184 eP    52 40.00   1.4
MAT   43.59 346 (P)   53 31.00  -1.6
      0.7s     7.53nm          4.5mb
YAMJ  44.76 349 P     53 41.90   0.0
OFUJ  45.35 351 P     53 45.90  -0.6
CHTO  56.10 297 e(P)  55 10.00   1.9
      1.0s     2.50nm          4.1mb
     S.D. = 1.4  on  17 of  17 obs.
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   JUL  04, 1991  08h 47m 10.69± 0.29s
   47.542 N ± 3.1km    5.359 E ± 2.6km
   DEPTH =   9.2 ±  2.0 km
 FRANCE                            (538)
     ML 3.7 (LDG). MD 3.5 (UCC).

HAU    0.81  55 Pg    47 27.20   0.7
                Sg    47 37.00
BSF    1.01  73 Pn    47 29.40  -0.6
LOR    1.05 256 Pn    47 32.20   1.5
                Pg    47 34.40
                Sg    47 49.00
LBF    1.09 240 Pn    47 32.40   1.1
                Pg    47 35.20
SSF    1.35 250 Pn    47 36.20   0.6
                Pg    47 41.60
SMF    1.37 230 Pn    47 35.80  -0.1
                Pg    47 42.20
CDF    1.55  55 Pn    47 36.50  -2.1
                Pg    47 42.80
                Sg    48 01.60
AVF    1.56 242 Pn    47 39.00   0.4
                Pg    47 45.40
                Sg    48 05.00
BGF    1.98 241 Pn    47 45.00   0.3
                Pg    47 51.00
DIX    2.03 135 ePc   47 46.60   0.9
ZLA    2.06  91 ePc   47 51.20   5.4X
SLE    2.13  83 ePc   47 45.30  -1.6
WLF    2.19  14 iP    48 01.00  13.3X
LPL    2.24 154 Pn    47 49.20   0.6
                Pg    47 57.50
                Sg    48 28.00
LPG    2.26 154 Pn    47 49.50   0.5
                Pg    47 58.00
MAF    2.33 236 Pn    47 49.40  -0.3
                Pg    47 56.60
                Sg    48 29.00
MMK    2.33 129 ePc   47 51.10   1.1
TCF    2.50 241 Pn    47 51.80  -0.3
                Sg    48 35.40
LLS    2.57 104 ePc   47 54.90   1.6
DOU    2.61 349 iP    47 55.00   1.4
ORX    2.63 136 P     47 55.18   1.1
BNI    2.65 159 P     47 55.20   0.7
                eSn   48 36.00
RSP    2.73 150 P     47 56.72   1.2
RRL    2.80 159 P     47 57.23   0.5
LSF    2.93 245 Pn    47 57.80  -0.4
BHB    3.01 153 P     47 59.77   0.4
MEM    3.10   8 iP    48 00.60   0.0
ENN    3.25   6 e(Pn) 48 03.00   0.2
```

0.5s 5.00nm
e(Sn) 48 48.00
PZZ 3.27 158 P 48 03.80 0.6
DOI 3.31 156 P 47 57.50 -6.3X
TNS 3.37 36 ePnc 48 09.00 4.4X
eSn 49 01.20
CAF 3.47 222 Pn 48 05.20 -0.8
Sg 49 04.00
RJF 3.47 231 Pn 48 04.80 -1.2
Sg 49 04.00
STV 3.57 157 P 48 07.59 0.1
ENR 3.61 156 P 48 07.67 -0.4
ROB 3.69 151 P 48 08.72 -0.4
PCP 3.73 142 P 48 10.05 0.3
LDF 3.82 288 Pn 48 11.40 0.4
Sg 49 14.00
MFF 3.88 258 Pn 48 11.20 -0.5
FIN 3.88 148 P 48 10.67 -1.1
SBF 3.96 158 Pn 48 13.20 0.3
IMI 4.04 153 P 48 13.13 -0.9
FRF 4.08 167 Pn 48 13.60 -1.0
FLN 4.10 290 Pn 48 14.40 -0.4
Sg 49 22.00
LRG 4.15 170 Pn 48 14.20 -1.3
GRR 4.26 284 Pn 48 16.60 -0.6
LMR 4.29 169 Pn 48 16.00 -1.5
LPF 4.34 279 Pn 48 18.00 -0.3
S.D. = 0.9 on 44 of 48 obs.

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* JUL 04, 1991 09h 25m 20.91± 0.53s
47.716 N ±11.2km 154.431 E ± 9.2km
DEPTH = 33.0km (normal)
4.7mb (22 obs.)
KURIL ISLANDS (221)

KUSJ 8.25 240 eP 27 17.10 -4.0X
eS 28 45.80
ASAJ 8.97 251 eP 27 32.90 1.8
HOOJ 9.52 240 eP 27 37.80 -0.8X
eS 29 20.20
MRRJ 10.82 246 eP 27 55.40 -1.1X
eS 29 45.10
MAT 16.38 233 eP 29 12.00 2.2
1.0s 15.00nm 4.1mb
YAK 20.00 325 eP 29 54.50 1.4
e 33 38.00
FBA 34.85 39 ePc 32 11.20 0.7
0.8s 7.59nm 4.7mb
WHN 35.04 255 eP 32 12.00 -0.5
INK 40.35 33 eP 32 57.00 0.5
CD2 41.86 265 P 33 08.50 -0.9
GYA 42.80 258 P 33 15.60 -1.6
1.0s 20.00nm 4.8mb
MBC 43.38 20 eP 33 22.50 1.3
1.0s 5.00nm 4.2mb
YKA 49.61 38 eP 34 11.10 0.6
0.8s 1.90nm 4.2mb
CHG 53.21 257 eP 34 38.00 -0.3
0.9s 10.50nm 4.8mb
CHTO 53.21 257 iPc 34 38.00 -0.2
1.0s 12.00nm 4.8mb
FFC 59.42 41 ePc 35 22.30 0.0
0.7s 8.00nm 5.0mb
TNP 62.07 63 eP 35 41.10 0.3
0.8s 3.24nm 4.5mb
BW06 63.45 55 eP 35 50.00 0.2
RSSD 65.52 51 eP 36 03.00 -0.2
0.7s 3.81nm 4.6mb
NB2 67.60 342 P 36 14.40 -1.6
0.9s 1.90nm 4.2mb
HFS 67.86 340 eP 36 15.70 -1.8
0.4s 1.90nm 4.5mb
WRA 69.72 200 P 36 28.00 -1.4
1.0s 1.10nm 3.9mb
CLL 75.95 336 iPd 37 04.60 -1.1
WTTA 80.00 335 iPd 37 28.60 0.3
0.9s 15.50nm 5.0mb
i 37 40.80
CDF 80.10 338 eP 37 27.90 -0.8
0.8s 5.35nm 4.6mb
LDF 81.56 343 eP 37 37.20 0.9
GRR 81.90 344 eP 37 38.80 0.8
0.8s 8.05nm 4.8mb
AVF 82.55 340 eP 37 41.10 -0.3
0.8s 4.05nm 4.5mb
SMF 82.57 340 eP 37 41.50 -0.1
1.0s 12.00nm 4.9mb
LPG 82.94 338 eP 37 43.20 -0.7
1.0s 10.00nm 4.9mb
MAF 83.26 341 eP 37 45.50 0.4
1.0s 14.00nm 5.0mb
TCF 83.28 341 eP 37 45.20 0.0
0.8s 5.35nm 4.7mb
LSF 83.46 341 eP 37 46.10 -0.1
0.9s 8.20nm 4.9mb
MFF 83.47 343 eP 37 46.30 0.1
S.D. = 1.0 on 31 of 34 obs.

? JUL 04, 1991 09h 26m 17.56±13.43s
39.704 N ±91.5km 29.442 E ±71.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.8 (ISK).

IZI 0.63 2 iPn 26 30.00 -0.3
YLV 0.86 356 iPn 26 34.00 -0.2
HRT 1.13 9 ePn 26 38.50 -0.2
ISK 1.39 348 ePn 26 44.00 1.0
KGT 1.80 295 ePn 26 48.60 -0.3
S.D. = 0.8 on 5 of 5 obs.

JUL 04, 1991 10h 17m 47.50± 0.46s
28.063 N ± 9.6km 57.314 E ± 3.8km
DEPTH = 38.8km (2 depth phoses)
4.8mb (37 obs.) 3.6Msz (4 obs.)
SOUTHERN IRAN (353)

MAIO 8.42 12 eP 19 52.00 2.0
0.8s 19.40nm 5.2mb
eS 21 28.00
OUE 8.69 74 eP 19 56.80 2.9
1.0s 4.50nm 4.5mb
IR4 9.00 324 eP 20 01.00 2.9
IR5 9.15 323 eP 20 01.50 1.3
IR1 9.25 324 eP 20 02.50 1.0
IR7 9.51 325 eP 20 05.00 -0.2
KER 10.75 308 eP 20 12.00 -10.2X
NDI 17.53 83 eP 21 50.00 -0.6
HRI 19.26 291 eP 22 07.10 -4.7X
PRNI 19.61 282 eP 22 16.50 0.9
RMN 19.93 282 eP 22 20.00 0.9
ELL 24.64 298 eP 23 07.40 1.5
KHL 25.32 301 iP 23 13.10 0.8
HRT 25.99 307 iP 23 19.50 1.0
ISK 26.51 307 iP 23 23.50 0.4
KGT 27.57 304 iP 23 33.50 0.6
WMQ 28.99 49 P 23 45.30 -0.4
RZN 29.81 306 iPc 23 53.00 -0.2
MMB 30.49 305 eP 23 59.00 -0.1
KKB 31.03 305 iPd 24 03.00 -0.8
VTS 31.14 307 iPd 24 05.00 0.1
VAY 31.26 304 eP 24 06.00 0.2
SKO 32.24 305 iP 24 14.20 -0.2
1.0s 53.00nm 5.4mb
KRA 35.86 318 iPd 24 44.80 -0.6
0.4s 85.00nm 6.0mb X
SRO 36.04 314 eP 24 46.10 -0.8
HVAR 36.10 306 iPc 24 46.40 -1.2
SGO 36.54 301 P 24 52.30 1.1
GTA 36.80 61 Pc 24 54.00 0.3
0.8s 30.00nm 5.2mb
Z 12s 0.50um 4.5MszX
E 14s 0.30um
ZST 36.93 314 eP 24 53.40 -1.1
DUI 37.31 303 P 24 59.20 1.3
SDI 37.80 303 P 25 02.40 0.5
ARV 38.68 305 P 25 09.80 0.6
MNS 38.72 304 P 25 10.00 0.4
RSM 39.09 306 P 25 14.00 1.4
NUR 39.21 335 iP 25 12.50 -0.9
CRE 39.41 306 P 25 15.70 0.3
KHC 39.44 314 iPc 25 15.00 -0.5
1.2s 17.50nm 4.7mb
e 25 25.00 34km
SFI 39.52 306 P 25 17.60 1.4
BHG 39.53 312 eP 25 15.60 -0.7
PGD 39.61 306 P 25 18.60 1.5
KAF 39.72 338 eP 25 19.30 1.7
BRG 39.73 317 eP 25 17.20 -0.6
0.8s 8.00nm 4.6mb
LZH 39.92 66 Pc 25 19.00 -0.8
1.5s 45.00nm 5.0mb
Z 16s 0.44um 4.4MszX
E 13s 0.41um
pP 25 35.00 64kmX
WTTA 40.25 311 iPc 25 21.30 -1.1
0.6s 9.70nm 4.8mb
id 25 21.70 1kmX
CD2 40.31 74 P 25 22.80 -0.1
MME 40.38 306 P 25 24.10 0.5
CLL 40.43 317 iPc 25 23.10 -0.4
1.3s 30.00nm 4.9mb
BDI 40.44 306 P 25 23.30 -0.5
OGA 40.58 310 eP 25 24.70 -0.5
GRF 41.07 315 eP 25 28.80 -0.1
BOB 41.34 307 P 25 31.60 0.3
PGF 41.44 304 iPd 25 31.80 -0.4
0.7s 11.00nm 4.7mb
SBF 42.69 305 iPd 25 42.00 -0.3
0.8s 34.90nm 5.1mb
FRF 43.24 305 iPd 25 46.20 -0.5
0.9s 8.20nm 4.5mb
LPG 43.32 308 iPd 25 47.00 -0.7
0.7s 11.00nm 4.7mb
BNI 43.33 307 P 25 48.20 0.6
LPL 43.34 308 iPd 25 47.00 -0.8
0.8s 8.05nm 4.5mb
CDF 43.35 312 eP 25 45.90 -1.8
SOD 43.48 343 iP 25 48.00 -0.3
HFS 43.50 330 eP 25 48.20 -0.3
0.4s 3.80nm 4.5mb
Z 19s 0.06um 3.5Msz
LR 45 36.00
BSF 43.58 311 eP 25 48.20 -1.4
HAU 43.90 311 eP 25 50.50 -1.6
Z 22s 0.10um 3.7Msz
XAN 44.23 69 P 25 54.40 -0.5
1.0s 10.00nm 4.6mb
BTO 44.68 59 eP 25 58.00 -0.5
NB2 45.00 330 P 25 58.90 -1.8
0.6s 2.60nm 4.3mb
KEV 45.23 346 eP 26 02.00 -0.3
LBF 45.38 310 eP 26 03.40 -0.6
0.6s 4.95nm 4.6mb
SMF 45.45 309 iPd 26 03.70 -0.7
0.7s 16.55nm 5.0mb
LOR 45.49 310 iPd 26 03.90 -0.9
0.8s 7.40nm 4.6mb
Z 20s 0.08um 3.6Msz
SSF 45.71 310 iPd 26 06.00 -0.5
0.7s 12.15nm 4.9mb
AVF 45.79 309 iPd 26 06.30 -0.8
0.7s 4.40nm 4.5mb
HHC 45.84 59 P 26 08.40 0.6
1.2s 20.00nm 4.9mb
BGF 46.12 309 iPd 26 09.00 -0.8
0.6s 8.55nm 4.9mb
MAF 46.30 308 iPd 26 10.90 -0.2
0.9s 11.45nm 4.8mb
TCF 46.55 308 iPd 26 12.80 -0.3
0.6s 5.40nm 4.7mb
CAF 46.59 307 iPd 26 13.30 -0.2
0.9s 10.65nm 4.8mb
TIY 46.70 63 Pd 26 14.40 -0.1
RJF 46.99 307 iPd 26 16.60 0.0
1.0s 16.00nm 4.9mb
Z 20s 0.08um 3.6Msz
LSF 47.02 308 eP 26 16.10 -0.7
LFF 47.53 307 iPd 26 20.80 -0.1
0.8s 10.75nm 4.9mb
EBR 47.80 301 eP 26 24.00 1.0
BJI 49.40 60 eP 26 35.00 -0.4
1.0s 11.00nm 4.8mb
YAK 57.41 32 eP 27 31.60 -2.6
MAT 67.04 60 eP 28 37.00 -2.0
0.9s 4.20nm 4.5mb
MBC 75.92 359 eP 29 31.00 -0.3
0.7s 10.00nm 4.9mb
FRB 79.11 338 eP 29 49.00 -0.2
IMA 83.21 12 eP 30 10.90 0.0
0.8s 6.70nm 4.8mb
INK 83.59 4 eP 30 12.00 -0.5
pP 30 25.00 44km
SCH 84.56 331 eP 30 18.00 0.3
FBA 85.30 10 eP 30 21.50 0.2
PMR 88.13 12 eP 30 35.20 0.1
0.9s 10.40nm 5.1mb
WRA 88.40 113 P 30 39.00 2.0
1.0s 14.40nm 5.2mb
WB2 88.41 113 iPc 30 39.70 2.6
0.9s 18.00nm 5.4mb

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YKA     89.53 356 eP     30 41.70  -0.1
        0.8s     6.60nm          5.0mb
KDC     90.93  15 e(P)   30 48.80   0.5
      S.D. = 1.0  on  93 of  95 obs.
-----------------------------------------
   JUL  04, 1991  10h 32m 36.73± 0.16s
   28.588 N ± 3.5km  142.530 E ± 3.4km
   DEPTH =  28.4km  (  6 depth phoses)
   5.0mb ( 36 obs.)  3.7Msz (  1 obs.)
 BONIN ISLANDS REGION              (212)

MAT      8.73 336 iPc    34 43.20  -0.9
        0.9s    54.62nm          5.7mb
                  (S)    36 17.00
PJG     15.08 171 eP     36 11.00   1.4
GUMO    15.08 171 eP     36 11.00   1.4
        1.0s   112.00nm          5.1mb
GUA     15.14 171 eP     36 11.80   1.5
SSE     18.68 283 P      36 58.50   3.6X
        1.0s    20.00nm          4.3mb
      Z  20s     0.50um
      N  12s     0.30um
                  pP     37 06.50
                  S      40 26.00
MDJ     19.03 331 eP     36 58.00  -1.0
        1.0s    30.00nm          4.5mb
      Z  15s     0.44um
      N  10s     0.34um
      E  12s     0.66um
                  eS     40 32.00
SNY     20.30 316 Pd     37 13.80   0.9
      Z  14s     0.70um          4.2MszX
CN2     20.44 322 eP     37 14.00  -0.4
        1.0s    20.00nm          4.4mb
      Z  16s     0.87um          4.2MszX
      N  14s     0.36um
      E  14s     0.46um
                  epP    37 21.00  26km
NJ2     20.72 285 Pd     37 17.00  -0.4
        1.0s   100.00nm          5.2mb
      Z  18s     0.30um          3.7Msz
                  S      41 08.00
CVP     21.87 245 ePc    37 31.00   1.9
        1.0s   103.00nm          5.2mb
BJI     24.49 305 eP     37 54.00  -0.6
        1.2s    20.00nm          4.6mb
      Z  14s     0.59um          4.2MszX
WHN     24.56 281 eP     37 56.00   0.6
PGP     25.05 238 eP     38 01.50   1.4
CGP     26.14 223 eP     38 09.00  -1.3
TIY     26.70 298 eP     38 15.80   0.4
      Z  14s     0.48um          4.2MszX
      N  16s     0.47um
HHC     28.09 304 P      38 28.00  -0.1
XAN     29.14 289 P      38 35.60  -1.9
                  pP     38 45.60  36km
BTO     29.16 303 eP     38 38.00   0.3
GYA     31.81 275 P      39 00.00  -1.3
        1.0s    23.00nm          5.0mb
      N  15s     0.50um
      E  15s     0.60um
LZH     33.36 293 eP     39 15.00   0.2
        1.5s    20.00nm          4.8mb
                  pP     39 22.50  26km
CD2     33.63 284 P      39 16.40  -0.7
                  eS     44 31.00
YAK     34.49 349 iP     39 23.70  -0.3
                  e      42 01.00
                  e      42 37.00
GTA     36.72 298 P      39 43.40   0.0
        1.2s    20.00nm          4.9mb
                  pP     39 50.00  22km
                  sP     39 55.00
IRK     36.86 321 eP     39 28.10 -16.2X
                  e      39 46.30  74kmX
CHG     40.89 266 eP     40 18.50   0.3
CHTO    40.89 266 eP     40 18.40   0.2
        0.9s    15.13nm          4.7mb
                  pP     40 27.00  29km
MTN     42.64 197 iPd    40 21.00 -11.4X
KHT     42.84 261 eP     40 35.50   1.3
SHL     44.93 279 eP     40 51.50   0.2
                  iS     47 31.00
WMQ     45.97 305 eP     40 59.30   0.1
        1.2s    30.00nm          5.1mb
                  S      47 41.50
IPM     46.03 247 ePd    41 03.10   3.3X
SDN     48.35  40 eP     41 16.10  -1.5
ANM     48.50  27 e(P)   41 20.10   1.5
PSI     48.83 246 ePd    41 30.20   8.5X
WB2     48.89 190 iPd    41 20.60  -1.5
        0.8s    98.20nm          5.9mb
WRA     48.89 190 P      41 20.00  -2.1
        0.8s    64.40nm          5.7mb
SVW     51.86  33 eP     41 45.40   1.0
        1.0s    50.00nm          5.4mb
ASPA    52.61 190 eP     41 50.80   0.4
        1.4s     9.80nm          4.6mb
KDC     53.04  37 eP     41 52.50  -0.6
IMA     53.63  27 eP     41 57.90   0.4
        1.2s    15.40nm          4.9mb
BRW     53.89  20 eP     42 00.50   1.3
SLKM    54.41  34 P      42 01.70  -1.6
PMR     55.02  33 eP     42 06.50  -1.1
        0.9s    46.00nm          5.5mb
DZM     55.40 153 iPc    42 09.90  -1.0
FBA     55.89  29 eP     42 14.20   0.3
        1.1s    17.50nm          5.0mb
BRS     56.52 169 iPc    42 18.50  -0.4
WARB    56.56 197 eP     42 18.00  -1.1
NDI     56.63 287 Pd     42 19.50  -0.2
        0.8s    26.12nm          5.3mb
BALM    58.28  34 P      42 30.20  -0.9
STK     60.14 181 eP     42 42.00  -1.9
        1.0s     2.40nm          4.3mb
                  i      42 51.90  32km
FORR    60.69 194 eP     42 46.00  -1.7
GBA     61.88 271 P      42 57.00   0.8
        0.7s     2.70nm          4.5mb
BWA     62.92 175 iPd    43 02.40  -0.3
POO     63.01 277 eP     43 01.50  -2.2
KOD     63.32 267 eP     43 06.00  -0.2
CAN     63.86 174 eP     43 08.30  -0.6
MBC     64.37  15 ePc    43 11.80   0.0
        1.0s    24.00nm          5.3mb
QUE     64.67 292 eP     43 15.30   0.7
TOO     65.87 177 eP     43 22.00   0.2
MAIO    68.49 300 eP     43 40.00   1.3
YKA     70.69  29 eP     43 50.20  -1.4
        0.8s     8.30nm          4.9mb
KEV     71.68 341 eP     43 57.00  -0.4
SOD     73.13 339 iP     44 06.70   0.7
PNT     73.66  42 eP     44 09.00  -0.5
        1.0s    17.00nm          5.0mb
IR4     75.35 302 ePc    44 21.50   1.9
IR1     75.43 302 ePc    44 21.00   0.9
WDC     75.47  52 eP     44 21.80   1.7
OBN     75.47 325 eP     44 20.00   0.3
        1.1s   *******nm          8.0mb X
NEW     75.61  43 P      44 21.00   0.2
        1.0s    24.50nm          5.2mb
MIN     76.22  52 eP     44 24.30  -0.2
KAF     76.27 334 iP     44 24.20   0.1
        0.7s    10.40nm          5.0mb
ORV     76.63  52 eP     44 26.40  -0.2
BRK     76.83  54 eP     44 27.80   0.1
BKS     76.85  54 iPd    44 28.30   0.4
GCC     77.39  55 eP     44 31.20   0.4
NUR     77.87 333 iP     44 34.00   1.0
        0.8s    13.20nm          5.0mb
SES     78.08  39 ePc    44 34.40   0.0
CMB     78.09  53 ePc    44 34.90   0.1
PRS     78.15  55 eP     44 35.50   0.4
LLA     78.33  55 eP     44 37.30   1.2
PRI     78.75  55 eP     44 39.30   0.8
FRI     79.04  54 eP     44 40.00   0.1
LRM     79.58  43 iPc    44 43.40   0.4
SYP     79.99  56 eP     44 46.00   0.7
TNP     80.28  52 P      44 47.10   0.3
        1.2s    15.32nm          4.9mb
FFC     80.32  32 iPc    44 46.70   0.3
        1.0s    44.00nm          5.4mb
UPP     80.97 335 iP     44 49.40  -0.3
CLC     81.10  54 eP     44 50.00  -1.0
SBB     81.47  55 eP     44 53.00   0.0
PAS     81.48  56 eP     44 52.00  -1.0
MWC     81.53  56 eP     44 53.00  -0.5
GSC     81.91  54 eP     44 55.00  -0.3
RVR     82.14  56 eP     44 55.00  -1.4
HFS     82.18 337 eP     44 56.00  -0.1
        0.8s    13.50nm          5.0mb
PEC     82.34  56 P      44 57.50   0.0
NB2     82.34 338 P      44 57.20   0.2
        0.8s    13.40nm          5.1mb
PLM     82.82  56 eP     44 59.00  -1.2
BW06    82.94  45 P      45 00.00  -0.7
        1.0s     3.33nm          4.4mb
TPC     83.04  55 eP     45 01.00  -0.1
BAR     83.29  57 eP     45 02.00  -0.4
GLA     84.45  55 eP     45 09.00   0.7
RSSD    85.51  42 P      45 14.00   0.4
        1.8s    27.68nm          5.2mb
PV09    85.53  48 P      45 14.00   0.1
KRA     86.64 327 eP     45 19.20   0.4
GOL     87.27  46 P      45 23.50   1.1
        1.2s     4.10nm          4.6mb
CLL     88.90 331 e(P)   45 29.00  -0.6
ANMO    89.29  50 P      45 32.50   0.4
KHC     90.24 329 P      45 36.50   0.5
MEO     94.55  46 iPd    45 57.10   1.0
ARE    146.46  76 iPKPd  52 19.00   2.6X
ZOBO   149.22  73 PKP    52 22.20   1.1
LPB    149.37  74 PKP    52 27.00   5.9X
CNCB   149.60  74 PKP    52 22.00   0.3
CCH    151.42  73 PKP    52 31.30   7.3X
SIV    154.88  65 PKP    52 37.80   9.3X
      S.D. = 0.9  on 106 of 115 obs.
-----------------------------------------
% JUL  04, 1991  10h 52m 24.74± 0.85s
   40.394 N ± 6.7km   23.328 E ± 7.9km
   DEPTH =  10.0km  (geophysicist)
 GREECE                            (364)
      MD 1.9 (THE).

THE      0.37 311 ePc    52 32.34   0.1
                  eS     52 38.02
SOH      0.43   3 iPc    52 33.34  -0.1
                  eS     52 39.02
OUR      0.50  97 ePc    52 35.18   0.2
PAIG     0.54 150 ePd    52 35.46  -0.2
                  eS     52 43.42
SRS      0.75  15 ePd    52 39.26  -0.2
                  eS     52 49.90
KNT      0.83 337 ePd    52 40.98   0.1
                  eS     52 52.74
      S.D. = 0.2  on   6 of   6 obs.
-----------------------------------------
? JUL  04, 1991  11h 20m 30.56± 4.47s
   30.446 N ±43.7km  113.857 W ±13.9km
   DEPTH =  10.0km  (geophysicist)
   4.5mb (  1 obs.)
 GULF OF CALIFORNIA                ( 49)

GLA      2.73 343 eP     21 14.00  -1.2
BAR      3.28 314 eP     21 21.00  -2.0
PLM      3.86 319 eP     21 35.00   3.5X
TPC      4.09 334 eP     21 50.00  15.4X
PEC      4.43 322 eP     21 40.00   0.6
RVR      4.63 321 eP     22 02.00  19.9X
MWC      5.18 318 eP     22 15.00  24.9X
PAS      5.19 316 eP     22 16.00  25.8X
SBB      5.40 323 eP     22 03.00   9.9X
GSC      5.44 334 eP     22 01.00   7.2X
CLC      6.21 331 eP     22 08.00   3.5X
ANMO     7.68  52 eP     22 23.20  -2.2
TNP      8.11 341 eP     22 31.50   0.2
MSU      8.17   9 eP     22 33.00   0.8
PV09     8.93  25 eP     22 43.00   0.2
BW06    12.78  14 eP     23 47.00  11.7X
RSSD    15.71  27 eP     24 19.50   5.8X
SES     20.04   5 eP     25 08.00   1.5
MBC     45.95 358 eP     28 57.00   2.1
        1.0s     6.00nm          4.5mb
      S.D. = 1.7  on   9 of  19 obs.
-----------------------------------------
   JUL  04, 1991  11h 43m 10.49± 0.21s
    8.099 S ± 2.6km  124.681 E ± 3.2km
   DEPTH =  28.8 ±  1.5 km
   6.2mb ( 80 obs.)  6.5Msz ( 30 obs.)
 TIMOR                             (289)
      Ms 6.4 (BRK). Mo=2.0*10**19 Nm
      (PPT). Twenty-three people
      killed, 181 injured, at least
      5,400 left homeless and about
      1,150 buildings destroyed at
      Kalabahi, Alor. Estimated 7.7
      million U.S. dollars damage
      occurred in the epicentral area.
      Felt at Dili, Timor. Two events
      about 2.5 seconds apart observed
      on broadband displacement
```

04d 11h

```
seismograms.
FAULT PLANE SOLUTION: P-Waves
 NP1:Strike=250 Dip=67 Slip=  27
 NP2:        149     65       155
 Principal Axes:
  T                Plg=35  Azm=110
  P                  1        19
Comment: The focal mechanism is
  poorly controlled and
  corresponds to strike-slip
  faulting with o moderate
  reverse component. The
  preferred fault plane is not
  determined.
RADIATED ENERGY
 No. of sta:  11  Focal mech.  F
 Energy        3.8±1.0*10**14 Nm
MOMENT TENSOR SOLUTION
Dep  32            No. of sta: 11
Moment Tensor;    Scale 10**19 Nm
  Mrr=-0.29        Mtt=-1.99
  Mff= 2.27        Mrt=-0.09
  Mrf=-0.84        Mtf= 0.32
 Principal oxes:
  T  Vol=  2.55  Plg=17  Azm= 94
  N       -0.54       73      270
  P       -2.01        1        4
Best Double Couple:Mo=2.3*10**19
 NP1:Strike=138 Dip=78 Slip= 169
 NP2:        230     79        13
CENTROID, MOMENT TENSOR     (HRV)
Data Used: GDSN
L.P.B.: 26S, 76C  M.W.: 22S, 50C
Centroid Locotion:
Origin Time        11:43:15.6 0.1
Lat  8.02S 0.01 Lon 124.73E 0.01
Dep  17.0 BDY Half-durotion  8.3
Moment Tensor;    Scale 10**19 Nm
  Mrr= 1.06 0.01  Mtt=-1.05 0.01
  Mff=-0.01 0.01  Mrt=-0.74 0.04
  Mrf=-0.61 0.04  Mtf=-0.41 0.01
 Principal Axes:
  T  Val=  1.45  Plg=67  Azm=124
  N        0.06       11      243
  P       -1.51       20      337
Best Double Couple:Mo=1.5*10**19
 NP1:Strike= 86 Dip=27 Slip= 116
 NP2:        237     66        77

KUPT    2.30 207 eP     43 49.00   1.8
AAI     5.61  39 eP     44 34.50   0.4
                eS     45 58.60
TRT    11.94 271 ePc    46 04.10   2.3
        1.1s   586.60nm          6.7mb
TSM    14.06 331 ePd    46 29.90  -0.1
        1.2s   668.30nm          6.2mb
DAV    15.11   3 iP+    46 42.00  -1.8
                eS     50 12.30
KKM    16.39 329 ePc    47 02.40   2.1
        1.4s  1180.80nm          5.8mb
CGP    16.44   0 ePd    47 02.00   1.1
        2.0s  6389.00nm          6.4mb
NANU   16.86 210 eP     47 02.00  -4.1X
ASPA   17.83 151 eP     47 14.40  -3.8X
        1.5s  2162.60nm          6.1mb
      Z  22s   536.90um          3.7Msz
                iS     50 26.40
WARB   18.08 174 eP     47 19.00  -2.4
MAP    18.31 358 ePd    47 27.00   2.8
        1.2s   463.00nm          5.5mb
MNDI   18.93  85 eP     47 34.00   2.0
QIS    19.02 132 eP     47 30.00  -2.9X
                e      50 50.00
PLP    19.14   1 ePd    47 36.00   1.7
        2.0s  1858.00nm          6.0mb
MDG    21.14  84 eP     47 55.00  -0.7
PGP    21.78 350 ePc    48 05.00   3.0X
        1.5s  1281.00nm          6.1mb
PMG    22.25  95 eP+    48 07.00   0.3
MRWA   22.54 200 iPd    48 08.00  -1.5
FORR   22.86 172 eP     48 11.00  -1.6
        0.4s   222.00nm          6.0mb
COOL   22.91 188 eP     48 11.50  -1.7
        0.6s   181.00nm          5.8mb
KGM    23.55 294 ePd    48 22.70   3.2X
        1.2s  1006.10nm          6.2mb
                e      48 36.00

BAL    23.60 197 eP     48 18.70  -1.2
        0.7s   551.00nm          6.2mb
CTAO   24.04 122 iPc    48 25.75   1.5
        1.0s   475.00nm          6.0mb
                ePcP   52 07.88
                eS     52 43.19
KLB    24.25 194 eP     48 25.50  -0.6
        0.4s   105.00nm          5.7mb
BAG    24.69 351 iP-    48 30.00  -0.7
        2.0s  1117.65nm          6.1mb
                eS     52 54.00
MUN    25.03 197 eP     48 30.00  -3.7X
        1.0s   670.00nm          6.2mb
      Z  18s   109.00um          6.4Msz
      N  18s    99.30um
      E  18s    81.20um
                eS     52 52.00
KLM    25.53 295 eP     48 40.50   2.0
NWAO   25.65 195 ePc    48 38.88  -0.6
SZP    25.83 351 ePd    48 44.00   2.8
        1.6s   179.00nm          5.4mb
QLP    26.13 137 eP     48 44.00   0.0
                i      48 50.20
                e      53 43.00
                i      57 38.00
PIP    26.56 351 iPd    48 49.00   1.0
        2.0s  3530.00nm          6.6mb
IPM    26.75 297 ePd    48 51.00   1.2
        1.2s   475.60nm          6.0mb
                e      49 03.10
RKG    27.27 194 iPd    48 55.40   1.0
        0.8s   417.00nm          6.1mb
RAB    27.60  84 e(P)   48 56.00  -1.6
                iS     53 40.00
PSI    27.84 292 eP     49 08.00   8.3X
SNG    28.39 302 eP     49 05.10   0.4
        1.3s  1773.08nm          6.6mb
                e      53 59.20
STK    28.42 149 iPc    49 04.00  -0.8
        0.6s    75.40nm          5.6mb
                i      49 11.40
                eS     54 28.40
RMQ    29.27 132 ePd    49 12.40  -0.2
                i      49 21.00
                i      49 57.00
                i      56 25.20
                i      58 05.00
GUA    29.42  43 eP     49 13.00  -1.0
        1.8s  2109.09nm          6.6mb
                eS     54 04.50
GUMO   29.43  43 ePc    49 11.77  -2.2
        1.4s  1384.62nm          6.5mb
                e      49 26.10
PJG    29.43  43 e(P)   49 13.50  -0.5
ADE    29.68 156 iPc+   49 18.10   1.9
        1.3s  1000.00nm          6.4mb
CMS    30.49 143 iPd    49 23.30  -0.1
                i      49 26.40
                i      55 21.20
QIZ    30.67 332 Pd     49 25.00   0.0
        1.4s   200.00nm          5.7mb
      N  14s    22.30um
      E  13s    28.20um
                S      54 27.00
HKC    31.92 341 iP     49 37.60   1.7
                eS     54 12.00
NNT    32.20 309 eP     49 40.20   1.7
BSI    32.27 294 iPc    49 39.00  -0.1
        0.7s   155.40nm          6.0mb
BRS    32.78 129 iPc    49 43.50  -0.1
                i(pP)  49 53.00  33kmX
                i      50 26.00
                i(PP)  50 59.00
                iS     54 06.00
                i(ScS)00 31.00
GZH    32.92 341 iPd    49 45.00   0.4
        1.8s  1500.00nm          6.6mb
      Z  24s    60.80um          6.2MszX
      N  14s    23.30um
      E  10s    15.40um
BFD    33.18 153 iPc    49 44.70  -2.1
                i      50 40.00
                i      56 38.80
ANP    33.23 355 iPd    49 46.00  -1.4
                eS     55 00.00
QZH    33.37 350 iPd    49 49.00   0.4
        2.0s   420.00nm          6.0mb

      Z  24s    98.30um          6.4MszX
      N  16s    50.90um
      E  16s    18.80um
                S      55 12.00
COO    33.87 135 eP     49 53.00   0.0
                i      49 55.60
                i      49 59.80
                i      51 17.60
BWA    34.10 144 eP     49 57.60   2.7
                e      50 58.10
KHT    34.44 311 iPd    50 00.00   2.1
HNR    34.87  95 eP     50 01.00  -0.7
TOO    34.87 150 iPc    50 03.20   1.7
        0.2s   304.00nm          6.9mb
      Z  18s   384.60um          7.2Msz
                i      51 09.70
                iS     55 57.00
CAN    35.07 144 eP     50 04.40   1.2
                e      51 07.90
CNB    35.28 144 iPc    50 05.80   0.8
                i      50 10.00
                i      50 41.00
                i      53 30.00
                iS     55 49.00
RIV    35.38 140 iPd    50 07.60   1.8
                e      55 44.00
                e      00 00.00
BDT    35.75 315 eP     50 07.50  -1.6
        1.0s   483.00nm          6.4mb
CHG    36.87 317 ePc    50 19.00   0.5
                eS     56 00.00
CHTO   36.87 317 iPc    50 18.80   0.3
GYA    38.55 334 iPd    50 34.20   1.5
        1.8s  1100.00nm          6.3mb
      Z  38s   140.00um          6.5MszX
      N  16s    18.50um
      E  16s    74.00um
                PP     52 06.00
                S      56 22.00
                SS     59 02.00
SSE    39.11 355 Pd     50 37.00  -0.1
        2.0s   760.00nm          6.1mb
      Z  20s    41.80um          6.3Msz
      N  16s    17.40um
      E  16s    15.90um
KMI    39.33 328 iPd    50 42.11   2.7
        2.0s  3700.00nm          6.8mb
      N  13s    11.40um
      E  15s    11.60um
                ed     50 44.76
                ec     50 48.07
                iPP    52 17.37
                eS     56 32.49
                eSS    59 37.23
WHN    39.68 346 P      50 43.50   1.6
        2.0s  1300.00nm          6.3mb
                S      56 40.00
TAU    39.97 154 iPc    50 45.62   1.5
                ed     50 51.91
                ed     50 54.56
NJ2    40.31 352 Pd     50 47.50   0.5
      N  11s     3.30um
      E  14s    15.40um
                pP     50 55.00  25kmX
                PP     52 26.00
                S      56 53.00
DZM    42.49 114 iPc    51 05.30   0.0
SHK    43.07  10 ePd    51 10.00   0.4
BKM    43.42 107 iP     51 14.00   1.2
PVC    43.50 107 iPc    51 15.80   2.4
CD2    43.67 334 P      51 14.80   0.2
      Z  38s   108.00um          6.5MszX
      E  14s    82.30um
XAN    44.49 341 Pc     51 19.50  -1.8
        1.4s   300.00nm          6.0mb
      N  12s    24.90um
      E  14s    14.00um
                pP     51 32.00  46kmX
                sP     51 36.00
                S      57 57.00
TIA    44.64 351 eP     51 21.30  -1.1
        2.4s   700.00nm          6.1mb
      N  15s    24.20um
      E  15s    20.10um
                sP     51 35.00
                S      57 48.00
MAJO   46.19  15 iPd    51 35.09   0.5
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                ed     51 37.74
                ed     51 42.87
                e      52 17.00
                i      52 24.00
                ePcP   53 13.74
                e      56 53.00
                iS     58 17.46
                e      58 40.08
                e      59 53.00
MAT    46.19  15 iPd   51 33.70  -0.9
       2.0s  1647.06nm          6.6mb
     Z  20s    35.82um          6.3Msz
                eS     58 19.00
SHL    46.24 317 iP    51 35.50   0.1
                iS     57 48.00
DL2    46.85 357 P     51 38.70  -1.1
       1.0s   500.00nm          6.5mb
     Z  41s    61.80um          6.3MszX
     N  11s     5.20um
     E  16s    26.60um
                S      58 28.00
TIY    46.99 347 eP    51 40.00  -1.0
     Z  40s    55.30um          6.2MszX
     N  12s    11.70um
                S      58 30.00
LZH    48.12 337 iPd   51 51.61   1.5
       2.9s  1670.00nm          6.6mb
                ed     51 53.93
                ec     51 57.57
                ec     52 00.22
                ePcP   53 19.84
                PP     53 40.00
                iS     58 47.74
BJI    48.54 351 ePd   51 52.40  -0.6
       1.5s   330.00nm          6.1mb
     Z  40s    58.20um          6.3MszX
     N  16s    19.80um
                ed     51 54.72
                ed     52 00.34
                eS     58 56.00
                eSS    02 20.00
LSA    49.52 321 P     52 02.00   0.7
                PP     54 00.00
                S      59 10.00
SNY    49.69 359 iPd   52 01.00  -0.8
       1.2s   100.00nm          5.7mb
     Z  30s    85.30um          6.6MszX
     N  22s    40.00um
     E  16s     8.90um
                PP     53 54.00
HHC    50.18 347 P     52 05.90   0.1
       1.8s   540.00nm          6.3mb
     Z  27s    66.80um          6.5MszX
     N  17s    17.10um
     E  15s     9.20um
                pP     52 15.50  32kmX
                sP     52 20.00
                PP     54 03.00
                S      59 12.00
BTO    50.31 345 iPd   52 06.50  -0.2
       8.0s  3900.00nm          6.5mb X
     N  14s    33.00um
     E  14s    23.00um
                sP     52 18.50
                PP     53 59.00
KOD    50.41 290 eP    52 08.00  -0.1
                eS     59 17.00
GBA    51.62 294 Pc    52 12.80  -4.1X
       1.3s   158.30nm          5.8mb
CN2    51.66   1 Pd    52 15.00  -1.8
       1.4s   200.00nm          5.9mb
     Z  20s   103.00um          6.9Msz
     N  13s     9.26um
     E  13s     6.60um
                ePP    54 10.00
GUN    51.85 315 P     52 19.06   0.1
       1.0s  2226.00nm          7.1mb
PKI    51.97 314 P     52 19.56  -0.3
       0.7s   409.00nm          6.5mb
HYB    52.16 299 iPc   52 19.40  -1.6
       1.6s  1615.40nm          6.7mb
                iS     59 40.00
KKN    52.20 315 P     52 21.34  -0.1
       1.0s  1651.00nm          6.9mb
MSZ    52.21 142 P     52 21.70   0.7
DMN    52.21 314 P     52 21.60   0.0
       0.9s   863.00nm          6.7mb
GTA    52.59 336 P     52 23.00  -1.1
       1.6s   750.00nm          6.4mb
     Z  24s    43.70um          6.4MszX
     E  16s    43.50um
SGE    52.61 106 eP    52 31.50   6.9X
MDJ    52.66   4 iPd   52 25.17   0.9
       1.4s  1900.00nm          6.8mb
     Z  48s    82.70um          6.4MszX
     N  24s    44.60um
     E  12s    20.90um
                ed     52 27.66
                ed     52 32.62
                ec     52 36.26
                iS     59 51.52
                e      00 03.94
                eScS   02 12.64
                eSS    03 20.93
                eSS    03 32.99
GKN    52.78 314 P     52 25.40  -0.3
       0.9s  1048.00nm          6.8mb
SAP    53.12  15 eP    52 29.00   1.2
                eS     00 01.00
VUN    53.15 106 eP    52 28.40   0.0
SVA    53.15 107 eP    52 28.20  -0.2
TLC    53.18 142 P     52 27.90  -0.5
MHZ    53.24 142 P     52 28.60  -0.2
OVA    53.44 106 eP    52 31.20   0.7
THZ    54.10 136 P     52 35.00  -0.1
LTZ    54.10 138 P     52 35.90   0.8
KHZ    54.80 137 P     52 39.30  -0.9
       1.0s   437.00nm          6.4mb
TCW    54.82 135 P     52 40.80   0.4
CNZ    54.99 133 P     52 42.70   0.9
MRW    55.13 135 P     52 40.20  -2.4
WEL    55.20 135 P     52 43.00  -0.1
                pP     52 48.00  16kmX
                S      00 28.00
                ScS    01 08.00
                SS     04 16.00
CAW    55.34 135 P     52 43.60  -0.5
MNG    55.45 134 P     52 42.90  -2.1
HBZ    56.53 130 P     52 52.80   0.1
POO    56.69 298 iPd   52 52.80  -1.4
       1.0s   110.00nm          5.8mb
                iS     00 41.50
YSS    57.17  15 iPc   52 56.00  -1.1
HIA    57.29 356 iPd   52 58.52   0.6
                ed     53 00.50
                ed     53 06.30
                ec     53 10.27
                ePP    55 08.95
                iS     00 53.92
                esS    01 04.12
                iScS   02 45.65
BOM    57.73 298 iP    53 01.00  -0.5
                iS     00 58.00
NDI    58.58 311 iPd   53 05.80  -1.5
       1.4s   790.70nm          6.6mb
                eS     01 04.00
CSY    58.92 187 iPc   53 09.90   0.9
       0.8s    32.40nm          5.5mb
PAF    61.17 217 iPc   53 25.00   0.3
                eS     02 15.00
WMO    61.58 330 ePc   53 27.75   0.1
       1.0s   500.00nm          6.6mb
     Z  40s    50.30um          6.4MszX
     N  17s    35.50um
                id     53 30.73
                ed     53 35.70
                ec     53 41.66
AFI    62.50 101 ePc   53 34.01  -0.3
                ed     53 45.93
IRK    62.61 346 eP+   53 32.00  -2.4
                e      54 02.00
                ePcP   54 10.90
                e      55 08.00
                ePP    55 59.00
                ePPP   57 31.00
                iS     02 01.00
                ePS    02 18.00
                eScS   03 21.00
                e      03 33.00
                e      04 06.00
                eSS    06 20.00
KSH    65.33 320 P     53 52.00  -0.5
     E  18s    64.40um
                S      02 34.00
QUE    67.19 307 eP    54 03.60  -1.0
                ePP    56 36.00
                eS     02 51.00
PET    67.38  21 eP    54 06.00   0.9
                eS     03 04.00
FRU    68.11 323 iPc   54 10.00   0.0
                iS     03 10.00
DSH    69.62 316 iPc   54 18.00  -1.4
                iS     03 20.00
MAW    72.03 201 eP    54 35.00   1.6
       0.9s   105.00nm          5.9mb
     Z  18s    25.00um          6.5Msz
SBA    72.99 171 P     54 39.60   0.7
                S      04 12.80
SMY    73.70  29 eP    54 48.40   5.0X
     Z  20s    10.00um          6.1Msz
MAIO   75.33 311 iPc+  54 53.50   0.2
                eS     03 28.00
ADK    77.90  33 eP    55 10.80   3.7X
     Z  20s    10.00um          6.1Msz
TIK    79.61   1 iPc   55 15.00  -1.1
                eS     05 15.00
DHR    79.91 299 eP    55 19.00   0.3
                S      05 12.00
KIP    81.26  67 ePc   55 26.27   0.4
                ed     55 37.69
                eS     05 31.95
IR4    81.60 307 iPc   55 27.00  -0.6
IR1    81.82 308 iPc   55 28.50  -0.2
IR5    81.85 307 eP    55 30.00   1.1
SPA    81.95 180 iPc   55 29.40   0.5
       1.0s   257.50nm          6.2mb
     Z  20s    49.55um          6.9Msz
                i      05 46.40
RYD    82.65 296 eP    55 33.00  -0.1
                S      05 45.00
TBI    83.06 113 eP    55 39.00   3.8X
       1.2s   115.00nm          5.9mb
AFR    83.38 107 iP    55 40.00   3.1X
       1.3s   180.00nm          6.1mb
PAE    83.55 107 iP    55 41.20   3.4X
       1.3s   220.00nm          6.2mb
PPT    83.56 107 iP    55 41.50   3.6X
       1.3s  2335.00nm          7.2mb X
PPN    83.70 107 iP    55 42.00   3.4X
       1.3s   185.00nm          6.1mb
TVO    83.85 107 iP    55 43.00   3.6X
       1.3s   315.00nm          6.3mb
PMO    85.47 104 iP    55 50.90   3.5X
       1.3s   150.00nm          6.1mb
VAH    85.69 105 iP    55 51.90   3.4X
       1.3s   115.00nm          5.9mb
TPT    85.73 104 iP    55 52.20   3.4X
       1.3s   170.00nm          6.1mb
TAB    85.88 309 eP    55 49.00  -0.3
RUV    85.94 105 iP    55 53.20   3.4X
       1.3s   105.00nm          5.9mb
SLY    85.97 307 ePc   55 48.00  -1.6
                i      59 13.00
                i      01 10.00
BHD    86.36 304 iPd   55 51.00  -0.6
                ePP    59 09.00
                ePPP   01 06.00
                eS     06 04.00
                eSKS   06 19.00
                ePS    07 14.00
AAE    87.26 279 eP    56 03.00   6.3X
NAI    87.72 269 iP+   55 58.50  -0.4
     Z  24s    14.96um          6.3MszX
                iS     06 44.00
MSL    87.99 307 ePd   55 59.00  -0.4
                e      57 23.00
                ePP    59 30.00
                ePPP   01 35.00
                eSKS   06 21.00
                eS     06 41.00
                ePS    07 29.00
SDN    88.10  33 eP    55 59.30  -0.1
     Z  20s    20.00um          6.5Msz
BKR    88.80 312 iP    56 04.00   0.7
                iS     06 40.00
ANM    88.83  24 eP    56 05.20   2.4
                PP     59 30.00
NVL    89.73 198 ePd   56 07.50   0.4
                e      56 19.50
                e      56 37.00
                e      56 56.00
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04d 11h

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                e      57 05.00
                e      57 14.00
                e      57 30.00
                e      57 38.00
                e      57 42.00
                e      58 06.00
                e      58 46.00
                ePP    59 48.00
MTD    90.64 253 iPd   56 12.60    0.3
BFT    90.68 244 iPc   56 14.00    1.4
       1.0s    100.00nm          6.1mb
PTZ    91.25 256 iPd   56 29.00   13.8X
                i      00 22.50
SVW    92.08  29 eP    56 18.90    0.9
SLR    92.24 244 iPc   56 18.31   -1.4
       0.9s     50.42nm          5.9mb
     Z  18s     18.56um          6.6Msz
                ed     56 26.09
                ePP    59 56.46
TTA    92.32  27 P     56 18.70   -0.4
       1.0s     32.50nm          5.7mb
PDB    92.49  30 P     56 29.10    9.3X
PRY    92.74 242 iPc   56 23.50    1.5
BUL    92.89 249 iPd   56 23.10    0.4
KDC    92.97  32 eP    56 24.30    2.2
KSR    93.45 243 iPd   56 26.00    0.7
       1.0s     50.00nm          5.9mb
HRI    93.50 303 eP    56 25.80    0.5
HOL    93.58 299 eP    56 25.00   -0.5
BHL    93.65 304 P     56 24.00   -1.9
HVD    93.75 239 iPc   56 28.20    1.6
       1.0s     60.00nm          6.0mb
PRNI   93.76 300 eP    56 26.80    0.4
IMA    93.96  24 eP    56 26.40   -0.3
       2.3s    275.40nm          6.3mb
BRW    93.97  18 eP    56 27.30    0.8
FRS    94.07 239 iPd   56 28.00    0.2
       1.2s    125.00nm          6.2mb
LSZ    94.09 254 iPd   56 14.60  -13.7X
                i      56 20.00
RMN    94.10 300 eP    56 28.30    0.2
KVT    94.23 311 eP    56 29.00    0.6
SLKM   94.57  30 e(P)  56 26.60   -2.9
PMR    95.25  29 eP    56 32.00   -0.5
       1.7s     76.20nm          5.9mb
     Z  20s      4.50um          5.9Msz
OBN    95.48 325 iPc+  56 33.50   -0.2
       2.0s    352.00nm          6.5mb
     Z  20s      4.90um          6.0Msz
     N  10s      0.70um
     E  20s      3.10um
                epP    57 00.00   99kmX
                esP    57 20.00
                iPP    00 20.00
                iSKS   07 00.00
                eS     07 48.00
                iPS    09 08.00
                i      11 40.00
                iSS    13 52.00
SIM    96.05 314 eP    56 36.00   -0.6
                eS     07 50.00
COL    96.22  25 ePc   56 33.63   -3.3X
                ed     56 43.06
                iS     07 50.46
FBA    96.22  25 eP    56 35.70   -1.2
KMZ    96.65 255 iP    56 41.00    1.0
TOA    96.69  28 eP    56 39.60    0.4
KLU    96.77  29 P     56 43.50    4.0X
APA    97.94 337 eP    56 42.00   -2.6
BALM   98.47  29 e(P)  56 49.00    1.8
                iPP    00 45.00
PUL    99.14 329 eP    56 50.00   -0.1
                eS     08 17.00
ITU    99.53 310 iPd   57 00.00    7.7X
KEV   100.21 339 ePdiff57 04.00    9.2X
     Z  22s     23.20um          6.6Msz
                e      01 06.00
                e      07 32.00
                e      09 56.00
                e      15 32.00
                LR     48 22.00
SOD   100.53 337 iPdiff56 55.30   -1.0
KAF   101.03 332 iPdiff56 59.60    1.0
VRI   101.30 315 ePdiff57 00.00   -0.3
                e      59 00.00
INK   101.84  22 ePdiff57 02.00   -0.1
MLR   101.85 315 ePdiff57 02.00   -0.9
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                e      59 49.50
NUR   101.94 330 iPdiff57 03.50    0.8
     Z  24s     30.60um          6.7MszX
                e      00 24.00
                e      01 32.00
                e      03 18.00
                e      07 40.00
                e      08 40.00
                e      10 16.00
                LR     50 14.00
CMP   102.49 315 ePdiff57 08.00    2.4X
MBC   103.86  13 ePdiff57 11.50    0.5
       1.5s     42.00nm          6.0mb
UZH   104.22 318 iPdiff57 12.00   -1.1
VAY   104.39 311 ePdiff57 12.60   -1.5
TIM   105.15 315 iPdiff57 19.00    1.7
SKO   105.21 311 ePdiff57 16.50   -1.3
     Z  20s     10.83um          6.4Msz
     N  22s     12.94um
     E  22s     20.97um
                ePP    01 35.50
                ePPP   04 00.00
                i      05 18.00
                i      06 27.00
                i      06 57.00
                i      07 22.00
                iSKS   07 56.00
                iPS    10 54.00
                i      13 22.00
                iSS    17 06.00
                i      19 00.00
                LR     49 48.00
UPP   105.51 330 iPdiff57 17.90   -0.7
                i      00 32.00
                i      02 47.00
                iSKS   07 54.00
KRA   105.63 320 ePdiff57 19.70    0.3
     Z  24s     21.10um          6.6MszX
     E  24s     24.50um
                e      57 26.70
                eS     07 58.00
                i      10 58.00
                i      11 59.00
PSZ   105.88 317 ePdiff57 21.50    0.8
APO   107.16 331 ePKP  01 39.30    4.1X
       1.9s    125.60nm
KSP   107.83 321 ePdiff57 30.50    1.3
                e      00 25.80
                i      01 46.80
                i      02 04.70
                id     13 11.00
VKA   108.21 318 ePdiff57 20.00  -11.0X
       7.0s   2612.00nm
     Z  17s      8.90um          6.4MszX
                e      01 30.00
                i      01 51.50
                e      04 39.00
BRT   108.47 310 PKP   01 37.60   -0.7
NAO   108.55 332 Pdiff 57 30.10   -2.1
       1.4s     28.30nm          6.3mb
PRU   109.08 320 ePdiff57 35.00    0.2
PRU   109.08 320 PKP   01 42.00    2.8X
       1.3s     19.60nm
TDS   109.24 309 PKP   01 40.70    0.9
CSI   109.27 309 PKP   01 39.60   -0.3
BRG   109.29 321 ePdiff57 35.70    0.0
       1.6s     22.00nm
                e      01 08.40
BRG   109.29 321 iPKP  01 40.00    0.5
     Z  18s     13.00um          6.5Msz
     N  18s      8.00um
     E  18s      6.00um
                i      11 04.00
                i      11 48.00
                e      12 50.60
                i      13 03.60
VBY   109.33 315 ePdiff57 39.00    3.0X
                e      01 40.50
CZI   109.44 309 PKP   01 39.50   -0.6
MMN   109.48 309 PKP   01 32.00   -8.2X
KONO  109.50 331 ePdiff57 34.94   -1.4
                ed     57 43.05
                ePP    02 08.71
                iSKS   08 12.88
                e      09 05.85
                eSDIF  09 47.36
                esS    09 58.62
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KMR   109.69 318 ePdiff57 37.00   -0.6
                e      00 38.00
                iPP    02 15.00
LJU   109.75 316 ePdiff57 38.00    0.1
LJU   109.75 316 ePKP  01 40.00   -0.6
                eSKS   08 04.00
                e      11 32.00
CLL   109.79 322 iPKP  01 40.40    0.0
     Z  21s     13.00um          6.5Msz
                eSKS   08 15.00
                PKKP   12 49.00
MGR   109.79 310 PKP   01 40.10   -0.7
KHC   109.86 319 Pdiff 57 45.00    6.7X
     Z  24s     20.50um          6.6MszX
     N  16s      3.30um
     E  24s     25.00um
                e      59 12.00
                iPP    02 18.50
                ScSP   11 40.00
KHC   109.86 319 iPKP  01 40.50   -0.2
       1.4s     30.10nm
                i      01 44.00
CEY   109.87 316 e(PKP)01 39.50   -1.4
SGO   109.93 310 PKP   01 42.30    1.3
RIY   109.96 315 ePKP  01 39.60   -1.3
VOY   110.20 316 ePKP  01 40.70   -0.8
TRI   110.34 316 ePdiff57 40.00   -0.5
                e(SP) 11 38.00
TRI   110.34 316 PKP   01 40.50   -1.1
MOX   110.79 321 Pdiff 57 43.00    0.6
FVI   110.86 317 PKP   01 43.90    1.3
YKA   111.02  25 ePKP  01 46.50    4.1X
       0.8s      4.90nm
GRF   111.25 320 ePKP  01 43.20   -0.1
                e      01 46.50
                e      08 34.00
ARV   111.28 313 PKP   01 43.80    0.2
ASS   111.55 313 PKP   01 42.40   -1.7
RSM   111.56 314 PKP   01 45.40    1.4
MNS   111.64 312 PKP   01 43.40   -0.9
CTI   111.73 316 PKP   01 44.20   -0.3
CRE   111.96 314 PKP   01 45.90    0.9
SFI   111.98 314 PKP   01 45.70    0.9
ERC   112.33 308 PKP   01 45.50   -0.3
WDC   112.50  49 ePKP  01 48.80    2.9X
PNT   112.76  40 ePKP  01 50.00    3.8X
BDI   112.85 314 PKP   01 46.50   -0.1
PII   112.97 314 PKP   01 45.60   -1.1
PCC   113.06  53 ePKP  01 51.90    4.8X
BRK   113.11  52 ePKP  01 53.30    6.1X
MDI   113.11 316 PKP   01 49.40    2.5X
MIN   113.24  50 ePKP  01 51.00    3.4X
WTS   113.34 323 ePKP  01 50.00    2.9X
       1.0s     13.00nm
                ePP    02 39.00
BNS   113.43 322 iPKPd 01 47.80    0.4
     Z  21s     19.80um          6.7Msz
GCC   113.43  53 ePKP  01 53.00    5.2X
ORV   113.45  50 ePKP  01 46.00   -1.8
                PP     02 40.00
                PKKP   12 36.20
BOB   113.51 315 PKP   01 44.70   -3.2X
MHC   113.67  53 ePKP  01 53.30    4.8X
GWF   113.71 320 PKP   01 48.00   -0.1
FEL   113.75 319 PKP   01 49.00    0.7
PRS   114.02  54 ePKPd 01 53.80    4.7X
KLL   114.05 322 ePKPd 01 48.90    0.2
CDF   114.08 320 ePKP  01 47.10   -1.8
       1.2s     29.75nm
ENN   114.24 322 ePKP  01 48.50   -0.5
       2.0s    367.00nm
                ePP    02 47.00
                eSg    06 53.00
                eRg    07 01.00
DBN   114.26 324 ePdiff58 03.00    5.3X
PGF   114.29 313 PKP   01 50.00    0.5
CKI   114.40 315 PKP   01 48.80   -0.7
WLF   114.44 321 PKP   01 50.00    0.6
                e      02 40.00
                e      12 27.00
                e      20 14.00
BSF   114.55 319 ePKP  01 48.40   -1.5
       1.4s    113.25nm
CMB   114.55  52 ePKP  01 50.60    0.5
PRI   114.61  54 ePKPd 01 55.30    4.9X
NEW   114.63  40 e(PKP)01 50.00    0.1
                PP     02 45.50
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04d 12h

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                PKKP  12 30.60
                e     16 25.50
LOMF  114.66 319 PKP   01 52.00   2.0
HAU   114.79 319 ePKP  01 49.00  -1.2
       1.4s   104.55nm
     Z  22s    22.50um          6.7Msz
SBF   115.12 315 ePKP  01 50.00  -1.0
       1.5s   151.45nm
LPG   115.19 317 ePKP  01 50.80  -0.6
       1.6s   111.95nm
TOUF  115.22 315 PKP   01 53.30   1.9X
FRI   115.25  53 ePKP  01 55.70   4.3X
DOU   115.26 322 Pdiff 58 02.00  -0.3
DOU   115.26 322 PKP   01 51.00   0.0
     Z  19s     9.20um          6.4Msz
                i     03 02.00
                PS    12 28.00
                PKKP  12 32.00
                SPP   13 44.00
                SS    18 42.00
BNI   115.36 316 PKP   01 53.70   2.2X
CALN  115.53 315 PKP   01 53.00   1.1
FRF   115.75 315 ePKP  01 51.40  -0.7
       1.4s   113.25nm
LMR   115.90 314 ePKP  01 51.70  -0.7
       1.3s    72.20nm
LRG   115.98 315 ePKP  01 52.00  -0.5
       1.5s   198.50nm
     Z  22s    20.00um          6.7Msz
CDR   116.34 315 ePKPc 01 56.30   3.1X
                e     02 51.70
ISA   116.45  54 ePKP  01 58.00   4.2X
                eSKSP 12 26.00
ISA   116.45  54 iPdiff58 06.42  -1.6X
                eSKS  08 42.93
                iSDIF 10 49.05
                esS   10 59.81
LOR   116.61 319 ePKP  01 52.90  -0.8
       1.3s    92.05nm
     Z  22s    15.00um          6.6Msz
LBF   116.63 319 ePKP  01 52.90  -0.8
       1.4s   104.55nm
SMF   116.82 318 ePKP  01 53.00  -1.1
       1.3s    59.55nm
SSF   116.91 319 ePKP  01 53.60  -0.6
       1.2s   119.00nm
PAS   116.93  56 ePdiff58 10.56   0.4X
                iSKS  08 44.47
AKU   116.99 344 iPKP  01 53.30  -0.4
       1.5s   100.00nm
TNP   117.00  51 ePKP  01 54.50  -0.5
                ePKKP 12 21.30
MWC   117.01  56 ePKP  01 58.00   2.9X
                eSKSP 12 25.00
AVF   117.09 319 ePKP  01 53.30  -1.2
       1.0s    34.00nm
CLC   117.12  54 ePKP  02 00.00   4.9X
                eSKSP 12 21.00
SBB   117.13  55 ePKP  01 56.00   0.9
                eSKSP 12 20.00
BGF   117.50 319 ePKP  01 55.00  -0.4
       1.5s   211.55nm
EKA   117.51 329 PKPc  01 55.30   0.2
       1.2s    43.50nm
RVR   117.61  56 ePKP  02 01.00   5.0X
                eSKSP 12 22.00
SES   117.68  37 ePKPd 01 54.60  -1.0
       1.5s   102.00nm
MAF   117.79 318 ePKP  01 55.30  -0.6
       1.2s    29.75nm
PEC   117.80  56 ePKP  01 56.30  -0.1
                PKKP  12 17.20
GSC   117.85  54 ePKP  01 57.00   0.5
                eSKSP 12 18.00
TCF   118.00 319 ePKP  01 55.60  -0.8
       1.4s   139.40nm
PLM   118.13  57 ePKP  01 57.50   0.3
                PKKP  12 18.00
BAR   118.40  57 ePKP  02 02.00   4.5X
                eSKSP 12 19.00
LRM   118.41  42 ePKP  01 57.30  -0.2
LSF   118.46 319 ePKP  01 56.20  -1.0
       1.3s    61.35nm
CAF   118.53 317 ePKP  01 57.40   0.0
       1.2s   119.00nm
TPC   118.67  56 ePKP  02 02.00   3.9X
                eSKSP 12 16.00
LDF   118.68 322 ePKP  01 56.70  -0.8
       1.4s    78.40nm
PERF  118.70 314 PKP   02 00.52   2.7X
RJF   118.78 318 ePKP  01 57.60  -0.2
       1.3s   137.20nm
MTHF  118.81 315 PKP   01 57.32  -0.7
FLN   118.83 322 ePKP  01 56.90  -0.9
       1.5s   135.80nm
     Z  22s    25.00um          6.8Msz
LPO   119.20 317 ePKP  01 58.60   0.0
       1.4s   182.95nm
GRR   119.21 322 ePKP  01 57.80  -0.7
       1.3s    97.50nm
LSPF  119.25 315 PKP   01 58.10  -0.7
TRGS  119.34 314 PKP   02 02.59   3.4X
LFF   119.42 317 ePKP  01 58.90  -0.1
       1.4s   161.20nm
MFF   119.42 319 ePKP  01 58.30  -0.7
       1.2s   104.15nm
LPF   119.46 321 ePKP  01 58.50  -0.5
       1.4s   200.40nm
GRBF  119.54 315 PKP   02 02.48   3.0X
DUG   119.84  48 PKP   02 07.00   6.8X
GLA   119.86  57 PKP   02 01.50   1.2
DMU   120.12 329 ePKP  01 59.40  -0.7
       1.3s   205.00nm
EPF   120.31 315 ePKP  02 00.20  -0.7
       1.4s    95.85nm
ETA   120.37 328 ePKP  02 03.30   2.7X
FFC   120.55  29 ePKPd 01 59.80  -1.1
       1.7s   185.00nm
DCN   120.59 329 ePKP  01 59.80  -1.2
BTH   120.66 316 PKPc  02 01.90   0.4
                i     02 05.20
                i     02 10.90
                PP    03 28.00
                i     03 30.80
                i     04 43.00
                PPP   06 11.00
                i     06 13.00
                i     08 14.00
                SKS   09 01.00
                sSKS  09 55.00
                PKKP  12 13.50
                SP    13 27.00
                SKKP  16 01.50
                SKKS  19 41.00
ECP   120.71 327 ePKP  02 03.60   2.4
       1.2s   340.00nm
MSU   120.76  50 PKP   02 01.40  -0.7
ECB   120.84 328 ePKP  02 03.90   2.4X
EBR   120.89 313 ePKP  02 02.00   0.1
                ePP   03 28.00
                eSg   12 20.00
DAU   120.92  48 PKP   02 03.20   0.7
EROQ  120.95 313 ePKP  02 01.64  -0.4
BW06  121.38  44 ePKPd 02 02.00  -1.2
                PP    03 40.00
                PKKP  12 04.80
ECHE  122.33 312 ePKP  02 05.41   0.6
ECRI  122.43 316 ePKP  02 05.69   0.8
ETOR  122.73 314 ePKP  02 05.83   0.2
PV09  123.06  49 ePKP  02 06.20  -0.4
                PKKP  11 59.40
                e     15 52.50
FRB   123.64   7 ePKP  02 05.00  -1.5
ENIJ  124.04 309 ePKP  02 07.82  -0.4
EHUE  124.0B 310 ePKP  02 08.50   0.1
GUD   124.28 314 ePKP  02 09.32   0.6
RSSD  124.58  41 ePKP  02 06.00  -3.3X
     Z  20s    12.43um          6.6Msz
                i     02 12.30
                PP    03 52.00
                PKKP  11 52.00
                e     15 12.00
EGUA  125.12 310 ePKP  02 09.71  -0.6
EMON  125.35 318 ePKP  02 11.00   0.5
GOL   125.42  47 ePKP  02 10.00  -1.1
     Z  19s     7.08um          6.4Msz
                i     02 15.00
GLD   125.51  46 ePKP  02 10.50  -0.7
     Z  20s     8.00um          6.4Msz
ERUA  125.67 317 ePKP  02 11.51   0.3
MAL   125.80 310 iPKPc 02 11.00  -0.6
                iPP   03 56.00
                iS    13 58.00
                iPS   15 32.00
EPLA  125.86 314 ePKP  02 12.29   0.6
EHOR  126.07 311 ePKP  02 12.22   0.1
ANMO  126.17  52 ePKPc 02 12.09  -0.6
     Z  20s     8.51um          6.4Msz
                iPP   04 04.66
                PKKP  11 45.50
ALQ   126.17  52 ePKP  02 10.00  -2.7X
     Z  20s     8.33um          6.4Msz
EPRU  126.34 310 ePKP  02 12.63  -0.1
STS   126.40 318 ePKP  02 12.56   0.0
EJIF  126.69 310 ePKP  02 13.62   0.3
NKM   126.97 309 iPKP  02 14.00   0.1
                i     02 17.00
                i     02 28.00
EVAL  127.26 312 ePKP  02 15.55   1.2
IFR   127.34 306 iPKPd 02 16.00   1.1
AVE   129.23 307 iPKP  02 19.00   0.8
TIO   129.81 304 iPKP  02 19.65   0.0
                i     02 55.00
KIC   129.82 272 PKP   02 19.38  -0.5
LIC   130.09 271 PKP   02 19.86  -0.6
     Z  21s    28.00um          6.9Msz
TIC   130.12 272 PKP   02 19.72  -0.8
MEO   132.30  50 iPKPd 02 28.50   4.4X
PEL   136.46 161 ePKP  02 29.00  -3.1X
FVM   136.54  41 ePKP  02 30.30  -1.7
                PP    05 18.00
POW   137.02  44 PKP   02 25.00  -8.0X
LPA   137.16 177 ePKP+ 02 32.00  -1.2
                ePP   05 18.00
                ePKS  06 09.00
                ePPS  17 30.00
                eSS   23 26.00
MDZ   137.26 163 ePKP  02 24.00  -9.6X
                i     05 16.40
CLE   139.44  31 ePKP  02 36.00  -1.3
SCP   141.76  28 ePKPc 02 32.37  -9.1X
MBO   141.89 283 ePKP  02 47.00   4.7X
TBR   143.06  24 e(PKP)02 40.00  -3.7X
BLA   143.14  34 ePKP  02 40.80  -3.2X
GMTN  143.29  24 iPKP  02 39.70  -4.3X
NA2   143.89  31 PKP   02 42.30  -2.8X
CBN   144.02  30 iPKPc 02 42.30  -3.1X
                e     02 47.00
JSC   144.67  39 ePKPc 02 43.50  -3.1X
                e     02 49.70
LHS   144.81  38 PKP   02 44.20  -2.6X
ANT   145.12 155 iPKPc+02 47.00  -0.6
LPS   146.26  76 iPKPc 02 50.00   0.1
ITB7  146.96 182 e(PKP)02 54.50   3.8X
ITB   147.29 182 e(PKP)02 55.00   3.8X
ITB1  147.44 182 PKPc  02 55.50   4.1X
VAO   148.03 195 ePKP  02 53.90   1.4
                e     02 57.80
PT10  150.59 133 e(PKP)03 03.00   6.4X
NNA-  150.74 133 e(PKP)03 00.00   3.1X
     Z  20s    15.96um          6.8Msz
ARE   150.82 147 ePKP  02 59.00   1.8
CNCB  152.26 153 PKP   03 02.00   2.3X
                i     06 50.00
LPB   152.45 153 PKP   03 03.80   4.0X
       1.1s   531.65nm
                i     03 05.20
                eLR   55 14.00
CCH   152.51 157 ePKP  03 02.00   2.3X
                i     03 13.50
ZOBO  152.67 152 PKPc  03 01.00   0.7
                i     06 52.00
BAO   155.33 197 ePKPd 03 05.20   1.8
SIV   155.40 167 iPKP  03 04.80   1.5
                i     03 29.00
CAI   156.77 232 ePKP  03 06.70   1.5
PSO   157.03 106 ePKP  03 07.00   0.9
SOB1  157.59 220 ePKP  03 07.80   1.5
                e     03 11.10
                e     03 22.50
                e     03 39.90
BOG   161.05  99 iPKPc 03 11.00   0.6
                iPP   07 49.00
BMG   162.37  92 iPKPc 03 11.50   0.1
TRN   173.4B  67 ePKP  03 19.70   0.9
     S.D. = 1.1  on 328 of 419 obs.
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%  JUL  04, 1991  11h 57m 22.44± 1.16s
   40.256 N ± 8.3km   23.495 E ±11.9km
   DEPTH =  10.0km  (geophysicist)
 GREECE                            (364)
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04d 11h

MD 2.2 (THE).

PAIG	0.36	157	iP	57 29.80	0.0
			iS	57 35.56	
OUR	0.38	78	eP	57 29.92	-0.3
			eS	57 36.08	
SOH	0.58	349	eP	57 32.94	-1.2
			eS	57 41.48	
SRS	0.86	5	eP	57 40.24	1.2
KNT	1.01	334	iP	57 41.64	0.0
GRG	1.09	310	eP	57 46.00	3.1X
			eS	58 01.00	

S.D. = 1.2 on 5 of 6 obs.

& JUL 04, 1991 12h 17m 33.03s
60.276 N 151.975 W
DEPTH = 70.4km
KENAI PENINSULA, ALASKA (14)
<AEIC>.

RDT	0.37	325	iPc	17 44.34	-0.7
			eS	17 53.76	
NNL	0.41	124	iPc	17 45.81	0.5
REF	0.42	301	iPd	17 44.95	-0.6
			eS	17 54.23	
RSQ	0.43	296	ePc	17 44.86	-0.8
			eS	17 54.16	
RS2	0.43	296	eP	17 44.98	-0.7
			S	17 55.26	
RDN	0.46	302	ePc	17 45.09	-0.7
			eS	17 54.72	
RDW	0.46	297	ePc	17 45.10	-0.9
			S	17 55.41	
DFR	0.47	312	ePd	17 45.26	-0.7
			iS	17 55.45	
NCT	0.55	302	ePd	17 45.88	-0.8
			eS	17 56.64	
NKA	0.59	38	iPc	17 48.34	1.4
IVS	0.61	245	eP	17 46.80	-0.7
			eS	17 58.00	
HOM	0.64	165	iPd	17 47.41	-0.1
			eS	17 58.27	
XLV	0.83	171	iPd	17 48.82	-0.9
			eS	18 01.49	
CNPM	0.84	153	ePd	17 49.08	-0.8
			eS	18 01.84	
SLKM	0.90	74	eP	17 49.81	-0.8
			S	18 03.43	
SPU	0.91	358	iPd	17 50.05	-0.7
			eS	18 03.99	
CKL	0.94	349	iPd	17 50.46	-0.7
			S	18 03.71	
BGL	1.01	349	iPd	17 51.40	-0.7
CGLM	1.04	359	iPd	17 51.85	-0.5
NCG	1.14	356	iPd	17 53.08	-0.6
			S	18 09.76	
AUE	1.16	218	ePd	17 52.82	-1.0
AUH	1.18	220	ePd	17 53.25	-0.9
AUI	1.20	218	ePd	17 53.70	-0.6
			eS	18 09.32	
PDB	1.22	247	iPc	17 53.13	-1.5
			eS	18 08.97	
SEW	1.27	97	eP	17 53.91	-1.4
SUA	1.34	26	ePd	17 55.86	-0.5
			eS	18 14.43	
PMS	1.53	50	ePc	17 58.38	-0.5
			eS	18 17.32	
CDD	1.59	213	ePd	17 58.38	-1.4
MCNL	1.62	229	ePd	17 58.42	-1.6
SYI	1.68	187	eP	17 59.90	-1.0
SKT	1.72	7	eP	18 00.54	-0.9
PLRM	1.92	45	eP	18 02.74	-1.3
SVW	1.98	297	ePd	18 03.13	-1.9
KNK	2.07	55	eP	18 04.86	-1.3
LTI	2.07	95	ePc	18 04.03	-2.2
KNIM	2.11	86	ePc	18 03.91	-2.9
GHO	2.11	43	eP	18 05.47	-1.4
MTU	2.18	96	iPc	18 05.86	-1.9
CUT	2.29	20	eP	18 08.15	-1.1
GLI	2.48	74	eP	18 08.88	-3.1
VZW	2.78	71	eP	18 13.17	-3.0
VLZ	2.90	70	eP	18 15.15	-2.6
KLU	3.20	65	iPc	18 19.50	-2.6
TOA	3.36	54	eP	18 23.16	-1.1
PAX	4.12	46	ePc	18 33.26	-1.7
GLB	4.16	70	eP	18 31.61	-3.9

46 obs. associated

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* JUL 04, 1991 12h 30m 06.28± 1.80s
8.142 S ± 8.1km 124.627 E ±10.2km
DEPTH = 67.9 ± 19.4 km
5.1mb (13 obs.) 5.3Msz (1 obs.)
TIMOR (289)

KUPT	2.24	207	eP	30 43.00	1.2
AAI	5.67	39	ePc	31 43.10	13.1X
KNA	8.58	152	iPc	32 05.70	-4.5X
WB2	15.05	142	iPc	33 31.20	-5.3X
			eS	36 04.60	
CGP	16.49	0	eP	33 55.00	0.3
ASPA	17.81	151	eP	34 09.00	-2.2
	0.6s		41.20nm	4.8mb	
			iS	37 18.30	
WARB	18.05	174	eP	34 11.70	-2.4
			e	35 12.00	
QIS	19.03	132	eP	34 25.00	-0.8
			i	35 25.70	
PMG	22.30	95	eP	35 00.00	0.7
MRWA	22.48	200	eP	35 02.00	1.0
KGM	23.52	295	eP	35 16.00	4.8X
			e	36 15.60	
QLP	26.13	137	e(P)	35 37.00	1.1
			e	35 40.00	
STK	28.41	149	iPc	35 57.60	1.1
	0.7s		6.40nm	4.4mb	
			e	36 58.40	
			e	42 28.60	
RMQ	29.29	132	eP	36 06.00	1.5
BWA	34.10	144	eP	36 53.20	6.6X
TOO	34.86	150	eP	37 00.00	6.9X
CAN	35.07	144	eP	37 00.60	5.7X
CNB	35.28	144	e(P)	37 00.00	3.3X
CHTO	36.86	317	eP	37 09.00	-1.1
	1.3s		14.71nm	4.8mb	
WHN	39.71	346	eP	37 32.50	-1.2
NJ2	40.34	352	eP	37 39.50	0.6
CD2	43.68	334	eP	38 08.80	2.5
XAN	44.52	341	eP	38 12.50	-0.5
MAT	46.24	15	eP	38 25.00	-1.6
	1.3s		21.15nm	4.9mb	
LZH	48.14	337	eP	38 41.50	-0.2
	2.0s		42.00nm	5.1mb	
	Z 20s		3.31um	5.3Msz	
	N 15s		1.87um		
YAMJ	48.27	16	P	38 44.10	1.7
OFUJ	49.58	17	eP	38 56.10	3.6X
GBA	51.59	294	P	39 10.00	1.9
	0.7s		3.20nm	4.5mb	
GUN	51.84	315	P	39 09.60	-0.7
	0.8s		86.00nm	5.8mb	
PKI	51.97	315	P	39 10.00	-1.3
	0.7s		20.00nm	5.3mb	
KKN	52.19	315	P	39 12.00	-0.8
	0.8s		50.00nm	5.6mb	
DMN	52.20	314	P	39 14.20	1.3
	0.8s		42.00nm	5.5mb	
GTA	52.61	336	eP	39 15.50	-0.1
	1.6s		20.00nm	4.9mb	
MDJ	52.70	4	eP	39 15.50	-0.5
GKN	52.77	314	P	39 15.80	-1.2
	0.7s		40.00nm	5.6mb	
HOOJ	53.09	17	eP	39 22.70	3.8X
KUSJ	54.17	18	eP	39 27.20	0.3
ASAJ	54.51	16	eP	39 29.50	0.1
WMQ	61.59	330	P	40 19.00	0.0
	0.8s		20.00nm	5.3mb	
YAK	70.06	3	eP	41 12.00	-0.6
CNCB	152.25	153	PKP	49 56.00	5.6X
ZOBO	152.66	153	PKP	50 02.00	11.0X
			i	51 03.60	

S.D. = 1.3 on 30 of 42 obs.

? JUL 04, 1991 12h 31m 02.10± 0.84s
8.125 S ±17.3km 124.800 E ±30.1km
DEPTH = 33.0km (normal)
4.9mb (5 obs.)
TIMOR (289)

WB2	14.95	143	iPc	34 31.90	-1.0
			eS	37 09.60	
CGP	16.47	360	eP	34 59.00	6.6X
	1.2s		59.00nm	4.6mb	
ASPA	17.75	152	eP	35 09.40	1.0
	0.6s		72.80nm	5.0mb	
			eS	38 15.70	
IPM	26.86	297	ePc	36 45.00	3.1X
TOO	34.79	151	eP	37 57.00	5.1X
CAN	34.98	144	eP	37 57.90	4.4X
CNB	35.19	144	iPc	38 00.50	5.2X
CHTO	36.97	317	eP	38 10.10	-0.3
	1.3s		17.57nm	4.8mb	
MAT	46.18	15	eP	39 26.00	0.4
	1.2s		15.63nm	4.8mb	
LZH	48.19	337	eP	39 42.00	0.3
	2.0s		53.00nm	5.2mb	
	Z 22s		3.30um	5.3Msz	
	E 16s		1.53um		
			sP	39 55.00	
BJI	48.58	351	(P)	39 44.00	-0.3
HYB	52.27	299	eP	40 08.00	-4.9X

S.D. = 0.9 on 6 of 12 obs.

? JUL 04, 1991 13h 18m 15.22± 9.45s
43.499 N ±43.2km 128.490 W ±62.3km
DEPTH = 10.0km (geophysicist)
OFF COAST OF OREGON (30)

PGO	4.75	63	P	19 29.03	0.5
GT2	4.76	67	P	19 28.90	0.1
BMW	4.77	50	P	19 28.05	-0.9
RVW	4.87	55	P	19 29.97	-0.3
OBH	5.02	39	P	19 32.48	0.1
LVP	5.03	57	P	19 32.59	-0.1
VLMM	5.04	64	P	19 32.72	-0.1
FL2	5.13	56	P	19 34.27	0.2
MTMW	5.13	58	P	19 34.06	0.0
ERK	5.19	55	P	19 34.34	-0.6
SHW	5.20	57	P	19 35.43	0.4
JLK	5.23	57	P	19 35.43	0.1
STD	5.23	56	P	19 35.41	0.0
CDFW	5.28	58	P	19 36.15	0.1
SOSW	5.28	57	P	19 36.47	0.3
TDL	5.29	55	P	19 36.27	0.0
APM	5.35	63	P	19 37.29	0.2
VFP	5.35	68	P	19 38.34	1.1
KOSW	5.36	54	P	19 36.97	-0.3
LMW	5.41	52	P	19 37.98	-0.1
ASR	5.58	59	P	19 40.35	0.0
GHW	5.64	49	P	19 41.34	0.2
LON	5.74	53	P	19 42.36	-0.2
RVC	5.75	51	P	19 42.64	-0.1
VIPM	5.77	77	P	19 42.17	-0.9
FMW	5.91	52	P	19 44.88	-0.2
GSM	6.00	50	P	19 46.06	-0.2
RMW	6.14	48	P	19 48.27	0.0
HTW	6.38	45	P	19 51.39	-0.2
JBO	6.49	69	P	19 53.41	0.2
JCW	6.56	42	P	19 53.95	-0.1
TBM	6.66	54	P	19 55.96	0.3
RPW	6.94	42	P	19 59.12	-0.3
RSW	6.95	62	P	19 59.31	-0.3
MBW	6.99	39	P	20 01.21	0.9

S.D. = 0.4 on 35 of 35 obs.

JUL 04, 1991 13h 56m 06.68± 0.23s
8.119 S ± 3.5km 124.726 E ± 6.1km
DEPTH = 19.3km (5 depth phases)
5.3mb (30 obs.) 5.0Msz (4 obs.)
TIMOR (289)
Felt at Dili.

AAI	5.59	38	eP	57 32.50	1.5
KNA	8.55	153	iPd	58 11.00	-1.5
			eS	59 44.00	
MNI	9.50	1	ePc	58 25.50	-0.1
TSM	14.10	331	ePd	59 28.00	0.4
WB2	15.00	143	iPd	59 34.50	-5.0X
			eS	02 11.00	
DAV	15.13	3	eP	59 40.00	-1.1
CGP	16.46	360	iPd	59 59.00	0.7
	1.1s		1.67nm	3.1mb X	
NANU	16.86	211	eP	00 01.00	-2.3
ASPA	17.79	151	iPd	00 13.40	-1.5
	1.3s		323.50nm	5.3mb	
			i	00 17.80	
			eS	03 21.40	
WARB	18.06	174	eP	00 17.00	-1.3
	0.5s		42.00nm	4.8mb	
			eS	03 34.00	
MAP	18.34	358	iPd	00 23.00	1.3
PPR	18.75	341	ePc	00 27.00	0.1

04d 14h

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QIS     18.97 132 iPd    00 27.20  -2.3
                  e      03 45.00
PLP     19.16   1 ePc    00 34.00   2.2
PGP     21.80 350 eP     01 01.00   1.3
        1.0s    69.00nm          5.0mb
PMG     22.20  95 eP     01 05.00   1.3
MRWA    22.54 200 iPd    01 06.80  -0.1
FORR    22.83 173 eP     01 09.40  -0.4
COOL    22.89 188 eP     01 10.00  -0.4
BAL     23.60 197 iPc    01 17.70   0.5
        0.5s    45.00nm          5.3mb
KGM     23.60 294 ePc    01 20.10   2.7
KLB     24.24 195 eP     01 24.30   0.8
BAG     24.71 350 eP     01 20.00  -8.4X
MUN     25.03 197 eP     01 30.50  -0.6
NWAO    25.64 195 eP     01 36.00  -0.9
CVP     25.82 354 ePc    01 40.00   1.5
        1.7s   696.00nm          6.0mb
QLP     26.08 137 ePd    01 42.00   1.0
                  i      01 57.00  63kmX
PIP     26.59 351 ePd    01 49.00   3.4X
IPM     26.80 297 ePc    01 49.60   1.9
        1.3s    76.10nm          5.2mb
PSI     27.89 292 ePc    02 07.60  10.0X
STK     28.38 149 iPd    02 02.90   1.0
        1.0s    22.10nm          4.9mb
                  eS     07 29.40
SNG     28.44 302 eP     02 04.00   1.5
        1.1s   106.33nm          5.5mb
RMQ     29.23 132 eP     02 10.00   0.4
CMS     30.45 143 eP     02 20.00  -0.4
                  i      02 44.00 108kmX
                  i      03 10.00
BFD     33.14 153 iPc    02 43.20  -0.7
        0.4s    50.00nm          5.8mb
                  i      03 27.50 215kmX
                  i      03 40.00
COO     33.83 135 eP     02 49.80  -0.3
                  i      04 07.60 417kmX
LOE     34.06 318 eP     02 52.00  -0.1
BWA     34.06 144 eP     02 54.60   2.6
TOO     34.84 150 iPc    03 01.20   2.6
        1.0s   167.00nm          5.9mb
CAN     35.03 144 eP     03 01.50   1.2
                  e      04 08.70 337kmX
CNB     35.24 144 eP     03 04.00   1.9
BDT     35.80 315 eP     03 05.00  -1.9
        1.0s    69.00nm          5.5mb
CHG     36.91 317 ePd    03 17.00   0.6
        1.3s    49.04nm          5.2mb
CHTO    36.91 317 iPd    03 17.00   0.6
        1.3s    48.61nm          5.2mb
                  pP     03 21.90  16km
GYA     38.59 334 iPd    03 30.00  -0.5
        1.0s    20.00nm          4.8mb
      N  15s     0.50um
      E  15s     0.90um
                  PP     05 06.00
                  S      09 28.00
KMI     39.37 328 Pd     03 39.00   1.8
        2.5s   300.00nm          5.6mb
                  pP     03 44.00  17km
WHN     39.71 346 eP     03 41.00   1.4
        1.4s    40.00nm          4.9mb
      Z  20s     1.30um          4.8Msz
      N  20s     2.20um
TAU     39.93 154 eP     03 44.00   2.7
NJ2     40.34 352 Pd     03 44.50  -0.2
      Z  20s     1.40um          4.8Msz
DZM     42.44 114 iPc    04 01.90  -0.4
CD2     43.70 334 eP     04 12.00  -0.4
        1.2s    40.00nm          5.1mb
                  eS     10 40.00
XAN     44.53 341 P      04 17.50  -1.5
TIA     44.67 351 eP     04 19.00  -1.1
CHJJ    45.94  16 eP     04 29.00  -1.2
MTMJ    46.13  15 eP     04 30.70  -1.1
MAT     46.19  15 eP     04 31.00  -1.2
        1.3s    48.08nm          5.3mb
SHL     46.28 317 iP     04 32.50  -0.7
DL2     46.87 357 eP     04 36.00  -1.4
        1.2s   150.00nm          5.9mb
      Z  34s     1.80um          4.8MszX
                  epP    04 41.50  18km
TIY     47.02 347 eP     04 33.50  -5.3X
      Z  28s     2.39um          5.0MszX
NIIJ    47.06  16 eP     04 38.30  -0.7
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LZH     48.16 337 Pd     04 47.50  -0.4
        2.0s   120.00nm          5.6mb
      Z  22s     2.74um          5.2Msz
      N  19s     1.89um
                  pP     04 53.00  18km
                  sP     04 58.50
                  PP     06 38.00
                  eS     11 40.00
                  SS     15 00.00
YAMJ    48.22  16 eP     04 48.40   0.3
BJI     48.56 351 eP     04 49.00  -1.7
        1.5s    35.00nm          5.2mb
                  PP     06 46.00
OFUJ    49.53  17 eP     04 59.00   0.9
SNY     49.71 359 Pd     04 57.50  -2.0
HHC     50.21 347 P      05 02.40  -1.1
        1.0s    20.00nm          5.1mb
      Z  24s     3.40um          5.3MszX
      N  18s     1.00um
      E  20s     1.40um
                  PP     07 01.00
BTO     50.34 345 eP     05 04.00  -0.5
      N  20s     2.00um
      E  16s     0.90um
KOD     50.46 290 eP     05 07.00   1.0
AOMJ    50.54  15 eP     05 06.20   0.3
GBA     51.67 294 Pd     05 13.00  -1.8
        1.2s    23.80nm          5.0mb
CN2     51.68   1 eP     05 12.60  -1.8
HYB     52.20 299 eP     05 17.00  -1.9
        1.0s    40.00nm          5.3mb
MRRJ    52.47  15 P      05 21.30   0.9
GTA     52.63 336 Pd     05 21.40  -0.5
        1.4s    60.00nm          5.3mb
MDJ     52.67   4 Pd     05 21.00  -0.9
        1.2s   130.00nm          5.7mb
      Z  24s     1.51um          5.0MszX
      N  20s     1.10um
      E  20s     1.16um
                  pP     05 29.00  26km
                  sP     05 33.00
                  eS     12 50.00
HOOJ    53.04  17 eP     05 25.90   1.2
KUSJ    54.12  18 eP     05 32.40  -0.2
ASAJ    54.46  16 eP     05 35.20   0.1
KHZ     54.75 137 P      05 37.50   0.2
        1.0s   106.00nm          5.8mb
MNG     55.40 134 P      05 40.80  -1.4
CSY     58.90 187 iPd    06 07.10   0.6
        0.9s     8.90nm          4.9mb
                  i      06 55.20 211kmX
WMQ     61.62 330 P      06 24.00  -1.5
        1.2s    60.00nm          5.6mb
      Z  20s     2.90um          5.4Msz
      N  20s     2.80um
                  pP     06 34.50  35kmX
                  S      14 44.00
                  ScS    16 13.00
IRK     62.64 346 eP     06 32.20   0.1
                  e      15 03.00
KSH     65.38 320 P      06 50.00  -0.3
      E  20s     4.40um
                  S      15 36.00
QUE     67.24 307 eP     07 02.90   0.4
YAK     70.03   3 iPd    07 18.50  -0.3
                  iPcP   07 29.00
                  epP    08 02.00 182kmX
                  ePP    10 03.00
                  eS     16 33.00
                  eSKS   16 44.00
                  eScS   17 10.00
                  ePS    17 16.00
                  esS    18 38.00
MAW     72.03 201 eP     07 31.80   0.9
MAIO    75.38 311 eP     07 52.00   0.8
SPA     81.93 180 iPc    08 27.40   1.0
        1.0s    40.00nm          5.4mb
NVL     89.73 198 ePc    09 08.00   3.3X
PTZ     91.28 256 iPc    09 15.60   2.6
SES    117.66  37 ePdiff 11 09.00  -1.7
ALQ    126.15  52 ePKP   15 09.00  -1.3
VAO    148.02 195 (PKP)  15 54.00   3.8X
NNA    150.69 133 iPKP   16 02.30   7.8X
        1.2s    35.94nm
ARE    150.78 147 ePKP   16 04.00   9.2X
CNCB   152.23 153 PKP    16 05.00   7.7X
LPB    152.41 153 PKP    16 02.00   4.6X
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CCH    152.48 157 PKP    16 06.00   8.6X
                  i      16 18.00
ZOBO   152.63 152 PKP    16 02.00   4.1X
        1.0s    45.50nm
BAO    155.32 197 e(PKP)16 00.00  -1.0
SIV    155.37 167 PKP    16 03.80   2.9X
                  i      16 27.00
      S.D. = 1.3  on  88 of 102 obs.
-----------------------------------------
?  JUL  04, 1991  14h 11m 43.55± 3.10s
   11.347 S ±66.8km  125.985 E ±43.4km
   DEPTH =  33.0km  (normal)
   4.7mb (  4 obs.)
 TIMOR SEA                          (290)

MTN      5.25 107 eP     13 02.00   0.2
CHTO    40.12 318 eP     19 17.70  -0.4
        0.9s     5.97nm          4.3mb
CD2     47.13 334 P      20 14.60  -0.1
DL2     50.16 356 eP     20 38.50   0.6
GBA     54.16 296 P      21 15.00   6.8X
        0.9s     3.40nm          4.4mb
MDJ     55.79   3 Pc     21 24.00   4.3X
GTA     56.06 336 Pc     21 23.50   1.6
        1.0s    20.00nm          5.1mb
WMQ     65.02 330 P      22 26.00   3.2X
        0.7s    30.00nm          5.5mb
                  pP     22 37.00  36kmX
                  eS     30 42.00
                  ScS    32 05.50
YAK     73.19   2 iPd    23 10.70  -1.9
      S.D. = 1.5  on   6 of   9 obs.
-----------------------------------------
*  JUL  04, 1991  14h 24m 50.54± 0.53s
   8.265 S ±22.6km  124.394 E ±24.8km
   DEPTH =  33.0km  (normal)
   4.3mb (  3 obs.)
 TIMOR                              (289)

MTN      8.04 125 eP     26 48.00   0.1
                  eS     27 11.00
KNA      8.58 151 eP     26 55.00  -0.5
WB2     15.09 141 iPd    28 19.50  -3.6X
                  eS     30 59.30
ASPA    17.82 150 eP     28 58.40   0.6
        0.8s    20.50nm          4.3mb
                  eS     32 02.70
QIS     19.12 131 iPd    29 13.50  -0.2
        0.5s    11.00nm          4.4mb
TOO     34.87 150 iPd    31 44.80   3.8X
CHTO    36.80 317 eP     31 58.10   0.7
        1.1s     2.06nm          3.9mb
GUN     51.77 315 PKP    33 58.40   0.6
PKI     51.89 315 PKP    33 57.60  -1.1
KKN     52.11 315 PKP    33 59.80  -0.5
DMN     52.12 315 PKP    34 00.60   0.2
      S.D. = 0.7  on   9 of  11 obs.
-----------------------------------------
   JUL  04, 1991  14h 32m 04.44± 0.49s
   8.132 S ± 8.0km  124.606 E ±12.1km
   DEPTH =  33.0km  (normal)
   4.8mb (  8 obs.)
 TIMOR                              (289)

MTN      7.94 127 eP     34 00.50   0.0
                  eS     35 23.00
KNA      8.60 152 eP     34 08.00  -1.6
                  eS     35 44.00
WB2     15.07 142 eP     35 33.20  -3.5X
                  eS     38 10.50
CGP     16.48   0 eP     35 54.50  -0.3
ASPA    17.83 151 eP     36 10.90  -0.9
        1.1s    30.20nm          4.3mb
                  eS     39 16.60
PPR     18.73 342 ePc    36 21.00  -1.8
QIS     19.05 132 eP     36 27.00   0.2
PMG     22.32  95 eP     37 02.00   1.1
KGM     23.50 295 eP     37 18.00   5.6X
STK     28.43 149 eP     37 59.90   1.6
        0.5s     6.00nm          4.5mb
TOO     34.88 150 e(P)   39 00.00   5.0X
CHG     36.84 317 eP     39 13.00   1.3
CHTO    36.84 317 eP     39 12.80   1.1
        1.1s     7.95nm          4.5mb
GYA     38.54 334 P      39 26.20   0.2
NJ2     40.33 352 Pc     39 41.20   0.6
CD2     43.66 334 P      40 08.50   0.6
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04d 14h

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MAT     46.24  15 eP    40 27.00  -1.4
        1.5s    25.00nm          4.9mb
TIY     47.00 347 eP    40 34.50   0.0
LZH     48.13 337 Pd    40 43.70   0.2
        1.5s    31.00nm          5.1mb
                pP      40 48.70  17kmX
YAMJ    48.26  16 eP    40 44.60   0.3
BJI     48.56 351 eP    40 45.50  -1.0
OFUJ    49.57  17 eP    40 55.00   0.6
GTA     52.59 336 Pd    41 17.60   0.1
        1.0s    10.00nm          4.7mb
                PcP     42 33.20
MDJ     52.69   4 Pc    41 18.00   0.1
        1.0s    30.00nm          5.2mb
KUSJ    54.17  18 eP    41 29.10   0.3
ASAJ    54.51  16 eP    41 31.60   0.3
WMQ     61.57 330 eP    42 19.50  -1.5
        1.2s    10.00nm          4.8mb
                S       50 32.00
CCH    152.51 157 (PKP) 52 08.00  15.0X
ZOBO   152.68 153 PKP   52 10.00  16.4X
     S.D. = 1.0  on  24 of  29 obs.
-----------------------------------------
%  JUL  04, 1991  14h 39m 08.86± 0.67s
   41.158 N ± 8.4km   28.479 E ± 4.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 2.8 (ISK).

CTT      0.04 253 iPg    39 10.50  -0.4
ISK      0.45 102 ePg    39 18.00   0.0
DMK      0.86 321 iPg    39 25.50   0.1
                eSg     39 38.00
YLV      0.90 131 iPn    39 26.00  -0.1
HRT      0.96 110 ePn    39 27.50   0.3
IZI      1.12 137 iPn    39 29.50  -0.3
KGT      1.14 232 ePn    39 30.50   0.3
     S.D. = 0.4  on   7 of   7 obs.
-----------------------------------------
?  JUL  04, 1991  14h 49m 41.40± 1.42s
   39.129 N ± 8.0km   27.690 E ±17.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 3.1 (ISK).

IZM      0.80 205 iPg    49 57.00   0.0
                eSg     50 09.30
EDC      1.22   6 ePn   50 04.00  -0.2
EZN      1.27 304 iPn    50 04.80  -0.1
KGT      1.35 347 iPn    50 06.50   0.2
     S.D. = 0.3  on   4 of   4 obs.
-----------------------------------------
?  JUL  04, 1991  16h 29m 07.28± 1.01s
   14.922 N ± 9.4km  120.728 E ±42.7km
   DEPTH =  79.9 ± 28.3 km
   4.6mb (  1 obs.)
 LUZON, PHILIPPINE ISLANDS           (249)

PGP      1.43 171 eP    29 32.00   0.0
SZP      2.63 354 eP    29 49.00   0.7
CVP      2.96  21 eP    29 53.10   0.2
        1.7s   341.00nm
PIP      3.39 358 iPc   29 58.00  -0.9
LZH     25.93 327 eP    34 34.00   0.1
        2.0s    42.00nm          4.6mb
     S.D. = 1.1  on   5 of   5 obs.
-----------------------------------------
?  JUL  04, 1991  16h 32m 59.39± 7.35s
   12.029 S ±71.1km  118.606 E ±31.2km
   DEPTH =  33.0km  (normal)
   4.5mb (  4 obs.)
 SOUTH OF SUMBAWA ISLAND             (291)

NANU    10.88 195 eP    35 32.00  -3.9X
                eS      37 25.00
WARB    15.99 153 eP    36 44.00   0.5
        0.3s    18.00nm          4.7mb
                eS      39 38.00
WB2     17.05 119 eP    36 55.70  -1.3
                eS      39 49.70
MRWA    17.27 188 eP    36 57.00  -2.8X
                eS      38 56.00
BAL     18.57 185 eP    37 14.00  -1.8
        0.3s    11.00nm          4.5mb
                eS      40 29.00
ASPA    18.58 131 eP    37 17.20   1.2
        0.7s     8.50nm          4.0mb
                eS      40 30.30
COOL    18.91 173 eP    37 20.00   0.0
                eS      40 38.00
KLB     19.48 182 eP    37 27.00   0.3
        0.3s    10.00nm          4.6mb
                eS      40 47.00
MUN     19.98 186 eP    37 33.00   1.1
                eS      41 00.00
NWAO    20.84 183 eP    37 43.50   2.7X
                eS      41 20.00
     S.D. = 1.4  on   7 of  10 obs.
-----------------------------------------
%  JUL  04, 1991  16h 43m 34.66± 0.92s
   17.139 N ±11.8km   95.067 W ± 8.9km
   DEPTH =  33.0km  (normal)
 OAXACA, MEXICO                      ( 60)

PBJ      0.77 205 iP    43 49.00  -0.1
                eS      44 02.50
VHO      1.59 268 iP    44 01.00  -0.1
                iS      44 15.05
SCX      2.36  99 eP    44 12.00   0.1
                iS      44 39.00
IISM     2.87 310 eP    44 18.25  -0.8
PPM      3.89 300 iP    44 35.00   0.9
                iS      45 14.50
     S.D. = 0.8  on   5 of   5 obs.
-----------------------------------------
   JUL  04, 1991  17h 34m 41.05± 0.95s
   51.602 N ± 5.8km    7.133 E ±10.3km
   DEPTH =  10.0km  (geophysicist)
 GERMANY                             (543)
      ML 2.3 (BNS). MD 2.1 (UCC).

WTS      0.44 333 ePg   34 50.00   0.0
BNS      0.64 178 iPd   34 53.30  -0.6
        0.5s   130.00nm
                iS      35 02.80
STB      1.03 190 iPd   35 00.80   0.4
                eS      35 14.60
KLL      1.09 209 iPd   35 01.50   0.0
                iS      35 18.20
ENN      1.13 223 iPgc  35 02.30   0.1
        0.5s    40.00nm
                eSg     35 18.00
MEM      1.22 216 iPc   35 03.70  -0.1
                iS      35 22.20
TNS      1.61 148 ePn   35 09.90   0.2
WLF      2.04 198 iPc   35 18.52   2.8X
DOU      2.21 228 iP    35 21.80   3.6X
                iS      35 52.80
MOX      2.98 107 e(P)  36 12.00  42.7X
     S.D. = 0.4  on   7 of  10 obs.
-----------------------------------------
*  JUL  04, 1991  18h 15m 32.61± 1.31s
   37.891 N ±11.1km   21.189 E ±10.1km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN GREECE                     (368)
      ML 3.2 (ATH).

VLS      0.55 301 ePg   15 44.00   0.2
AGG      1.44  38 eP    16 01.06   2.3
                iS      16 27.97
IGT      1.77 338 eP    16 09.65   6.2X
VLI      1.82 129 ePn   16 04.00  -0.2
ATH      2.00  87 ePn   16 06.90   0.1
KEK      2.12 330 ePg   16 15.00   6.5X
LIT      2.43  24 eP    16 17.28   4.3X
                eS      16 50.85
KZN      2.45  10 ePb   16 18.20   4.8X
PAIG     2.81  43 eP    16 18.00  -0.4
GRG      3.20  17 eP    16 26.92   3.0X
OUR      3.27  41 eP    16 24.68  -0.2
SOH      3.37  29 eP    16 27.16   0.7
KNT      3.52  21 eP    16 29.36   0.9
VAY      3.59  17 ePn   16 28.00  -1.4
SRS      3.72  29 eP    16 29.32  -2.0
SKO      4.08   3 ePn   16 12.50 -23.9X
     S.D. = 1.3  on  10 of  16 obs.
-----------------------------------------
   JUL  04, 1991  19h 05m 29.64± 0.65s
    6.804 N ± 6.3km   72.997 W ± 8.1km
   DEPTH = 156.4 ±  7.0 km
   4.5mb ( 10 obs.)
 NORTHERN COLOMBIA                   ( 99)

BMG      0.28 344 eP    05 52.00  -0.5
BOG      2.41 206 iPc   06 13.00   2.2
                iS      06 42.30
UPA      6.83 289 iPd   07 06.30  -2.2
                S       08 13.00
PSO      7.05 218 eP    07 13.00   1.1
TRN     12.08  71 eP    08 17.00  -0.8
NNA     19.06 192 eP    09 40.00  -2.5
        0.7s     6.16nm          4.1mb
ZOBO    23.43 168 P     10 27.00   0.5
LPB     23.69 168 P     10 29.00   0.2
        1.0s    60.00nm          5.1mb
CNCB    23.98 168 Pc    10 32.20   0.4
CCH     24.97 164 (P)   10 39.00  -1.7
SIV     25.54 153 iP    10 44.40  -1.3
                i       11 20.00
BAO     33.32 132 ePc   11 56.00   1.1
FVM     34.84 336 iP    12 08.10   0.7
        0.5s    18.19nm          5.0mb
SOB1    35.73 116 eP    12 16.10   0.8
ALQ     41.61 317 eP    13 04.00  -0.1
ANMO    41.61 317 eP    13 04.00  -0.1
        1.2s     1.95nm          3.6mb
                pP      13 43.60 182kmX
GOL     43.79 323 iPc   13 22.10   0.3
        0.6s    14.20nm          4.8mb
RSSD    46.02 329 iP    13 40.30   1.0
        0.7s     6.57nm          4.3mb
SCH     48.14   5 eP    13 56.00   0.6
BW06    48.17 324 iP    13 56.00  -0.2
        1.0s     5.25nm          4.2mb
TNP     50.66 315 iP    14 15.70   0.4
        0.9s     5.66nm          4.3mb
ORV     54.31 315 eP    14 42.00  -0.1
YKA     63.32 340 eP    15 43.00  -0.8
        0.6s     8.10nm          4.8mb
KIC     67.75  86 P     16 12.80  -0.1
MBC     73.84 350 ePd   16 49.10   0.8
        0.6s     8.00nm          4.6mb
OIS    145.59 243 iPKPc 24 51.80   0.1
ASPA   149.20 234 ePKP  25 01.20   3.8X
        1.1s     7.00nm
WB2    150.42 241 iPKPc 25 04.50   5.2X
WRA    150.43 241 PKP   25 02.00   2.7X
        0.5s     5.30nm
     S.D. = 1.1  on  26 of  29 obs.
-----------------------------------------
%  JUL  04, 1991  20h 19m 09.35± 1.03s
   38.896 N ± 7.2km   27.027 E ±16.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 3.1 (ISK).

IZM      0.53 160 iPg   19 20.10   0.0
                eSg     19 27.90
EZN      1.08 330 iPg   19 29.60   0.0
KGT      1.57   8 iPn   19 37.20  -0.1
EDC      1.59  24 ePn   19 37.00  -0.5
BNT      1.61  25 ePn   19 38.50   0.6
     S.D. = 0.6  on   5 of   5 obs.
-----------------------------------------
*  JUL  04, 1991  21h 17m 30.51± 1.06s
   15.510 S ± 8.0km  167.666 E ±11.1km
   DEPTH = 167.9 ±  9.6 km
   4.8mb (  8 obs.)
 VANUATU ISLANDS                     (186)

BKM      2.22 166 iPd   18 09.50  -0.1
PVC      2.30 164 iP    18 04.00  -6.6X
                iS      18 39.50
DZM      6.63 190 iPc   19 06.00  -0.7
                iS      20 21.30
HNR      9.66 308 eP    19 48.00   1.3
                eS      21 35.00
BRS     18.20 227 iPc   21 34.00   0.6
RMO     20.73 235 iPc   22 01.00   1.6
                i       22 07.00
COO     20.83 221 eP    22 01.00   0.6
CMS     25.50 228 iPd   22 45.20   0.2
BWA     25.59 219 eP    22 44.30  -1.6
CAN     25.86 217 eP    22 44.90  -3.5X
WB2     32.00 257 eP    23 38.40  -4.7X
WRA     32.01 257 P     23 47.00   3.8X
        0.4s     1.70nm          4.2mb
ASPA    32.76 250 eP    23 48.40  -1.3
        0.5s    11.40nm          4.8mb
PPR     54.59 294 ePc   26 42.00  -2.0
MAT     58.77 332 iPc   27 11.40  -1.8
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        1.2s    23.44nm          4.9mb
NJ2    66.50 316 Pd    28 04.00  -0.2
MDJ    69.15 332 Pd    28 20.80   0.4
DL2    69.15 323 eP    28 20.00  -0.5
        1.0s    60.00nm          5.3mb
CN2    70.51 329 P     28 28.00  -0.7
BJI    73.11 321 eP    28 43.50  -0.6
        1.2s    16.00nm          4.6mb
TIY    74.09 317 eP    28 50.40   0.4
XAN    74.50 313 P     28 52.00  -0.4
        1.0s    20.00nm          4.8mb
HHC    76.42 320 eP    29 04.00   0.8
CD2    76.79 308 P     29 05.50   0.1
LZH    79.12 312 eP    29 19.00   0.8
        1.5s    34.00nm          4.9mb
YAK    82.86 343 eP    29 36.00  -0.9
GTA    83.48 314 Pc    29 41.40   0.6
        1.0s    20.00nm          4.9mb
NB2   131.47 345 PKP   36 23.90  -0.3
        0.6s     0.60nm
HAU   144.11 338 ePKP  36 45.70  -2.0
        0.8s     5.35nm
      Z  20s     0.10um          4.6Msz
ARV   144.75 327 PKP   36 48.50  -0.5
SFI   145.00 329 PKP   36 49.00  -0.3
FLN   145.44 346 ePKP  36 49.60  -0.3
        0.8s    10.75nm
      Z  20s     0.10um          4.6Msz
BOB   145.51 332 PKP   36 51.00   0.7
LDF   145.52 346 ePKP  36 49.80  -0.2
        0.8s     8.05nm
LOR   145.60 340 ePKP  36 50.70   0.4
        0.8s     5.35nm
      Z  20s     0.08um          4.5Msz
LBF   145.81 340 ePKP  36 52.10   1.4
        0.9s    14.75nm
GRR   145.88 346 ePKP  36 51.30   0.7
        0.8s    14.80nm
SSF   145.89 341 ePKP  36 51.70   1.0
        1.0s    17.00nm
LPL   146.06 336 ePKP  36 52.70   1.3
        0.6s     3.60nm
LPG   146.07 336 ePKP  36 53.00   1.5X
        0.8s     6.70nm
SMF   146.15 340 ePKP  36 53.10   1.9X
        0.8s     8.05nm
AVF   146.18 340 ePKP  36 52.60   1.4X
        1.0s     9.00nm
LPF   146.26 346 ePKP  36 52.50   1.2
        0.8s     8.05nm
BNI   146.46 335 PKPc  36 54.10   2.2X
BGF   146.55 341 ePKP  36 53.40   1.6X
        0.6s     4.50nm
MAF   146.94 341 ePKP  36 54.80   2.3X
        0.6s     4.95nm
TCF   146.99 341 ePKP  36 54.80   2.2X
        1.0s     4.00nm
LSF   147.23 342 ePKP  36 55.20   2.3X
        1.0s     8.00nm
MFF   147.37 344 ePKP  36 55.70   2.6X
        0.8s     8.05nm
PGF   147.42 330 ePKP  36 55.90   2.4X
        1.0s    12.00nm
FRF   147.69 334 ePKP  36 56.30   2.6X
        1.0s     6.00nm
LMR   147.94 334 ePKP  36 57.00   2.9X
        1.0s     8.00nm
     S.D. = 1.0  on  36 of  52 obs.
-----------------------------------
   JUL  04, 1991  22h 31m 09.93± 0.36s
   30.538 S ± 9.1km   13.652 W ± 5.4km
   DEPTH =  10.0km  (geophysicist)
   4.6mb ( 12 obs.)  4.4Msz (  3 obs.)
 SOUTH ATLANTIC RIDGE              (410)

SOB1   33.10 304 eP    37 48.00  -0.3
                e      37 53.60
HVD    33.59 100 iPd   37 53.30   0.7
        1.2s    46.88nm          5.3mb
FRS    33.60  99 iPd   37 40.00 -12.5X
        0.8s    44.78nm
BAO    34.74 287 ePd   38 03.40   0.8
SEK    35.88  97 eP    38 12.50   0.2
        1.0s    10.00nm          4.6mb
KSR    35.90  93 eP    38 11.50  -1.0
        1.0s    15.00nm          4.8mb
PRY    36.10  95 eP    38 08.00  -6.2X
SLR    37.13  93 iPc   38 24.00   1.2
KIC    37.67  15 P     38 27.20   0.0
TIC    37.88  14 P     38 29.00   0.0
BFT    38.66  94 eP    38 36.50   0.7
BUL    39.38  85 iPd   38 40.50  -1.2
KRI    41.66  81 iPc   39 00.50   0.0
MTD    43.36  82 eP    39 14.00  -0.3
CCH    49.33 273 P     40 03.00   1.2
CNCB   51.16 273 P     40 16.00  -0.1
LPB    51.38 273 P     40 17.00  -0.6
      Z  18s     0.69um          4.7Msz
                  eLR   54 38.00
ZOBO   51.52 273 P     40 18.00  -0.9
        1.1s    13.63nm          4.8mb
      Z  20s     0.37um          4.4Msz
                  S     46 44.00
                  LR    54 34.00
SPA    59.63 180 iPd   41 16.10  -0.3
        1.0s    25.00nm          5.3mb
LPG    77.91  15 eP    43 10.20   0.5
        0.8s     2.70nm          4.4mb
LPL    77.93  15 eP    43 10.10   0.4
        1.0s     6.00nm          4.6mb
SMF    78.43  12 eP    43 11.60  -0.6
        0.6s     2.70nm          4.5mb
AVF    78.49  12 eP    43 13.00   0.6
        1.0s     6.00nm          4.6mb
SSF    78.78  12 eP    43 14.30   0.2
        0.8s     2.70nm          4.3mb
LBF    78.79  12 eP    43 13.10  -1.1
        0.8s     2.70nm          4.3mb
SKO    79.07  26 eP    43 16.50   0.7
GRF    82.88  16 ePKP  43 43.40   7.7X
      Z  22s     0.10um          4.1Msz
KHC    82.95  18 eP    43 21.00 -15.1X
ZST    83.09  20 eP    43 40.30   3.5X
SRO    83.11  21 eP    43 43.30   6.4X
ISR    83.72  27 ePd   43 44.00   3.8X
PRU    83.99  18 eP    43 41.00  -0.4
VRI    84.40  27 iPd   43 32.50 -11.0X
CLL    84.81  16 e(P)  43 44.00  -1.4
EKA    85.99   6 Pd    43 52.30   1.1
        1.0s     4.40nm          4.6mb
     S.D. = 0.8  on  27 of  35 obs.
-----------------------------------
*  JUL  04, 1991  22h 47m 27.68± 0.73s
   36.547 N ±13.0km   71.412 E ± 8.4km
   DEPTH =  33.0km  (normal)
   4.0mb (  2 obs.)
 AFGHANISTAN-USSR BORDER REGION    (717)

OUE     7.36 212 eP    49 16.90   1.2
                eS    50 36.80
MAIO    9.61 272 eP    49 45.00  -1.8
                eS    51 24.00
GKN    14.05 124 P     50 46.88   0.2
DMN    14.62 124 P     50 54.82   0.6
KKN    14.62 123 P     50 53.44  -0.8
PKI    14.85 123 P     50 56.94  -0.4
GUN    14.96 121 P     50 58.22  -0.5
HFS    43.23 322 eP    55 27.50   0.4
        0.4s     1.40nm          4.1mb
NB2    44.54 323 P     55 38.90   1.1
        0.5s     1.20nm          4.0mb
     S.D. = 1.1  on   9 of   9 obs.
-----------------------------------
   JUL  04, 1991  23h 20m 59.17± 0.68s
   43.006 N ± 5.9km   18.711 E ± 4.4km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                        (383)
      ML 1.9 (TTG).

BRY     0.16 229 iPgd  21 02.37  -0.6
                iSg    21 05.08
NKY     0.29 132 iPgc  21 05.47   0.3
                iSg    21 10.43
HCY     0.58 196 iPgd  21 11.00   0.1
                iSg    21 19.50
PLE     0.60  57 iPgd  21 10.95  -0.3
                iSg    21 20.03
TTG     0.70 145 iPgd  21 12.35  -0.7
                iSg    21 23.38
BDV     0.73 173 iPgc  21 13.68   0.2
                iSg    21 24.82
IVA     0.88  98 iPgc  21 16.43   0.3
                iSg    21 30.78
PVY     1.02 113 iPgd  21 18.47   0.0
                iSg    21 33.98
ULC     1.12 159 iPgd  21 20.47   0.4
                iSg    21 38.43
HVAR    1.67 277 ePn   21 29.00   0.5
                iSg    21 53.30
     S.D. = 0.5  on  10 of  10 obs.
-----------------------------------
*  JUL  04, 1991  23h 27m 42.64± 0.56s
   8.222 S ±23.2km  124.473 E ±25.8km
   DEPTH =  33.0km  (normal)
   4.3mb (  3 obs.)
 TIMOR                             (289)

MTN     8.00 126 iPc   29 39.00  -0.5
        0.3s    73.00nm          6.3mb X
                eS     31 08.00
KNA     8.58 151 eP    29 47.00  -0.6
                eS     31 24.00
WB2    15.08 142 eP    31 11.60  -3.5X
                eS     33 52.20
ASPA   17.82 151 iPd   31 49.20  -0.7
        0.6s    14.50nm          4.3mb
                eS     34 58.50
QIS    19.09 132 iPd   32 05.80   0.4
        0.6s    14.00nm          4.4mb
                eS     35 31.00
STK    28.42 148 eP    33 38.10   1.7
        0.8s     3.20nm          4.1mb
GUN    51.79 315 P     36 49.80  -0.3
PKI    51.91 315 P     36 50.80  -0.2
KKN    52.14 315 P     36 53.00   0.5
DMN    52.15 315 P     36 53.20   0.5
GKN    52.72 315 P     36 56.00  -0.8
     S.D. = 0.9  on  10 of  11 obs.
-----------------------------------
   JUL  05, 1991  00h 27m 27.79± 0.48s
   44.634 N ± 4.8km   10.009 E ± 4.3km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                    (545)

BOB     0.42 289 P     27 36.50   0.1
                eSg    27 44.90
MME     0.66 131 P     27 41.50   0.3
BDI     0.71 143 P     27 41.60  -0.3
                eSg    27 52.20
PII     0.98 158 P     27 47.00   0.5
                eSg    28 01.00
SAL     1.04  20 P     27 48.50   1.1
                eSn    28 03.50
PCP     1.05 265 P     27 48.56   0.9
                S      28 04.71
MDI     1.16 350 P     27 49.50   0.0
CKI     1.25 261 P     27 51.40   0.3
FIN     1.36 252 P     27 52.15  -0.6
ROB     1.57 258 P     27 55.43  -0.4
IMI     1.69 245 P     27 56.77  -0.7
CTI     1.83  39 P     27 58.20  -1.4
     S.D. = 0.8  on  12 of  12 obs.
-----------------------------------
&  JUL  05, 1991  01h 47m 36.70s
   45.232 N          73.896 W
   DEPTH =  18.0km  (geophysicist)
 SOUTHERN QUEBEC                   (447)
      <OTT-P>. mbLg 3.8 (OTT). Felt at
      Chateauguay, Laval and Montreal.
      Felt (IV) at Champlain and
      Churubusco, New York. Felt (III)
      at Altona, Donnemora, Fort
      Covington and Morrisonville, New
      York.

MNT     0.33  35 Pd    47 43.36  -0.5
WBO     1.00 257 Pd    47 54.73  -0.5
TRO     1.09 335 Pd    47 56.59  -0.2
OTT     1.29 278 P     47 56.95  -2.9
DPQ     1.65  28 P     48 05.05   0.2
GRQ     1.94 316 P     48 10.79   1.6
BNH     1.98 108 P     48 09.00  -0.8
CKO     2.61 288 P     48 19.55   0.8
DAO     3.29  33 P     48 29.11   0.7
EEO     3.88 293 P     48 36.06  -0.7
GMTN    4.35 183 Pn    48 49.70   6.2
CBM     4.36  65 P     48 42.00  -1.6
WVLY    4.36 232 P     48 44.00   0.4
LVNJ    4.47 189 P     48 43.00  -2.1
MNQ     6.32  31 P     49 07.90  -3.4
LMN     6.41  81 P     49 10.52  -2.1
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05d 01h

```
                    S      50 21.12
SCH     10.62  23 P       50 07.00  -4.0
        0.5s     3.70nm          5.0mb X
        17 obs. associated
-----------------------------------------
%  JUL 05, 1991  01h 54m 53.70± 1.97s
   15.013 N ±12.2km   92.247 W ±23.0km
   DEPTH =  10.0km  (geophysicist)
 MEXICO-GUATEMALA BORDER REGION  ( 62)

TPX      0.11 187 iP      54 56.50    0.0
                  iS      55 12.00
SCX      1.75 348 eP      55 24.50    0.2
PBJ      3.36 295 iP      55 40.50   -6.8X
                  iS      56 25.50
OXX      4.77 296 (P)     56 09.00    1.4
VHO      4.77 296 (P)     56 08.50    0.9
IISM     6.30 310 (P)     56 30.00    1.0
PPM      7.31 304 iP      56 41.50   -2.2
III      7.68 297 (P)     56 49.00    0.4
MRX      9.73 300 iP      57 15.00   -1.8
     S.D. = 1.5  on   8 of   9 obs.
-----------------------------------------
   JUL 05, 1991  02h 02m 35.34± 0.55s
   38.438 N ± 6.1km   20.978 E ± 3.8km
   DEPTH =  10.0km  (geophysicist)
   3.4mb (  1 obs.)
 GREECE                            (364)
     ML 3.4 (ATH).

VLS      0.40 230 ePb     02 42.80   -0.8
IGT      1.20 335 eP      02 59.74    2.0
                  eS      03 20.74
AGG      1.21  61 eP      02 56.42   -1.4
KEK      1.57 325 ePn     03 04.70    1.4
KZN      1.96  18 ePn     03 12.00    2.9X
LIT      2.03  35 eP      03 10.10    0.1
ATH      2.21 101 ePn     03 14.20    1.7
VLI      2.32 137 ePn     03 15.00    0.9
FNA      2.36   7 eP      03 16.46    1.6
PAIG     2.57  54 eP      03 16.46   -1.3
THE      2.68  34 eP      03 19.22    0.0
OUR      3.00  50 eP      03 22.98   -0.8
SOH      3.01  37 eP      03 24.26    0.4
                  eS      04 00.94
LCI      3.01 310 P       03 22.30   -1.6
                  eSn     04 00.30
KNT      3.10  28 eP      03 25.02   -0.1
VAY      3.13  23 ePn     03 26.00    0.4
SRS      3.35  36 eP      03 27.98   -0.8
SKO      3.55   6 ePn     03 32.00    0.4
ROI      3.62 290 P       03 33.60    1.0
BRT      3.80 311 P       03 35.20    0.0
                  eSn     04 20.30
TDS      3.81 290 P       03 36.00    0.6
CZI      3.86 283 P       03 36.50    0.5
ORI      3.87 296 P       03 35.50   -0.7
CSI      3.88 292 P       03 37.90    1.5
SOI      3.89 266 P       03 36.10   -0.4
                  eSn     04 22.70
RDO      4.43  51 ePn     03 44.20    0.1
MGR      4.54 294 P       03 45.60    0.0
SDI      6.39 303 P       04 11.30   -0.6
ARV      7.90 312 Pd      04 31.00   -2.1
                  eSn     05 55.90
MLR      7.96  26 ePc     04 34.50    0.6
VRI      8.56  28 ePd     04 42.50    0.3
HFS     22.20 350 eP      07 30.10   -3.0
        0.4s     0.60nm          3.4mb
     S.D. = 1.2  on  31 of  32 obs.
-----------------------------------------
%  JUL 05, 1991  03h 04m 12.97± 0.66s
   40.716 N ± 6.2km   29.077 E ± 5.5km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
     MD 2.8 (ISK).

YLV      0.27 124 iPg     04 19.00    0.3
                  eSg     04 23.00
ISK      0.35 358 ePg     04 20.00   -0.2
HRT      0.46  77 ePg     04 22.50    0.1
IZI      0.48 141 iPg     04 22.40   -0.4
CTT      0.65 311 iPg     04 26.00    0.0
EDC      1.00 249 ePn     04 32.00    0.1
     S.D. = 0.3  on   6 of   6 obs.
-----------------------------------------
   JUL 05, 1991  03h 47m 46.81± 0.21s
   3.775 S ± 4.2km  135.864 E ± 5.1km
   DEPTH =  37.2km  (  6 depth phases)
   5.4mb ( 44 obs.)  5.1Msz (  9 obs.)
 WEST IRIAN REGION                (196)
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 21S, 49C
      Centroid Location:
      Origin Time        03:47:45.7 0.4
      Lat  4.02S 0.04 Lon 136.13E 0.04
      Dep  15.0 FIX Half-duration  2.3
      Moment Tensor;   Scale 10**17 Nm
        Mrr=-0.45 0.07  Mtt= 1.94 0.08
        Mff=-1.49 0.10  Mrt= 2.42 0.26
        Mrf= 0.09 0.19  Mtf= 0.42 0.07
       Principal Axes:
        T  Val=  3.48  Plg=32  Azm=355
        N       -1.49     16       95
        P       -2.00     53      208
      Best Double Couple:Mo=2.7*10**17
       NP1:Strike= 42 Dip=20 Slip=-145
       NP2:        278     79      -73

AAI      7.65 270 eP      49 36.00   -2.7
                  eS      50 58.50
MNDI     8.12 107 eP      49 44.00   -1.4
MTN     10.16 207 eP      50 11.00   -2.3
MNI     12.18 295 ePc     50 41.00    0.2
PMG     12.53 117 eP      50 46.00    0.5
KNA     13.80 210 eP      50 58.80   -3.4X
        0.5s   512.00nm          6.6mb X
                  eS      53 28.00
DAV     14.90 316 eP      51 14.00   -2.6
WB2     16.14 185 eP      51 27.00   -5.7X
                  eS      54 07.60
                  eS      00 24.40
RAB     16.27  92 eP      51 32.00   -2.4
                  iS      54 48.00
OIS     17.07 168 eP      51 38.00   -6.5X
                  e       54 55.00
                  i       56 41.50
CTAO    19.12 149 iP      52 08.00   -1.6
GUA     19.40  27 eP      52 09.30   -3.6X
        0.9s   147.90nm          5.3mb
GUMO    19.43  27 eP      52 10.80   -2.4
        1.2s   311.11nm          5.5mb
                  eS      55 46.50
TSM     19.68 294 ePd     52 17.50    1.5
ASPA    19.87 185 iPc     52 16.30   -1.6
        0.6s  1342.40nm          6.4mb
                  eS      55 53.60
KKM     21.91 296 ePd     52 41.00    2.1
        0.9s   131.20nm          5.4mb
TRT     23.43 259 ePc     52 57.80    4.0X
WARB    23.97 201 eP      53 00.10    1.2
OLP     24.06 161 eP      53 01.00    1.3
                  i       53 19.00   80kmX
                  i       58 04.00
                  i       00 43.00
HNR     24.57 104 eP      52 53.00  -11.7X
BAG     25.11 323 eP      53 08.00   -2.1
                  eS      57 33.00
RMQ     25.74 153 eP      53 11.00   -4.8X
                  i       53 16.00   18kmX
                  i       54 06.50
                  i       01 25.00
                  i       02 10.90
NANU    27.14 225 eP      53 28.00   -0.7
FORR    27.91 194 eP      53 34.50   -1.0
        0.4s    97.00nm          5.8mb
                  e       53 58.00 107kmX
STK     28.47 170 iPc     53 38.90   -1.7
        1.0s    17.40nm          4.7mb
                  iPP     55 15.50
                  ePcP    56 00.90
                  eS      59 11.70
BRS     28.50 147 iPc     53 39.00   -2.0
                  i(PP)   54 54.00
                  iS      58 39.00
                  e       01 20.00
CMS     29.12 162 eP      53 47.00    0.5
                  e       54 16.00 136kmX
                  e       59 14.00
                  i       01 22.50
                  i       03 24.00
COOL    30.33 206 eP      53 56.00   -1.3
COO     30.66 152 eP      54 03.00    2.8X
                  e       54 30.00 124kmX
                  e       04 14.00
ADE     31.15 175 eP      54 05.50    1.0
MRWA    31.56 215 eP      54 07.50   -0.6
        0.5s    18.00nm          5.2mb
BAL     32.24 212 eP      54 14.00   -0.1
KLB     32.49 210 eP      54 15.40   -0.8
BWA     32.65 161 eP      54 19.10    1.4
KGM     33.03 279 eP      54 22.00    0.9
QZH     33.11 330 eP      54 18.00   -3.6X
      Z  28s      3.30um          4.9MszX
      N  16s      0.96um
                  S       59 32.00
MUN     33.58 211 eP      54 26.50    0.8
CAN     33.66 160 eP      54 29.80    3.4X
CNB     33.78 160 e(P)    54 30.00    2.5
                  e       02 00.00
BFD     33.80 170 eP      54 24.40   -3.1X
                  i       55 26.50 317kmX
                  i       02 14.00
                  i       04 37.00
                  i       06 11.00
NWAO    33.84 209 eP      54 28.00    0.1
      Z  20s      1.60um          4.7Msz
QIZ     34.20 312 P       54 30.00   -1.2
      N  17s      1.50um
      E  16s      1.20um
                  PP      55 46.00
                  S       59 54.50
GZH     34.58 322 P       54 33.50   -0.9
      Z  20s      1.30um          4.7Msz
      E  12s      0.90um
                  eS      59 56.00
TOO     34.77 167 iPd     54 37.70    1.7
                  e       02 17.00
DZM     34.78 124 iPc     54 34.60   -1.7
IPM     35.78 283 ePc     54 47.00    2.2
        1.0s    38.80nm          5.3mb
SNG     36.82 287 eP      54 55.10    1.6
SSE     37.39 339 Pc      54 58.00   -0.1
        1.1s    71.00nm          5.5mb
      Z  20s      4.20um          5.2Msz
      N  16s      2.00um
                  pP      55 09.00   39km
                  PP      56 24.00
                  S       00 38.00
PSI     37.47 279 ePc     55 07.90    8.9X
TSRJ    39.10   0 P       55 12.20   -0.1
NJ2     39.13 337 Pd      55 15.00    2.4
        1.0s    50.00nm          5.2mb
      E  14s      1.00um
                  S       01 10.00
NNT     39.41 295 eP      55 16.00    0.8
WHN     39.84 330 Pd      55 20.00    1.5
        1.0s   100.00nm          5.5mb
      N  13s      0.70um
      E  11s      0.50um
KAKJ    39.97   5 P       55 19.10   -0.4
MAT     40.17   3 (P)     55 20.00   -1.2
        1.1s    41.77nm          5.1mb
      Z  20s      3.55um          5.2Msz
                  eS      01 24.00
MTMJ    40.19   2 P       55 22.30    0.8
TAU     40.28 167 eP      55 16.00   -6.0X
                  e       01 33.00
NIIJ    40.91   4 P       55 27.80    0.6
GYA     41.25 318 P       55 31.00    0.7
        1.0s    70.00nm          5.3mb
      Z  24s      2.70um          5.0MszX
      N  16s      1.20um
      E  16s      0.70um
                  PP      57 13.00
                  S       01 40.00
BDT     41.95 301 eP      55 33.90   -2.2
CHG     42.72 303 ePc     55 42.40    0.0
        1.0s    64.50nm          5.3mb
CHTO    42.72 303 eP      55 42.50    0.1
KMI     43.12 314 Pd      55 48.00    2.2
        2.5s   440.00nm          5.8mb
                  pP      55 57.00   30km
TIA     43.47 338 eP      55 46.70   -1.5
      Z  33s      3.10um          5.0MszX
      N  10s      0.60um
      E  10s      0.60um
                  S       02 10.00
DL2     44.46 344 eP      55 56.00   -0.2
        1.2s   110.00nm          5.6mb
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      Z  20s      1.60um          4.9Msz
      E  18s      2.70um
                   S     02 28.00
XAN     45.39 328 Pc     56 03.50  -0.3
        1.4s   100.00nm          5.5mb
      N  11s      0.50um
                   S     02 43.00
CD2     46.13 321 P      56 11.40   1.8
        1.2s   100.00nm          5.6mb
                  PP     57 55.00
                   S     02 52.00
MRRJ    46.22   5 eP     56 08.70  -1.4
HOOJ    46.43   8 eP     56 11.60  -0.1
TIY     46.66 334 Pc     56 13.00  -0.8
        6.0s  1040.00nm          6.0mb X
      Z  26s      1.56um          4.8MszX
      N  16s      1.00um
                  PP     58 03.00
SNY     46.74 347 Pc     56 12.00  -2.2
        1.6s   100.00nm          5.5mb
      Z  21s      2.50um          5.1Msz
      N  16s      1.60um
                  esP    56 26.00
                   S     02 56.00
BJI     47.20 339 eP     56 17.00  -0.9
        5.0s   700.00nm          5.9mb X
      Z  17s      2.33um          5.2MszX
      N  17s      1.38um
                  eS     03 06.00
                  eSS    06 24.50
ASAJ    48.06   7 eP     56 24.60   0.0
CN2     48.28 350 eP     56 24.00  -2.3
        1.0s    19.00nm          5.1mb
      Z  21s      5.40um          5.5Msz
      N  15s      0.68um
      E  15s      0.64um
                  pP     56 38.00  53kmX
                  eS     03 14.00
MDJ     48.50 354 eP     56 27.50  -0.5
        1.0s    40.00nm          5.4mb
      N  16s      1.35um
      E  16s      1.22um
                   S     03 28.00
HHC     49.66 336 Pd     56 37.40   0.3
        1.1s    70.00nm          5.6mb
      Z  38s      4.00um          5.1MszX
      N  12s      0.60um
      E  10s      0.50um
                  PP     58 30.00
LZH     49.69 326 P      56 37.00  -0.5
        2.0s   330.00nm          6.0mb
      Z  32s      1.69um          4.8MszX
      N  13s      0.39um
                  pP     56 48.00  38km
                  PP     58 30.00
                   S     03 40.00
                  sS     03 59.00
BTO     50.10 334 P      56 39.00  -1.5
        5.0s  1000.00nm          6.1mb X
      N  13s      0.60um
      E  13s      0.40um
                  PP     58 31.50
                  eS     03 40.00
LTZ     50.54 146 P      56 42.70  -1.0
WEL     51.08 143 eP     56 46.00  -1.8
MNG     51.13 141 P      56 46.50  -1.7
HBZ     51.34 137 P      56 49.20  -0.6
NOZ     51.69 138 P      56 51.00  -1.4
LSA     54.22 311 P      57 12.40   0.5
        5.0s  1000.00nm          6.1mb X
                   S     04 49.00
GTA     54.29 326 eP     57 11.00  -0.9
        1.0s    40.00nm          5.4mb
      Z  30s      1.80um          5.0MszX
      E  15s      0.30um
                  pP     57 20.00  30km
                  sP     57 24.00
                   S     04 46.00
GUN     57.49 307 P      57 34.86  -0.6
        0.9s   139.00nm          6.0mb
PKI     57.73 306 P      57 36.54  -0.5
        1.2s   114.00nm          5.8mb
KKN     57.93 306 P      57 37.52  -0.8
        0.9s   147.00nm          6.1mb
DMN     57.99 306 P      57 38.16  -0.7
        0.9s   134.00nm          6.0mb
GKN     58.53 306 P      57 41.84  -0.6
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        1.1s   228.00nm          6.2mb
KOD     59.79 284 eP     57 52.00   0.5
GBA     60.48 288 Pc     57 55.50  -0.3
        0.8s    10.50nm          5.0mb
IRK     61.90 339 eP     58 04.00  -1.0
                  e      58 16.50  44km
                  ePP    00 21.00
                  eS     06 30.00
                  e      07 51.00
                  eSS    10 28.00
WMQ     64.11 323 P      58 20.00   0.2
        1.0s   100.00nm          5.9mb
      Z  24s      0.70um          4.8MszX
      N  14s      0.70um
                  pP     58 32.50  43km
NDI     64.85 304 eP     58 23.00  -1.7
CSY     64.88 191 eP     58 23.10  -1.1
        0.7s    17.10nm          5.2mb
POO     64.94 292 iPd    58 25.60   0.1
        0.8s    37.31nm          5.5mb
KSH     69.74 314 P      58 58.00   2.5
AFR     73.96 107 eP     59 23.00   2.2
        1.3s    40.00nm          5.2mb
PPT     74.16 107 eP     59 24.00   2.0
        1.3s    60.00nm          5.4mb
PPN     74.29 107 eP     59 25.00   2.3
        1.3s    60.00nm          5.4mb
TVO     74.47 107 eP     59 26.00   2.2
        1.3s    75.00nm          5.5mb
PMO     75.75 104 eP     59 40.00   8.9X
        1.3s    40.00nm          5.2mb
S8A     75.80 174 P      59 32.60   2.3
SDN     78.50  31 eP     59 46.70   1.1
MAW     80.08 202 eP     59 57.00   3.0X
        1.0s    39.00nm          5.3mb
MAIO    81.29 307 iPd    00 04.00   2.8X
                  eS     10 16.00
SVW     83.09  27 eP     00 11.90   2.0
KDC     83.49  31 eP     00 13.30   1.4
SLKM    85.41  28 eP     00 21.30  -0.3
IMA     85.61  23 eP     00 24.70   2.0
        1.0s    27.20nm          5.4mb
PMR     86.21  28 eP     00 25.90   0.4
        1.5s    73.80nm          5.7mb
FBA     87.63  25 eP     00 32.60   0.3
TOA     87.70  27 eP     00 33.80   1.0
IR4     88.04 305 iPc    00 39.00   3.9X
IR1     88.23 305 iPc    00 39.00   3.0X
IR7     88.33 306 iPc    00 38.50   2.0
BALM    89.30  29 eP     00 39.70  -0.8
BHD     93.28 303 eP     01 03.00   3.7X
INK     93.71  22 eP     01 02.00   1.5
MSL     94.40 306 ePd    01 06.50   2.1
NVL     97.09 196 ePc    01 18.00   2.0
MBC     97.15  13 eP     01 16.00  -0.1
        1.0s     6.00nm          5.1mb
SOD    100.81 338 ePdiff01 33.00   0.2
YKA    102.29  27 ePdiff01 45.00   5.6X
        0.9s     1.20nm          4.6mb
KAF    102.40 333 ePdiff01 42.70   2.7X
NUR    103.62 332 ePdiff01 48.90   3.5X
UPP    107.14 332 iPdiff02 01.20   0.1
APO    108.53 334 ePdiff02 13.60   6.3X
        0.5s     0.80nm          5.2mb
HFS    108.81 333 ePKP  06 33.60  20.1X
        0.5s     0.50nm
ZST    111.71 321 ePKP  06 20.00   0.6
BRG    112.63 324 e(PKP)06 28.70   7.7X
                  e      07 08.40
KHC    113.54 323 PKP   06 26.00   3.0X
                  e      07 22.00
VBY    113.81 319 e(PKP)06 27.60   4.1X
LJU    114.10 319 e(PKP)06 25.00   0.9
ALQ    114.71  53 ePKP  06 26.00   0.1
        1.0s     2.50nm
ARV    116.07 317 PKPd  06 31.40   3.4X
RSM    116.25 318 PKP   06 36.50   8.3X
SFI    116.65 318 PKP   06 30.90   2.0
BSF    118.17 324 ePKP  06 30.40  -1.5
LBF    120.25 324 ePKP  06 34.90  -0.9
        1.1s     9.75nm
LRG    120.47 319 ePKP  06 35.80  -0.4
        1.0s    16.00nm
      Z  22s      1.75um          5.7Msz
SSF    120.49 324 ePKP  06 34.10  -2.1X
        1.2s    11.90nm
SMF    120.50 324 ePKP  06 35.00  -1.3
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        1.0s     7.00nm
TCF    121.65 324 ePKP  06 37.60  -0.9
        1.1s    13.45nm
LSF    122.07 324 ePKP  06 38.00  -1.2
CAF    122.46 323 ePKP  06 39.80  -0.3
        1.1s    13.45nm
LPF    122.52 327 ePKP  06 41.60   1.6
        1.1s    19.55nm
TUL    122.73  49 ePKP  06 40.30  -0.5
        0.8s     4.10nm
      Z  22s      0.56um          5.2Msz
                  LR     47 06.00
LPO    123.12 323 ePKP  06 40.80  -0.5
        0.9s    11.45nm
SCH    125.90  16 ePKP  06 47.00   0.6
NNA    143.91 116 ePKP  07 18.50  -2.6X
        1.1s    18.99nm
UPA    144.46  80 ePKP  07 20.80  -1.2
ARE    146.30 127 ePKP  07 28.00   2.6X
CNCB   148.80 132 PKP   07 32.00   2.3X
                  i      07 35.20
LPB    148.89 131 PKP   07 33.00   3.3X
ZOBO   149.03 131 PKPc  07 32.00   1.9
        1.8s   252.53nm
CCH    149.77 135 PKPc  07 37.80   7.0X
MBO    151.20 293 ePKP  07 43.30  10.7X
SIV    154.19 140 ePKP  07 38.00   1.1
                  i      07 44.40
SOB1   166.70 194 (PKP) 07 52.00   1.6
                  e      07 58.90
     S.D. = 1.4  on 125 of 161 obs.
-----------------------------------
   JUL  05, 1991  04h 30m 52.55± 1.10s
    9.585 S ± 3.5km  114.673 E ± 4.1km
   DEPTH =  53.7 ±  9.7 km
   5.7mb ( 64 obs.)  5.6Msz ( 12 obs.)
 SOUTH OF BALI ISLAND              (284)
      Mo=1.0*10**18 Nm (PPT).
      FAULT PLANE SOLUTION: P-Waves
       NP1:Strike=260 Dip=85 Slip= -30
       NP2:        353      60      -174
       Principal Axes:
        T                  Plg=17  Azm=310
        P                     24       212
      Comment: The focal mechanism is
        poorly controlled and
        corresponds to strike-slip
        faulting with a large normal
        component. The preferred fault
        plane is not determined.
      RADIATED ENERGY
       No. of sta:   6  Focal mech.  C
       Energy        4.5±1.8*10**12 Nm
      MOMENT TENSOR SOLUTION
      Dep  33            No. of sta:  8
      Moment Tensor;    Scale 10**18 Nm
        Mrr= 0.02        Mtt=-0.59
        Mff= 0.57        Mrt= 1.12
        Mrf=-0.40        Mtf= 1.21
       Principal axes:
        T  Val=  1.41  Plg=16  Azm=309
        N        0.62      55       64
        P       -2.02      30      210
      Best Double Couple:Mo=1.7*10**18
       NP1:Strike=353 Dip=57 Slip=-169
       NP2:        257      81      -34
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 24S, 59C
      Centroid Location:
      Origin Time        04:30:59.6 0.4
      Lat  9.65S  FIX;Lon 114.60E  FIX
      Dep  15.0 FIX Half-duration  3.9
      Moment Tensor;    Scale 10**18 Nm
        Mrr=-0.05 0.03  Mtt=-0.36 0.03
        Mff= 0.41 0.04  Mrt= 1.63 0.05
        Mrf= 0.01 0.05  Mtf= 0.19 0.02
       Principal Axes:
        T  Val=  1.45  Plg=47  Azm=349
        N        0.40       8       87
        P       -1.85      42      185
      Best Double Couple:Mo=1.6*10**18
       NP1:Strike=340 Dip= 8 Slip= 163
       NP2:         87      88       82
TRT       2.75 313 iPd    31 38.50   3.4
                  eS     32 44.50
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05d 04h

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NANU    12.93 176 eP    33 46.00  -9.7X
TSM     14.15  13 eP    34 16.50   4.7X
AAI     14.65  67 eP    34 22.00   3.7X
MNI     14.92  43 ePd   34 28.00   6.2X
        1.0s   665.40nm          5.9mb
KNA     15.05 115 eP    34 19.00  -4.5X
                  eS    36 57.00
KKM     15.60   6 ePd   34 33.70   3.0X
        1.1s   230.50nm          5.3mb
KGM     16.15 315 eP    34 38.00   0.5
        1.0s   221.60nm          5.2mb
MTN     16.46 103 eP    34 42.00   0.5
        0.4s   167.00nm          5.5mb
                  eS    37 34.00
IPM     19.57 315 ePc   35 18.20  -0.9
        0.9s   259.50nm          5.5mb
                  e     35 37.00
MRWA    19.57 177 eP    35 13.00  -6.0X
DAV     19.81  34 eP    35 22.00   0.4
                  e     39 06.30
PSI     19.87 307 ePc   35 22.40   0.1
WARB    20.03 147 iPd   35 22.70  -1.2
                  eS    38 50.00
BAL     21.00 175 iPd   35 31.40  -2.4
        1.0s  1153.00nm          6.2mb
                  eS    39 09.00
WB2     21.61 121 iPc   35 39.40  -0.7
                  i     36 03.60
                  e     36 48.70
                  eS    39 27.60
SNG     21.76 319 eP    35 39.80  -1.7
        1.0s   186.00nm          5.4mb
                  eS    39 41.20
COOL    22.03 165 eP    35 41.40  -2.8
                  eS    39 27.00
KLB     22.09 173 iPd   35 43.00  -1.6
        0.6s   154.00nm          5.6mb
                  eS    39 35.00
MUN     22.33 177 iPd   35 45.30  -1.7
        0.6s   402.00nm          6.0mb
                  e     35 55.00
                  eS    39 30.00
ASPA    23.10 130 iPd   35 55.40   0.7
        0.7s   575.80nm          6.1mb
                  eS    40 06.50
NWAO    23.35 175 ePd   35 56.23  -0.7
        0.6s   107.00nm          5.5mb
                  eS    40 20.00
BSI     24.44 307 eP    36 06.50  -1.2
        0.7s   178.60nm          5.7mb
FORR    24.58 151 eP    36 07.70  -1.2
        0.5s   182.00nm          5.8mb
                  eS    40 35.00
RKG     24.96 175 iPc   36 02.60  -9.9X
                  iS    40 46.70
QIS     26.39 117 iPd   36 26.20   0.2
        0.8s   169.00nm          5.7mb
BAG     26.48  13 eP    36 26.00  -1.0
NNT     26.56 326 eP    36 28.70   1.2
QIZ     28.83 350 Pc    36 48.00   0.0
        0.8s    30.00nm          5.0mb
      N  19s     7.30um
      E  18s     3.20um
                  PP    37 41.00
                  S     41 30.00
KHT     28.99 326 iPc   36 50.00   0.5
BDT     30.83 330 iPc   37 03.00  -2.8X
        0.8s   229.50nm          6.0mb
CHG     32.20 331 ePc   37 18.20   0.3
        1.0s   145.75nm          5.8mb
                  eS    42 24.00
CHTO    32.20 331 iP    37 17.90   0.0
CTAO    32.20 113 iP    37 19.41   1.5
        1.0s   165.00nm          5.8mb
                  i(PP) 37 30.00
GZH     32.50 358 P     37 20.00  -0.3
      Z  20s     5.60um          5.3Msz
      N  18s     4.10um
      E  14s     2.40um
                  S     42 30.00
OLP     32.67 125 iPd   37 23.00   1.1
                  e     43 57.00
ADE     33.48 143 iPd   37 28.00  -0.9
        0.7s   249.32nm          6.2mb
QZH     34.53   6 Pc    37 36.50  -1.4
      Z  25s    11.00um          5.5MszX
      N  20s     5.49um

CMS     36.20 132 iPd   37 52.90   0.8
                  i     39 16.50
                  i     48 21.00
RMQ     36.35 122 iPd   37 55.20   1.7
KMI     36.41 342 iPc   37 55.79   1.7
        2.5s   700.00nm          6.1mb
                  sP    38 15.00
                  ePP   39 24.08
                  S     43 36.50
GYA     36.66 348 P     37 56.00  -0.1
        1.2s    50.00nm          5.3mb
      Z  28s     6.90um          5.3MszX
      N  15s     3.30um
      E  15s     7.30um
                  pP    38 06.00  34kmX
                  sP    38 09.60
                  PP    39 28.00
                  PcP   40 18.60
                  S     43 34.00
                  ScP   44 00.00
                  PcS   44 05.00
                  ScS   48 08.00
BFD     37.26 142 iPd   37 59.00  -2.0
                  i     39 16.00
GUMO    37.79  53 ePc   38 04.19  -1.4
TOO     39.34 140 iPd   38 20.00   1.6
        1.2s   264.00nm          6.0mb
                  i     39 48.00
                  i     47 40.00
BWA     39.56 134 iPd   38 22.80   2.5X
                  ePP   39 55.30
WHN     39.90 360 Pc    38 22.50  -0.4
        1.4s   100.00nm          5.5mb
      Z  24s     4.70um          5.2MszX
      N  14s     2.80um
      E  16s     1.90um
                  ScP   44 13.20
                  S     44 23.00
CAN     40.43 135 iPd   38 28.30   0.9
                  ePP   40 03.90
COO     40.44 126 eP    38 30.00   2.4
        1.2s   195.00nm          5.8mb
CNB     40.68 134 iPc   38 30.20   0.7
        1.2s   153.00nm          5.7mb
SSE     40.93   9 Pc    38 33.00   1.6
        6.0s   800.00nm          5.6mb X
      Z  22s     7.50um          5.5Msz
      N  22s     5.05um
                  PP    40 10.00
                  PcP   40 26.00
                  ScP   44 12.00
                  S     44 38.00
RIV     41.26 131 iPd   38 36.00   1.8
NJ2     41.59   5 Pd    38 37.80   1.0
        1.2s   100.00nm          5.4mb
      N  17s     2.50um
                  ScP   44 21.50
                  S     44 50.00
CD2     41.60 346 iPc   38 37.60   0.6
        1.0s   400.00nm          6.1mb
      Z  20s     8.80um          5.6Msz
      E  17s     6.40um
                  S     44 47.00
KOD     41.93 297 iPc   38 39.80  -0.5
        1.0s    70.00nm          5.4mb
GBA     43.55 301 Pc    38 51.70  -1.4
        0.8s    45.20nm          5.3mb
XAN     43.73 353 Pc    38 53.50  -0.8
        1.5s   200.00nm          5.6mb
      N  16s     4.50um
      E  15s     2.80um
                  S     45 19.00
TAU     43.75 145 eP    38 56.00   1.6
                  e     45 21.00
                  e     48 36.00
HNR     44.63  94 eP    39 03.00   1.1
HYB     44.65 307 iPc   39 01.20  -0.9
        1.0s   172.00nm          5.8mb
                  i     39 15.60
                  iS    45 30.40
LSA     45.15 331 iPc   39 07.50   1.1
        4.0s  1790.00nm          6.3mb X
      E  18s     2.70um
                  iS    45 44.00
TIA     45.61   3 eP    39 07.70  -1.6
        1.2s   100.00nm          5.6mb
      Z  32s     5.00um          5.2MszX

      N  14s     2.20um
      E  15s     2.10um
                  ScP   44 37.40
GUN     46.54 324 Pc    39 17.60   0.4
LZH     46.56 348 iPc   39 17.29   0.3
        2.0s   580.00nm          6.2mb
      Z  22s     7.15um          5.6Msz
      N  17s     2.49um
      E  17s     4.53um
                  PcP   40 53.00
PKI     46.56 323 Pc    39 17.20  -0.2
DMN     46.77 323 Pc    39 19.00   0.1
KKN     46.80 323 Pc    39 19.00  -0.1
TKSJ    47.07  22 P     39 28.00   7.1X
TIY     47.09 358 iPc   39 20.70  -0.4
        1.0s    30.00nm          5.2mb
      Z  26s     5.10um          5.4MszX
      N  24s     5.50um
                  S     46 07.50
GKN     47.34 323 Pc    39 23.00  -0.3
WKYJ    47.88  24 eP    39 30.40   3.1X
YONJ    47.94  21 P     39 27.00  -0.8
DL2     48.67   7 eP    39 31.50  -1.8
        1.0s    80.00nm          5.7mb
      Z  24s     4.00um          5.3MszX
      N  21s     4.30um
                  eS    46 26.50
POO     49.02 305 iPc   39 36.20  -0.1
BJI     49.39   2 ePc   39 36.76  -2.0
        1.4s   120.00nm          5.7mb
      Z  19s     4.73um          5.5Msz
      N  14s     2.16um
                  iPcP  41 02.67
                  eScP  44 52.00
                  eS    46 39.00
                  eScS  49 27.00
BTO     50.11 355 iPc   39 43.50  -1.0
        6.0s  1100.00nm          6.1mb X
      N  20s     2.50um
      E  20s     3.40um
                  S     46 51.00
HHC     50.26 357 eP    39 44.80  -0.8
        1.3s    90.00nm          5.6mb
      Z  26s     7.90um          5.6MszX
      E  20s     2.60um
                  pP    39 54.00  31kmX
GTA     50.66 345 iPc   39 49.60   0.9
        1.4s   180.00nm          5.9mb
      Z  20s     9.20um          5.8Msz
      N  19s     5.20um
                  pP    40 02.00  45kmX
                  sP    40 07.00
                  PP    41 46.00
                  ScP   44 58.80
                  S     47 00.00
                  ScS   49 33.00
CHJJ    50.85  25 P     39 50.00   0.0
MAJO    50.94  24 ePc   39 48.92  -1.8
MAT     50.94  24 eP    39 49.00  -1.7
        1.6s   100.00nm          5.6mb
      Z  20s     1.42um          5.0Msz
                  eS    46 55.00
DZM     51.11 111 iPc   39 54.10   1.8
SNY     51.81   8 iPc   39 54.00  -3.1X
        1.4s   100.00nm          5.7mb
      Z  24s     3.30um          5.3MszX
      N  15s     1.10um
      E  15s     1.40um
                  ScS   49 43.00
NDI     52.49 318 iPc   40 00.20  -2.3
        1.0s   108.00nm          5.8mb
CN2     54.03  10 eP    40 10.40  -3.2X
        1.0s    34.00nm          5.3mb
      Z  28s     9.20um          5.7MszX
      N  15s     1.70um
      E  15s     0.90um
                  epP   40 23.00  45kmX
                  PcP   41 18.00
                  PP    42 12.00
                  ScP   45 12.00
                  ScS   49 56.00
MDJ     55.61  13 iPc   40 23.46  -1.7
        1.0s   200.00nm          6.1mb
      N  18s     2.00um
      E  18s     1.70um
                  e     43 50.25
                  iScP  45 16.33
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                S      48 03.00
CSY     56 70 182 eP   40 30.30  -2.3
        0.8s     12.60nm          5.0mb
                i      41 29.00
MSZ     57 52 137 P    40 40.10   1.3
WMO     58.53 337 iPc  40 45.80  -0.1
        1.0s    200.00nm          6.2mb
      Z  26s      5 00um          5.5MszX
      N  25s      2 30um
                sP     41 00.00
                ScP    45 33.50
                S      48 41.00
HIA     58.77   4 iPc  40 45.72  -1.7
                eScP   45 33.56
KUSJ    59.15  25 eP   40 49.30  -0.8
ASAJ    59.16  23 eP   40 49.40  -0.8
THZ     60.12 133 P    40 57.60   0.6
MOZ     60.45 135 P    40 59.00  -0.1
QUE     60.55 313 iPc  40 58.40  -1.8
                ePP    41 11.60
                eS     49 06.40
                eScS   50 44.00
KSH     60.58 326 Pc   41 00.00  -0.1
      E  16s      5.00um
                S      49 12.00
                sS     49 32.00
DIW     60.63 132 P    41 00.90   0.5
KHZ     60.74 133 P    41 00.80  -0.3
TCW     60.98 132 P    41 03.40   0.6
CCW     61.07 133 P    41 02.70  -0.6
MRW     61.30 132 P    41 04.10  -0.8
WEL     61.36 132 P    41 05.00  -0.3
        1.0s  *******nm          8.3mb X
KIW     61.37 131 P    41 05.20  -0.3
WDW     61.52 132 P    41 06.00  -0.4
CAW     61.54 132 P    41 06.10  -0.5
MNG     61.74 131 P    41 07.40  -0.6
MOW     61.75 132 P    41 07.80  -0.2
WHH     62.17 129 eP   41 10.70  -0.2
IRK     62.25 353 iPc  41 11.08   0.0
                e      41 26.00
                e      41 34.00
                ePcP   41 49.20
                e      42 05.50
                e      42 45.50
                e      42 54.00
                ePP    43 32.00
                ePPP   45 20.00
                iS     49 34.00
                ePS    49 52.00
                eScS   50 58.80
                e      51 23.00
PGZ     62.33 131 P    41 12.10   0.3
HBZ     63.36 127 eP   41 19.00   0.4
MAW     67.26 199 eP   41 42.40  -0.9
        1.1s     68.00nm          5.6mb
MAIO    69.06 315 iPc  41 54.80  -0.3
AFI     71.90 102 e(P) 42 15.00   2.3
DHR     72.08 302 eP   42 12.50  -0.9
YAK     72.34   7 iPc  42 12.60  -1.6
                iPcP   42 27.00
                epP    42 54.00 171kmX
                iPP    45 04.00
                ePPP   46 44.00
                eS     51 28.00
                eSKS   52 01.00
                iScS   52 10.00
                iPSP   52 33.00
                esS    52 57.00
SBA     73.14 170 iPd  42 20.00   1.2
RYD     74.56 299 iPc  42 27.00  -1.0
IR4     74.82 310 iPc  42 30.00   0.5
IR1     75.05 311 iPc  42 31.50   0.7
IR5     75.05 310 eP   42 31.50   0.7
IR7     75.23 311 iPc  42 32.00   0.2
KER     77.38 308 eP   42 42.00  -1.9
AAE     77.79 281 eP   42 50.20   3.5X
SLY     79.05 309 iPc  42 52.50  -0.3
                i      43 08.00
BHD     79.14 307 iPd  42 53.50   0.1
                ePcP   43 04.50
                eS     52 44.00
TAB     79.30 312 e(P) 42 56.00   1.7
MTD     80.73 254 iPc  43 02.50   0.2
BFT     81.11 245 iPd  43 05.00   0.7
        0.9s     42.02nm          5.4mb
MSL     81.11 309 ePd  43 04.00   0.2
                ePcP   43 14.50
                eS     53 03.00
                eSKS   53 18.00
PTZ     81.29 257 iP   43 04.80  -0.4
                i      43 21.00
KRI     82.59 254 iPd  43 11.70  -0.3
SLR     82.68 245 iPc  43 11.60  -0.8
        0.9s     63.03nm          5.6mb
SEK     82.94 243 iPd  43 15.40   1.7
        1.0s     30.00nm          5.3mb
BUL     83.09 251 iPc  43 15.00   0.4
KSR     83.90 245 iPd  43 19.50   0.8
LSZ     84.16 256 iPc  43 21.00   1.0
                i      43 32.00
                i      43 46.90
HVD     84.49 240 iPc  43 23.20   1.7
        1.3s    134.62nm          5.9mb
ADK     84.68  35 e(P) 43 22.80   1.1
        1.4s    587.10nm          6.5mb
FRS     84.76 241 iPd  43 22.20  -0.4
        0.8s     37.31nm          5.5mb
NVL     85.21 199 ePc  43 24.50   0.4
                e      43 42.00
                e      43 53.00
                e      44 00.00
                e      44 30.00
                e      45 05.00
                e      46 06.00
                eS     53 45.00
                e      54 09.00
                ePS    54 52.00
                e      11 54.00
HOL     85.71 300 iPc  43 29.00   1.6
GAZ     85.90 309 eP   43 30.40   2.3
DSI     85.97 303 iPd  43 30.60   1.9
MML     86.15 304 iPd  43 32.00   2.4X
BHL     86.31 305 P    43 30.00  -0.4
                PP     47 04.00
                SKS    54 00.00
ADI     86.46 304 iPd  43 33.50   2.5X
KMZ     86.69 257 iPc  43 30.80  -1.8
KVT     87.78 312 eP   43 39.50   2.2
CSS     88.42 306 eP   43 42.00   1.6
CER     89.25 236 eP   43 43.00  -1.5
        1.2s     40.00nm          5.6mb
SNA     89.77 198 iPd  43 47.30   1.1
        1.1s     88.61nm          6.0mb
PPN     92.70 108 eP   43 58.00  -2.6
        1.0s     30.00nm          5.7mb
WIN     93.27 247 iPd  44 04.50   1.1
        1.0s     25.00nm          5.6mb
IZM     93.86 308 eP   44 06.00   0.4
CFR     94.28 315 eP   44 07.00  -0.3
SDN     94.88  35 eP   44 10.70   0.9
VRI     95.37 315 ePc  44 12.00  -0.4
ISR     95.40 315 ePd  44 15.00   2.5X
BUC1    95.65 314 eP   44 32.00  18.4X
CVO     95.75 315 ePc  44 15.00   0.9
MLR     95.87 315 eP   44 16.00   1.2
CMP     96.47 315 ePd  44 34.00  16.6X
SRS     97.03 310 eP   44 20.40   0.4
KNT     97.56 310 eP   44 21.84  -0.5
KAF     97.63 332 iP   44 22.80   0.6
        0.7s     26.10nm          5.9mb
LIT     97.76 309 eP   44 22.96  -0.3
BMR     97.79 317 eP   44 08.00 -15.2X
VAY     97.82 311 ePDIF 44 23.00  -0.5
                i      44 39.00
GRG     97.91 310 iP   44 24.28   0.3
SOD     98.02 337 eP   44 16.00  -7.8X
                e      44 23.00
KEV     98.11 339 eP   44 24.00  -0.2
SVW     98.17  29 eP   44 26.40   1.7
NUR     98.28 330 iP   44 25.90   0.8
        1.0s     32.00nm          5.8mb
                e      44 42.00
BRW     98.55  19 eP   44 28.60   2.4X
SKO     98.73 311 ePDIF 44 26.70  -0.9
                e      44 42.00
                e      48 13.50
                e      55 00.00
KDC     99.54  33 eP   44 32.20   1.3
SPC    100.07 318 ePdiff44 49.70  15.9X
                e      48 25.70
                i      48 40.00
PSZ    100.23 317 ePdiff44 34.30  -0.2
KRA    100.31 319 ePdiff44 35.00   0.4
        1.4s     78.00nm          6.1mb
      Z  24s      2.00um          5.5MszX
      E  24s      2.10um
                e      44 39.00
                e      44 51.00
                e      48 42.00
                eS     55 13.00
SLKM    100.79  30 ePdiff44 35.90  -0.7
SRO     101.29 317 e(Pdif44 49.80  10.7X
                i      44 54.90
                i      48 45.00
                e      48 56.20
SRO     101.29 317 e(Pdif44 39.80   0.7
                i      44 54.90
                i      48 45.00
                e      48 56.20
PMR     101.31  29 ePdiff44 39.10   0.3
        1.4s     42.00nm          5.9mb
UPP     101.76 329 iPdiff44 41.50   0.7
                i      48 46.60
FBA     101.82  26 ePdiff44 41.00   0.0
        1.0s      0.80nm          4.3mb X
ZST     102.11 317 ePdiff44 43.50   0.8
                e      48 02.40
KSP     102.65 320 ePdiff44 44.10  -1.0
                i      45 01.80
                e      49 17.50
                e      55 22.50
TOA     102.70  28 ePdiff44 47.30   2.2X
ZAG     102.85 315 ePdiff45 02.50  16.5X
VBY     103.36 315 e(Pdif44 49.20   0.9
HFS     103.72 330 ePdiff44 49.80   0.2
        0.5s      1.80nm          5.1mb
PRU     103.79 319 ePdiff44 50.50   0.4
      Z  20s      1.10um          5.4Msz
      N  21s      1.20um
      E  26s      1.60um
                e      45 06.50
                ePP    49 03.00
                eSKS   55 24.00
LJU     103.86 315 e(Pdif44 47.00  -3.6X
BRG     104.14 320 ePdiff44 52.60   0.9
        1.4s     26.00nm          5.9mb
                ipP    45 07.40
                e      48 47.40
                i      49 06.40
                eSKS   55 27.70
VOY     104.31 315 e(Pdif44 53.00   0.3
KHC     104.44 318 Pdiff 44 54.00   0.9
        1.3s      6.00nm          5.3mb
      Z  24s      1.10um          5.3MszX
      N  22s      0.80um
      E  24s      1.60um
                i      45 09.50
                e      48 06.50
                iPP    49 09.50
                SKS    55 30.00
BALM    104.62  29 ePdiff44 54.40   0.7
CLL     104.71 321 ePdiff44 55.00   0.8
                eSKS   55 29.00
NB2     104.85 331 Pdiff 44 54.60   0.0
        1.3s     11.20nm          5.6mb
ARV     105.03 312 Pdiff 44 57.10   1.2X
FVI     105.07 316 PKP   49 28.30  17.9X
ASS     105.25 312 PKPd  49 18.00   7.0X
MOX     105.63 320 ePdiff45 00.00   1.7X
      Z  22s      1.80um          5.6Msz
      N  24s      1.50um
      E  29s      0.90um
CRE     105.75 313 PKP   49 19.00   7.0X
SFI     105.81 313 Pdiff 45 16.50  17.3X
MME     106.63 313 PKP   49 27.30  13.5X
MBC     107.41  12 ePdiff45 07.00   1.3X
BOB     107.49 314 PKP   49 33.50  18.3X
LOR     111.09 317 ePKP  49 22.90   1.1X
      Z  22s      1.75um          5.6Msz
SSF     111.36 317 ePKP  49 24.60   2.3X
        1.0s      8.00nm
YKA     116.44  23 ePKP  49 32.50   0.9
        0.4s      3.90nm
KIC     119.97 272 PKP   49 40.50   0.7
IFR     120.03 303 iPKP  49 43.00   3.4X
                i      51 17.00
PNT     120.12  38 ePKP  49 41.00   2.0X
        0.7s      9.00nm
LIC     120.24 272 PKP   49 40.92   0.7
        0.4s      8.00nm
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05d 04h

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WDC    120.93  48 ePKP   49 43.80    3.0X
MIN    121.68  48 ePKP   49 44.80    2.3X
ORV    121.96  49 ePKP   49 45.60    2.8X
NEW    122.05  38 PKP    49 45.00    2.2X
PRS    122.85  53 ePKP   49 48.10    3.5X
LLA    123.12  52 ePKP   49 48.80    3.7X
CMB    123.20  51 ePKP   49 48.30    3.0X
PRI    123.45  53 ePKP   49 49.70    3.8X
FRI    123.99  52 ePKP   49 50.40    3.6X
SES    124.60  34 ePKP   49 48.00    0.4
TNP    125.59  50 PKP    49 52.00    1.8X
        1.0s     11.25nm
FRB    125.88   2 ePKP   49 49.00   -0.6
PAS    125.90  55 ePKP   49 54.00    3.3X
CLC    125.94  53 ePKP   49 53.00    2.2X
MWC    125.98  55 ePKP   49 54.00    2.9X
LRM    125.98  39 ePKP   49 42.40   -8.4X
SBB    126.05  54 ePKP   49 54.00    3.0X
FFC    126.42  25 ePKPc  49 51.90    0.9
        0.8s     14.00nm
RVR    126.58  55 ePKP   49 55.00    3.0X
GSC    126.70  53 ePKP   49 55.00    2.7X
PEC    126.78  55 PKP    49 56.00    3.6X
PLM    127.16  55 ePKP   49 56.00    2.7X
BAR    127.48  56 ePKP   49 53.00   -0.8
TPC    127.62  54 ePKP   49 57.00    3.0X
BW06   129.22  42 ePKP   49 58.40    1.4X
                  SKP    53 14.20
PV09   131.38  46 ePKP   50 04.00    2.6X
                  iSKP   53 24.30
RSSD   131.99  37 PKP    50 03.50    1.3X
        0.9s     27.88nm
RSSD   131.99  37 ePKP   50 00.25   -2.0
                  iSKP   53 25.70
GOL    133.45  43 ePKP   50 05.80    0.6
                  iSKP   53 31.80
GLD    133.53  43 ePKP   50 07.00    1.8X
                  iSKP   53 32.10
ALQ    134.80  50 ePKP   50 10.00    2.2X
      Z  20s      1.06um          5.6Msz
ANMO   134.80  50 ePKP   50 10.40    2.6X
                  iSKP   53 36.80
MDZ    137.64 176 i(PKP)50 15.90    2.8X
MEO    140.60  45 e(PKP)50 14.50   -3.9X
TUL    141.88  42 ePKP   50 15.70   -4.9X
        0.6s     5.00nm
VAO    142.96 209 ePKP   50 21.00   -1.9
                  e      50 40.70
FVM    143.81  35 ePKPc  50 22.00   -1.8
MRX    143.95  70 (PKP)  50 25.00    0.5
BNH    144.75   7 iPKPd  50 24.90   -0.3
                  PP     54 01.20
CLE    145.15  22 iPKP   50 27.10    1.1X
ACX    145.66  74 (PKP)  50 32.50    5.0X
III    145.79  71 (PKP)  50 32.00    4.0X
SLA    145.90 180 ePKPd  50 29.80    1.8X
PPM    146.44  70 (PKP)  50 34.00    4.6X
ANT    146.54 172 ePKP   50 31.70    2.9X
IIT    146.75  70 (PKP)  50 35.00    5.4X
HRV    146.76   8 ePKPc  50 31.87    3.3X
                  e      50 47.44
SCP    146.99  18 ePKPc  50 31.65    2.6X
                  e      50 47.05
TBR    147.60  13 PKP    50 32.50    2.5X
CAI    147.67 241 ePKP   50 33.20    2.3X
OXX    148.59  73 (PKP)  50 40.50    8.0X
BLA    149.30  24 ePKP   50 35.00    2.1X
SOB1   149.34 233 ePKP   50 36.10    2.6X
                  e      50 39.20
CBN    149.51  19 ePKP   50 36.00    3.0X
PBJ    149.94  74 (PKP)  50 41.50    7.2X
JSC    151.41  28 PKP    50 40.00    4.0X
CCH    153.19 178 ePKP   50 42.00    2.6X
                  i      50 49.70
ARE    153.41 167 ePKP   50 50.00   10.3X
CNCB   153.64 174 PKP    50 43.80    3.4X
LPB    153.91 174 PKP    50 50.00    9.4X
        1.1s     93.67nm
      Z  24s      4.65um          6.2MszX
                  LR     45 40.00
ZOBO   154.16 174 PKP    50 43.20    2.1X
        1.0s     78.00nm
      Z  24s      3.32um          6.1MszX
                  LR     45 52.00
NNA    155.70 152 ePKP   50 42.50   -0.1
        1.2s     20.31nm
      Z  20s      2.13um          6.0Msz
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PSO    165.44 124 ePKP   50 57.50    4.0X
UPA    165.97  91 ePKP   50 55.00    1.7X
      Z  20s      0.71um
                   i     51 57.00
      S.D. = 1.1  on 186 of 280 obs.
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*  JUL  05, 1991  04h 40m 12.10± 0.65s
    9.965 S ±15.8km  114.608 E ±18.8km
   DEPTH =  33.0km  (normal)
   4.9mb (  3 obs.)
 SOUTH OF BALI ISLAND                (284)

TRT      2.97 319 ePd    40 59.20    1.1
                  eS     41 22.00
MRWA    19.20 176 eP     44 36.00   -0.1
                  eS     47 53.00
WARB    19.75 146 eP     44 42.50    0.2
                  eS     48 09.00
BAL     20.63 175 eP     44 57.00    5.6X
                  eS     48 28.00
WB2     21.48 120 eP     45 00.00   -0.2
                  e      46 35.60
                  eS     48 52.40
COOL    21.68 165 eP     45 05.00    2.9X
         0.4s     18.00nm          4.8mb
                  eS     48 47.00
KL8     21.72 173 eP     45 09.00    6.6X
                  eS     48 52.00
ASPA    22.91 129 iPd    45 15.40    1.1
         0.6s     91.70nm          5.4mb
FORR    24.28 151 eP     45 28.00    0.5
                  eS     49 52.00
BRS     39.89 121 iPd    47 48.00    3.2X
GBA     43.69 302 Pc     48 12.10   -3.9X
         0.7s      4.60nm          4.4mb
HYB     44.83 307 eP     48 25.40    0.2
YKA    116.81  23 ePKP   58 51.80   -2.7X
         0.6s      1.80nm
KIC    119.92 272 PKP    59 00.20   -1.7X
LIC    120.19 271 PKP    59 00.90   -1.5
FFC    126.79  26 ePKP   59 12.50   -1.4
         0.7s      4.00nm
BAO    149.28 214 e(PKP)00 01.00    5.3X
CNCB   153.27 174 PKP    00 11.00    8.9X
LPB    153.54 174 PKP    00 10.00    7.7X
ZOBO   153.79 174 PKP    00 24.90   22.1X
      S.D. = 1.1  on   9 of  20 obs.
-----------------------------------------
    JUL  05, 1991  05h 25m 38.93± 1.17s
    36.826 N ± 5.9km    6.974 W ±11.5km
    DEPTH =  18.3 ±  7.0 km
  STRAIT OF GIBRALTAR                (385)
      mbLg 3.2 (MDD). MD 3.2 (RBA).

EJIF     1.27 107 ePg    26 02.94    1.2
                  eSg    26 18.60
EPRU     1.40  84 ePg    26 04.20    0.5
                  eSg    26 19.20
EHOR     1.70  54 ePn    26 08.56    0.7
                  eSn    26 25.00
NKM      1.87 137 iPgd   26 12.00    1.7
                  i      26 21.00
                  eSg    26 31.00
                  i      26 33.00
AFC      2.78  80 ePn    26 23.90    0.4
                  eSn    26 53.10
EBAN     2.87  61 ePn    26 24.52   -0.1
                  eSn    26 53.70
EPLA     3.31  12 ePn    26 31.90    1.0
                  eSn    27 07.90
AVE      3.54 186 iPn    26 34.50    0.4
                  iSn    27 12.00
                  i      27 14.00
EHUE     3.63  73 eP     26 34.60   -1.0
                  eS     27 14.20
IFR      3.63 155 iPnd   26 35.00   -0.7
                  iSn    27 13.00
EVIA     3.98  62 ePn    26 39.45   -1.0
                  eSn    27 22.20
GUD      4.40  29 ePn    26 47.01    0.5
                  eSn    27 32.50
ETOR     5.54  42 ePn    27 02.30   -0.2
                  eSn    28 00.80
TIO      5.89 182 iPn    27 06.50   -1.0
                  i      27 58.50
                  iSn    28 07.50
      S.D. = 1.0  on  14 of  14 obs.
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    JUL  05  1991  07h 31m 45 67± 0.51s
    44.289 N ± 4.4km    7.456 E ± 4.2km
    DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                      (545)
      ML 2 4 (LDG). 2.0 (GEN).

ENR      0.07 202 P      31 47.03   -1 1
                  S      31 47.95
STV      0.10 244 P      31 47.95   -0.6
                  S      31 49.49
PZZ      0.33 310 P      31 52 87    0.2
                  S      31 57.69
SBF      0.43 182 Pg     31 54.60    0.2
                  Sg     32 00.80
IMI      0.49 140 P      31 55.33   -0.3
                  S      32 03.23
FIN      0.55  98 P      31 56.36   -0.4
                  S      32 03.74
BHB      0.57 346 P      31 56.87   -0.4
                  S      32 06.00
PCP      0.82  72 P      32 02.41    0.8
                  S      32 13.07
FRF      0.93 219 Pg     32 04.20    0.7
                  Sg     32 17.00
LRG      1.15 224 Pg     32 07.20    0.0
                  Sg     32 23.60
LMR      1.18 216 Pg     32 08.40    0.8
                  Sg     32 24 00
      S.D. = 0.7  on  11 of  11 obs.
-----------------------------------------
?  JUL  05, 1991  09h 01m 31.36± 1.34s
    39.096 N ± 8.3km   27.708 E ±16.2km
    DEPTH =   5.0km  (geophysicist)
 TURKEY                              (366)
      MD 2.9 (ISK).

IZM      0.78 207 iPg    01 47.00    0.0
                  eSg    01 58.50
EDC      1.26   5 ePn    01 55.00   -0.1
BNT      1.27   7 ePn    01 55.50    0 1
EZN      1.30 305 ePn    01 55.80    0.0
      S.D. = 0.2  on   4 of   4 obs.
-----------------------------------------
*  JUL  05, 1991  10h 09m 56.89± 0.64s
    8.270 S ±22.1km  124.495 E ±24.5km
    DEPTH =  33.0km  (normal)
    4.0mb (  2 obs.)
 TIMOR                               (289)

MTN      7.95 125 eP     11 53.00   -0.1
         0.3s     81.00nm          6.3mb X
                  eS     13 16.00
KNA      8.53 151 eP     12 00.70   -0.4
                  eS     13 33.00
WB2     15.03 142 eP     13 24.60   -4.0X
                  e      13 34.30
                  eS     15 59.80
ASPA    17.77 151 eP     14 03.00   -0.5
         1.2s     10.30nm          3.8mb
                  eS     17 10.70
OIS     19.04 132 eP     14 19.00   -0 1
STK     28.37 148 iPc    15 51.50    1.3
         0.5s      3.00nm          4.2mb
GUN     51.84 315 P      19 14.00    9.3X
PKI     51.96 315 P      19 05.40   -0.2
KKN     52.19 315 P      19 07.00   -0.2
GKN     52.77 315 P      19 11.60    0.2
      S.D. = 0.7  on   8 of  10 obs.
-----------------------------------------
*  JUL  05, 1991  10h 23m 55.17± 3.20s
    35.291 N ±23.9km  140.564 E ±19.1km
    DEPTH =  57.4 ± 19.0 km
    3.9mb (  1 obs.)
 NEAR EAST COAST OF HONSHU, JAPAN(228)

KAKJ     0.97 341 iPd    24 12.30   -0.5
                  S      24 24.20
CHJJ     1.48 301 iPd    24 19.50   -0.4
                  S      24 35.00
IIDJ     2.18 276 iPd    24 30.00    0.4
                  S      24 55.80
MAT      2.28 304 eP     24 31.00   -0.1
                  eS     24 59.00
NIIJ     2.32 327 P      24 31.60    0.0
MTMJ     2.58 301 iPd    24 35.40    0.0
YAMJ     2.91 352 P      24 41.10    1.1
```

```
TSRJ    3.75 275 eP     24 51.90   0.1
OFUJ    3.88  13 P      24 53.40  -0.3
                 S      25 35.90
AOMJ    5.26 358 eP     25 13.00  -0.1
NB2    75.52 337 P      35 34.70  -0.1
       0 7s      1.20nm          3.9mb
     S.D. = 0.5  on  11 of  11 obs.
-----------------------------------------
%  JUL  05, 1991  10h 48m 56.08± 0.54s
   42.438 N ± 4.9km   19.181 E ± 4.4km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                        (383)
      ML 1.9 (TTG).

TTG     0.06  98 iPgc   48 59.61   1.3
                 iSg    49 02.36
BDV     0.30 240 iPgd   49 02.60   0.2
                 iSg    49 08.21
NKY     0.40 340 iPgc   49 04.70   0.4
                 iSg    49 11.18
ULC     0.48 174 iPgd   49 05.35  -0.4
                 iSg    49 13.25
HCY     0.51 271 iPgd   49 06.41   0.1
                 iSg    49 14.36
PVY     0.61  75 iPgd   49 07.73  -0.7
                 iSg    49 17.05
BRY     0.66 315 iPgc   49 08.83  -0.5
                 iSg    49 19.63
IVA     0.68  50 iPgd   49 09.38  -0.3
                 iSg    49 19.53
PLE     0.91  10 iPgd   49 13.45   0.0
                 iSg    49 26.95
     S.D. = 0.7  on   9 of   9 obs.
-----------------------------------------
   JUL  05, 1991  10h 58m 28.56± 0.10s
   47.892 N ± 2.2km  145.796 E ± 2.3km
   DEPTH = 467.5km  ( 29 depth phases)
   5.6mb (101 obs.)
 SEA OF OKHOTSK                    (663)
      mb 5.8 (BRK).
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 21S, 57C
      Centroid Location:
      Origin Time        10:58:30.9 0.2
      Lat 47.96N 0.02 Lon 145.91E 0.04
      Dep 465.2 1.7 Half-duration  3.0
      Moment Tensor;   Scale 10**17 Nm
        Mrr=-0.60 0.12  Mtt= 4.23 0.17
        Mff=-3.63 0.18  Mrt=-3.76 0.17
        Mrf=-4.83 0.16  Mtf=-1.19 0.17
       Principal Axes:
        T  Val=  6.49  Plg=33  Azm=169
        N        1.54      35       52
        P       -8.03      38      289
      Best Double Couple:Mo=7.3*10**17
       NP1:Strike=316 Dip=35 Slip=  -5
       NP2:        50      87     -125

YSS     2.27 248 P      59 33.00   0.3
ASAJ    4.37 211 P      59 46.80  -1.9
KUSJ    4.85 189 P      59 47.30  -5.9X
                 eS     00 52.50
HOOJ    5.79 199 P      59 57.10  -5.1X
                 S      01 10.10
MRRJ    6.40 213 eP     00 05.20  -3 3X
                 eS     01 23.90
AOMJ    8.30 210 eP     00 27.20  -1.4
                 S      02 03.50
OFUJ    9.30 200 P      00 38.30  -1.3
                 eS     02 25.70
YAMJ   10.58 206 P      00 51.80  -1.6
                 eS     02 51.80
MDJ    11.69 260 iPd    01 04.50  -0.8
       1.0s  1150.00nm          6.3mb
                 sP     02 37.00
                 iS     03 12.00
                 ScP    09 01.00
                 ScS    12 37.00
NIIJ   11.76 208 P      01 04.70  -1.3
                 eS     03 20.20
KAKJ   12.40 202 P      01 10.90  -2.0
                 eS     03 27.20
MAT    12.65 209 P      01 14.00  -1.6
MTMJ   12.75 210 P      01 16.10  -0.6
CHJJ   12.86 206 P      01 17.20  -0.7
IIDJ   13.72 208 P      01 26.20  -0.7
                 eS     03 52.40
TSRJ   14.34 214 P      01 33.30   0.0
                 eS     04 06.20
CN2    14.75 261 iPd    01 35.80  -1.7
       3.0s  2800.00nm          6.3mb
                 S      04 06.00
                 ScP    09 03.00
                 ScS    12 38.00
WKYJ   15.66 213 P      01 46.90   0.1
YONJ   15.67 220 P      01 47.40   0.5
TKSJ   16.46 217 P      01 55.50   0.7
SHK    16.57 221 eP     01 56.80   0.9
YAK    16.82 333 iPc    01 56.70  -1.5
                 eS     04 32.00
                 ePcP   07 00.00
                 eScS   12 43.00
SNY    16.85 257 iPd    01 58.00  -0.6
       0.6s   500.00nm          6.3mb
                 iS     04 50.00
SMY    18.65  64 eP     02 18.60   2.5
       0.6s   612.00nm          6.3mb
KUMJ   19.08 222 P      02 22.10   1.7
DL2    19.66 252 iPd    02 26.00   0.0
       5.0s  4900.00nm          6.3mb X
                 sP     04 30.00
                 iS     05 40.00
KAGJ   20.20 220 P      02 32.50   1.3
BJI    22.62 261 Pd     02 53.50   0.0
       1.5s   810.00nm          6.1mb
                 sP     05 02.00
                 eS     06 27.50
                 eScS   13 06.00
TIA    24.14 252 eP     03 07.00  -0.4
       2.4s   700.00nm          5.8mb
ADK    24.32  66 eP     03 08.40  -0.4
SSE    25.18 237 Pd     03 17.00   0.2
       4.0s   800.00nm          5.6mb X
                 sP     05 26.00
                 S      07 08.00
                 ScS    13 20.00
HHC    25.31 267 Pd     03 18.30   0.2
       0.6s   190.00nm          5.8mb
                 S      07 10.00
                 sS     07 11.00
NJ2    25.83 242 Pc     03 22.20  -0.4
       1.0s   100.00nm          5.2mb
                 sP     05 34.00
                 iS     07 19.00
                 ScS    13 20.00
TIY    26.32 260 iPd    03 27.30   0.3
       1.5s   500.00nm          5.8mb
                 sP     05 40.00
                 S      07 29.00
BTO    26.47 267 iPd    03 28.00  -0.3
       5.0s  1300.00nm          5.7mb X
                 S      07 28.00
WHN    29.62 246 iPc    03 56.40   0.7
       0.6s   100.00nm          5.5mb
                 pP     05 20.00
                 sP     06 12.00
                 S      08 16.00
                 ScP    09 44.50
XAN    30.78 257 Pc     04 05.00  -0.8
       1.4s   300.00nm          5.6mb
                 S      08 34.00
ANM    30.86  39 eP     04 06.90   0.7
OZH    31.40 233 eP     04 08.00  -3.1X
       1.0s    60.00nm          5.0mb
                 S      08 45.00
LZH    32.95 265 iPd    04 24.30   0.0
       1.5s  1050.00nm          6.1mb
                 pP     05 51.00 488kmX
                 iS     09 08.00
                 ScP    09 54.00
                 sS     11 41.00
                 ScS    13 55.00
SDN    33.42  57 eP     04 27.50  -0.4
                 e      06 56.30
GTA    33.90 273 iPd    04 33.00   0.7
       1.0s   170.00nm          5.5mb
                 iS     09 22.00
                 ScP    09 58.00
                 SS     12 20.00
TTA    34.92  43 eP     04 40.60   0.1
SVW    35.22  46 eP     04 44.70   1.7
BRW    35.23  28 eP     04 42.50  -0.3
GZH    35.77 238 P      04 49.00   1.1
                 S      09 50.00
IMA    35.87  37 eP     04 47.70  -0.7
HKC    35.92 236 eP     04 49.60   0.5
CD2    36.13 257 P      04 51.20   0.3
       1.2s   400.00nm          5.8mb
                 S      09 55.00
                 SS     12 50.00
                 ScS    14 10.00
RSO    36.70  47 eP     04 54.20  -1.2
                 i      06 44.70
                 e      10 07.30
GYA    37.27 249 iPd    04 59.40  -1.0
       1.0s   120.00nm          5.3mb
                 S      10 11.00
                 ScS    14 16.00
BAG    37.62 222 eP     05 02.00  -1.3
                 eS     10 17.00
SLKM   37.93  46 e(P)   05 02.20  -3.1X
PMR    38.26  44 eP     05 07.80  -0.1
       0.5s   172.60nm          5.8mb
                 e      07 11.40
                 i      07 11.50
FBA    38.39  39 eP     05 08.40  -0.5
TOA    39.54  43 eP     05 19.20   0.7
WMQ    39.85 286 P      05 21.50   0.3
       0.8s   300.00nm          5.8mb
                 pP     06 45.00 441kmX
                 PcP    07 17.50
                 sP     07 41.00
                 ScP    10 20.00
                 S      10 53.00
                 ScS    14 34.00
MID    40.06  47 eP     05 24.20   1.6
KMI    40.71 252 Pd     05 28.50   0.0
       2.5s   900.00nm          5.8mb
                 PcP    07 19.00
                 S      11 04.00
                 ScS    14 42.00
QIZ    40.97 238 P      05 31.00   0.6
                 S      11 12.00
BALM   41.58  44 eP     05 32.00  -3.0X
                 PcP    07 23.20
                 i      10 27.10
INK    43.36  32 ePd    05 46.80  -2.0
       0.4s   114.00nm          5.7mb
                 pP     06 28.00 190kmX
DAV    44.16 210 eP     05 57.00   1.3
MBC    45.21  20 eP     06 02.50  -0.8
       0.5s    13.00nm          4.7mb
LSA    45.30 267 Pd     06 05.40   0.3
                 S      12 14.00
SIT    46.34  48 eP     06 12.90   0.7
       1.2s   281.30nm          5.6mb
SHL    47.51 262 iP     06 20.50  -1.2
                 iS     12 20.00
CHG    47.70 249 ePd    06 23.00   0.0
       0.8s    65.11nm          5.1mb
                 eS     12 40.00
CHTO   47.70 249 eP     06 23.00   0.0
       0.9s   189.88nm          5.5mb
                 pP     07 52.30 460km
BDT    48.83 248 eP     06 29.00  -2.6
KSH    49.62 287 Pd     06 38.00   0.5
                 S      13 14.00
GUN    49.99 269 P      06 40.66   0.0
       0.4s   237.00nm          5.9mb
KKN    50.47 269 P      06 44.36   0.3
       0.5s   374.00nm          6.0mb
PKI    50.53 269 P      06 44.84   0.3
KBS    50.55 350 eP     06 43.70   0.0
DMN    50.70 269 P      06 46.36   0.6
       0.8s   514.00nm          6.0mb
GKN    50.76 270 P      06 46.60   0.5
       0.7s   791.00nm          6.2mb
KHT    50.96 246 iPc    06 48.50   1.1
YKA    52.92  35 eP     07 00.50  -0.6
       0.6s    49.80nm          5.0mb
LAT    54.32 179 eP     07 11.50  -0.1
KEV    54.51 338 eP     07 10.00  -2.4
       0.7s   237.60nm          5.6mb
                 e      08 46.00 481kmX
NDI    55.31 276 iPd    07 18.00  -0.6
       0.7s   164.38nm          5.5mb
SNG    55.77 238 eP     07 22.00   0.1
                 eS     14 34.00
PGC    56.79  52 eP     07 28.50  -0.1
       0.6s   136.00nm          5.5mb
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05d 11h

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PMG    57.06 178 eP     07 29.00  -1.7
IPM    57.66 236 ePc    07 36.40   1.5
       0.9s    52.90nm            4.9mb
PNT    58.40  50 iPc    07 39.50  -0.1
       0.5s   108.00nm            5.5mb
HNR    58.43 164 eP     07 41.00   0.9
KGM    58.54 232 ePc    07 41.20   0.3
                 e      09 18.70 476km
LOF    58.92 341 eP     07 43.07   0.2
KAF    60.20 332 iP     07 50.00  -1.5
       0.5s   144.50nm            5.7mb
NEW    60.34  50 P      07 51.50  -1.2
       1.0s   190.00nm            5.5mb
QUE    61.13 284 iPd    07 57.60  -0.7
                 eS     15 42.70
                 e      17 03.20
FHC    61.35  60 iPc    08 00.74   1.3
FOX    61.52  60 eP     08 01.68   1.2
MTN    61.86 196 eP     08 02.00  -0.8
       0.4s    92.00nm            5.7mb
MAIO   61.90 294 iPd-   08 03.20   0.1
       0.9s    44.76nm            5.0mb
NUR    61.93 331 iP     08 01.10  -1.8
                 e      09 36.00 452kmX
SES    61.95  45 eP     08 02.00  -1.3
       0.5s   122.00nm            5.7mb
                 pP     08 18.00  59kmX
HYB    62.06 265 ePd    08 03.20  -1.1
       0.7s   110.30nm            5.5mb
                 eS     15 51.00
WDC    62.33  59 ePc    08 05.30  -0.5
FFC    62.95  37 ePd    08 07.80  -1.7
       0.7s   110.00nm            5.5mb
MIN    63.02  59 eP     08 10.05  -0.4
ORV    63.60  60 eP     08 13.16  -0.8
RGS    63.91 339 eP     08 15.40  -0.1
BKS    64.28  61 iPd    08 18.40   0.1
       0.8s   114.00nm            5.6mb
                 isS    19 15.00
LRM    64.35  49 eP     08 18.20  -0.8
POO    64.43 270 iPd    08 19.50   0.0
       0.7s   108.22nm            5.6mb
                 eS     16 21.00
PCC    64.45  62 iPc    08 18.70  -0.6
UPP    64.62 334 iP     08 18.60  -1.5
                 i      16 19.40
                 i      17 24.80
GCC    64.99  62 eP     08 22.28  -0.5
MHC    64.99  61 eP     08 23.80   0.8
CMB    65.27  60 eP     08 24.71   0.1
                 ePcP   08 48.20
                 epP    10 04.20 471km
NB2    65.41 338 P      08 23.30  -1.8
       0.8s   210.00nm            5.8mb
FRB    65.46  16 eP     08 24.00  -1.3
       0.8s    49.00nm            5.2mb
SAO    65.50  62 eP     08 25.72  -0.3
HFS    65.51 336 eP     08 24.50  -1.2
       0.6s   540.70nm            6.4mb
GBA    65.53 263 Pc     08 25.60  -0.8
       0.6s    29.50nm            5.1mb
PRS    65.83  62 eP     08 27.74  -0.3
LLA    65.89  62 eP     08 28.75   0.3
AKU    66.08 353 iP     08 30.00   0.9
       0.7s    98.63nm            5.5mb
                 i      10 10.50 476km
FRO    66.29 341 eP     08 30.84   0.3
FRI    66.37  61 eP     08 31.33   0.0
PRI    66.38  62 eP     08 31.94   0.3
FOO    66.40 341 iP     08 31.65   0.5
HYA    66.52 340 eP     08 31.84  -0.1
SUE    66.94 341 iP     08 34.84   0.4
KONO   67.02 338 eP     08 33.50  -1.5
TNP    67.06  58 iPc    08 35.20  -0.7
       0.8s    77.94nm            5.4mb
                 pP     10 15.20 471km
ASK    67.35 340 eP     08 36.98   0.0
BER    67.41 340 iP     08 37.33   0.0
EGD    67.54 340 eP     08 38.77   0.7
IR7    67.65 299 iPd    08 40.00   0.6
CTAO   67.66 180 iP     08 38.50  -0.8
       1.0s    50.00nm            5.1mb
IR4    67.80 298 iPd    08 40.70   0.3
IR1    67.80 299 iPd    08 41.00   0.6
BW06   67.96  50 eP     08 39.00  -2.4
       0.8s   100.00nm            5.5mb
                 pP     10 19.30 471km
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                 PP     11 09.00
KOD    67.97 261 eP     08 41.00  -0.8
ISA    68.00  61 eP     08 40.00  -1.5
IR5    68.01 298 eP     08 42.50   0.9
WB2    68.30 192 iPc    08 40.60  -2.6
                 e      10 19.10 460km
                 e      10 57.00
WRA    68.30 192 P      08 40.00  -3.2X
       0.5s    42.00nm            5.3mb
QIS    68.36 186 iPc    08 42.20  -1.3
       0.7s    28.00nm            5.0mb
CLC    68.41  60 iP     08 43.00  -1.0
                 e      10 23.00 468km
TAB    68.49 303 eP     08 45.00   0.5
SBB    69.06  61 eP     08 47.00  -0.9
                 e      10 26.00 461km
SBB    69.06  61 eP     08 50.60   2.7
GSC    69.23  60 eP     08 48.00  -1.0
GSC    69.23  60 eP     08 51.40   2.4
PAS    69.23  62 eP     08 48.00  -0.9
MWC    69.25  62 eP     08 48.00  -1.2
                 e      10 31.00 484kmX
RSSD   69.76  46 P      08 51.30  -0.8
RVR    69.81  62 eP     08 51.00  -1.3
                 e      10 31.00 465km
PEC    70.01  61 ePc    08 52.00  -1.5
                 pP     10 31.80 464km
TPC    70.51  61 eP     08 55.00  -1.5
                 e      10 36.00 470km
PLM    70.56  62 eP     08 56.00  -1.0
                 e      10 39.00 481kmX
KER    70.65 300 iPd    08 59.50   2.0
SLY    70.69 302 iPd    08 58.50   1.0
                 eS     17 33.00
BAR    71.15  62 eP     09 01.00   0.7
PV09   71.26  53 eP     09 00.40  -0.8
                 pP     10 40.50 463km
MSL    71.47 304 ePc    09 02.20   0.2
                 epP    10 42.00 461km
                 eS     17 43.00
                 ePS    18 14.50
KVT    71.81 312 eP     09 03.90   0.0
KRA    71.86 327 eP     09 04.00   0.0
       0.8s   386.00nm            6.0mb
                 ic     09 04.50   2kmX
                 i      09 05.00
                 e      10 44.10
GLA    71.98  61 eP     09 05.00   0.0
                 e      10 46.00 467km
ASPA   72.02 191 iPc    09 05.40   0.2
       0.6s    83.70nm            5.5mb
DZM    72.07 160 iPc    09 06.20   0.6
GOL    72.37  50 P      09 08.00   0.5
       0.5s    15.29nm            4.9mb
GLD    72.40  50 ePc    09 08.20   0.6
                 (pP)   10 46.90 453kmX
CFR    72.42 319 eP     09 09.00   1.7
SPC    72.46 326 iPd    09 08.50   0.8
                 i      10 48.80 462km
                 e      18 17.30
VRI    72.50 320 iPd    09 07.50  -0.3
                 e      16 57.00
KSP    72.51 329 ePd    09 06.80  -1.0
       0.8s   245.00nm            5.9mb
                 ic     09 07.80   3kmX
                 e      17 51.70
TLB    72.94 319 iPc    09 10.50   0.2
BHD    73.00 301 iPd    09 11.00   0.1
                 epP    10 52.50 468km
                 eS     18 00.00
                 eSKS   18 31.00
                 esS    21 01.00
MLR    73.14 320 iPc    09 11.00  -0.7
                 e      16 50.00
ISR    73.16 320 iPc    09 12.00   0.3
CLL    73.21 331 iPd    09 10.70  -1.1
       0.9s   510.00nm            6.1mb
                 epP    10 52.00 466km
                 iS     17 59.40
BRG    73.28 330 iPd    09 11.40  -0.8
       1.0s   130.00nm            5.5mb
                 i      10 54.00 473km
                 i      12 02.20
                 iS     18 00.00
PSZ    73.63 325 iP     09 13.80  -0.5
CMP    73.70 321 iPc    09 17.00   2.3
TNR    73.72 321 eP     09 16.00   1.2
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WIT    73.81 336 eP     09 16.50   1.4
PRU    73.83 330 Pd     09 14.80  -0.5
       0.8s    77.20nm            5.3mb
     Z  16s     0.80um            5.1MszX
     N  18s     0.70um
     E  18s     0.50um
                 pP     10 58.00 475km
                 sP     11 45.00
                 ePP    12 09.50
                 iS     18 08.00
EKA    73.89 342 Pc     09 15.50  -0.1
       0.7s   112.90nm            5.6mb
ESK    73.91 342 ePc    09 16.00   0.3
       0.7s   130.00nm            5.6mb
SCH    74.04  19 ePc    09 15.00  -1.5
       0.7s    41.00nm            5.1mb
RMQ    74.08 177 eP     09 17.00   0.1
       0.5s    43.00nm            5.3mb
                 e      11 04.00 497kmX
GAZ    74.12 308 eP     09 18.60   1.4
QLP    74.14 181 iPd    09 18.00   0.8
       0.4s   129.00nm            5.9mb
MOX    74.23 332 ePd    09 17.00  -0.6
       1.1s   210.00nm            5.6mb
SRO    74.32 326 eP     09 17.40  -0.7
BUD    74.32 326 iPc    09 17.80  -0.3
HOF    74.44 331 iPc    09 19.00   0.2
       0.8s   192.00nm            5.7mb
ZST    74.44 327 iPd    09 19.00   0.2
                 e      18 24.60
                 i      18 48.90
WTS    74.50 335 iPc    09 19.40   0.4
       0.8s   288.00nm            5.9mb
DHR    74.55 292 ePc    09 20.00   0.3
VKA    74.67 328 iPc    09 20.90   0.8
       2.0s   448.00nm            5.7mb
                 i      09 29.50
                 i      09 42.70
                 epP    11 00.00 452kmX
                 i      12 15.70
DBN    74.86 336 eP     09 20.00  -1.0
     Z  20s     0.20um            4.4Msz
                 e      11 04.00 478kmX
                 ePP    11 52.00
                 e      12 17.00
                 ePPP   13 44.00
                 eS     18 20.00
                 eSP    18 46.00
KHC    74.89 330 iPd    09 21.20  -0.1
       1.0s   150.00nm            5.5mb
     Z  16s     0.80um            5.1MszX
     N  16s     0.50um
     E  14s     0.80um
                 e      09 25.50
                 pP     11 02.30 462km
                 S      18 19.00
TIM    74.90 323 iPd    09 22.00   0.6
EYL    75.09 315 iP     09 23.50   0.8
WET    75.12 330 iPd    09 22.60   0.0
       0.9s   301.00nm            5.9mb
HRT    75.13 315 eP     09 24.00   1.2
GRF    75.19 331 eP     09 23.70   0.8
       0.8s   500.00nm            6.2mb
     Z  19s     0.50um            4.8Msz
                 eS     18 24.00
BRS    75.20 174 iPc    09 24.00   0.9
PVL    75.21 319 iPd    09 23.00  -0.1
NANU   75.22 209 eP     09 24.00   0.7
ANMO   75.33  54 P      09 24.50   0.3
       1.0s    62.50nm            5.2mb
                 pP     10 03.50 159kmX
ALQ    75.33  54 ePc    09 24.00  -0.2
       1.0s    60.25nm            5.1mb
                 epP    11 05.00 461km
CTT    75.45 316 iP     09 24.50   0.0
YLV    75.47 315 eP     09 22.50  -2.2
TNS    75.59 333 ePd    09 24.60  -0.6
KMR    75.62 329 iP-    09 25.50   0.2
KOE    75.62 334 ePd    09 23.50  -1.7
                 ic     09 24.40   3kmX
WARB   75.72 198 eP     09 26.50   0.5
       0.6s    49.00nm            5.3mb
ENN    75.84 335 iPc    09 26.90   0.4
       0.8s   271.00nm            5.9mb
MEM    75.96 335 P      09 27.30   0.2
BEO    75.96 323 eP     09 27.40   0.2
DMU    75.98 344 eP     09 27.50   0.3
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	0.9s	288.00nm			5.9mb	
UCC	76.25	336	P-	09	29.00	0.3
BNT	76.32	316	iP	09	29.50	0.2
BHG	76.34	329	eP	09	29.70	0.4
EDC	76.35	316	iP	09	30.00	0.5
PLD	76.38	319	iPc	09	30.00	0.4
KDZ	76.43	318	eP	09	31.00	1.1
FUR	76.50	331	eP	09	30.60	0.4
	0.9s	370.00nm			6.0mb	
DCN	76.58	344	eP	09	31.20	0.7
STU	76.64	332	iPd	09	31.00	0.1
	1.4s	651.16nm			6.0mb	
RZN	76.71	319	iPd	09	32.00	0.3
KBA	76.74	329	iPc	09	32.60	0.9
	0.8s	332.00nm			6.0mb	
			i	09	33.60	
			i	09	50.60	
			ipP	11	15.10	467km
ALN	76.75	317	eP	09	31.68	0.1
WLF	76.77	334	iPc	09	32.33	0.8
PTJ	76.80	327	iPd	09	31.60	-0.4
DOU	76.82	336	Pc-	09	32.00	0.1
	0.8s	15.00nm			4.6mb	
			e	11	15.00	469km
			e	14	01.00	
			iS	18	39.00	
ZAG	76.86	327	iP	09	31.70	-0.4
			eS	18	40.00	
GWF	76.94	333	P	09	32.39	-0.2
ETA	76.99	343	eP	09	33.20	0.5
DOMF	76.99	336	P	09	32.28	-0.5
MENF	77.06	337	P	09	30.51	-2.6
KHL	77.15	314	iP	09	33.40	-0.6
WTTA	77.16	330	iPd	09	34.20	0.2
	0.7s	335.00nm			6.0mb	
			ic	09	35.00	
			ipP	11	18.20	474km
			i	18	38.80	
			i	18	44.00	
LJU	77.20	328	ePd	09	33.00	-1.0
			e(pP)	11	16.00	469km
			eS	18	40.00	
BCK	77.30	312	iP	09	34.70	-0.1
FVI	77.35	329	P	09	34.90	0.2
VBY	77.40	327	ePd	09	34.50	-0.6
ECB	77.41	343	eP	09	35.60	0.6
	0.8s	224.00nm			5.8mb	
BHL	77.42	307	P	09	34.00	-1.5
VOY	77.44	328	iPc	09	34.80	-0.6
EZN	77.48	317	eP	09	35.80	0.2
CEY	77.50	327	ePd	09	34.50	-1.2
			e(pP)	11	18.50	473km
ECP	77.51	343	eP	09	35.80	0.3
	0.7s	298.00nm			6.0mb	
CDF	77.55	333	P	09	35.39	-0.6
SHBJ	77.58	305	P	09	37.92	1.5
PLE	77.63	323	iPc	09	37.44	0.9
SRS	77.67	319	eP	09	36.28	-0.4
LIBD	77.68	333	P	09	36.58	0.0
OGA	77.71	330	eP	09	36.90	-0.1
			i	09	38.40	5kmX
ECH	77.76	333	P	09	36.83	-0.2
TRI	77.76	328	P	09	36.40	-0.6
FEL	77.80	332	P	09	36.23	-1.1
IVA	77.80	322	iPc	09	38.12	0.7
CSS	77.84	309	eP	09	38.00	0.3
HRI	77.85	306	iPd	09	38.70	0.8
RIY	77.85	327	eP	09	36.80	-0.7
RYD	77.89	293	iPd	09	37.00	-1.1
SKO	77.90	321	eP	09	37.80	-0.1
			e	11	20.00	463km
			i	12	06.00	
			i	18	52.50	
KNT	77.94	320	eP	09	38.12	0.0
VAY	77.95	320	iPd	09	38.00	-0.1
	0.9s	266.00nm			5.8mb	
PVY	78.00	322	iPd	09	38.19	-0.4
SOH	78.02	319	eP	09	37.96	-0.6
ZLA	78.03	332	ePc	09	38.90	0.4
MOF	78.09	333	P	09	38.41	-0.5
VITF	78.11	334	P	09	38.43	-0.5
OUR	78.13	318	eP	09	39.80	0.7
OSS	78.16	331	ePc	09	40.10	0.7
IZM	78.18	315	eP	09	39.00	-0.5
HAU	78.19	334	eP	09	39.00	-0.3
	0.8s	85.95nm			5.4mb	
	Z 20s	0.25um			4.5Msz	

ELL	78.19	312	eP	09	40.00	0.3
BSF	78.21	333	P	09	38.81	-0.8
NKY	78.22	323	iPc	09	38.92	-0.8
COO	78.30	175	iPc	09	41.50	1.5
			e	11	26.00	475km
BBS	78.32	333	P	09	39.58	-0.5
GRG	78.32	320	iP	09	39.80	-0.4
BRY	78.33	323	iPc	09	39.39	-0.9
THE	78.34	319	eP	09	40.08	-0.1
LLS	78.38	331	ePc	09	40.80	0.2
PPCY	78.41	310	eP	09	41.00	0.3
TTG	78.43	323	iPd	09	40.50	-0.1
JARJ	78.52	306	P	09	42.61	1.2
VDL	78.56	331	ePc	09	42.30	0.7
PAIG	78.60	318	eP	09	41.44	-0.1
LOMF	78.63	333	P	09	41.28	-0.5
MML	78.66	306	iPd	09	43.30	1.2
YER	78.69	314	iP	09	47.90	5.7X
HCY	78.73	323	iPd	09	41.44	-0.8
BDV	78.73	323	iPc	09	41.97	-0.3
MDSJ	78.82	305	P	09	44.72	1.7
ULC	78.82	322	iPc	09	42.45	-0.3
SALJ	78.84	306	P	09	44.31	1.2
FNA	78.91	320	eP	09	43.28	0.0
HVAR	78.92	325	iP	09	42.50	-0.7
SAL	78.98	330	P	09	43.90	0.4
LIT	78.99	319	eP	09	43.24	-0.4
CMS	79.01	180	eP	09	44.60	1.0
ZNT	79.02	306	eP	09	45.00	1.0
MASJ	79.04	305	P	09	45.76	1.6
TMA	79.09	331	ePc	09	44.20	-0.1
MDI	79.11	330	P	09	44.10	0.0
OTRJ	79.20	305	P	09	46.70	1.7
FLN	79.39	338	eP	09	45.30	-0.3
	0.4s	71.60nm			5.6mb	
	Z 20s	0.35um			4.7Msz	
MMK	79.43	332	ePc	09	46.90	0.7
LDF	79.45	338	eP	09	45.80	-0.1
STK	79.50	184	iPc	09	46.80	0.6
	0.9s	10.70nm			4.4mb	X
			e	11	34.40	490kmX
GHZJ	79.58	304	P	09	48.58	1.5
DIX	79.58	332	ePc	09	47.60	0.6
LOR	79.59	335	eP	09	46.40	-0.3
	0.7s	103.35nm			5.5mb	
	Z 20s	0.50um			4.9Msz	
MEO	79.60	49	iPc	09	47.80	0.8
EMS	79.74	332	ePc	09	47.90	0.2
RSM	79.77	328	P	09	48.90	1.3
GRC	79.79	335	P	09	47.69	0.0
ORX	79.80	331	P	09	48.18	0.2
LBF	79.81	335	eP	09	47.50	-0.4
GRR	79.83	338	eP	09	47.90	0.0
SSF	79.88	335	eP	09	48.10	-0.1
AGG	79.94	319	eP	09	47.48	-1.2
ARV	79.97	327	P	09	48.90	0.2
FORR	79.98	195	eP	09	48.40	-0.3
SFI	79.99	328	P	09	49.90	1.1
PGD	80.08	328	P	09	50.30	0.8
BOB	80.08	330	P	09	49.90	0.5
TUL	80.10	46	ePc	09	49.10	-0.4
	0.8s	119.40nm			5.5mb	
SMF	80.16	334	eP	09	49.40	-0.3
MME	80.16	329	P	09	51.00	1.0
AVF	80.17	335	eP	09	49.50	-0.2
LPF	80.21	338	eP	09	50.10	0.3
CRE	80.21	328	P	09	50.70	0.6
LSD	80.22	332	P	09	50.74	0.4
LPL	80.30	332	eP	09	51.10	0.4
BDI	80.31	329	P	09	50.20	-0.4
LPG	80.31	332	eP	09	51.20	0.4
	0.8s	104.95nm			5.5mb	
IGT	80.39	320	eP	09	50.72	-0.3
ASS	80.44	327	P	09	52.10	0.9
RSP	80.46	332	P	09	50.74	-0.6
PRNI	80.49	305	iPd	09	52.90	1.2
BGF	80.52	335	eP	09	51.70	0.2
BRT	80.57	323	P	09	51.70	-0.2
PCP	80.58	331	P	09	51.36	-0.6
PII	80.64	329	P	09	51.70	-0.4
LCI	80.72	322	P	09	52.80	0.2
BNI	80.73	332	P	09	53.40	0.6
BHB	80.74	331	P	09	51.56	-1.1
CKI	80.78	331	P	09	52.40	-0.5
AOU	80.79	326	P	09	54.50	1.5
RRL	80.82	332	P	09	53.62	0.2
PLDF	80.84	334	P	09	53.59	0.3

AGO	80.90	335	P	09	54.08	0.5
MAF	80.91	335	eP	09	54.00	0.4
FVM	80.93	42	P	09	53.00	-0.8
	1.0s	165.00nm			5.6mb	
TCF	80.95	335	eP	09	54.00	0.2
DUI	80.98	325	P	09	54.40	0.3
FIN	80.99	331	P	09	53.00	-1.0
ROB	81.03	331	P	09	53.72	-0.5
MNS	81.03	327	P	09	54.00	-0.3
DOI	81.04	331	P	09	53.00	-1.4
PZZ	81.09	331	P	09	53.51	-1.2
LSF	81.17	336	eP	09	55.10	0.2
SSB	81.19	333	P	09	55.20	0.1
SDI	81.19	326	P	09	55.90	0.7
PYM	81.21	335	P	09	55.73	0.5
COLF	81.23	334	P	09	55.58	0.3
ENR	81.23	331	P	09	53.21	-2.2
STV	81.25	331	P	09	53.41	-2.0
MRWA	81.29	206	eP	09	56.00	0.4
MFF	81.30	337	eP	09	56.00	0.4
IMI	81.36	331	P	09	55.67	-0.3
SAOF	81.40	331	P	09	55.35	-0.8
AUTN	81.44	331	P	09	56.07	-0.5
TOUF	81.48	331	P	09	56.24	-0.5
SBF	81.55	331	eP	09	56.60	-0.4
RDP	81.56	326	P	09	57.70	0.7
AURF	81.57	331	P	09	56.37	-0.7
SGO	81.60	324	P	09	56.90	-0.2
MVIF	81.62	331	P	09	57.09	-0.3
LBL	81.62	334	P	09	57.79	0.5
CLE	81.64	34	iP	09	58.50	1.1
CALN	81.83	331	P	09	57.59	-0.9
MGR	81.86	324	P	09	58.20	-0.3
TDS	81.95	323	P	09	59.30	0.3
BWA	81.98	178	eP	10	00.30	1.3
RJF	82.05	335	eP	09	59.70	0.3
	1.0s	76.00nm			5.2mb	
	Z 20s	0.40um			4.8Msz	
FRF	82.08	331	eP	09	59.40	-0.2
PGF	82.20	329	P	09	59.17	-1.2
CAF	82.24	335	eP	10	01.30	0.9
CDR	82.26	332	iPc	10	02.00	1.5
LRG	82.27	331	eP	10	00.70	0.2
	0.7s	103.35nm			5.6mb	
	Z 20s	0.35um			4.7Msz	
BNH	82.32	26	P	10	01.00	0.2
LMR	82.33	331	eP	10	01.00	0.2
LFF	82.60	336	eP	10	03.00	0.9
LPO	82.71	335	eP	10	03.40	0.7
CAN	82.89	177	eP	10	04.60	1.1
SOI	83.42	322	P	10	06.00	-0.4
ATN	83.59	323	P	10	06.70	-0.5
EPF	84.47	335	eP	10	11.80	0.2
	0.8s	52.45nm			5.3mb	
BTH	84.54	336	Pc	10	12.50	0.6
			iPcP	10	13.50	19kmX
			i	10	18.50	
			PP	13	36.20	
			eS	19	50.00	
			SKKS	20	02.00	
			S	23	16.00	
			SKKS	35	11.00	
			PKS	39	30.00	
			SSS	41	40.00	
OGE	84.57	336	P	10	12.92	0.9
JAU	84.66	336	P	10	14.89	2.2
ESCF	84.68	336	P	10	14.37	1.7
ATE	84.71	336	P	10	14.65	1.9
BOH	84.78	336	P	10	14.07	0.9
ISSF	84.79	336	P	10	13.83	0.6
LHE	84.84	336	P	10	15.04	1.5
ABHA	85.08	292	ePd	10	17.00	1.8
TOO	85.08	180	eP	10	15.00	0.7
BLA	85.78	35	P	10	18.50	0.4
	1.0s	70.00nm			5.3mb	
PMO	85.92	117	iP	10	20.10	1.3
	1.4s	60.00nm			5.1mb	
TPT	86.08	117	iP	10	21.20	1.7
	1.4s	10.00nm			4.4mb	X
VAH	86.27	117	iP	10	21.70	1.2
	1.4s	40.00nm			5.0mb	
RUV	86.38	117	iP	10	22.70	1.7
	1.4s	65.00nm			5.2mb	
EBR	86.46	334	eP	10	23.00	1.8
			e	20	00.00	
			i	20	19.00	
			eSg	29	28.00	

05d 11h

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PPT     86.95 120 iP     10 25.40   1.6
        1.2s     70.00nm          5.3mb
PPN     87.00 120 iP     10 25.40   1.4
        1.2s     70.00nm          5.3mb
TVO     87.31 120 iP     10 27.00   1.5
        1.2s     75.00nm          5.3mb
JSC     88.00  37 eP     10 28.30  -0.3
IFR     94.87 336 iP     11 01.00   0.5
PTZ    116.81 279 iPKP   16 19.00  -1.5
                  i      17 12.00
MTD    118.47 276 ePKP   16 13.00 -10.6X
                  iPP    17 47.00
LSZ    119.65 280 iPKP   16 25.60  -0.3
                  i      16 26.40
                  i      17 58.20
KRI    119.82 278 iPKPd  16 25.60  -0.6
TIC    119.91 326 PKP    16 25.44  -0.9
KIC    120.07 326 PKP    16 26.00  -0.6
        0.5s      9.00nm
LIC    120.30 326 PKP    16 25.94  -1.1
BUL    122.82 276 iPKPd  16 31.40  -0.5
                  iPP    18 16.00
SLR    126.86 271 iPKPc  16 38.50  -1.1
        0.5s     31.69nm
                  i      18 31.00
KSR    127.88 272 ePKP   16 41.50  -0.1
        0.7s      7.50nm
                  e      18 33.00
SEK    128.99 269 ePKP   16 43.60   0.0
                  e      18 10.00
FRS    131.45 270 ePKP   16 40.20  -7.8X
        0.7s     10.27nm
                  i      19 28.00
HVD    131.87 269 ePKP   16 37.50 -11.5X
                  i      19 31.60
WIN    132.16 283 ePKP   16 39.00 -10.8X
        1.0s     15.00nm
                  e      19 09.00
ZOBO   137.93  53 PKP    16 54.00  -7.3X
LPB    138.16  53 PKP    17 04.00   2.4X
CNCB   138.45  53 PKP    16 54.00  -8.3X
                  i      17 04.00
CCH    139.91  52 ePKP   17 05.00   0.5
SOB1   141.03  11 ePKP   17 00.60  -5.7X
                  e      17 07.30
SIV    141.25  44 PKP    17 00.20  -6.4X
BAO    145.88  24 ePKP   17 16.00   1.4
NVL    148.50 207 ePKPd  17 21.00   4.0X
                  e      19 14.00
                  e      19 21.00
                  e      20 00.00
                  e      25 36.00
PEL    148.92  75 ePKP   17 19.00   0.1
MDZ    149.94  73 e(PKP) 17 23.40   2.9X
ITB1   151.83  42 e(PKP) 17 27.50   4.2X
     S.D. = 0.9  on 429 of 449 obs.
-----------------------------------------
?  JUL  05, 1991  11h 21m 56.55± 1.32s
   8.339 S ±24.9km  124.797 E ±29.8km
   DEPTH =  33.0km  (normal)
   4.6mb (  2 obs.)
 TIMOR                                (289)

MTN      7.67 126 eP     23 49.00   0.2
        0.4s    125.00nm          6.3mb X
                  eS     25 15.00
KNA      8.33 153 eP     23 57.50  -0.5
                  eS     25 30.00
WB2     14.79 142 iPc    25 21.70  -3.5X
                  eS     28 01.90
ASPA    17.56 151 iPd    26 00.10  -0.5
        0.8s     41.60nm          4.6mb
                  eS     29 06.60
QIS     18.77 132 eP     26 15.00  -0.5
STK     28.16 149 iPd    27 49.50   1.6
        0.4s      5.00nm          4.6mb
OBN     95.74 325 eP     35 20.00  -0.3
     S.D. = 1.0  on   6 of   7 obs.
-----------------------------------------
*  JUL  05, 1991  12h 45m 34.50± 0.86s
   2.082 N ±16.0km   97.722 W ±16.8km
   DEPTH =  10.0km  (geophysicist)
   4.7mb ( 12 obs.)  4.4Msz (  2 obs.)
 WEST OF GALAPAGOS ISLANDS            (695)

MEO     32.54 359 iPc    52 08.60   0.6
ALQ     33.69 347 eP     52 18.00  -0.2
        1.2s      8.59nm          4.6mb
ANMO    33.69 347 eP     52 18.70   0.5
        1.3s     15.38nm          4.8mb
TUL     33.71   3 eP     52 16.20  -1.8
        1.0s      8.40nm          4.6mb
      Z  20s      0.45um          4.2Msz
                  eS     57 46.00
                  LR     02 14.00
ZOBO    34.46 123 P      52 31.90   6.4X
      Z  24s      0.48um          4.2MszX
                  LR     03 26.00
LPB     34.61 123 eP     52 33.00   6.4X
      Z  20s      1.42um          4.7Msz
                  LR     03 16.00
CNCB    34.84 124 P      52 29.00   0.3
BAR     35.26 332 eP     52 32.00   0.5
PLM     35.91 332 eP     52 38.00   0.8
TPC     36.17 334 eP     52 40.00   0.8
FVM     36.35  10 eP     52 39.70  -0.9
PEC     36.49 332 eP     52 42.20   0.3
RVR     36.68 332 eP     52 43.00  -0.4
PAS     37.18 331 eP     52 38.00  -9.6X
MWC     37.19 332 eP     52 48.00   0.1
SBB     37.46 332 eP     52 50.00  -0.1
GSC     37.51 334 eP     52 51.00   0.5
GOL     38.08 350 eP     52 55.60   0.1
GLD     38.11 351 ePd    52 57.20   1.6
CLC     38.29 334 eP     52 58.00   1.0
BLA     38.42  22 eP     52 59.80   1.7
        1.2s     19.70nm          4.7mb
ISA     38.56 332 eP     53 00.00   0.7
TNP     40.04 336 eP     53 12.60   0.8
        1.2s     12.10nm          4.4mb
SIV     40.42 118 P      53 15.80   0.8
8W06    41.88 347 ePd    53 26.50  -0.3
        0.8s      5.95nm          4.4mb
RSSD    42.23 353 eP     53 29.80   0.1
        1.3s     21.11nm          4.7mb
ORV     43.12 333 ePc    53 37.90   1.1
LRM     45.44 346 eP     53 55.90   0.2
NEW     48.95 343 e(P)   54 23.00   0.1
SES     49.45 349 eP     54 27.00   0.3
PNT     50.65 342 eP     54 36.00   0.1
FFC     52.59 357 eP     54 49.00  -1.4
        1.5s     29.00nm          5.0mb
YKA     61.58 351 eP     55 51.50  -2.6
        1.2s      5.90nm          4.6mb
INK     70.44 347 ePd    56 49.80  -0.8
SLKM    70.59 335 e(P)   56 49.80  -2.0
PMR     70.74 337 e(P)   56 51.20  -1.4
        1.1s     25.00nm          5.3mb
RSO     71.63 335 eP     56 56.90  -1.4
FBA     72.17 340 eP     57 01.30   0.1
        1.2s     15.91nm          5.0mb
MBC     75.09 355 eP     57 18.00   0.1
        1.0s     11.00nm          4.8mb
WRA    126.17 247 PKP    04 45.00   5.1X
        1.2s      1.50nm
     S.D. = 1.0  on  36 of  40 obs.
-----------------------------------------
   JUL  05, 1991  13h 52m 17.78± 0.25s
   36.727 N ± 4.9km   45.219 E ± 3.4km
   DEPTH =  11.0km  (  7 depth phases)
   4.8mb ( 45 obs.)  3.5Msz (  5 obs.)
 IRAN-IRAQ BORDER REGION              (346)
      Felt in the Mahabad area, Iran.

SLY      1.15 168 iPc    52 41.00   1.9
                  i      52 51.00
                  iS     52 58.50
TAB      1.60  33 iPc    52 46.00  -0.2
MSL      1.70 259 iPnc   52 49.00   1.5
                  iP*    52 50.50
                  iPg    52 53.60
                  iSn    53 12.50
KER      2.83 146 ePd    53 12.50   8.7X
BHD      3.51 191 iPnc   53 15.50   2.2
                  iPg    53 27.50
                  iSn    53 59.00
                  iSg    54 14.50
IR5      4.60 108 eP     53 31.00   2.0
IR1      4.62 105 ePc    53 32.50   3.2X
IR4      4.84 106 ePc    53 36.00   3.6X
TEH      5.08  99 eP     53 49.00  13.2X
GAZ      6.43 276 ePn    53 48.40  -6.3X
BHL      8.31 253 P      54 22.00   0.9
                  S      56 52.00
HRI      8.51 249 eP     54 23.70  -0.2
MML      9.15 245 eP     54 31.80  -0.8
JVI      9.46 242 eP     54 35.70  -1.3
MAIO    11.50  88 iPc    55 12.00   7.0X
MLR     16.93 307 eP     56 20.00   3.8X
CMP     17.43 306 ePd    56 28.00   5.7X
VAY     18.17 292 eP     56 33.00   1.5
SKO     19.10 293 eP     56 40.00  -2.9
QUE     19.25 103 eP     56 45.50   0.5
        1.0s    715.00nm          5.9mb X
PSZ     21.71 309 eP     57 12.00   1.3
SPC     22.00 312 eP     57 12.40  -1.3
KRA     22.56 314 eP     57 19.90   0.9
        0.9s     54.00nm          5.0mb
                  e      57 22.00   8km
SRO     22.67 308 eP     57 23.40   3.3X
ZST     23.56 308 iP     57 30.20   1.4
VBY     24.11 301 eP     57 35.50   1.4
LJU     24.70 302 eP     57 42.00   2.0
CEY     24.72 301 eP     57 42.20   2.0
KSP     25.00 313 eP     57 44.40   1.6
VOY     25.14 302 eP     57 45.50   1.3
PRU     25.74 311 P      57 51.00   1.3
        1.1s     15.50nm          4.6mb
KHC     26.07 308 iP     57 54.20   1.3
        1.0s     10.70nm          4.5mb
                  e      57 57.00  10km
CRE     26.21 296 P      57 56.50   2.2
SFI     26.31 296 P      57 55.70   0.7
PGD     26.40 296 P      57 56.50   0.4
BRG     26.40 312 e(P)   57 56.80   1.0
        1.0s     10.00nm          4.5mb
WTTA    26.90 304 iPc    57 59.10  -1.5
        0.9s     24.30nm          4.9mb
                  i      58 01.40   8km
                  i      58 07.90
CLL     27.11 313 iPc    58 03.20   0.9
        1.3s     19.00nm          4.6mb
MME     27.15 297 P      58 05.40   2.3
NUR     27.18 338 iP     58 02.30  -0.5
        0.7s     10.70nm          4.7mb
GRF     27.71 309 eP     58 09.10   1.3
      Z  19s      0.10um          3.4Msz
MOX     27.73 311 e(P)   58 09.00   1.0
OSS     27.81 302 ePd    58 08.50  -0.4
KAF     28.01 341 eP     58 10.20  -0.2
PGF     28.34 293 eP     58 13.70   0.0
        0.8s     37.60nm          5.2mb
SLE     29.08 304 ePd    58 20.30   0.1
ZLA     29.11 303 ePd    58 20.50   0.0
SBF     29.49 296 eP     58 24.10   0.1
        0.8s     37.60nm          5.2mb
DIX     29.62 300 ePd    58 23.40  -2.0
LPG     30.04 299 eP     58 29.00  -0.2
        0.8s      6.05nm          4.5mb
LPL     30.05 299 eP     58 29.00  -0.2
        1.0s     10.00nm          4.6mb
FRF     30.06 295 eP     58 29.00   0.0
        1.0s     12.00nm          4.7mb
BNI     30.07 298 P      58 28.40  -0.9
LMR     30.16 295 eP     58 29.60  -0.3
        1.0s     12.00nm          4.7mb
HFS     30.88 329 eP     58 35.50  -0.5
        0.8s     16.60nm          5.0mb
      Z  17s      0.17um          3.8MszX
                  LR     10 36.00
WLF     30.92 307 P      58 37.00   0.6
DOU     31.98 308 P      58 47.00   1.2
LBF     32.05 302 eP     58 46.00  -0.5
        1.0s     10.00nm          4.7mb
SMF     32.12 301 eP     58 46.80  -0.3
        0.8s     10.75nm          4.8mb
LOR     32.15 302 eP     58 46.90  -0.5
        0.8s      6.70nm          4.6mb
      Z  22s      0.10um          3.5Msz
SSF     32.38 302 eP     58 48.90  -0.4
        0.8s      6.70nm          4.6mb
NB2     32.40 329 P      58 47.60  -1.8
        0.8s      3.20nm          4.3mb
AVF     32.47 301 eP     58 49.80  -0.3
        0.9s     15.55nm          4.9mb
WMO     32.89  64 P      58 54.50   0.6
        1.0s     10.00nm          4.7mb
      Z  20s      0.30um          4.0Msz
                  pP     58 58.00  12km
                  eS     04 07.00
MAF     32.99 300 eP     58 54.90   0.2
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        1.0s    14.00nm          4.8mb
TCF     33.24 300 eP     58 56.10  -0.8
        1.0s     9.00nm          4.7mb
CAF     33.34 298 eP     58 57.70  -0.1
        1.0s     8.00nm          4.6mb
RJF     33.72 299 eP     59 01.10   0.1
        1.0s    20.00nm          5.0mb
      Z  20s     0.08um          3.4Msz
LPO     33.97 297 eP     59 02.90  -0.3
        1.0s    16.00nm          4.9mb
GKN     34.22  93 P      59 06.60   0.9
LFF     34.28 298 eP     59 05.30  -0.5
        1.2s    23.80nm          5.0mb
DMN     34.76  94 P      59 10.22  -0.3
KKN     34.82  93 P      59 10.66  -0.3
MFF     34.87 301 eP     59 10.40  -0.5
        1.0s    20.00nm          5.0mb
PKI     35.02  93 P      59 13.12   0.3
HYB     35.12 114 eP     59 13.00  -0.3
FLN     35.14 305 eP     59 12.60  -0.6
        0.8s    12.10nm          4.8mb
      Z  22s     0.10um          3.5Msz
GUN     35.25  93 P      59 14.30  -0.5
GRR     35.38 304 eP     59 14.80  -0.4
        0.8s    34.90nm          5.3mb
LPF     35.49 303 eP     59 15.80  -0.4
        1.2s    29.75nm          5.0mb
GBA     36.86 120 Pc     59 27.10  -0.9
        1.4s    17.10nm          4.6mb
EKA     37.48 315 Pc     59 31.30  -1.5
        0.9s     9.00nm          4.5mb
GTA     42.52  69 eP     00 15.70   0.8
        1.4s    10.00nm          4.4mb
                  pP     00 19.00  11km
LZH     46.53  72 eP     00 46.50  -0.7
        1.2s    35.00nm          5.3mb
                  pP     00 51.00  15km
CD2     48.34  79 P      01 01.40   0.1
BTO     49.73  65 eP     01 12.20   0.2
CHG     50.12  96 eP     01 17.50   2.3
CHTO    50.12  96 eP     01 13.50  -1.6
        1.2s     4.17nm          4.3mb
                  pP     01 17.60  14km
HHC     50.77  64 P      01 20.60   0.7
        1.4s    20.00nm          4.9mb
TIY     52.45  67 eP     01 32.20  -0.5
KIC     54.60 249 P      01 46.20  -2.5
        0.7s    11.00nm          5.0mb
MTD     54.75 196 iPc    01 49.10  -0.6
LIC     54.91 249 P      01 48.36  -2.5
        0.8s    13.50nm          5.0mb
DL2     58.69  63 eP     02 16.50  -1.0
BUL     58.70 198 iPc    02 16.90  -1.0
SLR     64.15 197 iPc    02 52.00  -2.5
        0.9s     8.40nm          4.9mb
WIN     64.67 209 iPc    02 57.50  -0.6
        1.0s    16.00nm          5.2mb
MBC     66.88 356 eP     03 10.50  -0.9
        1.0s     6.00nm          4.7mb
FBA     78.19   6 ePd    04 16.90  -1.4
        0.8s    26.87nm          5.4mb
YKA     79.79 351 eP     04 25.20  -1.8
        0.9s     8.70nm          4.7mb
FFC     84.65 342 eP     04 51.00  -1.4
        1.0s    12.00nm          5.1mb
SES     90.76 345 eP     05 23.00   1.0
     S.D. = 1.2  on  93 of 102 obs.
-----------------------------------------
   JUL  05, 1991  16h 46m 58.14± 0.24s
   47.522 N ± 5.4km  154.214 E ± 3.6km
   DEPTH =  25.2km  (  7 depth phases)
   5.2mb ( 78 obs.)  4.5Msz ( 11 obs.)
 KURIL ISLANDS                    (221)
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 13S, 25C
      Centroid Location:
      Origin Time        16:47: 3.7 0.5
      Lat 47.31N 0.09 Lon 154.43E 0.08
      Dep  15.0 FIX Half-duration  1.6
      Moment Tensor;   Scale 10**16 Nm
        Mrr= 5.34 0.28  Mtt=-1.47 0.33
        Mff=-3.88 0.34  Mrt=-1.08 1.06
        Mrf= 0.24 1.25  Mtf=-1.93 0.34
       Principal Axes:
        T  Val=  5.54   Plg=80  Azm=200
        N        -0.58      10       29
        P        -4.96       2      299
      Best Double Couple:Mo=5.2*10**16
      NP1:Strike= 18 Dip=44 Slip=  75
      NP2:        218     48      104
MAT     16.15 233 eP     50 42 00  -2.9X
MDJ     17.31 269 eP     51 01.80   2.3
        0.8s   400.00nm          5.6mb
      N  11s     0.70um
      E  12s     1.00um
                  pP     51 09.00
CN2     20.39 270 eP     51 33.00  -2.6
      Z  16s     1.70um          4.5MszX
      N  13s     0.43um
      E  13s     0.73um
                 epP     51 40.00  26km
                  eS     55 12.00
SHK     20.71 239 eP     51 39.70   0.7
SNY     22.43 267 eP     51 55.80  -0.4
      Z  17s     2.20um          4.7MszX
      N  15s     0.90um
      E  15s     0.90um
                  S     56 00.00
DL2     25.11 262 eP     52 22.50   0.3
        1.0s    50.00nm          5.1mb
      Z  16s     0.35um          4.0MszX
                 eS     56 45.00
BJI     28.24 269 eP     52 50.50  -0.4
      Z  16s     1.16um          4.6MszX
      N  15s     0.59um
TIA     29.57 261 eP     53 02.80  -0.2
      Z  20s     0.70um          4.3Msz
                  S     57 50.00
SSE     30.08 249 Pd     53 08.50   1.0
        1.0s    40.00nm          5.2mb
      Z  20s     0.60um          4.2Msz
      E  13s     0.30um
NJ2     30.94 253 Pd     53 15.50   0.4
      Z  14s     0.40um          4.2MszX
      N  13s     0.50um
HHC     30.99 273 P      53 15.60   0.0
        0.8s    30.00nm          5.2mb
      Z  20s     0.80um          4.4Msz
SVW     31.40  46 eP     53 19.00   0.1
TIY     31.93 268 Pd     53 25.00   1.2
        0.8s    20.00nm          5.1mb
      Z  16s     1.30um          4.7MszX
      E  16s     0.77um
BTO     32.15 274 eP     53 24.50  -1.3
      N  14s     0.70um
      E  14s     0.30um
                 eS     58 35.00
WHN     34.85 255 eP     53 49.00  -0.1
FBA     35.09  39 eP     53 51.50   0.7
        0.9s    10.60nm          4.8mb
XAN     36.33 265 P      54 01.50  -0.2
BALM    37.83  45 eP     54 14.30   0.2
                  e     56 30.00
LZH     38.62 272 Pc     54 21.00   0.0
        1.0s    88.00nm          5.5mb
      Z  19s     0.74um          4.5Msz
      N  13s     0.45um
                  pP     54 28.50  25km
GTA     39.59 279 P      54 29.00  -0.1
        1.0s    10.00nm          4.5mb
      Z  20s     0.60um          4.4Msz
      N  13s     0.50um
                 PcP     56 36.40
INK     40.60  33 eP     54 38.00   1.2
CD2     41.69 265 P      54 46.40   0.1
        1.0s   100.00nm          5.5mb
GYA     42.61 258 iPd    54 54.00   0.0
        1.0s    81.00nm          5.4mb
MBC     43.61  20 eP     55 02.00   0.6
        1.5s    16.00nm          4.6mb
WMQ     45.35 291 P      55 15.50  -0.4
        1.0s    10.00nm          4.7mb
      Z  17s     1.10um          4.9MszX
      N  14s     1.00um
                  pP     55 21.00  18km
YKA     49.86  37 eP     55 50.50  -0.2
        0.8s     6.90nm          4.7mb
LSA     50.98 273 Pc     56 01.20   0.9
LOE     52.22 253 eP     56 08.60  -0.5
CHG     53.03 257 ePc    56 15.70   0.5
        1.0s    49.50nm          5.4mb
CHTO    53.03 257 iPc    56 15.70   0.5
        1.0s    47.00nm          5.4mb
                  pP     56 24.20  28km
SHL     53.14 269 iP     56 15.50  -0.7
PNT     54.15  54 eP     56 22.00  -1.2
        0.6s    10.00nm          5.0mb
GUN     55.68 275 P      56 35.02   0.0
        0.9s    77.00nm          5.8mb
NEW     56.11  54 eP     56 36.60  -0.9
        0.9s    11.84nm          4.9mb
KKN     56.16 276 P      56 38 04  -0.2
        0.9s   189.00nm          6.1mb
PKI     56.22 275 P      56 38.08  -0.7
        0.9s    78.00nm          5.7mb
DMN     56.40 275 P      56 39.74  -0.3
        0.9s   214.00nm          6.2mb
GKN     56.46 276 P      56 39.74  -0.6
        1.0s   154.00nm          6.0mb
NNT     57.07 251 eP     56 45.70   1.2
                  e     13 32.00
FFC     59.66  41 eP     57 01.00  -1.3
        1.0s    34.00nm          5.4mb
LRM     60.13  54 eP     57 06.00   0.1
NDI     60.98 282 iPd    57 11.00  -0.6
        0.6s    20.00nm          5.4mb
TNP     62.29  63 eP     57 18.80  -1.8
        1.0s     8.75nm          4.8mb
                  pP     57 27.30  28km
KAF     63.06 335 eP     57 18.10  -6.9X
CLC     63.53  65 eP     57 31.00   2.5
BW06    63.68  55 ePc    57 28.70  -1.0
        1.2s    14.84nm          5.0mb
                  pP     57 36.90  26km
FRB     64.07  20 eP     57 30.00  -1.6
SBB     64.12  66 eP     57 39.00   6.5X
MWC     64.29  67 eP     57 36.00   2.3
GSC     64.35  65 eP     57 36.00   2.0
NUR     64.83 335 iP     57 30.80  -5.8X
        0.7s     9.30nm          5.0mb
RSSD    65.75  51 eP     57 42.60  -0.5
        0.7s    12.98nm          5.2mb
                  pP     57 50.30  25km
BAR     66.17  67 eP     57 45.00  -0.7
QUE     66.68 290 iPd    57 49.40   0.3
PV09    66.78  58 eP     57 49.30  -0.5
UPP     67.28 338 iP     57 50.90  -1.3
HYB     67.73 272 eP     57 54.70  -1.0
NB2     67.74 342 P      57 53.70  -1.5
        1.1s    11.80nm          4.9mb
HFS     67.99 340 eP     57 55.00  -1.7
        0.7s     6.40nm          4.9mb
      Z  17s     0.28um          4.6MszX
                  LR     28 56.00
GOL     68.08  55 ePd    57 58.00   0.0
WB2     69.49 200 iPc    58 06.00  -0.3
WRA     69.49 200 P      58 05.00  -1.4
        1.3s    12.50nm          4.9mb
ANMO    70.79  59 ePc    58 14.50   0.0
        0.8s     4.66nm          4.7mb
ALQ     70.79  59 ePc    58 14.00  -0.6
        1.0s     5.00nm          4.6mb
GBA     71.18 270 Pd     58 16.30  -0.5
        0.8s     8.40nm          4.9mb
SCH     72.33  23 eP     58 23.00  -0.2
ASPA    73.18 199 iPc    58 29.20   0.7
        0.9s    28.80nm          5.3mb
KRA     75.10 331 ePd    58 38.60  -0.7
        0.9s    43.00nm          5.5mb
KSP     75.54 334 iPc    58 40.80  -1.0
EKA     75.76 347 Pc     58 42.30  -0.7
        0.7s     8.00nm          4.9mb
TUL     76.04  52 ePc    58 43.90  -1.0
        0.8s     9.20nm          4.9mb
      Z  22s     0.12um          4.2Msz
                  LR     56 28.00
CLL     76.07 336 iPc    58 43.70  -1.1
        1.0s    29.00nm          5.3mb
BRG     76.20 335 iP     58 44.80  -0.7
        1.0s    16.00nm          5.0mb
PRU     76.82 335 Pc     58 48.50  -0.5
        1.0s    18.40nm          5.1mb
      Z  16s     0.40um          4.8MszX
      N  16s     0.30um
      E  18s     0.30um
                  e     59 12.00  89kmX
MLR     76.86 325 eP     58 50.00   0.5
WTS     77.01 340 eP     58 50.00   0.0
        0.7s    17.00nm          5.2mb
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05d 16h

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MOX     77.04 337 eP     58 49.90  -0.4
        1.2s     37.00nm          5.3mb
CMP     77.39 326 ePc    58 54.00   1.7
SRO     77.58 331 iP     58 53.30   0.1
ZST     77.63 332 iP     58 53.90   0.4
KHC     77.87 335 iPc    58 55.00   0.2
        1.0s     26.40nm          5.2mb
      Z  20s      0.40um          4.7Msz
      E  18s      0.50um
                   e     58 58.00  10kmX
GRF     78.02 336 iPc    58 56.10   0.5
        0.8s     60.00nm          5.7mb
      Z  20s      0.20um          4.4Msz
WET     78.05 335 iPc    58 56.20   0.3
        0.8s     42.00nm          5.5mb
ENN     78.36 340 eP     58 57.00  -0.4
        1.0s     50.00nm          5.5mb
MEM     78.49 340 P      58 57.80  -0.3
DOU     79.29 341 P      59 03.10   0.6
WLF     79.33 340 Pc     59 05.00   2.3
BHG     79.34 335 eP     59 03.30   0.4
        0.9s     24.00nm          5.2mb
FUR     79.39 336 iPc    59 03.50   0.3
        0.9s     33.00nm          5.4mb
GWF     79.61 338 P      59 04.21  -0.2
KBA     79.78 334 iPd    59 04.80  -0.7
        0.8s     48.30nm          5.6mb
                   i     59 06.20   4kmX
                   i     59 20.90
PTJ     80.03 332 eP     59 06.00  -0.7
ZAG     80.10 332 iP     59 06.90   0.0
WTTA    80.11 335 iPc    59 07.50   0.2
        0.7s     44.40nm          5.6mb
                  id     59 08.00   2kmX
CDF     80.22 338 P      59 07.63  -0.1
ECH     80.43 338 P      59 08.51  -0.3
SLE     80.51 337 ePd    59 09.40   0.2
FEL     80.53 338 P      59 09.18  -0.3
OGA     80.64 335 eP     59 10.70   0.6
        0.8s     53.00nm          5.6mb
VITF    80.72 339 P      59 10.10  -0.2
MOF     80.78 338 P      59 10.16  -0.5
ZLA     80.80 337 ePd    59 11.30   0.6
HAU     80.83 339 eP     59 10.90   0.0
        0.8s     14.80nm          5.1mb
      Z  22s      0.43um          4.8Msz
BSF     80.88 338 P      59 10.82  -0.4
BBS     81.04 338 P      59 11.60  -0.4
OSS     81.06 336 ePd    59 13.00   0.7
LLS     81.20 337 ePd    59 13.70   0.6
LOMF    81.32 338 P      59 13.69   0.2
SKO     81.57 326 eP     59 14.00  -0.8
FLN     81.62 343 eP     59 15.00   0.1
        0.4s      5.70nm          5.0mb
VAY     81.70 325 iP     59 15.50   0.1
        0.8s     61.00nm          5.7mb
LDF     81.71 343 eP     59 15.30  -0.1
        0.8s      9.40nm          4.9mb
TMA     81.94 336 ePd    59 17.20   0.3
GRR     82.05 344 eP     59 17.40   0.3
        1.0s     42.00nm          5.4mb
LOR     82.11 340 eP     59 17.50  -0.1
        0.9s     27.85nm          5.3mb
      Z  22s      0.38um          4.7Msz
MMK     82.23 337 ePd    59 19.60   1.1
DIX     82.35 337 ePd    59 20.30   1.1
LBF     82.35 340 eP     59 18.80  -0.1
        0.7s      7.70nm          4.9mb
SSF     82.39 340 eP     59 19.20   0.2
        0.8s     10.75nm          5.0mb
LPF     82.42 344 eP     59 19.60   0.5
        0.9s     22.95nm          5.2mb
HRI     82.49 312 eP     59 19.70  -0.2
ORX     82.62 337 P      59 19.79  -0.5
AVF     82.68 340 eP     59 20.80   0.3
        1.0s     36.00nm          5.4mb
SMF     82.70 340 eP     59 20.70   0.1
        1.2s     89.25nm          5.7mb
BOB     83.01 336 P      59 23.00   0.6
BGF     83.01 341 eP     59 22.60   0.4
        1.0s     20.00nm          5.2mb
LPL     83.05 338 eP     59 23.60   0.9
        0.8s     23.50nm          5.4mb
LPG     83.06 338 eP     59 23.90   1.0
        0.9s     36.85nm          5.5mb
SFI     83.09 334 P      59 23.70   1.1
ARV     83.14 333 P      59 23.40   0.5
PGD     83.17 334 P      59 24.40   1.1
MME     83.18 334 P      59 24.80   1.4
RSP     83.25 337 P      59 23.07  -0.6
CRE     83.32 333 P      59 24.60   0.6
PLDF    83.39 340 P      59 24.87   0.6
MAF     83.40 341 eP     59 25.00   0.8
        0.9s     50.80nm          5.7mb
TCF     83.41 341 eP     59 25.00   0.7
        0.9s     24.55nm          5.4mb
AGO     83.43 340 P      59 24.82   0.4
PCP     83.47 336 P      59 24.61  -0.1
RRL     83.59 337 P      59 26.15   0.6
LSF     83.60 341 eP     59 25.70   0.5
        0.9s     31.95nm          5.5mb
ASS     83.61 333 P      59 25.90   0.5
MFF     83.61 343 eP     59 25.80   0.5
        0.8s     14.80nm          5.2mb
PYM     83.74 340 P      59 26.52   0.4
FIN     83.87 336 P      59 25.74  -0.9
ROB     83.88 336 P      59 26.56  -0.2
PZZ     83.89 337 P      59 26.15  -0.8
DSI     84.03 311 eP     59 27.40  -0.2
ENR     84.07 337 P      59 25.84  -1.9
STV     84.08 337 P      59 26.05  -1.8
MNS     84.22 332 P      59 28.40  -0.1
IMI     84.23 336 P      59 28.71   0.1
SBF     84.40 337 eP     59 29.40   0.0
        0.8s     29.55nm          5.6mb
RJF     84.50 341 eP     59 29.90   0.1
      Z  22s      0.25um          4.6Msz
CAF     84.74 341 eP     59 32.00   1.0
        0.6s      5.40nm          5.0mb
FRF     84.89 337 eP     59 31.90   0.1
        1.4s     34.85nm          5.4mb
LFF     85.02 341 eP     59 32.20  -0.2
        0.6s      7.20nm          5.1mb
LRG     85.07 337 eP     59 33.10   0.5
        0.9s     40.95nm          5.7mb
LMR     85.14 337 eP     59 33.50   0.5
        0.9s     29.50nm          5.5mb
LPO     85.16 341 eP     59 33.00  -0.1
        0.7s      8.80nm          5.1mb
PGF     85.18 335 eP     59 33.30  -0.1
        0.8s      8.05nm          5.0mb
MGR     85.30 329 P      59 33.40  -0.4
MBH     85.73 311 eP     59 35.90  -0.4
EPF     86.92 341 eP     59 41.00  -0.9
TIC    123.03 335 PKP    05 53.80  -0.2
KIC    123.22 335 PKP    05 54.00  -0.4
LIC    123.43 335 PKP    05 54.50  -0.3
BAO    143.27  38 ePKPd   06 29.00  -3.1X
      S.D. = 0.8  on 163 of 168 obs.
-----------------------------------------
    JUL  05, 1991  17h 07m 04.05± 0.25s
     7.954 S ± 4.6km  124.716 E ± 6.4km
    DEPTH =  29.6km  (  4 depth phases)
    5.3mb ( 21 obs.)  4.4Msz (  3 obs.)
 BANDA SEA                          (280)

MTN      7.96 128 iPd    08 58.40  -2.3
KNA      8.70 153 eP     09 07.00  -4.0X
        0.5s    233.00nm          6.6mb X
                   eS    10 40.00
MNI      9.34   1 ePd    09 21.00   1.3
TSM     13.95 330 ePd    10 22.00   0.0
DAV     14.97   3 eP     10 34.00  -1.3
WB2     15.14 143 iPd    10 31.20  -6.4X
                   eS    13 12.80
NANU    17.00 210 eP     10 57.00  -4.4X
ASPA    17.94 152 iPc    11 09.60  -3.5X
        1.2s    300.20nm          5.3mb
      Z  20s      4.00um          4.2MszX
                   eS    14 16.00
QIS     19.09 133 eP     11 22.00  -5.2X
                   iS    14 46.70
PMG     22.23  95 eP     12 00.00   0.0
KGM     23.53 294 ePc    12 14.70   2.0
BAG     24.55 350 eP     12 23.50   0.7
QLP     26.21 137 eP     12 38.70   0.5
PSI     27.82 291 ePc    12 52.50  -0.5
SNG     28.34 301 eP     12 58.80   1.1
                   eS    17 46.00
STK     28.52 149 iPc    12 58.60  -0.6
        0.5s     17.40nm          5.0mb
                   e     13 22.30 108kmX
                   iPcP  15 26.30
                   eS    18 28.80
RMQ     29.34 132 e(P)   13 07.00   0.3
                   i     13 38.00 147kmX
                   e     18 18.00
ADE     29.80 156 iPc    13 10.50  -0.2
CMS     30.59 143 eP     13 17.00  -0.7
                   i     14 06.00 246kmX
GZH     32.80 340 P      13 38.00   1.0
        1.3s     70.00nm          5.4mb
                   S     18 50.00
BFD     33.29 154 iPc    13 39.70  -1.5
        0.3s     41.00nm          5.8mb
LOE     33.93 318 eP     13 47.00   0.1
COO     33.95 135 eP     13 48.00   0.9
BWA     34.20 144 eP     13 50.80   1.6
HNR     34.85  95 eP     13 56.00   1.0
TOO     34.98 151 iPc    13 57.20   1.3
        1.0s    147.00nm          5.9mb
CAN     35.17 144 eP     13 57.90   0.4
CNB     35.38 144 eP     14 00.00   0.7
BDT     35.68 315 eP     13 59.30  -2.6
CHG     36.79 317 ePd    14 11.60   0.3
        1.4s     69.77nm          5.3mb
CHTO    36.79 317 iPd    14 11.90   0.6
        1.3s     49.43nm          5.2mb
                   pP    14 20.80  30km
GYA     38.44 333 P      14 24.80  -0.4
        1.2s     30.00nm          5.0mb
      N  16s      0.40um
      E  16s      0.50um
                   PcP   16 40.00
                   S     20 23.00
SSE     38.97 355 P      14 28.00  -1.4
        1.2s     17.00nm          4.7mb
                   S     20 28.00
KMI     39.23 328 Pd     14 34.00   2.0
        2.5s    200.00nm          5.4mb
WHN     39.55 346 ePd    14 35.60   1.4
TAU     40.09 154 eP     14 40.00   1.4
NJ2     40.17 352 Pd     14 39.80   0.5
                   pP    14 49.80  34km
DZM     42.52 114 iPc    14 59.10   0.2
CD2     43.55 334 P      15 07.00  -0.1
        1.2s    100.00nm          5.5mb
                   eS    21 32.50
XAN     44.37 341 Pd     15 12.60  -1.1
TIA     44.51 351 eP     15 13.30  -1.4
TSRJ    44.54  13 eP     15 15.20   0.2
IIDJ    44.96  15 eP     15 18.60   0.2
CHJJ    45.78  16 eP     15 24.60  -0.3
MTMJ    45.98  15 eP     15 26.90   0.4
MAT     46.04  15 eP     15 26.00  -0.9
        1.2s     56.25nm          5.4mb
                   eS    22 11.00
DL2     46.71 357 eP     15 31.50  -0.6
        1.0s     80.00nm          5.7mb
TIY     46.86 347 eP     15 33.00  -0.4
NIIJ    46.90  16 eP     15 33.30  -0.4
LZH     48.01 337 Pd     15 42.50  -0.1
        1.5s     94.00nm          5.6mb
      Z  20s      0.35um          4.3Msz
      N  13s      0.39um
                   pP    15 51.50  30km
                   sP    15 54.50
                   PP    17 34.00
                   eS    22 35.00
YAMJ    48.06  16 P      15 44.80   2.0
BJI     48.40 351 eP     15 44.50  -0.9
        1.2s     20.00nm          5.0mb
OFUJ    49.37  17 P      15 54.80   1.9
LSA     49.43 321 Pd     15 54.40   0.3
SNY     49.55 359 Pd     15 53.00  -1.2
        1.0s     20.00nm          5.1mb
HHC     50.05 347 Pc     15 57.80  -0.4
BTO     50.18 345 eP     15 57.00  -2.2
AOMJ    50.39  15 eP     16 04.20   3.6X
CN2     51.51   1 eP     16 08.40  -0.7
GBA     51.59 294 Pd     16 08.70  -1.5
        1.3s     27.10nm          5.0mb
HYB     52.12 299 eP     16 14.00  -0.2
        1.4s    125.00nm          5.7mb
MRRJ    52.32  15 eP     16 15.80   0.6
GTA     52.48 336 Pd     16 16.60  -0.1
        1.4s     40.00nm          5.2mb
                   pP    16 24.00  25km
                   sP    16 29.20
MDJ     52.51   4 Pd     16 16.90   0.3
        1.2s    100.00nm          5.6mb
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HOOJ    52.89  17 eP     16 23.00    3.5X
KUSJ    53.97  18 eP     16 28.00    0.6
THZ     54.18 137 P      16 29.30    0.2
ASAJ    54.31  16 eP     16 30.60    0.7
KHZ     54.88 137 P      16 33.70   -0.5
MNG     55.53 134 eP     16 37.70   -1.3
WMO     61.47 330 P      17 20.00   -0.4
         1.3s    40.00nm          5.4mb
      Z  20s     0.20um          4.3Msz
                 PcP    17 56.00
                 PP     19 35.50
                 S      25 42.00
                 ScS    27 07.00
IRK     62.48 346 eP     17 25.10   -1.9
                 e      17 29.00   13kmX
                 e      18 11.00
                 e      18 24.50
QUE     67.13 307 eP     17 56.70   -1.0
MAW     72.18 201 eP     18 27.00   -0.7
SBA     73.13 171 iPc    18 34.00    0.8
MAIO    75.27 311 eP     18 47.00    0.6
TAB     85.82 309 eP     19 43.00    0.5
NNA    150.81 133 ePKP   26 58.00    7.6X
         1.2s    35.94nm
CNCB   152.38 153 PKP    27 01.00    7.7X
LPB    152.56 153 PKP    27 00.00    6.6X
CCH    152.63 157 ePKP   27 07.00   13.7X
ZOBO   152.78 152 PKP    27 02.00    8.1X
         1.0s    17.50nm
      Z  20s     0.09um          4.6Msz
                 LR     52 16.00
      S.D. = 1.1  on  70 of  82 obs.
-----------------------------------------
&  JUL  05, 1991  17h 41m 57.10s
   34.500 N          118.560 W
   DEPTH =  11.0km
 SOUTHERN CALIFORNIA                ( 43)
      <PAS-P>. ML 4.1 (PAS), 3.8
      (BRK). Felt (V) at Newhall and
      Santa Clarito; (IV) at Arcadia,
      Chatsworth, Los Angeles and
      South Pasadena; (III) at
      Burbank, Canogo Park, Fillmore,
      Granada Hills, Hermosa Beach,
      Malibu, Monhattan Beach, Mission
      Hills, Montrose, Pasadena and
      Valencia.

SCY      0.40 167 iPd    42 03.90   -1.5
MWC      0.50 123 iPc    42 06.40   -0.9
SBB      0.63  73 iPd    42 08.60   -1.2
ABL      0.65 303 iPd    42 09.00   -1.1
PVPS     0.72 170 ePd    42 09.30   -1.9
PCF      0.78 125 eP     42 10.60   -1.5
FMA      0.82 164 eP     42 10.90   -1.9
VPD      0.95 136 eP     42 13.76   -1.3
CIW      1.03 180 ePd    42 14.12   -2.4
CIS      1.10 173 ePd    42 15.90   -1.8
PEC      1.31 117 iPc    42 19.60   -1.6
BCH      1.43 299 iPc    42 22.20   -0.8
CLC      1.53  31 ePc    42 23.10   -1.3
GSC      1.65  61 ePc    42 25.00   -1.2
PLM      1.82 129 iPc    42 26.70   -2.0
PKEM     2.01 321 eP     42 30.50   -0.8
PHAM     2.01 312 eP     42 30.10   -1.3
TPC      2.12 100 ePc    42 31.60   -1.3
PRI      2.38 314 iP     42 35.47   -1.2
                  iS     43 10.62
FRI      2.66 340 iPc    42 39.16   -1.4
                  iS     43 12.23
LLA      2.87 318 iPc    42 42.49   -1.1
PRS      2.93 309 iPc    42 41.75   -2.8
SAO      3.26 315 eP     42 46.62   -2.5
GLA      3.43 114 eP     42 49.00   -2.6
TNP      3.74  16 eP     42 56.50    0.4
GCC      3.77 313 iPc    42 52.94   -3.4
MHC      3.78 319 e(P)   42 53.70   -3.0
CMB      3.82 338 eP     42 56.42   -0.8
PCC      4.31 315 iPc    43 00.72   -3.3
BKS      4.49 320 eP     43 04.70   -1.9
                  eS     43 56.50
BRK      4.50 319 eP     43 04.90   -1.8
ZSP      4.55 320 iPc    43 05.99   -1.5
ORV      5.57 336 iPc    43 20.55   -1.3
       33 abs. associated
-----------------------------------------
%  JUL  05, 1991  19h 22m 00.59± 3.46s
   43.202 N ±16.4km   18.377 E ±20.8km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                         (383)
      ML 1.9 (TTG).

BRY      0.33 158 iPgc   22 07.29   -0.1
                  iSg    22 12.69
NKY      0.60 130 iPgd   22 12.20   -0.6
                  iSg    22 21.52
PLE      0.75  80 iPgd   22 15.07   -0.3
                  iSg    22 26.74
HCY      0.76 173 ePg    22 15.00   -0.4
                  iSg    22 26.55
BDV      0.98 160 iPgc   22 19.19    0.0
                  iSg    22 34.09
TTG      1.01 140 iPgc   22 19.74    0.1
                  iSg    22 34.70
IVA      1.16 106 iPgc   22 22.57    0.2
                  iSg    22 39.82
PVY      1.32 117 iPgc   22 25.59    0.5
                  iSg    22 45.40
ULC      1.40 152 iPgc   22 26.74    0.6
      S.D. = 0.5  on   9 of   9 obs.
-----------------------------------------
   JUL  05, 1991  19h 33m 52.04± 0.22s
   10.694 S ± 3.9km  165.919 E ± 5.2km
   DEPTH =  98.3km  (  2 depth phases)
   4.7mb ( 12 obs.)
 SANTA CRUZ ISLANDS                 (184)

HNR      6.01 282 eP     35 21.00    0.9
                  eS     36 31.00
BKM      7.29 162 iP     35 40.00    2.3
DZM     11.32 178 iPc    36 33.00    0.7
                  iS     38 32.50
BRS     20.71 215 iPc    38 27.00    0.5
CTAO    21.11 241 iPd    38 31.00    0.4
         1.0s    20.00nm          4.4mb
                  i(pP)  38 46.50   70kmX
RMO     22.57 224 eP     38 45.80    0.9
                  i      38 47.00    4kmX
COO     23.70 211 iPc    38 57.70    1.9
         1.0s    64.00nm          5.0mb
OIS     27.13 246 iPc    39 27.30   -0.7
CMS     27.82 219 eP     39 33.00   -1.1
                  i      40 01.00  132kmX
BWA     28.53 211 eP     39 39.30   -1.1
CNB     28.77 209 iPd    39 43.40    0.8
CAN     28.95 209 iPd    39 44.10   -0.1
TAZ     29.02 163 eP     39 46.40    1.7
WHH     29.62 163 P      39 50.10   -0.1
NGZ     29.65 165 eP     39 51.30    0.7
CNZ     29.66 165 eP     39 51.30    0.7
NOZ     29.84 161 P      39 50.60   -1.5
STK     30.82 223 iPc    40 00.90    0.2
         0.6s     7.40nm          4.6mb
                  e      40 27.90  124kmX
MNG     30.98 166 P      40 00.80   -1.3
KIW     31.08 167 eP     40 01.70   -1.3
TCW     31.28 168 eP     40 03.50   -1.1
MRW     31.39 167 eP     40 04.20   -1.4
MTW     31.50 166 P      40 04.90   -1.7
THZ     31.55 170 eP     40 06.10   -1.0
WB2     31.75 249 iPd    40 08.10   -1.0
KHZ     32.30 169 eP     40 12.50   -1.0
LTZ     32.44 171 P      40 14.40   -0.5
TOO     32.46 211 iPc    40 15.80    0.8
         0.8s    33.00nm          5.2mb
ASPA    33.10 243 eP     40 19.00   -1.9
         1.3s    14.20nm          4.6mb
BFD     33.74 215 eP     40 23.00   -3.1X
TAU     35.96 204 eP     40 45.00    0.1
WARB    40.13 242 iPc    41 20.40    0.4
MAT     53.74 332 (P)    43 05.00   -1.3
CN2     65.53 329 eP     44 26.00   -1.0
         0.8s     6.00nm          4.6mb
CSY     66.77 201 eP     44 28.90   -5.7X
         0.3s     4.70nm          4.9mb
SBA     67.15 180 iPc    44 38.10    1.3
TIY     69.42 317 eP     44 51.70    0.1
XAN     70.01 312 eP     44 54.50   -0.8
HHC     71.68 320 eP     45 06.00    0.7
CHTO    72.24 294 eP     45 09.30    0.4
         1.0s     1.75nm          3.8mb
                  pP     45 35.10  100km
CD2     72.53 307 P      45 09.80   -0.6
LZH     74.65 312 eP     45 23.00    0.2
         1.8s    28.00nm          4.8mb
                  pP     45 28.00   16kmX
SVW     77.72  18 eP     45 39.20   -0.2
         0.8s    20.69nm          5.0mb
                  e      46 04.40   96km
RSO     78.14  20 eP     45 40.70   -1.2
GTA     78.94 314 eP     45 47.50    0.9
         1.6s    10.00nm          4.4mb
SLKM    79.02  20 eP     45 45.20   -1.3
PMR     80.17  20 eP     45 51.00   -1.5
BALM    82.23  23 eP     46 03.20   -0.3
PRI     83.18  51 eP     46 10.40    1.5
WDC     83.25  47 e(P)   46 10.00    1.0
ORV     83.65  48 eP     46 11.80    0.7
CMB     83.99  50 eP     46 12.90    0.0
FRI     84.17  51 eP     46 13.80    0.1
ISA     84.73  52 eP     46 17.00    0.4
SBB     84.95  53 eP     46 18.00    0.2
RVR     85.11  54 eP     46 19.00    0.5
PEC     85.26  54 eP     46 20.00    0.7
CLC     85.45  52 eP     46 20.00   -0.3
GSC     85.93  53 eP     46 23.00    0.3
TPC     86.20  54 eP     46 24.00    0.0
TNP     86.39  50 ePc    46 24.90   -0.1
         0.8s     2.50nm          4.3mb
PKI     86.62 299 P      46 27.60    1.1
KKN     86.78 299 P      46 28.20    1.0
GLA     86.91  56 eP     46 28.00    0.5
GKN     87.39 299 P      46 30.60    0.6
MBC     96.72  13 eP     47 13.00    1.0
NB2    126.41 345 PKP    52 43.40   -1.3
         0.7s     0.90nm
      S.D. = 1.0  on  65 of  67 obs.
-----------------------------------------
   JUL  05, 1991  20h 50m 03.25± 0.20s
   18.154 S ± 6.4km  175.365 W ± 5.3km
   DEPTH = 265.2km  (  4 depth phoses)
   4.9mb ( 29 obs.)
 TONGA ISLANDS                      (173)

DZM     17.52 254 iPc    53 53.10    0.8
HBZ     20.15 195_eP     54 20.90    2.2
MNG     23.74 198 eP     54 51.40   -1.8
MRW     24.53 198 eP     55 00.10   -0.3
THZ     25.58 201 P      55 11.60    1.5
KHZ     25.96 199 P      55 14.40    0.9
PMO     26.50  87 iP     55 17.80   -0.8
         0.8s    25.00nm          4.8mb
LTZ     26.70 201 P      55 19.90   -0.3
VAH     26.71  88 iP     55 19.60   -0.9
         0.8s    20.00nm          4.7mb
TPT     26.77  87 iP     55 20.40   -0.6
         0.8s    15.00nm          4.6mb
RUV     26.96  88 iP     55 22.00   -0.7
         0.8s    20.00nm          4.7mb
BRS     30.71 247 iPc    55 56.00    0.1
COO     32.17 241 iPd    56 09.40    0.9
         0.4s    22.00nm          5.1mb
CNB     35.60 234 iPd    56 38.70    1.1
         0.9s    46.00nm          5.0mb
CAN     35.89 234 eP     56 40.40    0.4
BWA     36.06 236 eP     56 39.50   -2.0
CTAO    36.26 261 iPd    56 42.00   -1.3
         1.0s    35.00nm          4.8mb
PMG     37.36 278 eP     56 50.00   -2.5
CMS     37.44 242 ePd    56 53.00    0.0
         0.8s    95.00nm          5.3mb
LAT     38.41 282 eP     57 05.70    4.5X
TOO     39.29 232 iPc    57 09.10    0.9
         0.9s    51.00nm          5.0mb
STK     41.07 242 iPd    57 23.70    0.9
         1.0s    27.80nm          4.6mb
                  e      57 40.40   67kmX
BFD     41.42 234 eP     57 24.00   -1.6
         0.9s    53.00nm          4.9mb
ADE     43.96 238 eP     57 46.00   -0.2
WB2     47.42 259 iPd    58 12.50   -0.9
WRA     47.43 259 P      58 12.00   -1.5
         0.3s    31.90nm          5.1mb
ASPA    47.51 254 iPd    58 13.50   -0.7
         0.8s   303.30nm          5.7mb
                  iPcS   03 33.20
                  eS     04 47.20
                  iScS   07 17.70
MTN     51.69 268 iPc    58 44.60   -1.2
         0.8s   140.00nm          5.4mb
FORR    52.49 245 eP     58 50.20   -1.3
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05d 20h

```
KNA     53.33 264 eP     58 56.00   -1.9
WARB    53.93 251 iPd    59 01.40   -0.8
        0.3s     11.00nm          4.8mb
KLB     61.31 243 eP     59 52.00   -1.3
BAL     62.29 244 eP     59 58.70   -1.2
MUN     62.59 243 eP     00 01.00   -0.8
NANU    64.43 253 eP     00 13.00   -0.8
MAT     69.86 322 iPd    00 46.10   -1.3
        0.7s     25.34nm          5.1mb
PRS     74.41  43 ePd    01 14.40    0.4
                e        01 17.80   11kmX
SAO     74.63  42 e(P)   01 15.20    0.0
PRI     74.76  43 ePd    01 16.50    0.4
MHC     74.85  42 e(P)   01 16.90    0.3
LLA     74.86  43 e(P)   01 16.60    0.0
MWC     75.39  46 eP     01 20.00    0.1
PLM     75.74  47 eP     01 23.00    1.2
SBB     75.81  46 eP     01 22.00    0.0
PEC     75.83  47 eP     01 21.60   -0.5
ISA     75.93  45 eP     01 23.00    0.4
CMB     76.06  42 ePd    01 23.10   -0.2
                e        01 28.40   17kmX
ORV     76.29  40 eP     01 24.00   -0.5
WDC     76.29  39 ePd    01 24.40   -0.1
CLC     76.60  45 eP     01 26.00   -0.3
TPC     76.72  47 eP     01 27.00    0.0
GSC     76.85  46 eP     01 27.00   -0.8
TNP     78.12  43 eP     01 34.00   -0.9
        0.6s     5.09nm           4.4mb
                epP      02 37.40  269km
SSE     78.14 308 P      01 34.50   -0.3
NJ2     80.35 308 Pc     01 47.60    1.1
RSO     80.45  11 eP     01 45.20   -1.5
SVW     80.56  10 eP     01 45.30   -1.8
        0.5s     4.96nm           4.5mb
                epP      02 52.90  287kmX
SLKM    80.98  12 eP     01 48.00   -1.3
SNY     82.06 319 Pc     01 56.00    0.8
        1.6s     40.00nm          4.9mb
PMR     82.19  12 eP     01 54.40   -1.0
        0.7s     5.81nm           4.4mb
BALM    83.25  15 eP     02 00.00   -1.0
TIA     83.57 311 eP     02 03.50    0.5
PV09    83.76  46 ePd    02 04.40    0.1
ALQ     84.00  50 eP     02 06.00    0.5
        1.0s     6.75nm           4.4mb
                e        03 09.00  263km
ANMO    84.00  50 ePd    02 05.50    0.0
        1.0s     7.00nm           4.4mb
                epP      03 09.60  268km
NEW     84.03  35 ePd    02 03.80   -1.3
        0.7s    10.00nm           4.8mb
IPM     85.36 276 ePd    02 14.50    2.1
BW06    85.57  42 eP     02 12.50   -0.6
                epP      03 15.00  260km
BJI     86.01 314 eP     02 15.50    0.5
        1.6s    41.00nm           5.0mb
PSI     86.76 274 eP     02 28.00    8.8X
TIY     87.60 311 Pd     02 24.20    1.4
SES     88.52  35 eP     02 27.00    0.1
XAN     88.72 306 Pc     02 29.70    1.5
HHC     89.53 313 Pc     02 33.60    1.7
        1.0s    30.00nm           5.2mb
RSSD    89.75  43 eP     02 28.80   -4.2X
        0.8s     2.60nm           4.2mb
INK     91.38  14 eP     02 39.00   -0.6
CD2     91.65 302 P      02 43.40    1.6
CHG     91.81 289 ePd    02 44.10    1.4
        0.9s     9.45nm           4.8mb
CHTO    91.81 289 iP     02 44.60    1.9
        0.8s     9.15nm           4.8mb
LZH     93.34 307 eP     02 50.00    0.4
        1.0s    21.00nm           5.2mb
QUE    122.51 295 ePKP   08 29.70    0.5
KAF    133.53 346 iPKP   08 45.60   -3.5X
NUR    135.33 346 ePKP   08 44.90   -7.6X
NB2    136.91 355 PKP    08 54.80   -0.8
        0.8s     3.10nm
HFS    137.57 353 ePKP   08 44.70  -12.1X
        0.5s     1.00nm
WIT    145.38 358 ePKP   09 12.50    1.8
KRA    145.89 342 ePKPd  09 12.40    0.7
KAS    146.00 319 ePKP   09 15.00    2.7X
KSP    146.09 347 ePKPc  09 12.70    0.7
                i        09 13.70
                e        10 23.00
WTS    146.19 358 ePKP   09 13.50    1.4
        0.9s     33.00nm
CLL    146.26 351 iPKPd  09 13.60    1.4
        1.3s     95.00nm
                i        10 24.60
BRG    146.52 349 iPKP   09 13.00    0.3
        1.0s     36.00nm
                i        09 14.60
                e        10 27.00
SPC    146.57 341 ePKP   09 13.60    0.5
VRI    146.84 331 ePKPd  09 15.00    1.6
MOX    147.11 352 ePKP   09 14.20    0.6
                i        09 16.50
PRU    147.26 348 PKP    09 16.80    2.9X
        1.0s     18.40nm
                e        09 40.50
ENN    147.45 358 ePKP   09 17.50    3.4X
        0.8s     19.00nm
MLR    147.48 332 ePKP   09 15.00    0.4
MEM    147.60 358 PKPc   09 17.80    3.4X
GRF    148.09 352 ePKPd  09 19.50    4.2X
        Z  21s      0.05um          4.3Msz
                e        09 22.40
DOU    148.13   0 PKP    09 19.30    4.0X
                e        09 37.20
KHC    148.26 349 iPKP   09 16.00    0.4
        1.1s     17.60nm
                i        09 19.50
                i        09 23.00
HRI    148.34 304 ePKP   09 21.00    4.7X
ZST    148.36 344 ePKP   09 19.70    4.0X
                i        09 23.60
SRO    148.37 342 iPKP   09 19.90    4.2X
VKA    148.49 345 i(PKP) 09 20.80    4.9X
WLF    148.54 358 iPKPd  09 20.77    4.9X
                id       09 39.74
GWF    149.16 356 PKP    09 22.01    5.0X
FLN    149.19   7 ePKP   09 21.40    4.4X
        0.8s     29.55nm
ZNT    149.25 303 ePKP   09 23.00    5.4X
LDF    149.39   6 ePKP   09 21.90    4.6X
        0.9s     31.10nm
GRR    149.51   7 ePKP   09 22.40    5.0X
        1.0s     52.00nm
CDF    149.74 357 PKP    09 23.07    5.1X
BHG    149.75 349 iPKPc  09 23.50    5.6X
        1.0s     19.00nm
LPF    149.84   8 ePKP   09 23.40    5.5X
        0.9s     63.90nm
ECH    149.95 357 PKP    09 23.35    5.2X
VITF   149.99 358 PKP    09 23.88    5.7X
MBH    150.13 298 ePKP   09 25.10    6.0X
HAU    150.19 358 ePKP   09 24.30    5.8X
        1.0s     36.00nm
FEL    150.23 355 PKP    09 24.10    5.4X
BEO    150.30 337 ePKP   09 24.40    5.7X
MOF    150.31 357 PKP    09 24.32    5.5X
BSF    150.35 357 PKP    09 24.50    5.6X
WTTA   150.40 350 iPKPd  09 24.80    5.7X
        0.5s     22.60nm
                i        09 30.40
                e        10 37.00
BBS    150.67 356 PKP    09 25.21    5.9X
PTJ    150.78 344 ePKP   09 21.00    1.4
LOR    150.96   1 ePKP   09 26.10    6.4X
        0.8s     28.20nm
LJU    151.00 346 e(PKP) 09 20.00    0.2
                e        09 26.10
SSF    151.16   2 ePKP   09 26.80    6.8X
        0.8s     33.60nm
VOY    151.16 347 ePKP   09 20.10    0.0
                i        09 25.80
LBF    151.24   1 ePKP   09 26.80    6.6X
        0.6s     17.15nm
CEY    151.31 346 ePKP   09 20.00   -0.3
                e        09 26.50
VBY    151.33 344 ePKP   09 20.80    0.5
MFF    151.36   7 ePKP   09 26.80    6.5X
        1.0s     28.00nm
AVF    151.42   2 ePKP   09 26.90    6.5X
        0.8s     13.45nm
SMF    151.58   1 ePKP   09 26.60    6.0X
        0.9s     11.45nm
BGF    151.64   3 ePKP   09 27.40    6.7X
        0.6s     25.25nm
RIY    151.70 345 ePKP   09 27.20    6.4X
LSF    151.86   5 ePKP   09 27.80    6.7X
        0.7s     29.75nm
TCF    151.87   4 ePKP   09 28.00    6.9X
        0.6s     14.45nm
MAF    151.96   3 ePKP   09 28.20    7.0X
        0.8s     28.90nm
VAY    152.26 330 ePKP   09 28.40    6.6X
SKO    152.26 332 ePKP   09 28.70    6.9X
                i        09 39.50
LPL    152.66 357 ePKP   09 30.80    8.3X
        0.9s      9.85nm
LPG    152.68 357 ePKP   09 30.80    8.2X
        0.9s      9.85nm
RJF    152.80   5 ePKP   09 29.70    7.3X
        0.8s      9.40nm
CAF    153.22   4 ePKP   09 31.10    8.0X
        0.8s      7.40nm
      S.D. = 1.1  on  95 of 147 obs.
-----------------------------------------
%  JUL  05, 1991  21h 08m 49.10± 1.37s
   38.428 N ±10.9km   27.060 E ±13.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 3.4 (ISK). Felt at Izmir.

IZM      0.16 101 iPg    08 52.10   -0.8
EZN      1.51 338 ePn    09 15.80   -0.3
YER      1.61 143 ePn    09 18.00    0.2
KHL      1.94  92 ePn    09 23.00    0.5
EDC      2.01  18 ePn    09 24.00    0.5
KGT      2.03   5 ePn    09 23.50   -0.2
      S.D. = 0.7  on   6 of   6 obs.
-----------------------------------------
&  JUL  05, 1991  21h 31m 39.67s
   61.422 N          150.017 W
   DEPTH =  31.6km
 SOUTHERN ALASKA                     (  2)
      <AEIC>. ML 2.7 (AEIC).

PWA      0.24  16 iPd    31 46.47    0.0
PMS      0.28 129 iPd    31 47.10    0.0
                iS       31 53.47
SUA      0.35 277 iPc    31 48.07   -0.1
                eS       31 55.59
PLRM     0.46  68 iPd    31 48.55   -1.0
                eS       31 56.19
GHO      0.63  56 iPd    31 51.12   -1.2
                eS       32 00.98
KNK      0.75  90 iPc    31 52.95   -1.0
                eS       32 03.80
NKA      0.90 222 ePd    31 56.75    0.7
SKT      0.91 309 iPc    31 55.24   -1.0
                eS       32 07.56
SLKM     0.92 186 eP     31 54.87   -1.6
                eS       32 08.39
CGLM     0.97 264 ePc    31 56.25   -0.9
CUT      0.99 353 ePd    31 56.49   -0.9
SPU      1.01 257 iPc    31 56.64   -1.1
                eS       32 10.51
NCG      1.03 270 iPc    31 57.34   -0.7
                eS       32 11.61
CKL      1.14 260 iPc    31 58.87   -0.8
                S        32 13.86
BGL      1.16 263 ePc    31 59.02   -0.8
SCM      1.35  71 ePc    32 01.91   -0.6
                eS       32 19.79
SEW      1.35 168 eP     32 02.17   -0.3
RDT      1.44 235 eP     32 03.06   -0.8
                eS       32 21.97
GLI      1.52 110 iPc    32 03.62   -1.3
                eS       32 22.76
NNL      1.52 205 ePc    32 05.13    0.2
DFR      1.54 239 eP     32 04.46   -0.9
KNIM     1.55 133 eP     32 02.89   -2.5
HUR      1.57   6 eP     32 05.66   -0.1
                eS       32 25.68
REF      1.61 236 iPd    32 05.61   -0.8
RDN      1.62 237 ePd    32 05.50   -1.0
RSO      1.65 235 ePd    32 06.17   -0.8
                eS       32 26.98
RS2      1.65 235 ePd    32 06.16   -0.8
RDW      1.66 237 ePd    32 06.32   -0.8
NCT      1.66 240 ePd    32 06.30   -0.8
VZW      1.71 101 iPc    32 06.64   -1.2
LTI      1.75 142 ePc    32 05.96   -2.3
VLZ      1.80  98 iPc    32 07.65   -1.4
MTU      1.85 140 eP     32 07.84   -1.9
HOM      1.94 205 eP     32 10.37   -0.7
TOA      1.95  68 iPc    32 11.11   -0.2
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KLU     1.97  86 ePc    32 10.07  -1.5
CNPM    2.00 198 iPd    32 10.47  -1.4
TRF     2.04 357 eP     32 12.49  -0.2
RND     2.06  15 eP     32 12.52  -0.4
IVS     2.07 228 eP     32 12.34  -0.8
KTH     2.18 349 ePc    32 14.48   0.0
PDB     2.63 233 ePd    32 19.40  -1.5
GLB     2.98  87 eP     32 23.86  -2.0
BALM    3.73  93 eP     32 33.64  -2.9
        44 obs. associoted
-----------------------------------------
%  JUL  05, 1991  22h 04m 36.15± 0.97s
   42.946 N ± 7.1km   18.647 E ± 6.4km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                          (383)
      ML 1.6 (TTG).

BRY     0.09 239 iPgd   04 39.22   0.4
                 iSg    04 41.20
NKY     0.29 117 iPgc   04 42.39   0.1
                 iSg    04 46.82
HCY     0.51 192 iPgd   04 46.14  -0.4
                 iSg    04 54.39
PLE     0.67  55 iPgd   04 49.07  -0.4
                 eSg    05 00.01
BDV     0.68 169 iPgc   04 49.27  -0.3
                 iSg    04 59.39
TTG     0.69 139 iPgc   04 49.64  -0.1
                 iSg    05 00.12
IVA     0.92  94 iPgc   04 54.25   0.4
                 iSg    05 08.10
ULC     1.08 155 iPgc   04 56.77   0.3
                 iSg    05 12.67
      S.D. = 0.4  on   8 of   8 obs.
-----------------------------------------
%  JUL  05, 1991  23h 37m 52.18± 0.85s
   42.574 N ± 6.9km   13.251 E ± 9.5km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                       (381)

AOU     0.25 153 P      37 56.90  -0.6
                 eSg    38 00.50
MNS     0.46 246 P      38 01.50  -0.1
                 eSg    38 10.20
ASS     0.66 319 P      38 05.60   0.2
                 eSg    38 15.70
ARV     0.95 346 P      38 10.10  -0.2
                 eSg    38 26.60
SDI     0.96 154 P      38 11.20   0.6
                 eSg    38 23.90
      S.D. = 0.7  on   5 of   5 obs.
-----------------------------------------
   JUL  06, 1991  00h 07m 24.12± 0.37s
   40.164 N ± 5.2km   20.447 E ± 3.2km
   DEPTH =  18.3 ±  4.8 km
 GREECE-ALBANIA BORDER REGION        (392)
      MD 3.3 (ATH).

IGT     0.64 188 eP     07 35.08  -1.3
                 eS     07 46.92
KEK     0.67 228 ePg    07 36.00  -1.0
FNA     0.94  49 eP     07 39.58  -2.1
                 eS     07 53.72
KZN     1.02  82 ePb    07 40.90  -2.2
LIT     1.57  92 eP     07 51.60   0.4
                 eS     08 15.92
GRG     1.69  61 eP     07 52.84  -0.1
                 eS     08 16.96
AGG     1.85 127 eP     07 56.76   1.5
                 iS     08 25.28
LCI     1.92 276 P      07 56.50   0.3
SKO     1.96  22 eP     07 57.70   0.9
                 i      07 59.20
                 i      08 24.40
THE     1.98  76 eP     07 57.40   0.3
                 eS     08 24.12
VAY     1.98  54 iPn    07 57.60   0.4
VLS     1.99 177 ePn    07 59.00   1.7
KNT     2.11  61 eP     07 58.88  -0.2
                 eS     08 25.68
SOH     2.31  73 iP     08 02.14   0.2
PAIG    2.49  94 iP     08 04.24  -0.2
                 iS     08 37.24
BRT     2.57 287 P      08 07.50   1.8
SRS     2.58  67 eP     08 05.64  -0.1
                 eS     08 39.38
ORI     3.07 269 P      08 14.00   1.4
TDS     3.20 262 P      08 13.50  -1.0
ATH     3.36 130 ePb    08 23.50   6.8X
CZI     3.46 256 P      08 17.90  -0.3
MGR     3.75 271 P      08 22.40   0.1
SGO     3.95 277 P      08 25.70   0.7
VLI     3.96 150 ePn    08 25.30   0.1
RDO     3.99  74 ePb    08 31.00   5.2X
SOI     4.00 240 P      08 24.70  -1.2
                 eSn    09 10.30
SDI     5.25 289 P      08 43.60  -0.1
ASS     6.52 299 P      09 01.30  -0.3
CRE     7.22 301 P      09 10.50  -0.9
      S.D. = 1.1  on  27 of  29 obs.
-----------------------------------------
?  JUL  06, 1991  00h 16m 40.82± 6.57s
    7.269 S ±62.4km  129.242 E ±29.3km
   DEPTH = 170.1 ± 53.7 km
   5.3mb (  2 obs.)
 BANDA SEA                           (280)

MTN     5.85 162 iPc    18 07.20   0.7
      0.3s   285.00nm          6.0mb
                 eS     19 08.00
KUPT    6.26 242 ePc    18 12.00  -0.1
                 eS     19 22.50
KNA     8.44 183 eP     18 40.50  -0.5
      0.2s    33.00nm          5.5mb X
                 eS     20 09.00
WB2    13.54 159 iPc    19 45.70  -1.6
      0.2s    72.60nm          5.7mb X
                 iS     22 05.30
QIS    16.59 144 eP     20 25.00  -0.1
                 eS     23 20.00
ASPA   16.91 165 eP     20 30.50   1.5
      0.6s    20.30nm          4.7mb
                 iS     23 31.00
STK    27.06 156 eP     22 39.80  30.5X
      1.5s     2.70nm
      S.D. = 1.7  on   6 of   7 obs.
-----------------------------------------
?  JUL  06, 1991  03h 10m 26.54±10.41s
   17.206 S ±90.6km   76.217 W ±78.2km
   DEPTH =  33.0km  (normal)
 OFF COAST OF PERU                   (114)

ARE     4.59  81 eP     11 36.00   0.3
                 iS     12 20.00
PT10    5.15 352 eP     11 50.00   6.5X
                 eS     12 50.00
NNA     5.22 353 eP     11 44.50   0.0
      0.5s     9.86nm          4.5mb
                 e      11 49.70
                 eS     12 46.00
LPB     7.80  86 P      12 22.00   0.9
      1.0s    40.00nm          5.4mb
                 i      12 27.50
                 S      13 48.00
                 LR     14 48.00
ZOBO    7.81  84 P      12 20.00  -1.3
                 i      12 21.00
                 S      13 53.00
                 LR     14 56.00
CNCB    7.89  88 P      12 22.80   0.3
                 S      13 53.00
CCH     9.63  93 eP     12 46.00  -0.2
SIV    14.57  87 P      13 47.70  -4.6X
WRA   132.42 220 PKP    30 05.00  25.0X
      0.5s     1.30nm
      S.D. = 1.0  on   6 of   9 obs.
-----------------------------------------
?  JUL  06, 1991  06h 44m 09.14± 2.64s
   40.341 N ± 8.8km   29.477 E ±24.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 2.8 (ISK).

IZI     0.00 216 iPg    44 11.00  -0.1
YLV     0.24 341 iPg    44 14.50   0.2
                 eSg    44 17.50
CTT     1.13 316 ePn    44 30.00  -0.3
BNT     1.19 271 ePn    44 31.50   0.2
      S.D. = 0.4  on   4 of   4 obs.
-----------------------------------------
   JUL  06, 1991  07h 54m 43.00± 0.52s
   43.912 N ± 4.5km    7.719 E ± 4.1km
   DEPTH =  10.0km  (geophysicist)
 NEAR SOUTH COAST OF FRANCE          (379)
      ML 2.3 (GEN).

IMI     0.12  91 P      54 46.96   0.9
                 S      54 49.42
SBF     0.21 257 Pg     54 48.00   0.4
                 Sg     54 51.20
ENR     0.38 326 P      54 50.75  -0.1
                 S      54 55.43
ROB     0.40  16 P      54 51.50   0.3
                 S      54 56.77
STV     0.44 320 P      54 51.72  -0.2
                 S      54 57.07
FIN     0.46  50 P      54 52.76   0.4
                 S      54 58.63
PZZ     0.74 323 P      54 57.22  -0.4
                 S      55 06.36
FRF     0.85 246 Pg     54 59.80   0.4
                 Sg     55 10.80
PCP     0.87  43 P      55 00.24   0.5
                 S      55 11.54
BHB     0.99 341 P      55 00.56  -1.1
                 S      55 12.19
LMR     1.05 237 Pg     55 03.10   0.3
                 Sg     55 16.80
LRG     1.09 246 Pg     55 04.00   0.6
                 Sg     55 19.00
PGF     1.65 145 Pn     55 10.40  -1.9
                 Sn     55 30.00
      S.D. = 0.8  on  13 of  13 obs.
-----------------------------------------
?  JUL  06, 1991  07h 57m 40.10± 3.84s
    7.878 S ±34.8km  129.250 E ±31.1km
   DEPTH = 201.2 ± 42.3 km
 BANDA SEA                           (280)

MTN     5.27 160 iPc    58 59.10   0.4
      0.4s   117.00nm          5.4mb
                 eS     00 03.00
KNA     7.84 183 eP     59 32.00  -0.3
                 eS     01 02.00
WB2    12.97 158 eP     00 37.10  -1.2
      0.4s     8.50nm          4.5mb
                 i      00 43.20
                 eS     03 03.70
QIS    16.10 143 eP     01 17.00   0.0
                 eS     04 13.00
ASPA   16.32 165 eP     01 20.90   1.2
      0.4s    31.40nm          5.1mb
                 eS     04 19.80
GKN    55.94 311 P      07 00.00   0.0
      S.D. = 1.3  on   6 of   6 obs.
-----------------------------------------
&  JUL  06, 1991  08h 13m 28.79s
   62.722 N          149.305 W
   DEPTH =  63.2km
 CENTRAL ALASKA                        (  1)
      <AE!C>.

HUR     0.30 330 iPd    13 39.38   0.0
                 eS     13 47.37
CUT     0.55 235 iPc    13 41.55  -0.1
RND     0.72  16 iPd    13 43.37  -0.4
                 eS     13 54.42
TRF     0.86 329 iPd    13 45.48  -0.1
                 eS     13 58.37
GHO     0.97 169 iPc    13 46.55  -0.4
                 eS     14 01.07
MCK     1.03   9 eP     13 47.67   0.0
                 eS     14 01.63
PWA     1.11 194 ePc    13 48.41  -0.2
KTH     1.11 319 ePd    13 48.82   0.0
                 eS     14 03.85
PLRM    1.14 176 iPc    13 48.68  -0.3
                 eS     14 05.09
SKT     1.28 235 iPc    13 50.74  -0.2
                 eS     14 07.69
KNK     1.37 163 ePd    13 52.66   0.4
                 eS     14 11.22
SUA     1.43 209 ePc    13 53.09  -0.1
PMS     1.49 185 ePc    13 54.42   0.6
                 eS     14 14.52
TOA     1.58 112 ePc    13 55.81   0.6
SDG     1.75  95 eP     13 57.74   0.3
                 eS     14 20.51
PAX     1.78  80 ePc    13 58.01   0.1
WRH     1.84  17 ePd    13 57.72  -0.9
NEA     1.87   3 eP     13 58.00  -1.0
```

06d 08h

```
NCG      1.89 227 ePd    13 59.65    0.2
CGLM     1.91 223 eP     14 00.34    0.6
KLU      2.01 126 ePc    14 00.64   -0.5
SPU      2.02 221 eP     14 01.47    0.2
CCB      2.04  18 eP     14 00.43   -1.1
BGL      2.06 226 eP     14 02.43    0.5
CKL      2.10 224 eP     14 02.81    0.4
VZW      2.12 141 ePc    14 01.61   -1.0
GLI      2.13 149 ePd    14 01.58   -1.1
VLZ      2.13 137 eP     14 01.36   -1.3
RDS      2.18  13 eP     14 02.33   -1.0
NKA      2.19 206 eP     14 06.35    2.9
SLKM     2.26 192 eP     14 05.29    0.7
MDM      2.30  12 ePd    14 04.18   -0.9
GLM      2.43  20 eP     14 05.83   -1.1
KNIM     2.50 162 eP     14 07.09   -0.8
RDT      2.61 216 eP     14 10.35    0.8
SEW      2.63 182 eP     14 10.06    0.4
DFR      2.68 219 eP     14 10.83    0.4
RDN      2.76 218 eP     14 12.27    0.5
REF      2.77 217 eP     14 12.22    0.4
NCT      2.77 220 eP     14 12.41    0.6
RDW      2.80 218 eP     14 12.87    0.5
RS2      2.80 218 eP     14 13.80    1.4
RSO      2.80 218 eP     14 13.78    1.4
GLB      2.89 114 eP     14 12.31   -1.1
IVS      3.27 215 eP     14 19.43    0.4
        45 obs. associated
-----------------------------------------
*  JUL  06, 1991  10h 21m 30.26± 1.68s
   10.397 S ± 8.6km  161.842 E ±10.5km
   DEPTH =  61.0 ± 15.2 km
   4.8mb (  6 obs.)  4.1Msz (  1 obs.)
 SOLOMON ISLANDS                    (193)

HNR      2.10 297 eP     22 04.00    0.4
                  eS     22 31.00
DZM     12.42 160 iPd    24 25.30   -1.1
                  iS     26 43.10
RMO     20.23 216 iPc    26 04.00    1.0
                  i      26 07.50
COO     22.11 203 iPc    26 22.90    0.9
CMS     25.70 213 eP     26 58.00    1.5
WB2     28.14 247 iPc    27 18.30   -0.6
        0.4s     10.70nm          4.8mb
ASPA    29.72 240 eP     27 31.40   -1.7
        0.9s      5.30nm          4.2mb
      Z  19s      0.50um          4.1Msz
TOO     30.80 206 eP     27 43.00    0.6
KLB     45.85 236 eP     29 47.80   -0.5
BAL     46.43 237 eP     29 52.70   -0.2
MRWA    46.67 240 iPd    29 54.80   -0.1
        0.4s     13.00nm          5.2mb
MUN     47.23 236 eP     29 58.50   -0.7
SVW     78.74  20 eP     33 28.10    0.6
        0.8s     42.76nm          5.4mb
FBA     83.94  19 ePc    33 53.50   -1.1
        0.7s     10.17nm          5.0mb
TNP     89.31  51 e(P)   34 22.20    0.6
        0.7s      1.22nm          4.3mb
NEW     91.78  41 e(P)   34 33.00    0.4
      S.D. = 1.0  on  16 of  16 obs.
-----------------------------------------
*  JUL  06, 1991  10h 22m 01.70± 1.34s
   40.240 N ±13.7km   20.383 E ±11.8km
   DEPTH =  10.0km  (geophysicist)
 GREECE-ALBANIA BORDER REGION       (392)
      MD 3.0 (ATH).

KEK      0.69 221 ePb    22 15.00   -0.4
FNA      0.93  54 eP     22 19.56    0.0
                  eS     22 31.52
KZN      1.06  86 ePb    22 20.00   -1.8
LIT      1.62  94 eP     22 30.84    0.4
                  eS     22 54.72
SKO      1.91  24 ePn    22 37.50    3.0X
                  i      23 03.80
AGG      1.93 128 eP     22 35.96    1.0
VAY      1.98  56 ePn    22 36.40    0.8
VLS      2.07 175 ePb    22 41.30    4.4X
PAIG     2.55  96 eP     22 43.68   -0.1
      S.D. = 1.1  on   7 of   9 obs.
-----------------------------------------
?  JUL  06, 1991  10h 30m 42.90± 1.47s
   39.119 N ± 8.4km   27.701 E ±17.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)
      MD 2.7 (ISK).

IZM      0.80 206 iPg    30 58.20   -0.2
                  eSg    31 09.00
BNT      1.25   8 ePn    31 05.50   -0.6
EZN      1.28 304 ePn    31 06.30   -0.3
KGT      1.37 347 ePn    31 08.50    0.6
      S.D. = 0.8  on   4 of   4 obs.
-----------------------------------------
   JUL  06, 1991  11h 10m 19.53± 0.44s
    7.236 S ± 7.2km  122.354 E ± 8.4km
   DEPTH = 550.0 ±  9.9 km
   5.3mb (  9 obs.)
 FLORES SEA                         (279)

KUPT     3.15 157 ePd    11 35.40   -0.6
                  eS     12 32.50
MKS      3.50 305 ePd    11 39.20    0.8
AAI      6.80  59 ePc    12 04.50   -1.9
                  eS     13 26.50
MNI      8.97  16 ePc    12 28.00    0.1
TRT      9.65 267 iPc    12 34.60   -0.1
MTN     10.28 124 iPd    12 41.50    0.3
        0.4s    208.00nm          5.8mb
                  eS     14 34.00
KNA     10.54 144 eP     12 44.30    0.5
        0.4s    140.00nm          5.6mb
TSM     12.30 339 ePc    13 02.00    0.4
NANU    16.60 203 eP     13 45.50    1.3
        0.3s     16.00nm          5.1mb
WB2     17.18 139 iPd    13 51.30    1.4
        0.4s     86.50nm          5.7mb
                  eS     16 44.10
WARB    19.28 168 iPc    14 11.50    1.4
        0.3s     27.00nm          5.4mb
ASPA    19.74 147 iPc    14 15.10    0.7
        0.7s     39.50nm          5.2mb
                  iS     17 21.90
QIS     21.32 130 eP     14 29.00    0.1
                  eS     17 48.00
MRWA    22.67 195 eP     14 41.00   -0.1
COOL    23.55 183 eP     14 47.00   -2.0
BAL     23.84 192 eP     14 51.10   -0.5
        0.3s     16.00nm          5.1mb
FORR    24.10 168 eP     14 53.20   -0.7
        0.3s     15.00nm          5.2mb
KLB     24.61 189 eP     14 58.80    0.3
MUN     25.28 192 eP     15 03.00   -1.3
PSI     25.38 292 eP     15 14.00    8.6X
NWAO    26.00 190 eP     15 10.50   -0.2
STK     30.38 146 iPc    15 49.50    0.8
        0.6s     25.20nm          5.0mb
                  e      17 14.00
                  e      20 10.50
CHTO    34.68 319 eP     16 26.00    1.0
        0.6s      1.82nm          3.9mb X
                  pP     18 12.00
BFD     35.01 151 iPc    16 26.70   -0.8
GBA     49.17 295 Pc     18 18.60   -1.0
        0.4s      2.10nm          4.0mb X
      S.D. = 1.0  on  24 of  25 obs.
-----------------------------------------
%  JUL  06, 1991  12h 06m 56.49± 0.65s
   39.962 N ± 5.4km   16.228 E ± 5.4km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN ITALY                     (390)

CSI      0.19 166 P      07 00.60   -0.2
MMN      0.20 249 P      07 00.60   -0.2
ORI      0.20  59 Pd     07 00.50   -0.4
                  eSg    07 04.30
TDS      0.31 164 P      07 03.00    0.0
                  eSg    07 07.60
ROI      0.47 146 P      07 05.50   -0.6
MGR      0.55 289 P      07 06.60   -0.9
                  eSg    07 16.90
CZI      0.75 186 P      07 11.30    0.2
                  eSg    07 23.70
SGO      0.92 311 P      07 15.00    0.9
      S.D. = 0.7  on   8 of   8 obs.
-----------------------------------------
   JUL  06, 1991  12h 19m 49.56± 0.14s
   13.108 S ± 3.4km   72.187 W ± 3.2km
   DEPTH = 104.5km  (geophysicist)
   6.2mb ( 75 obs.)
 PERU                               (116)
      mb 6.5 (BRK). Mo=1.3*10**19 Nm
```

(PPT). Some damage (VI) at Cuzco. Felt (V) at Abancay. Also felt at Lima and Ica. Felt (II) at La Paz, Bolivia. Two events about 4 seconds apart. Depth from broadband displacement seismograms, based on first event.

```
FAULT PLANE SOLUTION: P-Waves
 NP1:Strike=327 Dip=81 Slip= -10
 NP2:          59      80      -171
 Principal Axes:
  T                  Plg= 1  Azm= 13
  P                     13      283
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:  10  Focal mech.  F
 Energy          1.9±0.6*10**14 Nm
MOMENT TENSOR SOLUTION
Dep 110              No. of sta: 15
Moment Tensor;    Scale 10**19 Nm
  Mrr=-0.71         Mtt= 3.36
  Mff=-2.65         Mrt=-0.08
  Mrf=-0.54         Mtf=-0.12
 Principal axes:
  T  Val=  3.36   Plg= 1  Azm=181
  N       -0.57      75       87
  P       -2.80      15      271
Best Double Couple:Mo=3.1*10**19
 NP1:Strike=315 Dip=79 Slip= -10
 NP2:          47      80      -169
CENTROID, MOMENT TENSOR     (HRV)
Data Used: GDSN
L.P.B.: 26S, 76C  M.W.: 21S, 55C
Centroid Location:
Origin Time          12:19:55.6 0.1
Lat 13.41S 0.01 Lon  71.88W 0.02
Dep 105.9 0.5 Half-duration  6.1
Moment Tensor;    Scale 10**19 Nm
  Mrr=-1.21 0.02   Mtt= 2.09 0.01
  Mff=-0.87 0.02   Mrt=-0.02 0.01
  Mrf=-0.36 0.01   Mtf=-0.25 0.01
 Principal Axes:
  T  Val=  2.11   Plg= 0  Azm=  5
  N       -0.66      33       95
  P       -1.44      57      274
Best Double Couple:Mo=1.8*10**19
 NP1:Strike= 66 Dip=53 Slip=-133
 NP2:         303      54       -48

ARE      3.40 169 iPc    20 36.20   -5.7X
                  iS     21 33.20
NNA      4.68 283 iPd    20 53.70   -5.5X
        0.5s    528.17nm
PT10     4.78 282 iPc    20 54.50   -6.1X
                  e(S)   21 46.00
ZOBO     5.03 129 iPd    21 03.10   -1.5
LPB      5.22 131 iPd    21 06.20   -0.8
CNCB     5.48 133 iPd    21 09.00   -1.8
CCH      7.22 127 iPd    21 31.00   -3.4X
ANT     10.67 171 iPc+   22 09.00  -11.8X
                  eS     24 00.50
SIV     11.14 106 iP     22 22.40   -4.7X
ANGL    13.70 337 P      23 17.90   16.8X
VC1     13.84 333 P+     23 02.90   -0.1
QTO     14.28 333 P      23 11.00    2.5
CAYA    14.31 336 P+     23 08.20   -0.8
QUR     14.31 333 eP     23 09.80    0.8
YANA    14.38 333 P+     23 10.20    0.3
COTA    14.68 335 P+     23 14.20    0.3
PSO     15.09 340 eP     23 17.00   -1.9
CYA     16.38 160 e(P)   23 25.60   -9.1X
BOG     17.71 354 iPc    23 52.00    0.5
                  iS     26 20.00
ZON     18.63 171 eP     23 56.20   -5.8X
                  eS     27 16.20
IHA     19.83 179 eP     24 08.00   -6.4X
                  e(S)   27 47.00
MDZ     19.92 172 iP     24 11.00   -4.4X
                  iS     28 00.00
PEL     19.99 176 iPc    24 10.00   -6.2X
BMG     20.07 357 eP     24 14.00   -3.1X
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06d 12h

```
ITB1    20.35 127 e(P)  24 16.50  -3.3X
ITB     20.57 127 e(P)  24 18.50  -3.6X
ITB7    20.76 128 Pc    24 20.50  -3.6X
LPA     25.25 152 ePc-  25 03.00  -4.4X
        1.0s  3760.00nm          6.8mb
                  epP   25 17.00  58kmX
                  esP   25 35.00
                  eS    29 15.00
TPP     25.60  25 eP    25 13.30   2.5
TCE     25.82  24 eP    25 14.32   1.5
VAO     25.88 116 eP    25 10.60  -2.9
                  i     25 11.80
TBH     25.91  26 eP    25 15.71   2.0
                  e     25 35.62
TRN     25.92  25 eP    25 14.84   1.1
TPR     26.66  26 eP    25 22.48   1.9
GRW     27.19  23 eP    25 25.94   0.5
RDJ     29.16 114 iP+   25 40.40  -2.7
BIM     29.57  22 eP    25 46.30  -0.5
MVM     29.67  23 eP    25 47.10  -0.6
FDF     29.74  22 eP    25 48.70   0.4
        0.6s     3.30nm          4.2mb X
CRM     29.85  22 eP    25 46.90  -2.3
BBL     30.36  21 eP    25 51.50  -2.2
PAG     30.76  20 eP    25 59.00   1.7
MGG     30.78  21 eP    25 55.00  -2.4
SOB1    30.93  86 eP    25 56.90  -2.0
                  e     28 53.30
DEG     31.23  21 eP    25 59.00  -2.4
STH     31.32 352 ePc   26 02.73   0.6
MGP     31.32   9 iP    26 10.00   7.9X
SPJ     31.36 350 ePc   26 02.95   0.4
PORP    31.44  10 iP    26 02.00  -1.2
CLLP    31.48  10 P     26 01.50  -2.0
CPD     31.56  11 iP    26 03.00  -1.3
SJG     31.59  11 iP    26 03.80  -0.7
BPA     31.65  19 eP    26 02.00  -3.1X
MCP     31 72   9 iP    26 04.80  -0.9
LPR     31.83  11 iP    26 05.00  -1.7
LPS     32.00 328 iPc   26 08.50   0.3
CPB     32.22  19 eP    26 06.93  -3.0X
TPX     34.20 324 (P)   26 28.01   0.9
CAI     35.12  83 iPd   26 34.40  -0.7
SCX     35.88 325 (P)   26 54.50  13.1X
OXX     38.56 320 (P)   27 06.74   2.6
ACX     40.43 317 (P)   27 21.85   2.5
IIT     41.01 321 (P)   27 27.14   2.8
PPM     41.24 320 (P)   27 29.31   2.7
III     41.26 319 (P)   27 28.28   1.9
IIA     41.32 320 (P)   27 30.38   3.8X
UNM     41.79 320 (P)   27 34.00   3.2X
TAC     41.85 320 (P)   27 32.00   0.7
CRX     42.16 320 (P)   27 34.00   0.2
CGX     44.84 316 (P)   28 01.40   6.0X
HBF     46.44 350 P     28 08.20   0.6
JSC     47.91 350 eP    28 17.70  -1.4
                  epP   28 46.00 122kmX
                  esP   28 59.50
                  S     35 10.00
PRM     47.92 349 P     28 18.60  -0.6
LHS     48.03 350 P     28 19.90  -0.1
GBTN    49.82 347 P     28 32.80  -1.0
BLA     50.65 351 eP    28 39.80  -0.3
        1.0s   900.00nm          6.7mb
                  i     28 46.30
CBN     51.27 355 iP    28 44.50  -0.2
AIA     52.36 176 eP    28 51.50  -1.1
TUL     53.62 336 ePc   29 00.10  -2.1
        0.6s   217.00nm          6.3mb
      Z  22s    16.81um          6.1Msz
                  e     29 13.00
                  e     29 30.30
                  e     31 40.00
                  LR    40 51.00
FVM     53.62 342 ePc   28 59.60  -2.6
                  S     36 31.50
LVNJ    53.69 358 P     29 00.70  -1.9
GMTN    53.75 358 iP    29 01.60  -1.4
PNJ     53.77 358 iP    29 02.00  -1.2
MEO     53.82 333 iPd   29 02.60  -1.1
SCP     53.88 355 ePc   29 02.85  -1.2
                  esPc  29 39.27
                  ec    29 42.25
CCM     53.94 341 ePc   29 02.59  -2.0
                  ec    29 35.04
                  ec    29 41.99
                  e     31 35.81
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                  iS    36 32.10
                  eScS  38 44.20
                  e     39 34.52
TBR     54.01 358 ePc   29 03.10  -1.9
                  epP   29 32.20 123kmX
                  esP   29 44.80
CLE     55.00 351 iP    29 12.00  -0.3
HRV     55.34   1 ePc   29 13.24  -1.4
                  ed    29 42.54
                  esPc  29 49.66
                  ec    29 52.97
                  ePP   31 24.17
                  e     31 57.27
                  iS    36 54.73
                  iScS  38 54.91
                  i     39 42.59
DLA     56.35 352 P     29 19.60  -2.3
LDN     56.48 352 P     29 20.65  -2.2
ELF     56.64 352 P     29 21.75  -2.3
BNH     57.43   1 eP    29 27.00  -2.5
                  P'P'  59 24.00
EMM     57.73   4 P     29 30.20  -1.3
ALQ     57.79 327 eP    29 30.60  -1.9
        1.0s   161.50nm          6.0mb
      Z  20s    15.25um          6.1Msz
                  epP   29 58.00 113kmX
ANMO    57.80 327 ePd   29 32.91   0.4
        1.5s   409.32nm          6.2mb
                  ed    29 37.05
                  esPc  30 08.33
                  ec    30 11.48
                  e     32 08.89
                  iS    37 25.09
                  e     37 45.23
                  P'P'  58 58.50
MIM     58.14   3 P     29 33.70  -0.7
RKT     60.12 251 iP    29 46.50  -2.0
        1.6s  1215.00nm          6.8mb
GLD     60.91 331 eP    29 52.00  -1.8
        1.3s   540.23nm          6.4mb
                  epP   30 22.20 125kmX
                  P'P'  59 06.00
GOL     60.94 331 ePc   29 51.70  -2.4
        1.0s   183.75nm          6.1mb
      Z  20s    13.00um          6.1Msz
                  P'P'  59 01.50
GLA     61.34 320 eP    29 56.00  -0.7
IKP     61.90 318 eP    30 01.70   1.2
BAR     62.28 318 eP    30 02.00  -0.9
CPE     62.69 318 eP    30 06.10   0.5
TPC     62.80 320 eP    30 06.00  -0.4
PLM     62.83 319 eP    30 06.00  -0.8
PEC     63.37 319 eP    30 09.70  -0.4
                  P'P'  58 50.00
RVR     63.57 319 eP    30 10.00  -1.4
SCI     63.70 317 eP    30 12.70   0.5
RSSD    63.91 335 ePd   30 11.90  -1.8
        0.8s   210.34nm          6.1mb
                  P'P'  58 59.50
GSC     64.05 320 eP    30 13.00  -1.6
MWC     64.15 319 eP    30 15.00  -0.4
PAS     64.18 319 ePd   30 16.54   1.2
                  ed    30 20.52
                  esP   30 47.00
                  ec    30 55.45
                  eSPc  31 11.00
                  ePP   32 28.00
                  epPP  32 52.00
                  ePPP  33 42.00
                  ePcS  34 52.00
                  eScP  35 46.00
                  iS    38 49.65
                  e     38 55.44
                  esS   39 30.76
SBB     64.30 319 eP    30 14.00  -2.2
CLC     64.87 320 eP    30 18.00  -1.9
BW06    65.32 331 ePc   30 20.50  -2.3
        0.8s   142.86nm          6.0mb
                  P'P'  58 49.80
ISA     65.33 320 ePd   30 23.92   1.1
                  ed    30 28.06
                  isPc  31 00.83
                  ec    31 03.15
                  iS    39 02.86
                  isS   39 44.79
                  eSS   43 11.02
SBC     65.36 318 ePd   30 23.41   0.5
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                  ed    30 27.72
                  esPc  31 00.33
                  ec    31 03.31
                  iS    39 03.67
                  esS   39 45.61
                  eScS  40 12.10
                  eSS   43 22.27
TNP     66.11 322 ePd   30 26.40  -1.6
        1.0s   160.00nm          5.9mb
                  i     30 27.90
                  epP   30 58.00 129kmX
                  S     39 16.50
                  P'P'  58 48.40
FRI     66.93 320 ePc   30 31.90  -1.0
                  ePcP  30 37.30
                  ipP   30 58.90 108kmX
                  eP'P' 59 01.30
PRI     67.02 319 iPc   30 34.17   0.5
                  eP'P' 59 01.20
PRS     67.58 319 eP    30 36.37  -0.7
                  ePcP  30 42.60
                  epP   31 04.30 112kmX
                  eP'P' 59 02.10
SCH     67.81   3 ePd   30 36.20  -1.9
        1.4s   584.00nm          6.3mb
SAO     67.89 319 ePc   30 40.09   1.1
                  ePcP  30 44.10
CMB     68.00 321 iPd   30 40.58   0.9
                  ed    30 44.06
                  ePcP  30 53.60
                  esPc  31 17.00
                  ec    31 19.49
                  e     33 39.29
                  iS    39 35.36
                  e     39 41.15
                  eP'P' 58 55.70
MHC     68.37 319 eP    30 41.50  -0.6
GCC     68.41 319 eP    30 42.45   0.3
PCC     68.93 319 ePc   30 45.81   0.5
                  ePcP  30 51.00
LRM     68.97 331 eP    30 44.60  -1.2
BKS     69.06 319 ePd   30 46.00  -0.2
      Z  20s     2.30um          5.4Msz
      N  20s     2.10um
      E  20s     3.40um
                  ipP   31 17.50 128kmX
                  iPP   33 58.00
                  iS    39 49.00
                  i     41 38.00
                  iSS   44 40.00
                  eLQ   48 12.00
                  eLR   52 09.00
BRK     69.08 319 ePc   30 46.60   0.4
                  ePcP  30 52.00
LIC     69.41  78 P     30 46.24  -2.4
      Z  20s    15.00um          6.2Msz
                  S     39 46.00
TIC     69.53  78 P     30 47.50  -2.0
        1.3s   546.00nm          6.2mb
ORV     69.63 321 iPc   30 50.61   1.0
                  iPcP  30 53.90
KIC     69.72  78 P     30 47.94  -2.7
        0.9s   498.00nm          6.3mb
MIN     70.18 322 iPc   30 52.66  -0.5
                  eP'P' 58 53.10
WDC     70.88 322 eP    30 54.72  -2.5
                  eP'P' 58 47.40
SNA     70.99 160 iPc   30 54.80  -2.6
        1.5s   716.67nm          6.3mb
FOX     71.74 321 ePc   31 04.69   2.4
SES     71.79 335 ePc   31 01.50  -1.0
        0.9s   821.00nm          6.6mb
                  pP    31 23.00  82kmX
FHC     71.90 321 ePc   31 05.40   2.1
FFC     72.13 342 iPd   31 03.60  -0.7
        1.4s   218.00nm          5.8mb
RUV     72.60 258 iP    31 07.00  -0.8
        1.6s   105.00nm          5.4mb
VAH     72.83 258 iP    31 08.80  -0.4
        1.6s   810.00nm          6.3mb
TPT     72.86 258 iP    31 09.10  -0.2
        1.6s  1620.00nm          6.6mb
NEW     72.95 330 eP    31 08.30  -1.0
        1.5s   495.63nm          6.1mb
                  P'P'  58 30.50
PMO     73.12 258 iP    31 10.70  -0.2
        1.6s  1620.00nm          6.6mb
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TBI	73.38	249	iP	31	14.40	2.2	ECRI	84.39	44	eP	32	12.03	0.5	YKU	90.25	332	eP	32	43.70	4.4X
	1.6s	635.00nm				6.2mb	WIN	84.42	112	iPc	32	11.50	-0.8	LBF	90.27	42	eP	32	38.60	-1.2
TVO	73.97	255	iP	31	15.40	-0.4		1.0s	306.00nm				6.2mb	LOR	90.29	41	eP	32	38.80	-1.0
	1.6s	1215.00nm				6.5mb		Z 20s	20.92um				6.5Msz		1.6s	194.35nm				6.0mb
PPN	74.18	255	iP	31	16.70	-0.3	BOH	85.59	44	P	32	18.84	1.2		Z 20s	20.00um				6.5Msz
	1.6s	305.00nm				5.9mb	ELYF	85.63	44	P	32	19.99	2.3	CDR	90.43	45	ePc	32	40.70	0.2
PAE	74.29	255	iP	31	17.20	-0.4	ISSF	85.71	44	P	32	19.36	1.2				e	32	44.90	
	1.6s	965.00nm				6.4mb	EROO	85.73	47	eP	32	18.16	0.0	LRG	90.78	46	eP	32	42.10	0.0
PPT	74.30	255	iP	31	17.60	-0.1	LHE	85.79	44	P	32	19.45	0.9		1.2s	348.65nm				6.4mb
	1.6s	1265.00nm				6.5mb	EBR	85.79	47	iP	32	19.50	1.0		Z 20s	32.50um				6.8Msz
LON	74.31	327	iPd	31	17.88	0.6				iS	42	39.00		LMR	90.84	46	eP	32	42.20	-0.2
			ed	31	21.86					iPS	43	36.00		KIP	90.90	292	iPd	32	43.74	0.6
			ic	31	56.29		ATE	85.80	44	P	32	19.45	0.9				ed	32	48.38	
			ePP	34	07.87		ESCF	85.88	44	P	32	19.86	0.9				ec	33	24.63	
			e	34	45.40		ECB	85.95	34	eP	32	20.00	1.0				ePP	36	16.71	
AFR	74.50	255	iP	31	18.20	-0.6	REY	85.96	20	iP	32	21.90	3.1X				eS	43	36.78	
	1.6s	785.00nm				6.3mb				i	32	52.40					e	43	41.47	
PNT	74.88	330	eP	31	20.00	-0.4	OGE	85.98	44	P	32	20.18	0.8				esS	44	22.30	
	1.7s	967.00nm				6.3mb	JAU	86.01	44	P	32	20.04	0.3	FRF	91.01	46	eP	32	42.90	-0.3
NVL	75.74	160	iPd-	31	23.00	-2.0	ECP	86.09	34	eP	32	20.90	1.3	BNI	91.46	44	P	32	46.40	1.0
			ePcP	31	41.00		DCN	86.14	33	eP	32	20.60	0.7	RRL	91.50	44	P	32	46.47	0.7
			epP	31	50.00	105kmX	BTH	86.15	44	iPd	32	21.40	1.2	PZZ	91.60	45	P	32	47.09	1.0
			e	32	21.00		ETA	86.41	34	eP	32	22.50	1.3	LPL	91.64	44	eP	32	46.30	0.0
			e	32	32.00		EPF	86.49	44	eP	32	22.30	0.4	SBF	91.64	45	eP	32	45.80	-0.4
			e	32	48.00			1.3s	169.25nm				5.9mb	LPG	91.65	44	eP	32	46.50	0.0
			e	32	50.00		DMU	86.59	33	eP	32	22.60	0.5		1.3s	310.25nm				6.4mb
			e	32	54.00			1.0s	186.00nm				6.1mb	DOU	91.66	39	P	32	45.10	-0.9
			e	33	05.00		SALF	86.97	45	P	32	24.61	0.3		Z 19s	6.80um				6.1Msz
			e	33	29.00		SIT	87.03	331	eP	32	25.00	0.9				e	36	01.00	
			ePP	34	20.00			1.4s	276.10nm				6.1mb				iSKS	43	09.00	
			e	34	46.00		ESEL	87.15	48	eP	32	26.15	1.0				e	44	22.00	
			e	34	55.00		GRBF	87.24	45	P	32	26.16	0.6				SP	44	53.00	
			e	35	01.00		TRGS	87.42	45	P	32	27.07	0.5	STV	91.67	45	P	32	47.50	1.1
			e	35	47.00		LFF	87.45	43	eP	32	26.00	-0.4	DOI	91.69	45	P	32	47.50	1.1
			ePPP	36	04.00		LPF	87.46	39	eP	32	25.20	-1.2	ENR	91.74	45	P	32	47.19	0.5
			e	36	34.00			1.0s	92.00nm				5.8mb	UCC	91.74	38	P-	32	46.00	-0.3
			e	37	48.00		MFF	87.48	41	eP	32	26.00	-0.6				ipP	33	14.00	105kmX
			e	38	25.00			1.2s	163.65nm				5.9mb				SKS	43	14.00	
			eS	40	58.00		LSPF	87.53	45	P	32	28.06	1.2				e	43	45.00	
			eScS	41	30.00		LPO	87.65	43	eP	32	26.90	-0.5				sS	44	27.00	
TIO	76.14	53	iP	31	29.50	1.4	GRR	87.71	39	eP	32	26.70	-0.9	BHB	91.80	44	P	32	47.60	0.7
			i	31	55.00			0.9s	99.90nm				5.8mb	RSP	91.89	44	P	32	48.32	1.0
PGC	76.37	328	eP	31	30.00	1.2	VDCF	87.73	45	P	32	27.80	-0.1	VITF	91.95	41	P	32	46.17	-1.3
	1.3s	649.00nm				6.3mb	MTHF	87.96	45	P	32	29.94	0.9	IMI	91.97	45	P	32	48.11	0.4
FRB	76.67	2	eP	31	29.00	-1.1	ETER	87.97	46	eP	32	29.22	0.2	INK	92.03	341	eP	32	46.00	-1.4
			pP	32	00.00	122kmX	PERF	88.04	46	P	32	29.32	-0.1		0.4s	96.00nm				6.5mb
SPA	76.98	180	iPd	31	30.10	-2.1	FLN	88.09	39	eP	32	28.70	-0.7				pP	33	05.00	68kmX
	1.0s	260.00nm				6.0mb		1.2s	172.55nm				6.0mb	BALM	92.06	333	eP	32	45.00	-2.8
	Z 20s	12.61um				6.2Msz		Z 20s	15.00um				6.4Msz				SKS	43	54.00	
			i	34	59.30		RJF	88.09	43	eP	32	28.70	-0.8				S	44	36.50	
AVE	77.02	51	iP	31	33.50	0.7		Z 20s	12.50um				6.3Msz	ROB	92.06	45	P	32	47.19	-0.9
			i	32	02.50		AKU	88.19	20	iPc	32	32.30	2.7	HAU	92.12	41	eP	32	47.70	-0.5
IFR	78.85	52	iP	31	43.50	0.4		1.9s	631.58nm				6.3mb		1.6s	143.05nm				6.0mb
			i	31	46.50					i	33	03.20			Z 20s	17.50um				6.5Msz
			i	31	54.00					i	50	16.80		LOMF	92.23	42	P	32	47.52	-1.3
EVAL	79.35	47	eP	31	46.00	0.6				i	58	22.40		DIX	92.25	43	ePd	32	50.10	0.9
NKM	79.42	50	iP	31	46.50	0.6	LDF	88.24	39	eP	32	29.40	-0.8	FIN	92.27	45	P	32	48.32	-0.7
			i	31	47.00		CAF	88.32	43	eP	32	30.00	-0.7	BSF	92.35	41	P	32	48.27	-1.2
			i	31	49.00		LSF	88.43	42	eP	32	30.30	-0.9	PGF	92.38	47	eP	32	49.10	-0.6
EJIF	79.79	49	eP	31	49.29	1.4	TCF	88.89	42	eP	32	32.20	-1.2		1.6s	323.40nm				6.4mb
EZAM	80.05	43	eP	31	49.61	0.5	MAF	89.10	42	eP	32	33.40	-0.9	CKI	92.38	45	P	32	49.40	-0.1
EPRU	80.18	48	eP	31	50.74	0.8	ESK	89.15	32	eP	32	36.00	1.7	WLF	92.48	40	P	32	49.50	-0.3
STS	80.49	42	eP	31	50.91	-0.5		1.0s	100.00nm				5.9mb				e	33	18.00	
EHOR	80.53	48	eP	31	51.92	0.2	EKA	89.18	32	Pd	32	32.90	-1.5	ORX	92.51	44	P	32	50.16	-0.1
MAL	80.68	49	iPc	31	54.80	2.3		1.1s	67.20nm				5.7mb	MOF	92.58	41	P	32	49.13	-1.3
			iS	41	52.00		LBL	89.22	43	P	32	34.39	-0.6	PCP	92.60	45	P	32	51.19	0.6
EPLA	80.89	45	eP	31	53.66	0.1	PYM	89.23	43	P	32	34.18	-0.9	MMK	92.62	43	ePd	32	50.70	-0.2
ERUA	81.19	43	eP	31	55.28	0.2	EAU	89.24	32	eP	32	35.70	1.0	DBN	92.63	37	eP	32	53.00	2.6
EMEL	81.20	51	eP	31	55.71	0.4	ELO	89.37	31	eP	32	34.70	-0.7		Z 22s	11.00um				6.3Msz
EGUA	81.35	49	eP	31	57.22	1.2	EBH	89.38	31	eP	32	34.70	-0.7				epP	33	17.00	88kmX
AFC	81.53	49	eP	31	57.87	0.7		1.0s	182.00nm				6.2mb				ePP	36	08.00	
EBAN	81.72	48	eP	31	58.49	0.5	BGF	89.40	42	eP	32	34.80	-0.9				epPP	36	35.00	
YKA	82.28	342	eP	31	58.90	-1.4	EDI	89.41	32	eP	32	37.00	1.5				eS	43	55.00	
	0.9s	353.30nm				6.2mb	AGO	89.41	42	P	32	34.71	-1.1				esS	44	30.00	
ENIJ	82.40	49	eP	32	00.89	-0.7	ESY	89.70	32	eP	32	36.00	-0.9				eSP	45	00.00	
EHUE	82.45	48	eP	32	00.89	-0.9		1.0s	119.00nm				6.0mb				eSS	50	08.00	
GUD	82.47	45	eP	32	02.04	0.1	PLDF	89.71	43	P	32	36.54	-0.7				eSSS	59	15.00	
EVIA	82.83	48	eP	32	04.19	0.4	EDU	89.76	31	eP	32	36.60	-0.5	ENN	92.67	38	iPc	32	51.00	0.4
RAR	83.15	250	P	32	06.00	0.4	GRC	89.79	41	P	32	36.18	-1.3		1.2s	204.00nm				6.3mb
EALH	83.32	49	eP	32	08.00	1.8	AVF	89.80	42	eP	32	36.30	-1.2				epP	33	19.00	105kmX
SBA	83.47	191	iP	32	05.10	-1.2	HVD	89.89	121	iPc	32	37.20	-1.5	MEM	92.67	39	Pd	32	51.70	1.1
			iS	42	26.00			1.4s	1093.02nm				6.8mb				ec	33	19.50	
VAL	83.87	33	iP	32	09.10	0.5	FRS	89.97	120	iPc	32	35.90	-2.9	ECH	92.70	41	P	32	50.26	-0.6
			S	42	24.00			0.8s	201.49nm				6.3mb	BBS	92.71	42	P	32	50.94	-0.1
ETOR	84.00	46	eP	32	10.77	1.1	SSF	89.99	41	eP	32	37.40	-1.0	CDF	92.83	41	P	32	50.34	-1.2
ECHE	84.30	47	eP	32	11.58	0.4	SMF	90.07	42	eP	32	37.80	-1.0	KLL	92.87	39	ePc	32	50.90	-0.7
ACU	84.30	48	eP	32	11.08	-0.1	SSB	90.10	43	P	32	38.66	-0.4	FEL	93.15	42	P	32	50.21	-2.9

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GWF     93.21  41 P      32 53.23   0.0
MAW     93.22 164 eP     32 52.00  -1.0
        0.8s   185.00nm          6.5mb
TMA     93.24  44 ePd    32 53.00  -0.6
BOB     93.28  45 P      32 54.80   1.1
ZLA     93.29  42 ePd    32 54.60   0.9
SLE     93.43  42 ePd    32 55.00   0.7
MBC     93.46 350 ePc    32 53.60  -0.2
        1.0s   198.00nm          6.4mb
BNS     93.49  39 iPc    32 55.00   0.6
      Z  20s    11.50um          6.3Msz
LLS     93.52  43 ePd    32 55.80   0.8
WTS     93.56  37 iPc    32 55.20   0.5
        1.0s    65.00nm          6.0mb
                  epP    33 23.50 106kmX
SLR     93.58 117 ePc    32 52.28  -3.4X
        0.6s   166.67nm          6.6mb
      Z  18s    15.12um          6.5Msz
                  ipPc   33 21.25 109kmX
KOE     93.68  39 ePc    32 56.10   0.8
                  e      33 24.10
WIT     93.71  37 eP     32 58.00   2.6
                  epP    33 27.50 112kmX
MDI     93.72  44 P      32 55.40  -0.2
PII     93.76  46 P      32 56.30   0.5
MAO     93.89  47 P      32 57.30   0.8
BDI     93.90  46 P      32 56.50  -0.1
ERC     93.91  52 P      32 57.40   0.6
CVT     93.99  52 P      32 59.20   2.2
MME     94.00  46 P      32 57.80   0.5
TNS     94.06  39 ePc    32 58.00   0.8
TOA     94.15 333 eP     32 57.10  -0.3
SAL     94.23  44 P      32 59.00   1.1
OSS     94.24  43 ePd    32 58.30   0.1
USI     94.52  51 P      33 00.50   1.1
PGD     94.64  46 P      32 58.70  -1.4
SFI     94.74  46 P      33 00.20  -0.1
CRE     94.74  46 P      32 58.80  -1.7
RDP     94.86  48 P      33 03.20   2.1
RMP     94.86  48 P      33 03.20   2.2
OGA     94.87  43 eP     33 00.80  -0.4
MNS     94.98  48 P      33 01.80   0.3
GIB     95.01  52 P      33 01.80  -0.1
BFT     95.11 118 iPc    33 03.50   0.7
        1.2s   468.75nm          6.8mb
ASS     95.12  47 P      33 00.60  -1.6
RSM     95.16  46 P      33 02.80   0.5
BER     95.22  29 eP     33 05.00   2.9X
PMR     95.32 332 eP     33 02.50  -0.1
        1.0s   103.80nm          6.2mb
                  e      33 04.70
FUR     95.34  42 eP     33 02.90  -0.2
      Z  20s     4.00um          5.9Msz
                  eS     43 34.50
WTTA    95.37  43 iPd    33 02.50  -0.9
        1.1s   293.00nm          6.7mb
                  ic     33 03.90
                  i      33 0B.30
                  ipP    33 32.B0 115kmX
                  isP    33 47.60
BUL     95.42 112 iPc    33 02.50  -1.7
                  ipP    33 40.50 149kmX
                  iPP    36 54.00
SLKM    95.50 331 eP     33 02.20  -1.3
MNO     95.51  52 P      33 06.00   1.7
VVI     95.61  44 P      33 06.60   2.3
SDI     95.65  49 P      33 05.10   0.4
GRF     95.67  40 eP     33 05.40   0.9
        1.4s   130.00nm          6.2mb
      Z  22s     8.00um          6.1Msz
                  e      33 34.90
                  e      33 48.70
                  ePP    37 38.00
                  eSKS   43 42.00
COL     95.77 335 ePc    33 04.43  -0.2
                  e      33 08.90
                  esPc   33 43.33
FBA     95.77 335 eP     33 03.80  -0.B
        1.0s   355.00nm          6.8mb
FVI     95.98  44 P      33 05.50  -0.4
MOX     96.13  40 eP-    33 08.00   1.4
        2.1s   140.00nm          6.1mb
      Z  21s     9.90um          6.3Msz
      N  21s     3.40um
      E  22s     5.80um
BHG     96.29  43 iPc    33 08.10   0.7
        1.3s    89.00nm          6.1mb
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LSZ     96.33 107 iPd    33 09.10   0.7
                  i      33 27.80
                  i      37 03.00
TRI     96.46  45 iPc    33 08.70   0.6
                  ePP    37 10.00
                  e(SKS)43 40.00
                  esP    45 43.00
                  eSSP   51 48.00
SGO     96.52  50 P      33 08.70   0.2
SOI     96.59  53 P      33 09.40   0.5
WET     96.60  41 eP     33 08.50  -0.3
      Z  17s     5.00um          6.1MszX
MGR     96.62  50 P      33 09.20   0.2
VOY     96.62  44 iP     33 09.60   0.6
RSO     96.70 331 eP     33 07.20  -1.9
                  i      33 09.60
RIY     96.82  45 eP     33 09.80   0.1
CZI     96.88  51 P      33 08.20  -1.9
MMN     96.90  51 P      33 10.20   0.0
CEY     96.92  45 eP     33 10.80   0.5
KHC     97.05  41 iPc    33 11.40   0.6
        1.1s    36.50nm          5.8mb
      Z  22s     6.20um          6.0Msz
      N  22s     3.80um
      E  20s     4.20um
                  i      33 37.00
                  e      36 49.00
                  SKS    43 44.00
LJU     97.06  44 eP     33 10.00  -0.8
                  e      33 11.30
                  eS     43 41.00
KONO    97.09  30 ePc    33 11.92   1.3
                  e      33 15.40
CSI     97.10  51 P      33 11.00  -0.2
TDS     97.12  51 P      33 11.40   0.2
CLL     97.13  39 iPc    33 11.90   0.9
        1.7s   170.00nm          6.3mb
      Z  19s     8.00um          6.2Msz
                  ipP    33 40.50 108kmX
                  eSKS   43 43.00
                  eS     44 26.00
                  P'P'   58 03.00
KMR     97.19  42 eP     33 11.00  -0.4
                  i+     33 12.40
                  iPP    37 0B.00
KRI     97.24 109 eP     33 13.50   1.1
                  iPP    37 10.00
ROI     97.28  51 P      33 13.00   1.0
ORI     97.28  51 P      33 11.80  -0.2
VBY     97.45  45 eP     33 13.00   0.4
BRN     97.48  38 eP     33 15.00   2.5
BLW     97.49 225 eP     33 14.40   1.4
MTW     97.56 225 eP     33 14.40   1.1
BRG     97.63  40 iPc    33 13.80   0.5
        1.6s   150.00nm          6.3mb
      Z  18s     4.00um          5.9Msz
      N  18s     1.50um
      E  18s     3.00um
                  i      33 25.70
                  ipP    33 41.60 104kmX
                  i      33 58.20
                  epPP   37 44.00
                  iSKS   43 42.00
                  esS    45 07.00
                  eP'P'  58 05.00
MNG     97.80 225 eP     33 15.30   0.9
PRU     97.83  41 eP     33 13.80  -0.4
        1.2s    63.30nm          6.0mb
      Z  22s     7.50um          6.1Msz
      N  18s     2.80um
      E  20s     4.30um
                  e      33 18.90
                  e      33 43.50
                  PP     37 12.00
                  SKS    43 48.00
                  S      46 00.00
                  eSS    51 00.00
HVAR    97.85  48 iP     33 14.20  -0.3
BRT     97.99  50 P      33 16.30   1.1
PTJ     98.01  45 eP     33 14.60  -0.6
WEL     98.01 224 P      33 16.00   0.7
                  PP     37 20.00
                  S      44 28.00
                  SP     46 06.00
                  SS     51 20.00
ZAG     98.01  45 ePc    33 15.70   0.6
                  iS     43 48.00
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NB2     98.18  29 P      33 15.70   0.1
        1.1s    33.20nm          5.8mb
SVW     98.21 331 eP     33 15.20  -0.6
IMA     98.45 336 eP     33 17.10   0.2
        1.3s   112.90nm          6.3mb
VKA     98.67  43 iPd    33 13.80  -4.2X
      Z  20s     4.50um          6.0Msz
                  e      33 47.00
                  i      34 02.90
                  iPP    37 19.80
                  ipPP   37 57.80
                  i(SKS)43 50.00
                  i(S)   44 40.50
                  iSP    46 07.00
                  LR     17 07.00
LTZ     99.02 222 eP     33 19.90  -0.1
                  e      33 23.00
                  e      33 53.30
MTD     99.06 110 eP     33 20.50  -0.1
                  i      36 31.50
                  iPP    38 02.20
KSP     99.08  40 eP     33 20.10   0.2
        1.1s    79.00nm          6.2mb
                  ic     33 21.10
                  i      33 47.50
                  e      37 19.60
                  i      37 45.00
ZST     99.17  43 iP     33 20.70   0.4
                  i      37 02.80
HFS     99.21  30 ePKP   33 20.10  -0.1
        1.0s    16.60nm          5.6mb
HCY     99.22  49 iPc    33 21.45   0.8
BRY     99.32  48 iPc    33 20.82  -0.5
BDV     99.43  49 iPc    33 21.95   0.3
ULC     99.69  49 iPc    33 23.77   0.9
KEK     99.76  51 eP     33 23.00  -0.2
TTG     99.77  49 iPc    33 23.65   0.5
SRO     99.92  43 eP     33 23.70   0.0
PLE    100.00  48 ePdiff33 25.49   1.0
IVA    100.30  48 iPdiff33 26.32   0.5
CSY    100.80 181 ePdiff33 27.50   0.2
        0.7s    12.70nm          5.7mb
BEO    100.97  46 ePdiff33 30.00   1.4
UPP    101.12  31 iPdiff33 30.60   1.7
KRA    101.28  41 ePdiff33 30.90   1.1
        1.6s   104.00nm          6.2mb
      Z  20s     6.50um          6.1Msz
      E  20s     3.40um
                  e      33 34.40
                  e      37 40.00
                  eS     44 43.00
SKO    101.31  49 ePdiff33 30.00  -0.2
                  iPP    37 25.00
                  i      38 18.00
                  i      38 45.00
                  iSKS   44 03.00
                  iS     44 48.00
                  i      45 50.00
                  iPS    46 32.00
                  i      47 29.00
                  iSS    51 52.00
KZN    101.34  51 ePdiff33 31.00   0.5
SPC    101.37  42 ePdiff33 31.70   1.2
                  e      37 36.80
TIM    101.62  46 ePdiff33 35.00   3.6X
KBS    101.64  11 ePdiff33 36.00   5.2X
VLI    101.77  55 ePdiff33 32.50   0.1
VAY    102.07  50 iPdiff33 34.20   0.6
                  e      48 04.00
ATH    102.55  54 ePdiff33 38.00   2.2X
                  eS     44 10.00
ANM    103.10 334 ePdiff33 40.00   2.4X
                  PKKP   48 40.00
CMP    104.25  46 ePdiff33 48.00   4.8X
MLR    104.90  46 ePdiff37 47.00 240.7X
                  e      44 25.00
CFR    106.44  46 ePKP   38 00.00  -3.6X
ITU    106.89  51 ePdiff34 00.00   5.0X
NAI    108.18  96 ePdiff34 04.00   2.3X
      Z  16s     4.04um          6.1MszX
                  epP    34 30.00
                  pPPP   38 56.00
                  sPS    44 44.00
                  SS     48 10.00
ADK    109.15 321 e(Pdif34 05.40   0.6
                  PKKP   49 24.90
PAF    109.53 155 ePdiff34 20.00  13.5X
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06d 12h

			ePP	39	04.00	
			eS	48	12.00	
			eSS	54	32.00	
CSS	110.04	57	ePKP	38	12.00	1.2
HOL	111.21	64	ePKPd	38	15.00	1.8
PRNI	111.23	62	ePKP	38	13.90	0.7
ADI	111.54	59	ePKP	38	16.20	2.5X
DSI	111.62	61	ePKP	38	15.20	1.3
DZM	112.72	239	iPKPc	38	18.40	2.0X
ABHA	117.42	76	ePKPd	38	26.00	0.3
BISH	117.43	74	ePKPd	38	25.00	-0.4
MSL	118.00	56	ePKPd	38	26.00	0.0
			ePP	40	10.00	
			ePPP	42	52.00	
			eSKS	45	13.00	
CAN	118.03	218	ePKP	38	25.80	-0.3
			e	40	20.50	
TOO	118.42	214	ePKP	38	28.00	1.2
			i	39	09.20	
			i	39	44.20	
BWA	118.99	218	ePKP	38	27.00	-1.0
BHD	119.22	59	ePKPd	38	29.00	0.6
			ePP	40	20.00	
			ePPP	45	19.00	
KMSA	119.24	74	ePKPd	38	29.00	0.1
COO	119.31	223	ePKP	38	30.00	1.3
SLY	119.97	56	ePKPd	38	30.50	0.8
BFD	120.26	212	e(PKP)	38	28.00	-2.2X
	0.9s	70.00nm				
			e	39	50.70	
TAB	120.36	53	e(PKP)	38	24.00	-6.6X
			e	38	31.00	
KER	121.40	58	iPKPd	38	36.80	4.1X
CMS	122.59	219	e(PKP)	38	32.00	-2.8X
			i	38	35.60	
RMQ	124.03	225	iPKPc	38	36.70	-1.1
			i	38	39.80	
			e	51	29.00	
IR7	124.09	56	ePKP	38	38.00	0.1
IR5	124.13	56	ePKP	38	37.00	-1.0
IR1	124.19	56	ePKP	38	37.50	-0.6
IR4	124.39	56	ePKP	38	38.50	0.0
STK	124.78	215	iPKPc	38	36.60	-2.5X
	0.8s	29.00nm				
			e	40	11.20	
			e	40	47.70	
QLP	126.99	222	iPKPc	38	42.50	-1.0
			i	38	46.00	
YAK	128.69	347	ePKP	38	34.00	-11.6X
			i	38	45.00	
			i	39	14.00	
			i	41	21.00	
			i	42	47.00	
			i	44	05.00	
			i	46	08.00	
			i	47	45.00	
			i	48	04.00	
			e	51	38.00	
			i	51	54.00	
MAIO	131.01	53	iPKPc	38	52.00	1.0
	1.2s	128.47nm				
			i	41	14.00	
			i	42	12.00	
RKG	131.79	190	iPKPd	38	50.90	-1.5
	0.5s	69.00nm				
RAB	132.72	252	e(PKP)	38	52.00	-2.8X
NWAO	133.35	191	ePKP	38	41.00	-14.5X
			e	38	57.00	
QIS	134.21	224	ePKP	38	42.00	-15.4X
			i	38	56.40	
KLB	134.54	192	ePKP	38	43.50	-14.3X
			e	39	00.00	
YSS	135.32	326	PKP	39	00.00	1.3
BAL	135.70	191	ePKP	38	45.00	-15.0X
	0.9s	212.00nm				
			e	39	02.00	
KUSJ	136.40	320	ePKP	38	50.50	-10.4X
WARB	136.86	205	ePKP	38	46.00	-16.4X
ASAJ	137.08	323	ePKP	38	56.80	-5.4X
MRWA	137.19	191	ePKP	38	50.50	-12.4X
HOOJ	137.66	320	ePKP	38	55.10	-8.2X
WB2	138.04	219	ePKP	38	50.40	-14.3X
			e	39	04.80	
			e	42	41.40	
WRA	138.04	219	PKP	38	51.00	-13.7X
	1.0s	19.20nm				
WRA	138.04	219	PKP	39	08.00	3.3X

	1.1s	266.10nm				
QUE	138.65	59	ePKP	39	06.20	0.4
	1.3s	144.23nm				
			ePP	41	57.00	
			ePKS	42	40.00	
OFUJ	140.46	317	ePKP	38	58.80	-9.7X
IRK	140.84	3	ePKP+	39	04.00	-4.8X
KSH	141.58	41	PKP	39	08.00	-2.7X
	E 16s	5.00um				
			eSKS	46	15.00	
YAMJ	142.03	317	ePKP	39	05.40	-6.0X
HIA	142.63	347	ePKPd	39	07.98	-4.1X
			ePP	42	19.65	
			e	42	44.21	
KAKJ	142.95	314	ePKP	39	07.80	-5.1X
NIIJ	143.22	316	ePKP	39	08.80	-4.6X
MDJ	143.50	334	ePKPd	39	10.43	-3.2X
	N 24s	6.36um				
	E 24s	4.03um				
			ed	39	14.23	
			sPKP	39	46.00	
			e	42	59.79	
NANU	143.75	192	ePKP	39	11.00	-3.7X
CHJJ	143.85	315	ePKP	39	11.20	-3.3X
GUA	143.92	275	ePKP	39	10.80	-4.4X
	1.2s	1862.50nm				
GUMO	143.97	275	ePKP	39	10.50	-4.7X
	1.2s	2888.89nm				
			e	39	16.80	
			e	39	44.90	
PJG	143.97	275	ePKP	39	10.80	-4.4X
MAT	144.13	316	ePKP	39	11.00	-4.0X
	Z 20s	6.38um				6.4Msz
MTMJ	144.38	316	PKP	39	11.80	-3.7X
KNA	144.62	216	ePKP	39	12.00	-4.3X
WMO	144.85	26	ePKP	39	16.02	-0.1
	Z 41s	21.00um				6.6MszX
			e	39	20.82	
			epPKP	39	44.98	
			SKKS	49	24.00	
IIDJ	144.90	315	ePKP	39	14.00	-2.4X
MTN	145.37	223	iPKPc	39	14.80	-2.8X
	0.6s	577.00nm				
CN2	145.87	337	PKP	39	17.00	-0.7
	Z 22s	24.00um				6.9Msz
	N 20s	4.00um				
	E 20s	1.00um				
			pPKP	39	39.00	
			sPKP	39	48.00	
			ePP	42	39.00	
TSRJ	146.19	316	ePKP	39	18.70	0.2
POO	146.92	76	iPKPd	39	22.30	2.2X
	1.0s	365.00nm				
WKYJ	147.18	315	PKP	39	21.70	1.5
NDI	147.61	57	iPKPd	39	20.50	-0.5
	1.4s	1744.19nm				
			ePP	42	52.00	
YONJ	148.07	318	ePKP	39	21.90	0.4
SNY	148.26	337	iPKPd	39	22.20	0.6
	Z 30s	19.00um				6.7MszX
	N 27s	11.60um				
	E 20s	5.00um				
TKSJ	148.38	316	ePKP	39	23.20	1.2
SHK	148.98	318	ePKPd	39	24.00	1.0
KOD	150.15	92	ePKP	39	26.00	0.3
SHNJ	150.25	319	ePKP	39	25.40	0.6
SHNJ	150.25	319	ePKP	39	29.20	4.4X
GBA	150.45	86	PKPd	39	24.30	-1.3
	1.2s	208.00nm				
KUMJ	151.41	316	PKP	39	26.90	0.2
HYB	151.47	78	iPKPd	39	28.20	1.0
	1.0s	1210.00nm				
			i	39	59.20	
			iPP	43	13.20	
			iSKKS	50	00.20	
DL2	151.54	337	iPKPd	39	27.00	0.4
	Z 38s	8.40um				6.3MszX
	N 14s	3.00um				
	E 14s	3.00um				
			SS	02	31.00	
KAGJ	152.16	314	ePKP	39	27.60	-0.2
HHC	152.17	354	ePKP	39	29.00	1.3
	Z 24s	11.20um				6.6MszX
	N 19s	2.50um				
	E 17s	2.20um				
			PKPab	39	47.00	
			PP	43	19.00	

			SKKS	50	02.00	
BJI	152.18	346	ePKP	39	27.76	0.2
			ed	39	32.56	
			ed	39	38.52	
BTO	152.55	356	PKP	39	29.00	0.8
	N 19s	3.60um				
	E 19s	3.00um				
			PP	43	19.00	
			eSKKS	50	04.00	
GTA	152.86	14	PKPd	39	28.40	-0.3
	Z 20s	16.30um				6.8Msz
	N 28s	12.00um				
			SKKS	50	00.00	
AAI	153.77	232	ePKP	39	31.50	1.0
GKN	153.79	52	PKP	39	31.12	0.7
	1.2s	2469.00nm				
DMN	154.35	52	PKP	39	31.20	-0.1
	1.0s	470.00nm				
KKN	154.39	52	PKP	39	31.66	0.4
	1.0s	439.00nm				
PKI	154.60	52	PKP	39	31.36	-0.3
	1.3s	449.00nm				
GUN	154.79	51	PKP	39	32.90	0.9
	1.0s	886.00nm				
TIY	155.15	351	iPKPd	39	30.00	-1.8
	Z 25s	5.56um				6.3MszX
	N 25s	8.90um				
			PKPab	40	02.00	
			PP	43	35.00	
			SS	03	11.00	
TIA	155.52	342	PKPd	39	33.50	1.2
	Z 25s	8.90um				6.5MszX
			PKPab	40	03.00	
			PP	43	34.00	
LZH	156.84	8	ePKPd	39	36.35	2.1X
	Z 50s	21.00um				6.6MszX
	E 22s	4.30um				
			ed	39	39.99	
			ic	40	05.49	
			ed	40	23.86	
			pP	40	35.00	
			PKS	43	08.00	
			PP	43	48.00	
			i	44	23.20	
LZH	156.84	8	PKPc	39	32.00	-2.3X
	Z 50s	21.00um				6.6MszX
	E 22s	4.30um				
			PKPab	40	05.00	
			pP'ab	40	35.00	
			PKS	43	08.00	
			PP	43	48.00	
			pPP	44	25.00	
			SKKS	50	20.00	
LSA	157.39	40	iPKP	39	38.20	2.7X
	N 21s	4.30um				
SSE	158.27	328	PKPd	39	37.00	1.2
	Z 20s	6.00um				6.4Msz
	N 19s	2.40um				
	E 20s	2.90um				
			PKPab	40	12.00	
			PP	43	54.00	
			SS	03	43.00	
NJ2	158.60	334	PKPc	39	38.00	1.8
	Z 40s	8.90um				6.3MszX
			PKPab	40	13.00	
			PP	43	53.00	
TRT	158.78	193	ePKPc	39	38.80	2.0
	1.6s	803.80nm				
XAN	159.14	357	PKP	39	37.50	0.7
			PKPab	40	19.60	
			PP	43	54.00	
			eSKKS	50	34.00	
DAV	161.53	253	ePKP	39	41.00	1.3
WHN	161.63	342	PKPd	39	41.00	1.6
	2.0s	400.00nm				
	Z 28s	5.90um				
	N 20s	2.60um				
	E 20s	3.30um				
			PKPab	40	27.00	
			PP	44	07.50	
CD2	161.89	11	PKP	39	41.40	1.7
	Z 39s	11.30um				
			PP	44	07.00	
			SKKS	50	52.00	
QZH	164.44	321	PKPd	39	44.00	1.7
	Z 40s	16.10um				
			PP	44	20.00	

```
PSI    166.42 139 ePKP  39 53.00    8.8X
        1.3s   176.20nm
GYA    166.67   4 PKP   39 45.00    0.7
      Z  38s     8.10um
      N  20s     5.60um
      E  20s     4.50um
                  PKPab 40 51.60
                  PP    44 35.00
                  SKKS  51 11.00
                  SS    05 10.00
TSM    166.76 229 ePKPc 39 42.00   -2.5X
KMI    167.13  21 ePKP  39 45.70    0.9
                  e     39 49.68
                  ipP'df40 14.84
                  pPKP  40 52.00
                  ePP   44 38.68
                  PP    44 39.00
                  SKKS  51 20.00
                  eSS   05 20.00
BAG    167.22 286 ePKPd-39 45.50    0.5
                  e     44 18.00
KGM    168.12 158 ePKPc 39 47.00    1.5
        1.4s   423.50nm
                  e     40 54.10
GZH    168.77 333 PKP   39 47.00    1.4
      Z  56s    23.20um
      N  20s     8.80um
      E  18s     9.30um
                  PP    44 46.00
HKC    169.03 327 ePKP  39 49.10    3.4X
IPM    169.20 141 ePKPd 39 46.50    0.4
        1.1s   367.50nm
                  e     44 46.00
CHTO   169.76  55 ePKP  39 45.20   -1.1
        1.4s   245.67nm
KHT    170.89  78 iPKPc 39 47.50    0.6
QIZ    173.80 342 PKP   39 50.00    1.9X
      N  22s     8.40um
      E  19s     4.40um
                  PP    45 09.00
                  SKKS  51 45.00
                  SS    06 14.00
      S.D. = 1.2  on 449 of 536 obs.
-----------------------------------
*  JUL  06, 1991  13h 13m 45.00± 1.72s
   24.645 N ±25.6km  124.023 E ±11.7km
   DEPTH =  25.7 ±  8.9 km
   4.5mb (  2 obs.)
 SOUTHWESTERN RYUKYU ISLANDS      (246)

TWC      1.98 269 iPc   14 18.00    0.6
                  eS    14 35.00
TWZ      2.26 282 iPc   14 21.50    0.0
                  eS    14 41.50
TWD      2.28 256 iPc   14 21.80    0.1
TWF1     2.81 243 iPc   14 29.60    0.4
TWQ      2.93 263 iPc   14 30.10   -0.8
                  eS    14 55.70
TWK      3.51 248 ePc   14 39.00   -0.3
WRA     45.44 166 P     22 04.00    0.3
        0.5s     3.70nm          4.6mb
WB2     45.45 166 eP    22 03.30   -0.5
ASPA    48.97 168 eP    22 31.60    0.2
        1.0s     4.60nm          4.5mb
      S.D. = 0.6  on   9 of   9 obs.
-----------------------------------
   JUL  06, 1991  13h 34m 54.16± 0.57s
   35.378 N ± 5.3km    3.579 W ± 4.7km
   DEPTH =   9.8 ±  3.1 km
   3.8mb (  4 obs.)
 STRAIT OF GIBRALTAR              (385)
      MD 4.5 (RBA). mbLg 3.7 (MDD).

EMEL     0.51  99 iPgd  35 05.26    0.7
                  eSg   35 12.80
EGUA     1.45   0 iPnc  35 20.02   -0.5
                  eSn   35 38.60
NKM      1.50 273 ePg   35 21.00   -0.1
                  i     35 22.00
                  i     35 25.00
                  eSg   35 36.00
                  i     35 40.00
                  i     35 43.00
MAL      1.51 334 iPnd  35 20.80   -0.4
                  iSg   35 39.00
EJIF     1.87 305 ePn   35 26.35   -0.2
                  eSn   35 51.00
AFC      1.87   1 ePn   35 27.46    0.8
                  eSn   35 52.60
ENIJ     1.94  35 iPnc  35 26.43   -1.1
                  eSn   35 51.30
EPRU     2.07 320 ePn   35 31.35    1.9
IFR      2.25 215 iPn   35 32.50    0.2
                  i     35 37.00
                  iSn   35 57.00
                  i     36 05.00
EHUE     2.56  18 iP    35 36.90    0.5
                  eS    36 08.80
EHOR     2.79 332 iPnc  35 40.55    0.9
                  eSn   36 14.70
EBAN     2.79 357 ePn   35 39.81    0.2
                  eSn   36 14.00
EALH     3.02  34 iPnc  35 43.18    0.2
                  eSn   36 18.10
EVIA     3.37  15 ePn   35 47.94    0.0
                  eSn   36 26.40
EVAL     3.37 312 iPnd  35 47.83   -0.1
                  eSn   36 27.30
AVE      3.79 238 ePn   35 53.00   -0.9
                  i     35 55.00
                  i     36 06.00
                  eSn   36 33.00
                  i     36 38.00
                  i     36 42.00
                  i     36 49.00
ACU      4.03  38 ePn   35 56.54   -0.7
ECHE     4.69  26 ePn   36 06.58   -0.1
                  eSn   36 58.30
EPLA     5.08 338 ePn   36 11.92   -0.3
                  eSn   37 09.00
GUD      5.28 355 iPnd  36 14.85   -0.2
                  eSn   37 14.10
TIO      5.41 216 iPn   36 16.40   -0.6
                  i     36 16.50
                  iSn   37 17.00
                  i     37 27.50
ETOR     5.56  12 iPnc  36 19.19    0.1
                  eSn   37 20.90
EROO     6.28  29 ePn   36 28.72   -0.4
                  eSn   37 37.10
EBR      6.31  29 iP    36 30.00    0.5
ESEL     6.75  48 ePn   36 34.13   -1.6
                  eSn   37 47.60
ECRI     7.27   6 ePn   36 42.29   -0.7
                  eSn   38 01.90
ERUA     7.53 339 ePn   36 46.27   -0.4
                  eSn   38 08.80
EZAM     7.85 331 ePn   36 50.23   -0.9
STS      8.43 334 ePn   36 58.09   -1.1
ETER     8.54  34 ePn   37 00.61   -0.1
DOU     15.87  20 P     38 38.50   -0.6
        0.4s     5.00nm          4.0mb
WTTA    16.45  39 e(P)  38 44.00   -2.6
        1.0s     4.50nm          3.6mb
                  e     38 57.00
KHC     18.65  37 eP    39 14.00    0.0
                  e     39 18.00
CLL     19.90  32 e(P)  39 31.00    2.5
HFS     27.18  19 eP    40 41.70    2.2
        0.5s     1.00nm          3.8mb
NB2     27.37  16 P     40 44.00    2.8
        0.7s     1.30nm          3.8mb
      S.D. = 1.1  on  36 of  36 obs.
-----------------------------------
&  JUL  06, 1991  13h 49m 59.46s
   46.937 N          120.339 W
   DEPTH =   4.1km
 WASHINGTON                       ( 29)
      <SEA>. MD 3.4 (SEA).

EBG      0.16 260 Pd    50 03.08    0.3
VTG      0.24  85 P     50 04.49    0.1
TBM      0.29 323 Pc    50 06.47    1.1
                  S     50 12.05
BVW      0.34 112 Pc    50 07.04    0.8
MXC      0.36 175 Pd    50 06.97    0.3
NAC      0.39 239 Pd    50 08.48    1.2
TWW      0.41 299 P     50 08.81    1.0
YAKW     0.44 198 P     50 09.22    1.0
BRVW     0.51 152 Pd    50 10.44    0.7
MDW      0.51 129 Pc    50 10.33    0.6
WAH2     0.56 108 Pc    50 11.03    0.3
RC1      0.62  89 Pc    50 11.95    0.1
                  S     50 20.39
EPH      0.66  50 Pc    50 12.28   -0.3
LOCW     0.66 109 Pc    50 13.00    0.3
CRF      0.66  99 Pc    50 12.77    0.1
ETW      0.67   0 Pc    50 12.53   -0.3
GBL      0.69 119 Pc    50 13.65    0.3
                  S     50 24.63
RSW      0.75 136 P     50 14.63    0.1
MJ2      0.77 119 Pc    50 15.00    0.1
OT2      0.79 105 P     50 15.10   -0.1
WTV      0.81  19 P     50 14.99   -0.6
WRD      0.82  87 Pc    50 15.39   -0.4
PRW      0.85 148 P     50 16.33   -0.1
WPW      0.86 254 P     50 16.08   -0.6
WIW      0.88 125 P     50 16.86   -0.1
CBSW     0.89  13 P     50 16.46   -0.7
FMW      0.91 270 Pd    50 17.03   -0.6
GLK      0.95 247 P     50 17.79   -0.4
SAW      1.00  39 Pc    50 18.25   -0.7
LON      1.03 260 P     50 18.91   -0.6
                  S     50 33.51
ET3      1.03 110 P     50 19.18   -0.3
GSM      1.03 286 Pc    50 19.29   -0.3
GL2      1.03 199 P     50 19.38   -0.2
DHW2     1.12  20 Pc    50 20.56   -0.4
RMW      1.13 298 P     50 20.87   -0.3
PATW     1.13 159 P     50 21.35    0.2
NLW      1.14   0 P     50 20.88   -0.6
ASR      1.17 228 P     50 22.18    0.2
OD2      1.20  67 ePc   50 21.48   -0.9
HTW      1.30 312 P     50 23.27   -0.9
GHW      1.33 275 P     50 24.85    0.3
GULW     1.33 221 P     50 24.95    0.2
KOSW     1.36 250 P     50 24.82   -0.4
LMW      1.37 259 P     50 25.28   -0.1
WG3      1.37 131 P     50 24.28   -1.0
TDL      1.42 246 P     50 25.97   -0.2
SOSW     1.42 241 Pd    50 26.69    0.4
CDFW     1.44 236 P     50 26.46    0.1
SPW      1.44 296 P     50 26.99    0.7
ESD      1.45 240 P     50 27.13    0.5
VGB      1.45 192 Pd    50 26.16   -0.4
BLH      1.46 309 P     50 26.79    0.2
REMW     1.47 241 P     50 27.74    0.8
STD      1.48 242 P     50 27.11    0.2
JLK      1.48 238 P     50 27.12    0.1
HSR      1.48 240 P     50 27.85    0.7
JBO      1.52 167 Pd    50 27.27   -0.2
ERK      1.52 246 P     50 27.62    0.1
APM      1.52 218 P     50 27.84    0.3
FL2      1.57 243 P     50 28.89    0.6
                  S     50 53.19
MTMW     1.58 236 P     50 28.69    0.3
JCW      1.66 320 P     50 29.48    0.1
LVP      1.67 239 P     50 29.97    0.2
RPW      1.71 333 P     50 30.50    0.3
DPW      1.73  56 P     50 29.23   -1.2
                  S     50 55.77
VLL      1.74 213 P     50 31.20    0.4
VTHM     1.76 185 Pc    50 30.34   -0.7
PGW      1.77 301 P     50 32.28    1.2
                  S     51 01.38
GMW      1.78 291 P     50 31.47    0.3
LNOR     1.78 126 P     50 31.53    0.3
                  S     50 56.88
VFP      1.80 206 P     50 32.14    0.5
                  S     50 59.82
CPW      1.92 272 P     50 34.79    1.6
                  S     51 02.99
CROR     2.01 193 P     50 34.34   -0.2
                  S     51 49.89
BMW      2.04 258 P     50 36.73    1.7
                  S     51 04.08
VBEM     2.07 205 P     50 36.67    1.1
                  S     51 03.30
BLN      2.08 302 P     50 36.49    0.9
                  S     51 07.48
SMW      2.09 282 P     50 37.05    1.4
                  S     51 06.05
MBW      2.13 331 P     50 38.07    1.7
                  S     51 07.28
NLO      2.31 250 P     50 40.72    1.8
PNT      2.43  11 P     50 40.00   -0.6
        0.4s    39.60nm
VIPM     2.44 185 P     50 41.47    0.6
OSD      2.45 292 P     50 43.14    2.1
        82 obs. associated
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06d 15h

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   JUL  06, 1991  15h 08m 25.38± 0.21s
    2.534 N ± 3.6km  126.623 E ± 5.2km
   DEPTH =  95.6km  (  2 depth phases)
   5.5mb ( 49 obs.)
 MOLUCCA PASSAGE                    (266)

MNI      2.09 239 iPd    08 58.30  -1.2
                  eS     09 28.00
DAV      4.64 347 eP     09 30.00  -4.5X
AAI      6.38 166 eP     09 58.10  -0.4
TSM      8.91 282 ePd    10 30.40  -2.7
       1.0s   595.00nm          6.4mb
KKM     10.95 289 ePc    11 01.20   0.5
       1.0s   167.60nm          5.8mb
BAG     15.02 337 eP     11 51.00  -3.0
MTN     15.92 164 eP     12 04.00  -1.2
       0.4s    71.00nm          5.2mb
TRT     17.27 234 ePd    12 24.10   2.1
KNA     18.29 173 eP     12 32.00  -2.5
       0.9s   648.00nm          5.9mb
MNDI    19.07 117 eP     12 43.00  -0.4
GUMO    21.12  58 eP     13 00.60  -3.6X
       0.9s   231.88nm          5.5mb
                  e      13 12.30  48kmX
PJG     21.12  58 eP     13 00.60  -3.6X
GUA     21.13  58 eP     13 00.60  -3.7X
       0.9s   168.07nm          5.4mb
HKC     23.07 329 eP     13 23.20  -0.2
OIZ     23.20 316 P      13 24.00  -0.7
     N  13s     1.10um
KGM     23.29 269 ePc    13 28.40   2.8
QZH     23.59 342 eP     13 27.50  -0.8
WB2     23.59 162 iPd    13 27.40  -1.1
                  e      17 38.70
PMG     23.65 120 e(P)   13 22.00  -7.0X
GZH     24.15 329 P      13 31.80  -2.0
       1.2s   400.00nm          5.7mb
                  S      17 50.00
IPM     25.63 275 ePc    13 48.10   0.3
       1.1s    58.50nm          5.0mb
OIS     26.24 152 iPd    13 52.20  -1.2
       0.2s    19.00nm          5.3mb
ASPA    26.99 165 iPc    13 58.80  -1.4
       0.9s    34.30nm          4.9mb
     Z  22s     0.90um          4.3MszX
                  i      16 08.40
                  iS     18 37.50
NANU    27.19 203 eP     14 02.00   0.0
PSI     27.67 271 ePc    14 14.80   8.3X
WARB    28.55 180 eP     14 15.10   0.9
SSE     28.87 350 Pc     14 17.00   0.0
       1.5s    79.00nm          5.1mb
     Z  20s     0.90um          4.4Msz
     E  16s     0.50um
                  S      19 02.00
WHN     30.18 339 eP     14 28.00  -0.7
       1.0s    30.00nm          5.0mb
KHT     30.21 295 eP     14 29.00  -0.2
NJ2     30.26 347 Pd     14 28.00  -1.4
       1.0s    80.00nm          5.4mb
     Z  26s     1.00um          4.3MszX
                  sP     14 41.50
CHTO    31.56 303 iPc    14 40.20  -0.8
       1.2s   157.29nm          5.6mb
                  PcP    17 33.80
KMI     32.15 316 eP     14 46.00  -0.4
       2.0s   270.00nm          5.7mb
MRWA    33.17 197 eP     14 55.00   0.1
OLP     33.58 151 eP     14 57.00  -1.4
COOL    33.64 189 eP     14 58.00  -0.9
TSRJ    33.97  14 P      15 00.90  -0.8
BAL     34.29 195 eP     15 05.00   0.5
IIDJ    34.41  16 P      15 06.40   0.8
TIA     34.64 346 eP     15 05.80  -1.7
                  PcP    17 42.70
KLB     34.97 193 eP     15 11.00   0.7
       0.3s     5.00nm          4.9mb
CHJJ    35.26  18 P      15 10.50  -2.2
MTMJ    35.42  16 P      15 13.30  -0.9
XAN     35.43 334 iPc    15 12.50  -1.8
       1.0s    60.00nm          5.5mb
MAT     35.49  16 eP     15 13.00  -1.7
       1.0s    23.00nm          5.1mb
                  eS     20 42.00
CD2     35.55 325 P      15 13.10  -2.2
       1.2s   200.00nm          5.9mb
MUN     35.72 195 eP     15 17.00   0.4
RMO     35.91 145 eP     15 17.00  -1.4
                  e      17 48.00
NIIJ    36.37  17 P      15 20.50  -1.5
NWAO    36.37 193 eP     15 22.50   0.4
DL2     36.49 353 P      15 23.00   0.0
       1.5s   400.00nm          6.1mb
STK     37.06 159 iPc    15 27.20  -0.7
       0.9s    29.50nm          5.2mb
                  e      16 52.00 445kmX
                  e      17 48.00
                  e      18 12.50
                  e      20 09.40
                  e      21 12.50
TIY     37.36 341 eP     15 29.00  -1.4
     Z  31s     2.40um          4.8MszX
     N  14s     0.43um
                  S      21 09.00
YAMJ    37.54  17 P      15 31.70  -0.2
CMS     38.45 153 eP     15 38.00  -1.6
BJI     38.52 347 eP     15 39.00  -1.0
       1.2s   200.00nm          5.9mb
                  ePcP   17 50.00
                  eS     21 34.00
OFUJ    38.88  19 P      15 42.90  -0.1
ADE     38.99 164 eP     15 45.00   0.9
       0.8s   141.79nm          5.9mb
BRS     38.99 141 iPc    15 43.00  -1.2
SNY     39.21 356 Pd     15 45.80   0.0
       1.2s   200.00nm          5.8mb
     Z  24s     1.00um          4.6MszX
                  S      21 44.00
LZH     39.48 330 Pd     15 47.50  -0.8
       2.0s   320.00nm          5.8mb
     Z  25s     1.86um          4.8MszX
     N  15s     0.62um
                  PP     17 22.00
                  eS     21 42.00
HHC     40.50 342 eP     15 55.20  -1.3
       1.2s    60.00nm          5.3mb
BTO     40.76 341 eP     15 57.50  -1.2
     N  15s     0.30um
     E  15s     0.40um
COO     40.81 146 eP     15 57.00  -2.1
CN2     41.10 359 eP     16 01.00  -0.3
       1.0s    80.00nm          5.5mb
MRRJ    41.77  16 eP     16 05.90  -0.8
MDJ     41.99   3 Pc     16 09.40   0.9
       1.2s   160.00nm          5.7mb
                  S      22 23.00
BWA     42.09 153 eP     16 10.90   1.3
BFD     42.19 161 eP     16 07.00  -3.3X
HOOJ    42.39  18 eP     16 12.60   0.8
CAN     43.10 153 eP     16 17.90   0.1
LSA     43.15 312 Pd     16 19.00   0.2
                  eS     22 41.00
CNB     43.26 153 iPc    16 19.70   0.6
KUSJ    43.49  19 P      16 20.90   0.2
TOO     43.57 158 e(P)   16 23.00   1.4
                  e      18 04.00 561kmX
ASAJ    43.77  17 P      16 23.50   0.4
GTA     44.07 330 Pd     16 24.40  -1.3
       1.2s    40.00nm          5.1mb
     Z  24s     1.50um          4.8MszX
     N  20s     0.90um
                  pP     16 32.60  27kmX
                  sP     16 39.00
                  PcP    18 11.60
                  ScP    22 01.00
                  S      22 51.00
                  ScS    26 21.20
DZM     45.95 124 iPc    16 40.10  -0.7
GUN     46.35 307 P      16 43.40  -0.8
       0.8s   245.00nm          6.1mb
PKI     46.58 306 P      16 44.58  -1.5
KKN     46.77 307 P      16 46.40  -1.1
       1.2s   427.00nm          6.2mb
DMN     46.84 306 P      16 46.80  -1.2
       1.2s   368.00nm          6.1mb
GKN     47.38 307 P      16 50.88  -1.3
       1.2s   392.00nm          6.1mb
KOD     49.39 281 eP     17 07.80  -0.3
HYB     49.43 291 iPc    17 07.80  -0.1
       1.0s   230.00nm          6.1mb
GBA     49.82 286 Pd     17 10.70  -0.2
       1.1s    85.10nm          5.7mb
IRK     52.94 343 ePc    17 33.90   0.0
                  e      17 58.10 100km
WMO     53.64 326 P      17 38.50  -0.7
       1.0s    50.00nm          5.5mb
     Z  26s     0.70um          4.6MszX
                  PcP    18 47.50
                  PP     19 37.00
                  ScP    22 41.50
                  S      25 11.50
                  ScS    27 24.00
NDI     53.69 304 iP     17 37.50  -2.2
POO     54.03 291 iPc    17 42.80   0.3
KSH     58.78 316 eP     18 16.00  -0.1
YAK     59.38   2 iPc    18 19.00  -0.6
                  epP    18 42.00  92km
                  ePcP   19 05.00
                  ePP    20 35.00
                  eS     26 23.00
                  eScS   28 04.00
THZ     60.83 142 P      18 28.60  -1.4
KHZ     61.59 142 P      18 33.00  -2.0
OUE     62.69 303 eP     18 43.00   0.2
       1.1s    66.46nm          5.5mb
ADK     68.01  34 e(P)   19 16.00  -0.3
CSY     69.63 187 eP     19 16.70  -9.3X
       0.4s     5.30nm          4.7mb
MAIO    70.15 308 eP     19 30.00   0.1
       0.8s    18.85nm          5.0mb
DHR     76.77 296 eP     20 08.00  -0.4
SDN     78.23  34 eP     20 16.40   0.5
ANM     78.39  24 eP     20 18.60   1.9
TAB     80.80 308 eP     20 32.00   1.7
KMSA    81.75 290 eP     20 35.00  -0.4
SVW     81.88  29 P      20 37.70   2.4
       1.0s    38.00nm          5.2mb
TTA     82.01  27 eP     20 38.40   2.4
BHD     82.12 303 eP     20 38.00   0.9
                  eS     30 55.00
MAW     82.60 200 eP     20 43.00   4.2X
       1.0s    23.00nm          5.0mb
KDC     83.00  32 eP     20 43.00   2.0
RSO     83.18  29 P      20 42.00  -0.2
MSL     83.25 306 ePc    20 43.00   0.2
                  eS     31 03.00
IMA     83.51  24 eP     20 46.40   2.6
       0.7s    24.70nm          5.3mb
BISH    83.53 290 ePd    20 46.00   1.4
SLKM    84.43  30 P      20 49.00   0.7
PMR     85.04  29 eP     20 52.70   1.4
       1.1s    48.30nm          5.4mb
FBA     85.84  25 P      20 57.00   1.8
TOA     86.46  28 eP     21 00.70   2.3
AAE     87.49 279 eP     21 08.50   3.9X
BALM    88.30  29 P      21 10.50   3.1X
KVT     88.79 311 eP     21 11.90   1.9
HRI     89.37 303 eP     21 14.80   1.8
BHL     89.41 304 P      21 14.00   0.8
JVI     89.76 302 eP     21 16.50   1.7
HOL     90.15 299 ePd    21 19.00   2.5
MBH     90.27 300 eP     21 18.70   1.5
RMN     90.45 300 eP     21 19.60   1.5
KAS     90.49 311 eP     21 20.50   2.5
INK     91.31  21 eP     21 22.00   0.9
AKSR    92.30 294 eP     21 28.00   1.5
SPA     92.52 180 iPc    21 30.50   3.6X
       1.0s    17.50nm          5.4mb
                  i      21 51.50  76kmX
KAF     92.60 332 iP     21 27.20   0.1
       0.8s     5.80nm          5.0mb
MBC     93.13  13 eP     21 31.00   1.6
       1.4s    16.00nm          5.2mb
NUR     93.69 331 iP     21 33.40   1.2
VRI     95.08 316 ePc    21 40.00   1.1
UPP     97.25 331 iP     21 48.20  -0.2
KRA     98.70 321 eP     21 58.40   3.2X
VAY     98.85 312 eP     21 55.60  -0.4
HFS     99.02 332 eP     21 57.20   0.8
       0.8s     2.60nm          4.9mb
     Z  24s     0.31um          4.7MszX
                  LR     03 08.00
NB2     99.80 334 P      22 00.00  -0.1
       0.9s     7.60nm          5.3mb
KSP    100.72 323 ePdiff22 06.00   1.7
PRU    102.06 322 ePdiff22 13.50   3.2X
                  e      22 34.50
BRG    102.13 323 ePdiff22 12.60   2.1
       1.0s    10.00nm          5.5mb
                  e      22 35.00
CLL    102.54 324 e(Pdif22 15.00   2.7X
```

```
KHC   102.93 322 ePdiff22 15.00   0.8
MOX   103.59 324 ePdiff22 20.00   2.9X
GRF   104.18 323 ePdiff22 21.80   2.1
ALO   117.90  48 ePKP  27 05.00   1.9
SCH   121.78   9 ePKP  27 12.00   2.4X
PEL   145.50 154 iPKPd 27 57.00   2.5X
        1.0s   120.00nm
MDZ   146.50 156 e(PKP)27 59.70   3.5X
UPA   151.53  66 ePKP  28 12.00   7.7X
        1.0s    28.00nm
CNCB  159.82 136 PKP   28 20.00   4.3X
LPB   159.92 135 PKP   28 04.80 -10.8X
ZOBO  160.08 134 PKP   28 20.00   4.0X
        1.1s    13.05nm
CCH   160.64 140 ePKP  28 21.00   4.8X
     S.D. = 1.3  on 129 of 153 obs.
-----------------------------------
*  JUL  06, 1991  15h 12m 20.30± 0.91s
   21.387 S ± 9.1km   68.323 W ±12.4km
   DEPTH = 118.5 ± 10.3 km
   4.6mb (  3 obs.)
 CHILE-BOLIVIA BORDER REGION      (124)

ANT     3.01 220 iP     13 06.80  -0.5
                 eS     13 44.00
SLA     4.22 142 eP     13 29.10   5.2X
CCH     4.48  28 Pc     13 27.80   0.2
CNCB    4.56   4 iPc    13 29.20   0.2
LPB     4.83   3 P      13 33.80   1.3
        1.0s   160.00nm
ZOBO    5.09   2 P      13 35.20  -1.0
ARE     5.74 328 eP     13 07.00 -37.8X
                 iS     14 57.50
SIV     8.72  53 iPc    14 21.60  -3.5X
NNA    12.40 318 e(P)   15 22.00   8.0X
        0.6s     3.33nm          4.1mb
                 e(S)   16 30.00
VAO    19.84  99 eP     16 43.80  -0.4
BAO    20.10  77 ePc    16 46.70  -0.3
LIC    67.83  74 P      23 08.00  -0.1
KIC    68.15  74 P      23 09.80  -0.2
SPA    68.74 180 iPc    23 15.20   2.1
        1.0s    15.00nm          4.8mb
                 i      23 46.70
YKA    91.26 340 eP     25 12.10  -0.8
        0.6s     2.50nm          4.6mb
PRU   101.66  41 Pdiff 26 26.50  26.0X
                 e      26 40.50
WB2   133.32 210 ePKP   31 23.20  -1.4
WRA   133.32 210 PKP    31 25.00   0.4
        1.1s     1.80nm
G8A   146.49  98 PKPd   31 49.00   0.7
        0.6s     3.60nm
     S.D. = 1.0  on  14 of  19 obs.
-----------------------------------
%  JUL  06, 1991  15h 48m 27.77± 0.88s
   18.241 N ± 8.6km   66.952 W ± 6.7km
   DEPTH =  10.0km  (geophysicist)
 PUERTO RICO REGION                ( 90)

MCP     0.23 320 iP     48 33.00   0.2
MGP     0.27 209 iP     48 33.10  -0.3
PORP    0.35 122 iP     48 36.00   1.0
SJG     0.77  99 iP     48 30.00 -12.9X
CPD     1.01 101 iP     48 46.20  -0.6
LPR     1.03  86 iP     48 47.00  -0.3
                 S      49 02.00
     S.D. = 0.9  on   5 of   6 obs.
-----------------------------------
   JUL  06, 1991  15h 55m 14.42± 0.41s
   41.382 N ± 5.4km   20.978 E ± 4.1km
   DEPTH =  10.0km  (geophysicist)
 ALBANIA                           (391)
      ML 3.2 (SKO), 2.9 (TTG). Felt
      (IV) in the Kicevo-Krusevo oreo,
      Yugoslovia.

FNA     0.67 153 eP     55 25.82  -1.9
                 iS     55 36.58
SKO     0.68  30 iPg    55 26.40  -1.6
                 iSg    55 35.20
VAY     1.20  92 iPn    55 35.80  -1.0
                 iSn    55 51.40
ULC     1.42 295 iPgc   55 39.04  -1.2
                 iSg    55 58.94
PVY     1.42 329 iPgd   55 40.71   0.3
                 iSg    56 01.19
KNT     1.46  98 iP     55 40.66  -0.2
                 eS     55 59.98
KKB     1.65  72 iPc    55 44.00   0.4
                 eS     56 04.00
TTG     1.65 310 iPgd   55 43.61   0.0
                 iSg    56 06.04
THE     1.68 116 eP     55 45.10   1.1
IVA     1.69 332 iPnd   55 45.13   0.9
                 iSn    56 07.99
LIT     1.72 138 eP     55 45.78   1.2
BDV     1.84 300 iPnd   55 46.79   0.4
                 iSn    56 10.11
SOH     1.88 107 eP     55 48.42   1.5
SRS     1.99  97 eP     55 48.10  -0.4
NKY     2.05 315 iPnd   55 49.63   0.1
                 iSn    56 15.81
VTS     2.06  53 iP     55 49.00  -0.6
                 iSg    56 15.00
MMB     2.08  83 iPc    55 50.00   0.2
                 eS     56 18.00
HCY     2.13 301 iPnd   55 50.54   0.0
                 iSn    56 16.91
PLE     2.27 329 iPnd   55 53.01   0.3
                 iSn    56 21.74
BRY     2.36 311 iPnc   55 53.93   0.0
                 iSn    56 23.14
AGG     2.57 156 eP     55 56.66  -0.2
RZN     2.82  83 eP     56 01.00   0.4
                 eSg    56 45.00
     S.D. = 0.9  on  22 of  22 obs.
-----------------------------------
   JUL  06, 1991  16h 20m 46.36± 0.62s
   41.419 N ± 8.8km   20.940 E ± 5.5km
   DEPTH =  10.0km  (geophysicist)
 ALBANIA                           (391)
      ML 3.3 (SKO). MD 3.3 (ATH). Felt
      (IV) in the Kicevo-Krusevo oreo,
      Yugoslovio.

SKO     0.67  34 iPg    20 59.40  -0.2
                 iSg    21 08.10
VAY     1.23  94 iPn    21 08.40  -0.8
                 iSg    21 24.00
KZN     1.28 150 ePb    21 09.50  -0.6
KKB     1.67  74 iPc    21 16.00   0.2
                 eSg    21 40.00
KEK     1.91 207 ePn    21 20.50   1.2
MMB     2.10  84 iPc    21 22.00  -0.1
                 eSg    21 52.00
LCI     2.51 245 P      21 26.30  -1.5
RZN     2.85  83 iP     21 34.00   1.2
                 eSg    22 18.00
VLS     3.25 185 ePb    21 47.00   8.6X
MGR     4.28 254 P      21 54.20   1.1
SGO     4.35 260 P      21 53.50  -0.5
SOI     5.03 230 P      21 59.40  -4.3X
     S.D. = 1.1  on  10 of  12 obs.
-----------------------------------
*  JUL  06, 1991  16h 58m 46.57± 0.82s
   21.121 N ± 6.8km  121.443 E ±12.8km
   DEPTH = 103.2 ±  9.6 km
   4.2mb (  7 obs.)
 TAIWAN REGION                     (243)

TWG     1.73 349 iPd    59 15.90  -0.3
TWF1    2.22 357 ePc    59 22.80   0.1
TWK     2.31 338 ePd    59 24.60   0.7
                 eS     59 52.00
TWD     2.95   3 iPd    59 31.90  -0.5
TWQ     3.19 350 ePc    59 35.90   0.2
                 eS     00 12.30
TWC     3.49   6 ePd    59 39.70  -0.1
                 eS     00 18.00
TSRJ   19.20  39 P      03 04.90   0.0
BJI    19.39 348 eP     03 06.50  -0.3
        1.0s    13.00nm          4.2mb
IIDJ   20.33  42 P      03 17.20   0.5
MTMJ   20.99  39 P      03 24.90   1.5
MAT    21.21  40 (P)    03 25.00  -0.5
        0.9s     5.88nm          3.9mb
LZH    21.42 318 e(P)   03 45.00  17.2X
OFUJ   24.94  40 eP     04 00.80  -0.8
WB2    42.72 162 iPc    06 35.00  -0.1
                 e      11 46.10
QIS    45.07 156 ePd    06 54.00   0.0
ASPA   46.14 164 eP     07 02.80   0.3
        0.4s     6.40nm          4.8mb
WARB   47.29 174 iPd    07 12.70   1.2
        0.3s     7.00nm          5.0mb
STK    56.12 159 eP     08 16.00  -1.5
        1.8s     2.60nm          4.0mb
NB2    81.04 332 P      10 51.00  -0.1
        0.5s     0.30nm          3.4mb
YKA    85.69  23 eP     11 14.90   0.1
        0.8s     2.40nm          4.2mb
     S.D. = 0.7  on  19 of  20 obs.
-----------------------------------
*  JUL  06, 1991  17h 26m 25.87± 1.49s
   5.246 S ±17.5km  145.982 E ±17.3km
   DEPTH =  45.7 ±  9.8 km
   4.2mb (  1 obs.)
 EAST PAPUA NEW GUINEA REGION      (207)

MDG     0.20 269 iPd    26 33.80   0.1
LAT     1.73 144 eP     26 54.20   0.3
PMG     4.30 164 eP     27 30.00  -0.4
WB2    18.48 217 iPc    30 40.30  -0.1
                 e      30 53.70
ASPA   21.70 211 eP     31 15.40   0.4
        0.7s     7.20nm          4.2mb
NNT    49.26 291 eP     35 12.20  -0.2
     S.D. = 0.5  on   6 of   6 obs.
-----------------------------------
*  JUL  06, 1991  18h 01m 25.38± 0.95s
   38.188 N ± 8.3km   22.089 E ± 9.3km
   DEPTH =   5.0km  (geophysicist)
 GREECE                            (364)
      MD 3.1 (ATH).

AGG     0.85  13 eP     01 40.62  -1.7
                 eS     01 51.38
VLS     1.18 270 ePb    01 47.00  -0.9
ATH     1.30  99 ePb    01 50.00   0.1
VLI     1.61 155 ePb    01 55.00   0.4
LIT     1.94   9 eP     01 59.94   0.7
KZN     2.13 353 ePb    02 04.60   2.4X
PAIG    2.13  35 eP     02 00.06  -2.0
KEK     2.35 311 ePb    02 08.00   2.8X
FNA     2.65 348 eP     02 11.10   1.5
SOH     2.81  20 eP     02 12.50   0.7
KNT     3.04  12 eP     02 16.18   1.2
     S.D. = 1.5  on   9 of  11 obs.
-----------------------------------
   JUL  06, 1991  18h 06m 58.57± 0.58s
   46.988 N ± 8.3km  113.357 W ± 7.2km
   DEPTH =   5.0km  (geophysicist)
 MONTANA                           (456)
      ML 3.2 (BUT).

HRY     1.08 104 iPc    07 19.50   0.0
BUT     1.12 150 ePg    07 20.60   0.5
                 eSn    07 33.90
HBMT    1.30 156 ePnd   07 23.00  -0.4
LRM     1.32 151 ePnd   07 23.40  -0.3
BGMT    1.98 152 ePn    07 33.30   0.0
MEMT    2.16 129 ePn    07 35.80  -0.1
MCMT    2.19 170 ePn    07 36.60   0.2
NEW     2.85 298 eP     07 45.90   0.3
DPW     3.41 287 eP     07 53.30  -0.2
PNT     4.79 301 P      08 13.00  -0.2
        0.5s     6.80nm
     S.D. = 0.3  on  10 of  10 obs.
-----------------------------------
&  JUL  06, 1991  18h 24m 08.48s
   59.039 N          152.083 W
   DEPTH =  60.0km
 SOUTHERN ALASKA                   (  2)
      <AEIC>.

XLV     0.46  24 iPc    24 19.07  -1.0
                 eS     24 27.49
SYI     0.46 201 iPd    24 19.68  -0.4
                 iS     24 28.07
CNPM    0.65  41 iPc    24 21.69  -0.6
                 eS     24 31.55
HOM     0.66  20 eP     24 21.78  -0.6
                 iS     24 32.28
AUE     0.74 296 ePd    24 22.67  -0.6
AUI     0.75 294 ePd    24 22.90  -0.6
                 eS     24 33.48
AUH     0.77 296 ePd    24 23.24  -0.6
CDD     0.82 263 iPd    24 23.62  -0.7
BRLK    0.95  40 eP     24 25.64  -0.4
                 eS     24 38.00
```

06d 18h

NNL	1.08	21	iPd	24	28.07	0.3
IVS	1.10	333	ePc	24	27.22	-1.0
MCNL	1.17	278	eP	24	28.09	-0.9
KDC	1.31	190	eP	24	31.54	0.7
PDB	1.31	306	ePc	24	29.99	-0.9
			eS	24	46.77	
RSO	1.47	347	eP	24	32.72	-0.5
			eS	24	50.65	
PS2	1.47	347	eP	24	33.08	-0.2
			eS	24	50.86	
REF	1.49	348	ePd	24	32.65	-0.9
			eS	24	51.01	
RDW	1.49	346	eP	24	32.64	-1.0
RDN	1.52	347	ePd	24	33.11	-0.8
			eS	24	51.51	
RDT	1.55	354	eP	24	33.58	-0.7
			eS	24	52.77	
NCT	1.59	345	eP	24	34.08	-0.7
DFR	1.59	349	eP	24	34.11	-0.7
BGM	1.66	284	eP	24	34.66	-1.0
SEW	1.71	50	eP	24	35.28	-1.1
SLKM	1.75	32	ePd	24	36.14	-0.8
NKA	1.76	14	eP	24	38.06	1.0
SPU	2.15	0	iPd	24	41.96	-0.6
CKL	2.17	357	ePd	24	42.47	-0.5
BGL	2.24	356	eP	24	43.71	-0.2
CGLM	2.28	1	ePd	24	44.02	-0.4
NCG	2.37	359	ePd	24	45.54	-0.3
LTI	2.38	63	eP	24	45.12	-0.6
SUA	2.52	15	eP	24	47.09	-0.8
PMS	2.55	29	ePd	24	47.32	-0.9
KNIM	2.57	57	eP	24	47.96	-0.4
PLRM	2.95	29	iPd	24	52.28	-1.6
SKT	2.96	5	eP	24	53.14	-1.0
KNK	2.99	36	eP	24	52.62	-1.9
GLI	3.11	52	eP	24	53.71	-2.5
GHO	3.16	28	eP	24	54.97	-1.9

40 obs. associoted

JUL 06, 1991 19h 00m 12.56± 0.22s
16.713 S ± 4.6km 167.518 E ± 5.7km
DEPTH = 26.2km (6 depth phases)
5.0mb (10 obs.) 5.2Msz (11 obs.)
VANUATU ISLANDS (186)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 20S, 35C
Centroid Location:
Origin Time 19:00:13.4 0.5
Lat 16.87S 0.07 Lon 167.75E 0.06
Dep 15.0 FIX Half-duration 2.4
Moment Tensor; Scale 10**17 Nm
Mrr= 2.30 0.09 Mtt=-0.03 0.12
Mff=-2.27 0.14 Mrt= 0.47 0.25
Mrf=-2.01 0.38 Mtf= 0.43 0.08
Principal Axes:
T Val= 3.08 Plg=69 Azm= 75
N 0.05 1 168
P -3.13 21 259
Best Double Couple:Mo=3.1*10**17
NP1:Strike=352 Dip=24 Slip= 93
NP2: 168 66 88

BKM	1.18	144	iP	00	32.50	-0.9
PVC	1.27	143	iPc	00	34.10	-0.6
			iS	00	55.00	
DZM	5.42	191	iPd	01	31.90	-2.0
			iS	02	33.90	
HNR	10.33	314	eP	02	41.00	-1.2
			eS	04	39.00	
RAB	19.54	308	e(P)	04	40.00	-1.3
COO	19.85	223	eP	04	44.00	-0.6
			i	04	54.40	45kmX
RMQ	19.95	238	iPc	04	47.00	1.3
AFI	20.16	85	e(P)	04	48.00	0.0
CTAO	20.45	257	iPc	04	51.00	0.1
	1.0s	50.00nm			4.8mb	
			iS	08	48.00	
PMG	21.11	288	eP	04	54.00	-3.7X
NGZ	23.47	164	eP	05	22.40	1.3
QLP	23.73	242	eP	05	25.30	1.7
BWA	24.58	221	eP	05	32.60	0.8
			e	05	38.90	22km
CMS	24.60	229	eP	05	33.00	1.1
CNB	24.61	218	eP	05	33.00	0.9
			i	05	43.90	42kmX
MNG	24.80	165	P	05	32.50	-1.3

CAN	24.83	218	eP	05	35.10	0.9
			e	05	43.60	30km
KHZ	26.13	170	eP	05	45.50	-0.7
LTZ	26.30	172	P	05	48.40	0.6
QIS	26.71	257	eP	05	52.00	0.2
STK	27.94	233	iPc	06	02.40	-0.5
	0.7s	10.30nm			4.7mb	
			e	08	06.30	
			i	11	06.40	
TOO	28.43	219	e(P)	06	14.00	6.7X
WB2	31.62	259	iPd	06	33.60	-2.2
			e	10	19.90	
ASPA	32.24	252	iPd	06	39.10	-2.2
	0.6s	70.20nm			5.8mb X	
Z	20s	7.50um			5.4Msz	
			eS	11	43.10	
WARB	39.06	249	eP	07	38.50	-0.8
MAT	59.77	333	eP	10	18.00	0.3
	0.7s	6.16nm			4.8mb	
			eS	18	19.00	
SBA	61.16	180	iP	10	27.30	0.6
SSE	65.12	317	eP	10	52.00	-1.4
Z	20s	0.90um			5.0Msz	
N	16s	0.60um				
E	16s	0.50um				
			S	19	32.00	
NJ2	67.26	316	eP	11	09.50	2.4
Z	20s	0.80um			4.9Msz	
			eS	19	59.00	
WHN	69.45	312	eP	11	21.00	0.3
Z	20s	0.60um			4.8Msz	
			S	20	28.00	
MDJ	70.14	332	Pc	11	26.00	1.3
	1.0s	20.00nm			5.2mb	
CN2	71.46	329	Pc	11	32.00	-0.7
	0.8s	10.00nm			4.9mb	
Z	20s	1.48um			5.2Msz	
			epP	11	39.00	22km
			eS	20	48.00	
SPA	73.39	180	iPc	11	43.80	-0.3
	1.0s	30.00nm			5.3mb	
BJI	73.95	321	eP	11	47.00	-0.4
Z	24s	0.95um			5.0MszX	
			eS	21	18.00	
TIY	74.88	318	eP	11	53.00	0.0
Z	24s	0.68um			4.9MszX	
E	23s	1.49um				
			S	21	31.00	
			sS	21	49.00	
XAN	75.20	313	P	11	54.60	-0.3
KMI	75.55	302	eP	11	58.50	1.2
	1.6s	60.00nm			5.4mb	
			pP	12	03.00	14kmX
CHTO	76.12	295	eP	12	00.30	0.0
	1.2s	6.94nm			4.6mb	
			pP	12	00.90	2kmX
HHC	77.25	320	eP	12	07.00	0.7
Z	18s	1.20um			5.3Msz	
			S	21	57.00	
			ScS	22	15.00	
CD2	77.40	308	eP	12	11.30	4.0X
LZH	79.83	312	eP	12	21.00	0.4
	2.0s	130.00nm			5.6mb	
Z	27s	0.80um			4.9MszX	
N	18s	0.66um				
			eS	22	20.00	
MAW	80.15	202	e(P)	12	23.00	1.4
YAK	83.97	343	eP	12	40.10	-1.3
GTA	84.21	314	eP	12	42.40	-0.9
	1.2s	10.00nm			4.9mb	
Z	11s	0.90um			5.4MszX	
			pP	12	52.60	32km
			SKS	23	06.00	
PRS	85.30	50	eP	12	55.00	6.4X
			e	13	02.50	24km
PRI	85.74	50	e(P)	12	55.00	4.0X
LSA	86.81	302	P	12	55.20	-1.6
SBB	87.30	53	eP	13	05.00	6.4X
CLC	87.90	52	eP	13	01.00	-0.4
GSC	88.31	52	eP	13	10.00	6.6X
NVL	91.13	188	ePc	13	16.50	0.6
			e	13	25.00	26km
			e	13	38.00	
GKN	91.63	299	P	13	00.00	-19.2X
WMO	94.28	314	P	13	31.50	0.6
SIV	122.10	122	ePKP	19	06.00	-1.3
KAF	127.12	338	ePKP	19	11.10	-4.6X

NUR	128.78	337	ePKP	19	15.40	-3.5X
NB2	132.59	345	PKP	19	24.10	-2.1X
	0.7s	0.80nm				
GRF	141.92	335	e(PKP)	19	43.00	-0.8
Z	22s	0.30um			5.0Msz	
FVI	143.57	330	PKP	19	43.30	-3.4X
WTTA	143.61	332	ePKP	19	43.00	-4.0X
	0.7s	5.70nm				
			i	20	10.80	
OGA	144.18	332	ePKP	19	45.30	-2.7X
CDF	144.49	337	PKP	19	45.93	-2.4X
FEL	144.65	336	PKP	19	46.39	-2.3X
ECH	144.70	337	PKP	19	46.46	-2.2X
VAL	144.81	358	ePKP	19	52.00	3.4X
MOF	145.01	337	PKP	19	47.49	-1.8
VITF	145.12	338	PKP	19	48.09	-1.2
BSF	145.15	337	ePKP	19	46.60	-2.9X
	0.8s	13.45nm				
HAU	145.17	338	ePKP	19	46.60	-2.8X
	0.6s	25.25nm				
Z	20s	0.28um			5.0Msz	
BBS	145.18	336	PKP	19	48.33	-1.2
LOMF	145.54	337	PKP	19	49.89	-0.3
RSM	145.63	327	PKP	19	49.40	-0.9
ARV	145.67	326	PKP	19	49.60	-0.8
ORI	145.78	319	PKP	19	51.70	1.0
SFI	145.95	328	PKP	19	50.80	0.0
ROI	145.98	318	PKP	19	51.40	0.3
DUI	146.04	323	PKP	19	54.80	3.6X
CSI	146.04	318	PKP	19	51.80	0.6
PGD	146.05	328	PKP	19	51.20	0.0
TDS	146.08	318	PKP	19	52.00	0.8
CRE	146.10	327	PKP	19	52.00	0.7
ASS	146.12	326	PKP	19	51.60	0.4
SGO	146.20	320	PKP	19	55.50	4.2X
MGR	146.30	319	PKP	19	50.20	-1.3
MME	146.33	329	PKP	19	53.20	1.4
CZI	146.46	318	PKP	19	51.20	-0.6
BDI	146.47	329	PKP	19	50.00	-1.8
BOB	146.49	331	PKP	19	52.10	0.3
FLN	146.57	346	ePKP	19	50.30	-1.4
	0.6s	13.55nm				
Z	20s	0.45um			5.2Msz	
MNS	146.57	325	PKP	19	53.00	1.0
LDF	146.64	345	ePKP	19	50.90	-0.9
	0.6s	9.00nm				
LOR	146.67	340	ePKP	19	51.70	-0.2
	0.7s	17.65nm				
Z	20s	0.55um			5.3Msz	
PII	146.76	329	PKP	19	55.10	3.0X
LBF	146.88	339	ePKP	19	52.10	-0.2
	0.8s	10.05nm				
GRC	146.91	340	PKP	19	54.03	1.8
RDP	146.97	324	PKP	19	55.40	2.8X
SSF	146.97	340	ePKP	19	52.60	0.2
	0.8s	24.20nm				
GRR	147.01	346	ePKP	19	52.10	-0.3
	0.8s	18.80nm				
LPL	147.09	335	ePKP	19	53.30	0.4
	0.6s	12.65nm				
LPG	147.09	335	ePKP	19	53.40	0.4
	0.8s	21.50nm				
SOI	147.13	316	PKP	19	53.50	0.6
SMF	147.22	339	ePKP	19	52.30	-0.5
	0.8s	10.75nm				
AVF	147.26	340	ePKP	19	53.50	0.7
	0.6s	4.95nm				
CKI	147.29	332	PKP	19	54.30	1.3
LPF	147.38	346	ePKP	19	53.20	0.2
	0.7s	19.85nm				
BNI	147.49	334	PKP	19	56.20	2.7X
BGF	147.63	340	ePKP	19	53.40	-0.1
	0.7s	19.30nm				
AGO	147.98	339	PKP	19	56.41	2.3
MAF	148.02	340	ePKP	19	54.50	0.4
	0.8s	10.75nm				
TCF	148.07	341	ePKP	19	57.00	2.8X
	1.0s	12.00nm				
SBF	148.11	332	ePKP	19	56.50	2.1X
	0.8s	32.75nm				
PYM	148.28	339	PKP	19	57.39	2.7X
LSF	148.32	341	ePKP	19	56.00	1.4
	0.8s	10.75nm				
PGF	148.38	329	ePKP	19	56.20	1.3
	0.8s	29.55nm				
MFF	148.48	344	ePKP	19	56.30	1.5
	0.8s	8.05nm				

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LBL    148.65 338 PKP    19 58.92    3.7X
FRF    148.70 333 ePKP   19 58.30    3.0X
        0.6s      9.00nm
LRG    148.91 333 ePKP   19 59.40    3.8X
        0.8s     12.10nm
      Z  20s      0.63um          5.4Msz
LMR    148.94 333 ePKP   19 58.70    3.1X
        1.0s     16.00nm
LFF    149.74 341 ePKP   20 00.90    4.1X
        0.8s     10.75nm
LPO    149.83 340 ePKP   20 00.30    3.3X
        0.6s      5.40nm
      S.D. = 1.1  on  87 of 121 obs.
-----------------------------------
*  JUL  06, 1991  19h 47m 29.13± 1.31s
   15.109 S ±10.7km  166.849 E ±14.5km
   DEPTH = 115.9 ± 11.4 km
   4.4mb (  2 obs.)
 VANUATU ISLANDS                  (186)

BKM      2.88 152 iP     48 15.00    0.7
DZM      6.94 183 iPd    49 09.90    0.1
                  iS     50 27.20
HNR      8.79 309 eP     49 35.00    0.1
                  eS     50 13.00
NOZ     25.41 159 P      52 46.20   -1.2
MNG     26.51 165 P      52 56.40   -1.1
LTZ     27.97 171 P      53 10.40   -0.3
STK     28.44 230 eP     53 15.70    0.6
        0.5s      3.50nm          4.3mb
WB2     31.33 256 eP     53 40.50   -0.2
MAT     58.05 333 iPd    57 09.50   -2.8
        0.8s      5.22nm          4.6mb
SSF    145.25 340 ePKP   06 54.60   -0.1
        0.6s      3.60nm
LPL    145.37 335 ePKP   06 55.20    0.0
        0.6s      1.80nm
LPG    145.37 335 ePKP   06 55.50    0.2
        0.6s      2.70nm
SMF    145.50 339 ePKP   06 55.10    0.0
        0.9s      3.30nm
AVF    145.54 340 ePKP   06 55.10    0.0
LPF    145.68 346 ePKP   06 55.50    0.2
        0.5s      5.10nm
MAF    146.30 340 ePKP   06 56.90    0.4
SBF    146.40 333 ePKP   06 57.60    0.8
        0.9s     11.45nm
PGF    146.68 330 ePKP   06 58.90    1.6
        0.9s      6.55nm
MFF    146.77 344 ePKP   06 58.30    1.1
        0.6s      5.40nm
      S.D. = 1.0  on  19 of  19 obs.
-----------------------------------
   JUL  06, 1991  20h 23m 08.83± 0.32s
   32.296 S ± 6.9km  120.383 W ± 8.3km
   DEPTH =  10.0km  (geophysicist)
   4.9mb ( 13 obs.)  4.3Msz (  1 obs.)
 SOUTH PACIFIC OCEAN              (632)

PEL     41.50 105 iPc    30 59.00    1.2
        0.5s     21.13nm          5.1mb
CNCB    49.63  85 P      32 05.00    1.7
LPB     49.66  85 P      32 03.00   -0.4
ZOBO    49.76  84 P      32 05.00    0.6
        1.2s     12.84nm          4.8mb
CCH     50.91  87 (P)    32 11.00   -1.8
SIV     55.85  88 iPc    32 48.30   -0.8
GLA     65.21   5 eP     33 52.00   -0.5
PLM     65.38   3 eP     33 56.00    2.3
RVR     66.00   3 eP     33 57.00   -0.4
TPC     66.17   4 eP     33 59.00    0.4
SBB     66.67   2 eP     34 01.00   -0.8
GSC     67.32   3 eP     34 06.00    0.0
ISA     67.63   2 eP     34 08.00    0.1
CLC     67.81   2 eP     34 09.00    0.0
PRI     68.08 360 ePc    34 11.40    0.7
ALQ     68.15  12 eP     34 10.60   -0.8
        0.9s      5.88nm          4.8mb
ANMO    68.15  12 P      34 11.00   -0.4
        1.3s     14.42nm          5.0mb
PRS     68.27 359 ePc    34 12.30    0.5
SAO     68.71 359 eP     34 14.50    0.0
FRI     68.93   1 iPc    34 15.50   -0.3
GCC     68.98 359 ePc    34 16.80    0.7
MHC     69.29 359 ePc    34 18.70    0.5
MEO     69.80  19 iPd    34 21.00   -0.3
BRK     69.83 358 eP     34 21.80    0.5
BKS     69.83 358 iPc    34 21.90    0.6
        0.9s     62.00nm          5.7mb
CMB     69.97 360 iPc    34 22.80    0.6
TNP     70.08   3 P      34 23.20    0.1
        1.0s     10.00nm          4.9mb
PV09    71.21   9 P      34 30.00   -0.2
ORV     71.49 359 eP     34 31.80    0.4
TUL     71.66  21 ePc    34 31.30   -1.2
        0.6s     11.80nm          5.2mb
      Z  22s      0.18um          4.3Msz
                   LR     17 50.00
NVL     71.76 165 ePc    34 33.00    0.3
WDC     72.54 358 ePc    34 37.50   -0.1
GOL     72.97  12 P      34 40.00   -0.6
        1.0s      2.75nm          4.3mb
CSY     74.31 199 eP     34 48.60    0.9
        0.7s     12.90nm          5.1mb
BW06    75.36   8 P      34 53.10   -1.2
        1.0s      6.33nm          4.6mb
SOB1    76.29  92 eP     34 59.90   -0.1
RSSD    77.50  12 P      35 06.00   -0.2
        1.3s     14.78nm          4.9mb
STK     79.70 239 eP     35 17.30   -1.1
        0.8s      1.50nm          4.0mb
SES     82.74   6 eP     35 35.00    1.1
WRA     91.70 245 P      36 18.00   -0.1
        0.7s      3.40nm          4.8mb
CN2    128.16 303 ePKP   42 15.80   -0.9
NB2    137.57  33 PKP    42 33.30   -0.8
        0.9s      2.30nm
GRF    140.31  50 ePKP   42 33.70   -5.7X
CLL    141.18  47 e(PKP)42 41.00    0.1
KHC    141.91  50 ePKP   42 36.50   -5.9X
                   e     42 44.00
CD2    142.58 280 PKP    42 39.80   -4.3X
KSP    143.30  47 ePKPd  42 41.80   -2.8X
KAF    143.33  26 iPKP   42 40.50   -3.8X
        0.6s      9.10nm
LZH    143.45 288 PKPd   42 42.50   -3.1X
                  pPKP   42 51.70
NUR    143.66  29 iPKP   42 41.70   -3.2X
PTJ    143.95  55 ePKP   42 43.00   -3.0X
ZST    144.38  51 iPKP   42 45.00   -1.5
        1.0s     32.00nm
SRO    145.25  51 iPKP   42 47.50   -0.5
KRA    145.76  47 ePKPc  42 49.30    0.5
SPC    146.18  48 ePKP   42 50.60    0.8
GTA    146.86 294 ePKP   42 50.60   -0.5
                  pPKP   42 58.60
SKO    148.29  61 ePKP   42 55.70    2.5X
FNA    148.33  64 e(PKP)42 56.42    3.1X
AGG    149.13  67 e(PKP)42 58.10    3.5X
VAY    149.19  62 ePKP   42 58.50    3.9X
LIT    149.22  65 e(PKP)42 58.50    3.8X
KNT    149.45  63 e(PKP)42 59.29    4.3X
SOH    149.83  63 e(PKP)43 00.06    4.4X
SRS    149.98  63 e(PKP)42 59.74    3.9X
PAIG   150.14  65 e(PKP)43 01.14    5.1X
MLR    150.89  53 ePKP   43 02.00    4.8X
ALN    151.85  63 e(PKP)43 04.50    5.9X
LSA    152.89 273 ePKP   43 02.50    1.5
      S.D. = 0.8  on  49 of  68 obs.
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&  JUL  06, 1991  22h 54m 38.90s
   34.240 N          118.010 W
   DEPTH =  10.0km
 SOUTHERN CALIFORNIA              ( 43)
      <PAS-P>. ML 3.8 (PAS). Felt (V)
      at Altadena, North Hollywood,
      Northridge, Norwolk, Pasadena
      and Sierro Madre; (IV) at
      Arcadio, Burbank, El Monte,
      Glendale, Glendora, Monrovio,
      Mount Wilson and Sunland; (III)
      at Baldwin Park, Claremont,
      Covina, La Crescenta, Long
      Beach, Las Angeles, Rosemead and
      Santa Clarita.

MWC      0.04 248 iPc    54 41.10   -0.1
PEM      0.14 122 iPc    54 42.13    0.0
PAS      0.16 236 iPc    54 42.59    0.0
PCF      0.26 136 iPd    54 44.27   -0.1
SCY      0.39 250 iPc    54 46.51   -0.4
VPD      0.47 154 ePd    54 48.29   -0.2
SBB      0.47  19 iPc    54 47.80   -0.7
PVPS     0.56 216 eP     54 49.77   -0.4
PEC      0.79 116 iPd    54 53.20   -1.0
CIS      0.89 202 ePc    54 55.60   -0.4
ABL      1.17 302 iPd    55 00.00   -0.9
PLM      1.30 132 iPd    55 02.30   -0.8
SCI      1.33 200 eP     55 02.20   -1.3
GSC      1.45  43 iPc    55 05.40    0.1
CPE      1.55 150 eP     55 05.00   -1.6
CLC      1.61  12 iPc    55 07.30   -0.2
BAR      1.92 144 ePd    55 10.60   -1.3
BCH      1.95 299 eP     55 12.00   -0.5
PHAM     2.53 310 eP     55 20.00   -0.6
PRI      2.89 312 iP     55 25.60   -0.3
GLA      2.91 113 eP     55 27.00    0.9
FRI      3.07 334 iP     55 28.59    0.2
                  eS     56 01.30
PRS      3.45 308 iPc    55 31.80   -2.0
BONR     3.71 356 eP     55 38.00    0.2
SAO      3.77 313 eP     55 36.56   -1.8
TNP      3.89   9 eP     55 40.00   -0.2
CMB      4.25 334 eP     55 45.42    0.3
                  eSg    56 50.80
GCC      4.28 312 eP     55 42.96   -2.5
MHC      4.28 317 e(P)   55 45.30   -0.3
      29 obs. associated
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   JUL  06, 1991  23h 32m 34.28± 0.21s
   21.442 S ± 3.9km   69.394 W ± 5.5km
   DEPTH =  34.8km  (  6 depth phoses)
   5.2mb ( 33 obs.)  4.2Msz (  2 obs.)
 NORTHERN CHILE                   (123)

ANT      2.44 203 iPd-   33 12.50   -0.1
                  iS     33 41.00
CNCB     4.80  16 P      33 52.00    5.4X
LPB      5.03  14 eP     33 54.00    4.1X
                  i      33 58.00
                  S      34 58.00
CCH      5.07  38 P      33 56.80    6.5X
                  i      34 10.00
                  i      34 17.50
ZOBO     5.28  13 P      33 58.00    4.5X
                  i      34 08.00
                  LR     36 00.00
ARE      5.34 338 eP     33 54.00    0.0
                  iS     34 52.00
CYA      7.70 156 e(P)   34 27.30    0.4
SIV      9.57  57 iPd    34 52.00   -0.8
RTLL     9.88 175 ePc    34 53.70   -3.4X
ZON     10.08 177 e(P)   35 06.20    6.3X
RTBS    10.18 180 e(P)   35 00.10   -1.0
MDZ     11.41 178 eP     35 22.40    4.5X
                  i      36 04.50
                  i      38 08.20
PEL     11.71 185 eP     35 20.00   -2.1
NNA     11.80 322 eP     35 23.50    0.2
        0.8s     17.91nm          5.3mb
                  eS     37 32.00
PT10    11.80 321 e(P)   35 28.00    4.7X
                  eS     37 35.00
ITB1    14.18 106 Pc     36 03.50    8.8X
VAO     20.82  98 eP     37 13.80   -1.7
                  e      37 23.80   39km
                  e      37 29.30
BAO     21.09  78 ePc    37 18.00   -0.3
JSC     56.55 348 P      42 14.50   -1.2
                  pP     42 26.00   39km
BLA     59.26 350 P      42 34.50   -0.2
        1.0s     15.00nm          5.1mb
TUL     62.28 336 ePc    42 52.00   -3.2X
        0.8s     17.60nm          5.2mb
                  e      43 01.60   31km
SNA     62.29 159 eP     42 54.50   -0.5
        1.0s     58.00nm          5.7mb
FVM     62.33 341 eP     42 54.00   -1.5
        0.9s     33.90nm          5.5mb
                  pP     43 02.90   29km
                  sP     43 05.90
ALQ     66.20 327 eP     43 20.80   -0.3
        0.8s      7.28nm          4.8mb
ANMO    66.20 327 P      43 21.00   -0.1
        1.5s     27.78nm          5.1mb
NVL     67.05 159 ePc    43 26.00    0.2
                  e      43 35.00   29km
SPA     68.69 180 iPc    43 36.70    0.4
        1.0s     31.00nm          5.3mb
LIC     68.80  74 Pc     43 37.08   -0.5
        0.8s     16.00nm          5.1mb
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06d 23h

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TIC     68.99  74 Pc     43 38.12  -0.7
        1.0s     24.00nm          5.2mb
KIC     69.12  74 Pc     43 39.22  -0.3
        0.8s     37.50nm          5.5mb
GOL     69.49 331 P      43 40.80  -0.8
        1.0s      6.50nm          4.6mb
                   pP    43 53.00  41km
PV09    70.32 328 P      43 47.00   0.2
RSSD    72.55 335 P      44 00.00   0.0
        1.0s      8.68nm          4.7mb
BW06    73.84 330 P      44 06.70  -0.8
        1.2s      5.71nm          4.4mb
TNP     74.31 323 P      44 11.00   0.7
        1.0s      7.50nm          4.6mb
SCH     75.98   2 eP     44 19.00  -0.2
CER     77.48 121 iPc    44 37.50   9.2X
        1.2s     92.00nm          5.7mb
LRM     77.51 331 eP     44 29.00   0.7
ORV     77.77 321 P      44 30.50   1.0
SES     80.43 334 ePc    44 43.60  -0.2
FFC     80.83 342 ePc    44 45.00  -0.8
        1.1s     19.00nm          5.0mb
HVD     83.36 120 eP     45 01.20   1.4
        0.8s     29.85nm          5.5mb
MAW     84.52 163 eP     45 06.00   1.4
KSR     86.23 116 e(P)   45 15.00   0.7
BFT     88.92 117 eP     45 29.50   2.2
EPF     90.60  43 eP     45 35.10   0.7
        0.6s      1.35nm          4.5mb
YKA     90.98 341 eP     45 35.90   0.3
        0.7s      9.00nm          5.2mb
LFF     91.78  42 eP     45 40.10   0.5
        0.5s     14.60nm          5.7mb
LPO     91.93  42 eP     45 40.80   0.4
        0.6s      7.20nm          5.3mb
MFF     92.04  40 eP     45 41.40   0.6
        0.6s      8.10nm          5.3mb
LPF     92.22  39 eP     45 41.20  -0.4
        1.0s     16.00nm          5.4mb
RJF     92.43  42 eP     45 42.90   0.2
        0.6s      4.50nm          5.1mb
      Z  20s      0.10um          4.3Msz
CAF     92.60  42 eP     45 43.80   0.3
        0.7s      4.95nm          5.0mb
LSF     92.89  41 eP     45 44.40  -0.4
        1.0s     12.00nm          5.3mb
LDF     93.03  38 eP     45 45.10  -0.2
        0.6s      5.40nm          5.2mb
BGF     93.84  41 eP     45 49.50   0.4
        0.6s      7.65nm          5.3mb
SSF     94.47  41 eP     45 51.60  -0.4
        0.6s      1.80nm          4.7mb
SMF     94.49  41 eP     45 52.20   0.1
        0.6s      4.05nm          5.0mb
LOR     94.78  41 eP     45 53.20  -0.2
        0.6s      3.60nm          5.0mb
      Z  22s      0.08um          4.1Msz
SBF     95.59  45 eP     45 58.00   0.7
        0.6s      2.70nm          4.9mb
WRA    132.77 211 PKP    51 48.00  -0.1
        0.8s      3.30nm
GBA    147.48  98 PKPd   52 15.40   1.0
        0.6s      8.50nm
NDI    148.98  70 ePKP   52 17.50   1.0
HYB    149.54  92 ePKP   52 23.20   5.5X
MAT    151.68 308 ePKP   52 26.00   5.6X
        0.7s      9.59nm
     S.D. = 0.8  on  52 of  65 obs.
-----------------------------------
   JUL  07, 1991  00h 58m 17.54± 0.25s
   5.433 N ± 4.0km  125.942 E ± 6.3km
   DEPTH = 117.7km  (  5 depth phoses)
   5.0mb ( 36 obs.)
 MINDANAO, PHILIPPINE ISLANDS      (259)

DAV      1.68 347 eP     58 47.10  -0.3
CGP      3.25 338 iPd    59 08.50   0.7
                  eS     59 51.00
MAP      5.23 338 iPc    59 35.00   0.3
                  eS     00 38.00
PLP      5.77 351 ePd    59 42.00  -0.2
        1.0s    117.00nm          5.1mb
TSM      8.12 262 ePd    00 15.80   1.6
PPR      8.35 302 iPd    00 19.00   1.7
CVP     12.84 342 eP     01 26.50   9.6X
TRT     18.62 226 eP     02 29.70   1.0
        0.6s     50.20nm          5.0mb
MTN     18.88 164 eP     02 29.00  -2.5
        0.4s     63.00nm          5.3mb
OIZ     20.71 312 Pd     02 50.20  -0.2
KNA     21.23 172 eP     02 55.50  -0.1
KGM     22.83 262 ePc    03 13.20   2.0
IPM     24.84 269 ePc    03 31.40   0.8
        1.0s     55.40nm          5.0mb
WB2     26.54 162 iPc    03 44.70  -1.5
        1.0s     13.90nm          4.5mb
                   eS    08 18.50
PSI     27.08 265 ePd    04 00.90   9.7X
KHT     28.45 291 eP     04 04.80   1.3
OIS     29.11 153 iPd    04 08.40  -1.0
                   i     04 12.80  15kmX
CHTO    29.49 299 eP     04 12.80  -0.1
        0.8s      6.22nm          4.4mb
                   pP    04 37.40 112km
ASPA    29.95 165 eP     04 15.30  -1.5
        0.8s     12.20nm          4.7mb
                   eS    09 03.20
WARB    31.44 179 iPd    04 30.10   0.3
        0.3s     17.00nm          5.3mb
TIA     31.68 346 eP     04 30.50  -1.4
XAN     32.55 333 P      04 37.80  -1.7
CD2     32.82 323 eP     04 41.10  -0.8
        1.0s     30.00nm          5.0mb
MAT     32.94  18 eP     04 40.00  -2.9
TIY     34.41 341 Pd     04 55.20  -0.4
      Z  12s      0.48um          4.5MszX
BJI     35.56 347 eP     05 04.00  -1.1
        1.0s     27.00nm          5.1mb
FORR    36.14 177 eP     05 08.50  -1.5
        0.3s     46.00nm          5.9mb
SNY     36.30 357 iPc    05 11.60   0.3
        0.8s     80.00nm          5.6mb
                   pP    05 39.80 124km
COOL    36.40 187 eP     05 11.50  -0.9
LZH     36.65 329 Pd     05 14.50   0.0
        1.5s     79.00nm          5.4mb
      Z  20s      0.25um          4.0Msz
      E  10s      0.22um
                   pP    05 36.00  90kmX
BAL     36.91 193 iPc    05 15.80  -0.8
        0.7s     20.00nm          5.1mb
HHC     37.55 342 eP     05 21.30  -0.7
KLB     37.64 191 iPd    05 22.30  -0.4
CN2     38.21 359 eP     05 26.80  -0.6
      Z  12s      0.29um          4.3MszX
MUN     38.34 193 iPd    05 28.50  -0.1
        0.6s     65.00nm          5.6mb
NWAO    39.03 192 iPc    05 34.40   0.0
MDJ     39.16   4 eP     05 35.80   0.6
        1.2s     50.00nm          5.2mb
STK     39.99 159 iPc    05 42.30   0.1
        0.8s      9.30nm          4.6mb
                  ePcP   07 45.60
                   eS    11 38.40
RKG     40.67 191 iPd    05 49.20   1.4
        0.4s     28.00nm          5.4mb
GTA     41.24 329 iPc    05 52.00  -0.6
        1.0s     10.00nm          4.5mb
                   pP    06 23.00 138kmX
                  PcP    07 50.40
                  ScP    11 30.00
                  ScS    15 43.00
GUN     44.10 305 P      06 16.60   0.3
        0.7s    120.00nm          5.8mb
PKI     44.36 304 P      06 18.66   0.3
        0.7s     20.00nm          5.0mb
KKN     44.55 305 P      06 19.60  -0.1
        0.7s     30.00nm          5.2mb
DMN     44.62 304 P      06 20.44   0.1
        0.9s     36.00nm          5.2mb
BWA     44.97 153 eP     06 24.60   1.9
BFD     45.13 161 eP     06 22.00  -1.9
GKN     45.15 305 P      06 23.02  -1.4
        0.4s     12.00nm          5.0mb
CAN     45.98 154 iPd    06 31.80   1.2
TOO     46.50 158 eP     06 36.00   1.2
HYB     47.82 289 eP     06 44.20  -1.2
        0.8s     34.30nm          5.2mb
DZM     48.16 126 iPc    06 49.30   1.3
GBA     48.45 283 Pd     06 49.20  -1.0
        0.8s      9.40nm          4.7mb
WMQ     50.89 325 P      07 08.00  -0.6
        1.0s     20.00nm          5.0mb
NDI     51.54 303 eP     07 12.00  -1.7
YAK     56.53   2 iPc    07 48.90  -0.6
                  epP    08 17.00 117km
                  ePcP   08 56.00
                   eS    15 31.00
                  iScS   17 24.00
MAIO    67.86 307 eP     09 06.00   0.5
CSY     72.42 186 eP     09 32.70   0.4
        0.7s     26.30nm          5.1mb
SVW     79.68  29 eP     10 15.30   2.0
BRW     80.82  19 eP     10 21.10   2.0
KDC     80.93  32 eP     10 21.30   1.4
RSO     81.01  30 P      10 20.90   0.3
IMA     81.16  24 eP     10 22.70   1.5
        0.9s     11.70nm          4.7mb
SLKM    82.26  30 P      10 26.70  -0.2
PMR     82.84  29 eP     10 30.20   0.5
        0.9s     16.70nm          4.9mb
FBA     83.53  25 P      10 33.70   0.5
        1.0s     15.00nm          4.8mb
TOA     84.24  28 eP     10 38.90   1.9
MAW     85.07 200 eP     10 42.00   1.1
        1.0s     17.00nm          4.9mb
OBN     85.21 325 eP     10 41.00  -0.8
        1.0s   *******nm          8.0mb X
                   e     11 12.00 120km
BALM    86.12  29 P      10 49.20   2.8
INK     88.88  21 eP     10 59.00  -0.4
                   pP    11 27.00 106kmX
MBC     90.47  13 eP     11 07.50   0.8
        0.7s      2.00nm          4.4mb
                   pP    11 38.00 116km
HFS     96.15 332 eP     11 31.00  -2.0
        0.5s      1.10nm          4.6mb
NB2     96.92 334 P      11 34.30  -2.3
        0.8s      4.00nm          5.0mb
YKA     98.28  24 eP     11 43.40   0.8
        0.9s      1.60nm          4.6mb
KIC    129.40 283 PKP    17 14.92   0.0
TIC    129.61 283 PKP    17 14.94  -0.4
LIC    129.70 283 PKP    17 15.36  -0.1
UPA    150.84  61 ePKP   17 52.50  -0.2
ZOBO   162.50 129 PKP    18 09.00   1.2
SIV    167.45 147 PKP    18 07.00  -4.4X
     S.D. = 1.2  on  77 of  80 obs.
-----------------------------------
%  JUL  07, 1991  01h 02m 21.78± 4.52s
   43.386 N ±26.3km   18.561 E ±22.2km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                        (383)
      ML 1.9 (TTG).

BRY      0.49 182 iPgd   02 31.09  -0.6
                  iSg    02 39.51
PLE      0.61  95 iPgc   02 33.66  -0.5
                  iSg    02 43.76
NKY      0.66 151 iPgc   02 34.86  -0.1
                  iSg    02 45.12
HCY      0.94 183 iPgc   02 39.31  -0.4
                  iSg    02 54.37
TTG      1.09 152 iPgc   02 42.11  -0.1
                  iSg    02 58.92
IVA      1.11 117 iPgc   02 42.76   0.2
                  iSg    03 00.47
BDV      1.12 170 iPgd   02 42.82   0.0
                  iSg    03 00.34
PVY      1.30 127 iPgd   02 45.97   0.0
                  iSg    03 06.46
ULC      1.51 160 iPgd   02 50.36   1.5
     S.D. = 0.7  on   9 of   9 obs.
-----------------------------------
   JUL  07, 1991  02h 00m 50.54± 0.58s
   41.927 N ± 2.2km  125.836 W ± 6.5km
   DEPTH =  10.0km  (geophysicist)
   4.1mb (  5 obs.)
 OFF COAST OF NORTHERN CALIFORNIA( 34)

FHC      1.79 128 iPc    01 21.70   0.0
                  iS     01 45.61
FOX      1.98 135 ePc    01 24.87   0.5
                  iS     01 49.64
WDC      2.83 117 iPc    01 37.12   0.6
LBFM     3.01 100 eP     01 40.30   0.9
LTCM     3.29 120 eP     01 43.00  -0.1
MIN      3.56 115 ePc    01 47.00  -0.2
ORV      4.06 124 iP     01 53.80  -0.2
                  iS     02 42.31
KMOR     4.08  24 P      01 53.72  -0.6
```

```
                    S     02 38.37
VBEM    4.40  43 P      01 58.45   -0.6
NLO     4.50  22 P      02 00.82    0.5
                    S     02 50.06
VLMM    4.54  36 P      02 01.51    0.6
VIPM    4.60  54 P      02 01.31   -0.6
VFP     4.64  42 P      02 03.85    1.3
VLL     4.65  39 P      02 02.96    0.5
CROR    4.67  47 P      02 02.55   -0.2
RVW     4.77  27 P      02 04.70    0.5
                    S     02 56.78
LVP     4.82  30 P      02 04.74   -0.2
                    S     02 57.00
APM     4.85  37 P      02 05.90    0.5
MTMW    4.86  31 P      02 04.85   -0.7
BMW     4.92  22 P      02 05.61   -0.7
                    S     02 58.93
FL2     4.95  29 P      02 06.81    0.0
JLK     4.98  31 P      02 06.91   -0.3
SHW     4.99  30 P      02 15.34    8.0X
HSR     4.99  31 P      02 07.40   -0.1
CDFW    5.00  32 P      02 06.72   -0.7
REMW    5.02  30 P      02 07.90    0.1
ESD     5.03  31 P      02 02.75   -5.2X
VTHM    5.03  48 P      02 07.52   -0.3
GULW    5.03  36 P      02 07.86   -0.1
STD     5.03  30 P      02 07.68   -0.3
ERK     5.05  29 P      02 07.67   -0.5
                    S     03 01.62
SOSW    5.07  30 P      02 08.45    0.1
CZM     5.10  27 P      02 08.44   -0.4
                    S     03 03.25
VGB     5.13  44 P      02 09.40    0.2
TDL     5.13  29 P      02 08.91   -0.5
ASR     5.21  34 P      02 10.14   -0.4
KOSW    5.24  29 P      02 10.72    0.0
LMW     5.38  27 P      02 13.06    0.2
CPW     5.40  20 P      02 12.94   -0.2
GL2     5.42  40 P      02 14.56    1.2
GLK     5.54  32 P      02 14.82   -0.3
JBO     5.60  49 P      02 15.47   -0.5
MHC     5.61 143 eP     02 16.20    0.1
LON     5.62  30 P      02 15.61   -0.6
ARN     5.65 143 eP     02 16.50   -0.1
WPW     5.68  31 P      02 16.72   -0.3
SMW     5.68  17 P      02 16.72   -0.3
GHW     5.71  25 P      02 17.61    0.2
GCC     5.72 147 eP     02 16.81   -0.8
MEW     5.75  22 P      02 19.21    1.4
FMW     5.82  29 P      02 18.93   -0.2
GSM     6.01  27 P      02 21.58   -0.2
GMW     6.03  20 P      02 21.49   -0.3
SAO     6.18 145 eP     02 22.34   -1.6
SPW     6.18  23 P      02 25.05    1.1
RMW     6.23  26 eP     02 24.70   -0.1
EBG     6.25  35 P      02 25.22    0.2
PGW     6.33  20 P      02 26.37    0.3
RSW     6.33  43 P      02 26.49    0.2
STW     6.41  13 P      02 27.53    0.3
BLN     6.41  17 P      02 27.77    0.5
TBM     6.44  34 P      02 28.06    0.3
BLH     6.50  23 P      02 28.45    0.0
HTW     6.55  25 P      02 28.50   -0.8
OHW     6.81  19 P      02 33.03    0.2
JCW     6.85  22 P      02 32.77   -0.7
ETW     6.90  33 P      02 34.16   -0.1
PGC     6.93  13 eP     02 35.00    0.5
MCW     7.08  16 P      02 36.65    0.0
PNT     8.58  28 ePd    02 57.00   -0.6
      0.5s    34.00nm           5.9mb X
LRM    10.42  64 eP     03 22.60   -0.7
MSU    10.99 104 eP     03 32.00    1.0
GOL    15.65  91 eP     04 32.00   -1.0
ALQ    16.69 108 eP     04 47.00    0.8
      0.9s     3.57nm           3.5mb
FFC    20.26  43 eP     05 28.50   -0.1
      0.8s    10.00nm           4.2mb
YKA    21.65  14 eP     05 43.20    0.4
      1.0s     9.00nm           4.1mb
MEO    22.47 100 iPd    05 51.00   -0.2
TUL    24.06  95 eP     06 08.30    1.6
      0.8s     7.20nm           4.3mb
                  e     06 14.30
NB2    71.60  20 P      12 14.60    1.0
      0.8s     1.10nm           4.0mb
    S.D. = 0.6  on  77 of  79 obs.
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&  JUL  07, 1991  02h 58m 38.70s
   46.930 N            120.338 W
   DEPTH =    3.8km
 WASHINGTON                          ( 29)
      <SEA>. MD 3.3 (SEA).

EBG     0.16 263 Pd     58 42.36    0.4
VTG     0.24  83 P      58 43.62    0.0
TBM     0.30 323 Pc     58 45.83    1.1
BVW     0.34 111 Pc     58 46.28    0.8
MXC     0.35 175 P      58 46.16    0.3
NAC     0.39 240 Pd     58 47.76    1.3
TWW     0.42 300 P      58 48.13    1.0
YAKW    0.43 198 P      58 48.46    1.1
BRVW    0.50 152 Pd     58 49.64    0.8
MDW     0.51 128 Pc     58 49.62    0.8
WAH2    0.56 108 P      58 50.25    0.4
                 S      58 59.82
RC1     0.62  88 Pc     58 51.21    0.1
                 S      59 00.74
LOCW    0.66 108 Pc     58 52.23    0.4
                 S      59 02.64
CRF     0.66  99 Pc     58 52.05    0.2
EPH     0.66  50 Pc     58 51.61   -0.3
ETW     0.67   0 Pc     58 51.89   -0.3
                 S      59 03.16
GBL     0.69 119 P      58 52.88    0.4
                 S      59 03.49
RSW     0.75 136 P      58 53.96    0.3
MJ2     0.77 119 P      58 54.21    0.2
OT2     0.79 105 P      58 54.40    0.0
WTV     0.81  19 P      58 54.34   -0.6
WRD     0.82  87 P      58 54.64   -0.4
PRW     0.85 148 P      58 55.77    0.2
WPW     0.86 255 P      58 55.18   -0.7
WIW     0.88 124 P      58 56.20    0.1
CBSW    0.90  13 P      58 55.82   -0.7
FMW     0.91 271 P      58 56.29   -0.6
GLK     0.95 248 P      58 57.22   -0.2
ET3     1.03 110 P      58 58.19   -0.5
LON     1.03 260 P      58 58.17   -0.6
GL2     1.03 199 P      58 58.64   -0.1
GSM     1.03 286 P      58 58.56   -0.3
PATW    1.12 159 P      59 00.69    0.4
DHW2    1.12  20 P      58 59.97   -0.4
RMW     1.13 298 P      59 00.13   -0.4
NLW     1.15 360 P      59 00.26   -0.6
ASR     1.17 228 P      59 01.60    0.5
OD2     1.20  67 P      59 00.92   -0.8
HTW     1.31 312 P      59 03.30   -0.2
GHW     1.33 276 P      59 05.53    1.7
KOSW    1.36 250 P      59 04.15   -0.3
WG3     1.36 131 P      59 03.58   -0.9
LMW     1.37 260 P      59 05.09    0.5
TDL     1.42 247 P      59 05.36   -0.1
CDFW    1.43 236 P      59 05.80    0.2
SPW     1.44 296 P      59 06.58    1.0
VGB     1.45 192 P      59 05.41   -0.4
ESD     1.45 240 P      59 06.68    0.7
BLH     1.47 309 P      59 06.50    0.6
STD     1.47 243 P      59 06.51    0.3
JLK     1.48 239 P      59 06.61    0.4
HSR     1.48 240 P      59 07.14    0.8
JBO     1.51 166 P      59 06.48   -0.1
APM     1.51 218 P      59 07.23    0.5
ERK     1.52 246 P      59 06.97    0.2
FL2     1.57 243 P      59 08.21    0.6
MTMW    1.58 236 P      59 07.81    0.1
JCW     1.66 320 P      59 09.03    0.3
LVP     1.67 240 P      59 09.37    0.4
RPW     1.71 333 P      59 09.81    0.2
DPW     1.73  56 P      59 08.53   -1.3
VLL     1.74 213 P      59 10.48    0.5
VTHM    1.76 185 P      59 09.69   -0.5
LNOR    1.77 126 P      59 11.08    0.7
PGW     1.78 301 P      59 11.66    1.3
GMW     1.78 291 P      59 11.09    0.6
VFP     1.79 206 P      59 11.33    0.5
RVW     1.83 246 P      59 12.30    1.0
BMW     2.04 258 P      59 15.85    1.5
VBEM    2.06 205 P      59 15.14    0.4
SMW     2.09 282 P      59 16.46    1.5
MCW     2.43 317 P      59 22.17    2.3
PNT     2.44  11 P      59 19.00   -1.0
      0.5s    19.00nm
      73 obs. associated
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*  JUL  07, 1991  03h 07m 58.15± 0.76s
   14.247 S ±16.2km   14.203 W ±12.2km
   DEPTH =  10.0km  (geophysicist)
   4.3mb (  6 obs.)  4.0Msz (  3 obs.)
 SOUTH ATLANTIC RIDGE                (410)

LIC    22.28  25 P      12 56.12   -1.1
     Z  20s     0.24um           3.6Msz
KIC    22.52  25 P      12 58.70   -0.9
      0.8s     7.00nm           4.2mb
TIC    22.67  24 P      13 01.64    0.6
      0.8s     8.00nm           4.3mb
SOB1   26.60 278 eP     13 37.80   -0.9
LSZ    40.96  97 iPd    15 42.00   -1.1
                 i      15 49.80
SIV    45.21 262 P      16 23.00    5.4X
ZOBO   51.94 260 P      17 10.00   -0.4
     Z  20s     0.18um           4.1Msz
                 LR     32 52.00
SDI    61.39  24 P      18 17.20    0.4
SKO    64.87  29 eP     18 39.00   -0.7
                 e      18 46.70
KKB    65.57  30 eP     18 45.00    0.8
MMB    65.67  30 eP     18 45.00    0.1
RZN    66.23  31 eP     18 49.00    0.3
KDZ    66.56  31 iPd    18 50.00   -0.6
GRF    67.49  18 eP     18 55.70   -0.7
      1.3s    14.00nm           5.0mb
     Z  18s     0.10um           4.1Msz
KHC    67.72  19 P      19 04.00    6.1X
                 e      19 19.00
                 PP     21 23.00
                 i      21 30.00
ZST    68.13  22 eP     19 00.80    0.5
                 e      19 07.80
MOX    68.46  17 eP     19 10.00    7.6X
PRU    68.78  19 eP     19 11.00    6.6X
EKA    69.93   7 Pd     19 12.60    1.3
      0.8s     2.50nm           4.4mb
SPC    70.12  23 e(P)   19 12.60   -0.2
KRA    70.71  23 eP     19 15.80   -0.4
                 e      19 23.30
HFS    77.46  14 eP     19 55.10    0.1
      0.6s     1.10nm           4.1mb
     Z  17s     0.08um           4.1MszX
                 LR     53 48.00
NB2    77.72  12 P      19 57.40    0.8
      0.7s     2.20nm           4.4mb
MAT   146.83  43 ePKP   27 43.00    2.2
     S.D. = 0.9  on  20 of  24 obs.
-----------------------------------
%  JUL  07, 1991  03h 50m 19.92± 1.64s
   39.141 N ± 8.6km   15.415 E ±16.2km
   DEPTH =  33.0km  (normal)
 SOUTHERN ITALY                      (390)

CZI     0.56  82 P      50 32.20    0.8
                 eS     50 43.50
ACI     0.65  71 P      50 33.20    0.6
TDS     0.88  54 P      50 35.40   -0.6
                 eSg    50 48.40
CSI     0.93  47 P      50 36.50   -0.1
                 eS     50 50.90
ROI     0.99  64 P      50 36.70   -0.9
                 eS     50 52.30
MGR     1.00   6 P      50 37.90    0.2
                 eSg    50 52.90
SOI     1.18 155 P      50 39.90   -0.2
                 eSg    50 55.90
     S.D. = 0.7  on   7 of   7 obs.
-----------------------------------
   JUL  07, 1991  04h 01m 01.66± 0.90s
   15.611 N ± 5.6km  120.981 E ± 8.1km
   DEPTH =  28.0 ±  7.0 km
   4.8mb ( 17 obs.)  4.0Msz (  2 obs.)
 LUZON, PHILIPPINE ISLANDS           (249)

BAG     0.88 334 iPc+   01 16.50   -1.8
QCP     0.97 175 eP     01 26.00    6.6X
SZP     2.00 345 ePc    01 26.00   -8.1X
                 eS     02 08.50
PGP     2.10 181 iPd    01 26.50   -9.1X
                 eS     02 09.00
CVP     2.23  21 eP     01 37.50    0.0
                 eS     02 04.00
PIP     2.72 353 iPd    01 46.00    1.6
                 iS     01 56.00
```

07d 04h

```
PLP      5.89 138 ePc    02 29.50    0.2
MAP      6.01 151 eP     02 33.50    2.4
PPR      6.20 201 iPd    02 33.50   -0.2
CGP      7.98 153 eP     03 02.00    3.2X
DAV      9.59 152 eP     03 22.00    1.0
QIZ     11.17 289 Pc     03 41.00   -1.6
      N  14s      0.80um
SSE     15.42   1 Pc     04 41.70    2.9X
        0.8s    10.00nm          4.1mb
      Z  20s      0.50um          4.7MszX
      E  16s      0.50um
WHN     16.06 339 P      04 56.00    8.9X
NJ2     16.48 354 Pc     04 59.00    6.5X
      Z  18s      0.30um
                   pP    05 06.00
GYA     17.16 311 P      05 06.20    4.9X
      Z  18s      1.30um
      N  16s      0.70um
      E  16s      0.50um
KMI     19.53 302 eP     05 33.00    2.7
        1.4s    40.00nm          4.5mb
TIA     20.80 351 eP     05 43.70    0.4
CHTO    21.29 282 eP     05 49.90    1.5
        1.0s     9.25nm          4.2mb
XAN     21.33 332 eP     05 50.30    1.6
CD2     21.91 317 P      05 54.80    0.2
        0.7s    40.00nm          5.0mb
TIY     23.28 343 eP     06 10.00    2.0
      Z  14s      0.60um          4.2MszX
      E  14s      0.46um
                   S    10 26.00
TRT     24.60 200 ePc    06 22.60    1.8
BJI     24.70 351 eP     06 21.50   -0.1
        1.0s    13.00nm          4.5mb
      Z  20s      0.30um          3.8Msz
                  eS    10 54.00
                  eSS   12 00.00
LZH     25.49 326 eP     06 29.00   -0.4
        2.0s    39.00nm          4.7mb
      Z  15s      0.48um          4.1MszX
      E  12s      0.31um
                  sP    06 45.00
                  PP    07 09.00
                  esS   11 10.00
SNY     26.22   4 eP     06 35.00   -0.9
HHC     26.44 344 eP     06 40.00    1.8
CN2     28.35   7 eP     07 01.00    5.7X
      Z  16s      0.58um          4.3MszX
GTA     30.09 326 eP     07 10.40   -0.8
      Z  18s      0.50um          4.2Msz
      E  10s      0.30um
GUN     34.70 297 P      07 51.30   -0.5
        0.9s    54.00nm          5.5mb
PKI     35.03 296 P      07 53.78   -0.8
        0.8s     9.00nm          4.8mb
KKN     35.19 296 P      07 55.14   -0.6
        0.9s    33.00nm          5.3mb
DMN     35.30 296 P      07 56.16   -0.6
        1.0s    38.00nm          5.3mb
GKN     35.79 296 P      07 59.78   -1.0
        0.9s    26.00nm          5.2mb
WB2     37.70 159 iPd    08 14.90   -1.8
        0.7s    15.90nm          5.0mb
WMQ     39.87 322 eP     08 36.20    1.5
      Z  16s      0.30um          4.2MszX
                  eS    14 48.00
QIS     40.33 152 iPc    08 37.50   -1.1
ASPA    41.03 162 iPd    08 44.00   -0.3
        0.7s    26.20nm          5.1mb
YAK     46.76   6 eP     09 28.80   -1.3
STK     51.19 157 eP     10 03.30   -1.4
        0.6s     4.40nm          4.6mb
BRS     52.71 144 iPc    10 16.00   -0.3
TOO     57.70 157 iPd    10 52.40    0.2
MAIO    58.05 303 eP     10 55.00    0.1
IMA     73.97  25 eP     12 35.90   -0.3
        1.1s     5.20nm          4.5mb
OBN     74.15 324 eP     12 43.00    5.7X
                  e     12 54.00
                  e     14 03.00
PMR     76.36  29 e(P)   12 47.60   -2.2
INK     81.23  21 eP     13 18.00    1.9
MBC     81.63  12 eP     13 18.00   -0.1
HFS     84.94 331 eP     13 34.00   -1.2
        0.5s     2.50nm          4.7mb
KRA     85.10 321 eP     13 36.20    0.0
NB2     85.70 333 P      13 37.60   -1.5
        0.8s     6.90nm          4.9mb
KSP     87.02 322 eP     13 45.60   -0.2
KHC     89.29 321 P      13 50.50   -6.2X
                  e     14 07.50
YKA     90.92  23 eP     14 14.40   10.5X
        0.8s     0.90nm
      S.D. = 1.3  on  42 of  54 obs.
-----------------------------------
*  JUL  07, 1991  05h 37m 49.84± 0.76s
   19.590 S ± 8.2km   71.509 W ±12.3km
   DEPTH =  10.0km  (geophysicist)
   4.5mb (  2 obs.)
 OFF COAST OF NORTHERN CHILE        (121)

ARE      3.11   0 iPc    38 40.50    0.3
                  iS    39 14.50
ANT      4.22 166 eP     38 55.50   -0.1
CNCB     4.35  51 P      38 57.00   -1.0
                  i     39 05.00
LPB      4.45  47 P      39 00.00    0.7
        1.1s   759.49nm
                  i     39 07.00
ZOBO     4.61  45 P      39 02.00    0.2
                  i     40 30.00
CCH      5.55  68 eP     39 24.90   10.1X
PT10     9.13 324 eP     40 17.00   12.3X
                  eS    41 52.00
NNA      9.14 325 eP     40 10.80    6.0X
        0.6s     7.33nm          5.2mb X
                  eS    41 45.60
SIV     10.57  72 P      40 17.00   -7.5X
TUL     59.80 337 eP     47 56.40   -1.2
        0.8s     4.00nm          4.6mb
                  e     48 06.80
YKA     88.60 341 eP     50 44.30    0.5
        0.7s     1.60nm          4.4mb
WRA    133.25 214 PKP    57 09.00    0.5
        1.0s     1.20nm
MAT    148.98 309 ePKP   57 42.00    6.2X
      S.D. = 0.9  on   8 of  13 obs.
-----------------------------------
   JUL  07, 1991  05h 39m 12.76± 0.86s
   38.649 N ± 8.6km   21.164 E ± 7.0km
   DEPTH =  10.0km  (geophysicist)
 GREECE                             (364)
      MD 3.0 (ATH).

VLS      0.65 224 ePg    39 26.00    0.2
AGG      0.98  67 ePc    39 30.82   -0.6
                  iS    39 46.10
IGT      1.09 324 eP     39 31.98   -1.3
                  eS    39 47.62
KEK      1.50 315 ePn    39 40.00    0.3
KZN      1.72  16 ePb    39 45.00    2.0
LIT      1.78  35 ePd    39 43.61   -0.1
                  eS    40 07.98
FNA      2.14   4 eP     39 49.30    0.3
                  eS    40 18.78
PAIG     2.33  56 eP     39 51.54   -0.2
VLI      2.39 143 ePb    40 03.00   10.5X
GRG      2.49  22 eP     39 54.26    0.2
KNT      2.84  27 ePc    39 57.90   -1.1
SRS      3.09  36 eP     40 02.86    0.4
      S.D. = 1.0  on  11 of  12 obs.
-----------------------------------
?  JUL  07, 1991  06h 56m 04.20± 2.37s
   12.238 S ±55.4km   74.927 W ±23.6km
   DEPTH =  33.0km  (normal)
 PERU                               (116)

NNA      1.89 277 iPd    56 33.70   -1.1
        0.4s    33.90nm
                  iS    56 56.00
PT10     2.00 274 eP     56 37.50    1.1
                  eS    56 58.50
ARE      5.36 142 eP     57 24.00   -0.3
ZOBO     7.72 122 P      57 57.20   -0.5
LPB      7.87 124 eP     58 07.00    7.3X
CNCB     8.12 125 eP     58 04.00    0.7
      S.D. = 1.3  on   5 of   6 obs.
-----------------------------------
?  JUL  07, 1991  09h 28m 39.47± 1.42s
   18.423 N ±10.0km  147.681 E ±32.0km
   DEPTH =  33.0km  (normal)
   4.8mb (  4 obs.)
 MARIANA ISLANDS REGION             (215)

GUMO     5.52 210 eP     30 01.70    0.2
        0.7s   111.82nm          5.5mb
                  eS    30 57.30
PJG      5.52 210 eP     30 01.80    0.3
GUA      5.54 209 eP     30 01.30   -0.5
        0.7s    54.79nm          5.2mb
MAT     19.89 337 eP     33 11.00    0.0
                  eS    33 43.00
ASPA    43.94 198 eP     36 45.10   -0.1
        0.8s     6.60nm          4.5mb
STK     50.36 187 eP     37 35.50    0.1
        0.5s     1.70nm          4.3mb
      S.D. = 0.4  on   6 of   6 obs.
-----------------------------------
%  JUL  07, 1991  09h 57m 30.05± 0.64s
   40.674 N ± 5.5km   15.717 E ± 5.1km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN ITALY                     (390)

SGO      0.33 250 Pd     57 37.30    0.4
                  eSg   57 41.90
MGR      0.55 193 Pc     57 40.30   -0.9
                  eSg   57 48.40
MMN      0.81 165 P      57 46.20    0.5
ORI      0.83 137 P      57 46.20    0.1
                  eSg   57 58.10
BAI      0.98  63 P      57 49.00    0.4
                  eSg   58 02.00
CSI      1.00 154 P      57 49.60    0.6
TDS      1.12 155 P      57 52.00    1.0
BRT      1.15  79 P      57 50.60   -0.9
                  eSg   58 07.70
DUI      1.37 316 P      57 58.30    3.1X
CZI      1.49 167 P      57 56.40   -0.4
SDI      1.77 306 P      58 01.00    0.1
SOI      2.61 174 P      58 12.00   -1.0
      S.D. = 0.8  on  11 of  12 obs.
-----------------------------------
*  JUL  07, 1991  10h 02m 47.51± 0.57s
   71.899 N ± 9.7km    0.882 W ±10.6km
   DEPTH =  10.0km  (geophysicist)
   4.4mb ( 13 obs.)  3.5Msz (  2 obs.)
 JAN MAYEN ISLAND REGION            (639)

TRO      6.91 100 eP     04 30.80   -0.4
NB2     11.89 150 P      05 37.50   -2.4
        0.6s     0.90nm          4.2mb
HFS     13.15 146 eP     05 55.70   -1.0
        0.7s    10.80nm          5.1mb
KAF     14.29 119 iP     06 10.90   -0.7
        0.6s     6.40nm          4.5mb
NUR     15.20 126 eP     06 22.60   -0.8
CLL     21.57 156 eP     07 44.00    5.2X
        2.3s    51.00nm          4.5mb
MOX     22.06 158 eP     07 49.50    5.8X
        1.5s    12.00nm          4.1mb
BRG     22.13 155 eP     07 54.20    9.9X
        1.8s    36.00nm          4.5mb
KSP     22.49 151 eP     07 48.80    0.8
                  e     07 55.20
PRU     23.07 154 eP     07 57.00    3.3X
OBN     23.09 117 ePd    07 56.00    2.2
        1.0s  *******nm          7.8mb X
      Z  16s      0.70um          4.2MszX
      N  16s      0.60um
                  e     08 10.00
                  e     08 25.00
                  e     08 32.00
FLN     23.21 179 eP     07 55.10    0.1
        1.0s    10.00nm          4.3mb
      Z  20s      0.17um          3.5Msz
LDF     23.39 179 eP     07 56.10   -0.6
        1.0s    16.00nm          4.5mb
KHC     23.79 156 eP     08 05.50    4.8X
                  e     08 10.00
KRA     23.86 145 eP     08 03.30    2.0
                  e     08 09.40
LPF     23.95 180 eP     08 01.80   -0.3
        1.0s    16.00nm          4.6mb
SPC     24.75 146 eP     08 19.10    9.0X
LOR     24.81 172 eP     08 12.00    1.4
        1.0s     8.00nm          4.3mb
      Z  20s      0.15um          3.5Msz
SSF     25.00 173 eP     08 13.30    0.9
        0.9s     4.90nm          4.2mb
ZST     25.19 151 eP     08 21.00    6.8X
MBC     27.55 333 eP     08 36.00    0.3
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INK     36.58 333 eP     09 54.00   -0.6
YKA     38.47 317 eP     10 11.00    0.4
        1.0s      1.60nm          3.7mb
SES     48.63 307 eP     11 33.00    0.2
ALQ     61.79 296 eP     13 07.00   -1.6
        1.0s      2.00nm          4.2mb
      S.D. = 1.3  on  18 of  25 obs.
-------------------------------------
*  JUL  07, 1991  10h 56m 01.74± 1.59s
   34.123 N ±15.8km   22.744 E ± 5.3km
   DEPTH =  41.9 ± 14.8 km
   3.8mb (  2 obs.)
 MEDITERRANEAN SEA                (400)

VLI      2.59   3 eP     56 47.00    4.9X
NPS      2.62  64 eP     56 43.70    1.1
ATH      3.92  11 eP     56 59.80   -1.2
KEK      6.06 338 eP     57 32.00    0.9
KZN      6.22 353 eP     57 35.00    1.5
ELL      6.41  64 iPn    57 35.30   -0.9
SOI      6.70 308 Pd     57 40.00   -0.1
MEU      7.02 297 P      57 44.00   -0.8
ATN      7.14 306 P      57 47.10    0.8
LCI      7.28 330 P      57 47.70   -0.5
CZI      7.35 316 P      57 49.50    0.3
                  eS     59 03.60
ROI      7.35 319 P      57 49.80    0.5
TDS      7.54 319 P      57 52.30    0.4
CSI      7.65 319 P      57 52.40   -1.1
ORI      7.77 322 P      57 55.70    0.5
MMN      7.89 319 P      57 57.80    1.0
SKO      7.90 353 eP     57 56.00   -1.0
GIB      8.04 301 P      57 59.00    0.0
BRT      8.05 328 P      57 59.20    0.2
MGR      8.30 318 P      58 02.00   -0.5
SGO      8.73 320 P      58 07.80   -0.6
SDI     10.34 320 P      58 29.50   -1.1
HFS     26.69 350 eP     01 38.50    0.0
        0.4s      2.70nm          4.2mb
NB2     27.94 348 P      01 50.40    0.4
        0.5s      0.50nm          3.4mb
      S.D. = 0.9  on  23 of  24 obs.
-------------------------------------
   JUL  07, 1991  11h 01m 09.18± 0.41s
   44.628 N ± 4.3km   10.042 E ± 4.5km
   DEPTH =  17.1 ±  6.4 km
 NORTHERN ITALY                   (545)
      ML 2.7 (LDG).

BOB      0.45 288 Pd     01 18.40    0.1
                  eSg    01 26.40
MME      0.64 132 P      01 22.30    0.6
                  eSg    01 33.10
BDI      0.69 145 Pd     01 22.50    0.0
                  eSg    01 33.50
PII      0.97 159 P      01 28.20    1.1
                  eSg    01 41.40
SAL      1.04  19 P      01 28.30    0.0
                  eSn    01 44.00
MDI      1.17 349 P      01 30.40   -0.2
                  eSg    01 47.20
CKI      1.28 261 P      01 32.50    0.3
                  eSn    01 51.00
PGD      1.42 121 P      01 32.80   -1.6
SFI      1.48 118 P      01 38.40    3.4X
CRE      1.70 125 P      01 40.50    2.2X
CTI      1.82  38 P      01 39.40   -0.6
DOI      2.00 267 P      01 44.50    1.8
SBF      2.02 249 Pn     01 43.60    0.6
                  Sn     02 07.90
PGF      2.21 200 Pn     01 43.90   -1.9
                  Sn     02 10.80
ARV      2.38 117 P      01 49.00    1.0
LPL      2.51 292 Pn     01 50.40    0.3
FRF      2.67 248 Pn     01 51.80   -0.4
                  Sn     02 22.80
FVI      2.75  43 P      01 53.00   -0.2
TRI      2.85  66 eP     01 49.20   -5.4X
                  i      02 27.10
LMR      2.86 244 Pn     01 53.80   -1.0
                  Sn     02 27.00
WTTA     2.86  22 iPgd   01 56.40    1.4
                  e      02 32.00
                  i(Sg)  02 39.40
LRG      2.90 247 Pn     01 55.60    0.2
                  Sn     02 30.00
HAU      4.24 324 Pn     02 13.00   -1.4
                  Sn     03 00.50
KHC      5.11  27 P      03 01.00   34.2X
      S.D. = 1.1  on  20 of  24 obs.
-------------------------------------
&  JUL  07, 1991  11h 25m 31.13s
   63.376 N          151.264 W
   DEPTH =  10.6km
 CENTRAL ALASKA                   (  1)
      <AEIC>. ML 3.0 (AEIC).

KTH      0.24  41 iPc    25 35.80   -0.5
TRF      0.45  80 iPc    25 39.96   -0.3
                  eS     25 46.80
HUR      0.84 118 ePd    25 47.11   -0.2
                  S      25 59.15
CUT      1.08 155 iPd    25 51.58    0.3
                  eS     26 06.14
RND      1.09  87 ePd    25 51.24   -0.3
                  eS     26 05.99
MCK      1.10  70 ePc    25 51.55   -0.2
                  eS     26 07.01
BWN      1.13  44 ePc    25 52.28    0.0
                  eS     26 09.33
SKT      1.41 185 iPd    25 56.61   -0.1
                  eS     26 15.20
NEA      1.54  38 eP     25 56.61   -2.0
                  eS     26 18.85
WRH      1.78  50 ePc    26 00.16   -1.9
                  S      26 26.82
PWA      1.85 159 eP     26 02.93   -0.1
                  S      26 28.32
SUA      1.93 173 ePc    26 04.40    0.0
GHO      1.94 145 ePc    26 04.27   -0.2
CCB      1.99  49 iPc    26 02.90   -2.1
RDS      2.00  42 eP     26 03.01   -2.2
NCG      2.02 192 eP     26 05.17   -0.5
PLRM     2.05 150 ePd    26 05.41   -0.5
MDM      2.07  39 iPc    26 04.00   -2.3
                  eS     26 32.82
CGLM     2.10 190 eP     26 06.87    0.0
FBA      2.16  43 eP     26 05.26   -2.3
                  eS     26 34.19
BGL      2.18 194 eP     26 08.34    0.3
TTA      2.20 260 eP     26 07.85   -0.4
                  eS     26 36.66
SPU      2.23 190 ePd    26 09.00    0.3
                  eS     26 39.24
CKL      2.24 193 eP     26 08.95    0.0
PMS      2.28 159 eP     26 09.20   -0.2
                  eS     26 40.24
GLM      2.34  45 eP     26 08.10   -2.2
KNK      2.37 145 eP     26 10.45   -0.1
                  eS     26 42.55
NKA      2.64 180 eP     26 16.90    2.5
PAX      2.66  96 eP     26 14.90    0.1
TOA      2.67 116 ePc    26 15.26    0.4
SDG      2.75 105 ePc    26 16.45    0.4
                  eS     26 51.79
RDT      2.86 191 eP     26 18.20    0.5
DFR      2.87 194 eP     26 18.71    0.9
IMA      2.90 340 eP     26 16.02   -2.1
SLKM     2.92 170 eP     26 18.62    0.2
NCT      2.93 196 eP     26 19.16    0.5
RDN      2.96 195 eP     26 20.02    1.0
REF      2.98 194 eP     26 21.05    1.7
RDW      2.99 195 eP     26 20.62    1.0
TZL      3.00 114 eP     26 19.98    0.4
RS2      3.01 194 eP     26 20.12    0.3
RSO      3.01 194 eP     26 21.65    1.9
KLU      3.12 125 ePc    26 22.23    1.0
GLI      3.18 140 eP     26 22.62    0.6
VZW      3.20 134 ePd    26 22.88    0.4
VLZ      3.22 132 ePd    26 22.91    0.3
SEW      3.40 164 eP     26 27.62    2.5
KNIM     3.47 150 eP     26 24.45   -1.7
PDB      3.86 203 eP     26 31.43   -0.3
CNPM     3.86 180 eP     26 31.96    0.2
GLB      3.97 116 ePc    26 34.22    0.9
        51 obs. associated
-------------------------------------
   JUL  07, 1991  11h 25m 36.42± 0.49s
   35.420 N ± 3.9km    6.357 W ± 6.5km
   DEPTH =  33.0km  (normal)
 STRAIT OF GIBRALTAR              (385)
      mbLg 3.8 (MDD). MD 3.8 (RBA).

NKM      0.77  88 iPgc   25 51.90    1.0
                  i      25 56.00
                  i      25 57.00
                  iSg    25 59.00
PLAT     0.85  35 eP     25 56.14    4.1X
SFS      1.05   7 eP     25 58.55    3.8X
EJIF     1.26  35 ePn    26 00.00    2.2
                  eSn    26 14.00
ALJ      1.39  26 eP     26 06.32    6.5X
GIBL     1.44  13 eP     26 03.38    2.9X
RBA      1.46 196 iPgd   26 01.00    0.3
                  e      26 14.00
                  i      26 15.50
                  iSg    26 17.50
EPRU     1.79  30 ePn    26 07.47    1.9
                  eSn    26 28.30
MAL      2.05  50 iP     26 11.50    2.3X
                  iS     26 33.50
IFR      2.15 151 iPn    26 10.50   -0.4
                  i      26 16.50
                  i      26 20.50
                  iSn    26 34.50
EVAL     2.18 352 iPnd   26 13.21    2.1
                  eSn    26 37.20
AVE      2.29 203 iPnd   26 13.20    0.6
                  i      26 32.00
                  iSn    26 37.50
                  i      26 39.00
EHOR     2.56  20 iPnd   26 18.29    1.8
                  eSn    26 46.00
EGUA     2.66  57 ePn    26 18.11    0.1
                  eSn    26 47.60
EMEL     2.78  91 ePn    26 19.82    0.2
                  eSn    26 49.80
AFC      2.92  50 ePn    26 23.00    1.3
                  eSn    26 54.90
EBAN     3.43  36 ePn    26 29.96    1.1
                  eSn    27 07.90
ENIJ     3.70  64 ePn    26 32.77    0.1
                  eSn    27 13.50
EHUE     3.86  51 eP     26 36.45    1.5
                  eS     27 17.80
EVIA     4.45  43 iPnd   26 44.02    0.5
                  eSn    27 31.00
TIO      4.54 190 iPn    26 44.00   -0.8
                  i      27 21.40
                  iSn    27 32.00
EPLA     4.64   3 ePn    26 46.73    0.7
                  eSn    27 36.50
GUD      5.50  18 ePn    26 59.00    0.8
                  eSn    27 57.00
ECHE     5.97  44 ePn    27 04.09   -0.8
                  eSn    28 08.60
ETOR     6.37  31 iPnd   27 10.45    0.0
                  eSn    28 19.00
EZAM     6.96 346 ePn    27 18.78    0.1
                  eSn    28 34.00
ERUA     6.99 355 ePn    27 19.39    0.3
                  eSn    28 34.60
EROQ     7.58  43 ePn    27 26.62   -0.8
                  eSn    28 49.00
STS      7.65 348 ePn    27 28.52    0.2
                  eSn    28 50.30
ECRI     7.78  21 ePn    27 30.75    0.6
                  eSn    28 54.10
LHE      8.71  29 P      27 43.66    0.6
BOH      8.72  27 P      27 43.92    0.6
ISSF     8.74  28 P      27 43.85    0.3
ELYF     8.78  27 P      27 44.42    0.3
ATE      8.82  28 P      27 44.94    0.3
MADF     8.83  27 P      27 45.02    0.3
ESCF     8.86  29 P      27 45.04   -0.2
JAU      8.91  30 P      27 46.41    0.4
OGE      8.98  29 P      27 47.10    0.3
EPF      9.20  32 Pn     27 49.20   -0.7
                  Sn     29 23.80
LPO     10.90  30 Pn     28 12.00   -1.2
                  Sn     30 05.40
LFF     10.94  28 Pn     28 12.50   -1.2
                  Sn     30 06.30
CAF     11.47  32 Pn     28 19.20   -1.7
                  Sn     30 17.40
RJF     11.55  29 Pn     28 20.60   -1.3
                  Sn     30 20.00
MFF     12.11  21 Pn     28 28.80   -0.7
LSF     12.35  26 Pn     28 31.00   -1.7
                  Sn     30 36.80
TCF     12.64  28 Pn     28 34.80   -1.7
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07d 11h

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MAF     12.72  29 Pn     28 36.00  -1.7
BGF     13.11  29 Pn     28 41.40  -1.4
                Sn       30 57.00
LPF     13.21  16 Pn     28 43.20  -0.8
AVF     13.50  30 Pn     28 47.00  -0.9
GRR     13.58  16 Pn     28 48.20  -0.8
SSF     13.78  29 Pn     28 51.00  -0.6
LDF     13.95  17 Pn     28 53.10  -0.7
FLN     14.02  16 Pn     28 54.00  -0.8
LOR     14.09  30 Pn     28 54.20  -1.5
DOU     16.70  25 P      29 31.00   1.7
KHC     20.05  41 eP     30 06.00  -3.5X
      S.D. = 1.1  on  52 of  58 obs.
-----------------------------------
*  JUL  07, 1991  11h 38m 46.09± 2.09s
   14.196 S ±30.2km   75.930 W ±27.3km
   DEPTH =  75.8 ± 14.7 km
   4.5mb (  4 obs.)
 NEAR COAST OF PERU                (115)
      Felt at Ica. Also felt lightly
      at Lima.

PT10     2.34 334 eP     39 23.00  -0.1
                eS       40 00.00
NNA      2.37 338 iP     39 24.00   0.4
       0.8s    175.37nm
                i        39 28.70
                eS       39 56.00
ARE      4.84 118 eP     39 58.00  -0.3
                iS       40 52.00
ZOBO     7.81 106 P      40 39.20  -0.6
                S        42 40.00
                LR       43 44.00
LPB      7.90 108 P      40 42.20   1.3
CNCB     8.09 110 P      40 43.20  -0.5
CCH      9.94 110 (P)    40 53.00 -15.7X
                e        41 08.00
TUL     53.26 340 eP     47 58.10  -1.1
       1.0s      9.50nm          4.8mb
ALQ     56.81 330 eP     48 25.20   0.0
       0.9s      2.31nm          4.3mb
ANMO    56.81 330 eP     48 24.70  -0.5
       1.0s      1.00nm          3.9mb
MBC     93.90 351 eP     51 57.00   1.2
       1.0s      4.00nm          4.8mb
WRA    134.86 222 PKP    57 59.00   0.2
       0.7s      1.10nm
      S.D. = 0.9  on  11 of  12 obs.
-----------------------------------
&  JUL  07, 1991  12h 00m 57.21s
   61.814 N          149.623 W
   DEPTH =  40.2km
 SOUTHERN ALASKA                   (  2)
      <AEIC>. ML 3.1 (AEIC), 3.6
      (PMR).

PWA      0.20 217 iPd    01 05.10   0.6
PLRM     0.32 133 iPd    01 04.95  -0.8
                eS       01 12.43
PMR      0.32 133 iPd    01 05.40  -0.3
GHO      0.33  97 iPd    01 05.43  -0.6
                eS       01 12.09
PMS      0.57 177 iPd    01 08.52  -0.5
SUA      0.64 237 iPc    01 09.50  -0.5
                eS       01 20.28
CUT      0.67 333 iPc    01 09.39  -0.8
KNK      0.69 125 iPd    01 09.79  -0.8
                eS       01 19.95
SKT      0.92 281 iPc    01 12.98  -0.8
                eS       01 26.06
SCM      1.09  88 eP     01 15.21  -1.1
HUR      1.17 360 eP     01 16.62  -0.7
                eS       01 31.44
CGLM     1.25 247 iPc    01 18.54   0.0
NCG      1.28 252 iPc    01 18.50  -0.5
                eS       01 36.71
NKA      1.33 217 ePd    01 20.91   1.3
SPU      1.33 243 iPc    01 19.40  -0.2
                eS       01 37.19
SLKM     1.34 193 eP     01 18.97  -0.9
BGL      1.44 249 iPc    01 21.15  -0.1
CKL      1.44 246 iPc    01 21.07  -0.3
GLI      1.54 126 iPc    01 21.40  -1.2
RND      1.64  12 eP     01 23.32  -0.8
TOA      1.66  78 iPc    01 24.50   0.2
VZW      1.66 116 iPc    01 23.19  -1.2
TRF      1.67 350 ePd    01 23.71  -0.9
VLZ      1.72 112 iPc    01 23.74  -1.4
                eS       01 46.03
KNIM     1.73 147 iPc    01 23.17  -2.2
KLU      1.80  99 iPc    01 25.13  -1.2
RDT      1.83 229 eP     01 26.06  -0.8
KTH      1.85 342 ePd    01 26.32  -0.7
DFR      1.92 232 ePc    01 27.60  -0.6
MCK      1.95   9 ePd    01 27.91  -0.6
NNL      1.96 205 eP     01 29.43   0.8
LTI      1.98 153 ePd    01 26.78  -2.1
REF      2.00 230 eP     01 28.51  -0.9
TZL      2.00  82 eP     01 28.85  -0.4
RDN      2.00 231 eP     01 28.59  -0.8
NCT      2.04 233 ePc    01 29.23  -0.6
RSO      2.04 230 eP     01 29.30  -0.7
RS2      2.04 230 ePc    01 29.32  -0.6
RDW      2.04 231 ePc    01 29.62  -0.4
SDG      2.04  68 iPc    01 29.34  -0.6
MTU      2.07 151 eP     01 28.32  -1.9
HIN      2.08 132 ePc    01 28.70  -1.7
PAX      2.26  57 ePc    01 32.23  -0.8
CVA      2.27 122 ePc    01 31.00  -2.0
CNPM     2.43 200 eP     01 34.91  -0.5
SGAM     2.51 120 eP     01 34.43  -2.1
WRH      2.76  14 eP     01 37.51  -2.4
RAGM     2.80 119 eP     01 38.64  -1.9
GLB      2.80  95 iPc    01 38.61  -2.0
CCB      2.96  15 ePc    01 40.90  -1.9
SVW      2.97 259 eP     01 42.00  -0.9
HMT      3.00 117 eP     01 40.41  -3.0
PDB      3.02 230 eP     01 41.90  -1.8
RDS      3.10  12 eP     01 42.61  -2.2
TTA      3.18 293 eP     01 44.80  -1.3
FBA      3.21  14 ePc    01 44.40  -2.0
MDM      3.22  11 ePd    01 44.49  -2.1
TGL      3.45 105 eP     01 48.09  -1.8
WAX      3.56 110 eP     01 49.13  -2.3
BALM     3.58  99 eP     01 48.93  -2.9
IMA      4.63 339 eP     02 04.40  -2.3
        61 obs. associated
-----------------------------------
   JUL  07, 1991  12h 03m 36.95± 1.11s
   45.095 N ± 9.3km    2.942 E ± 7.3km
   DEPTH =   5.0km  (geophysicist)
 FRANCE                            (538)
      ML 2.5 (LDG).

LBL      0.26  57 Pg     03 41.41  -0.7
                Sg       03 44.61
CAF      0.65 255 Pg     03 49.40  -0.5
                Sg       03 59.20
PYM      0.66   4 Pg     03 49.65  -0.5
                Sg       03 58.80
AGO      0.97   8 Pg     03 55.35  -0.5
PLDF     1.00  28 Pg     03 55.61  -0.7
                Sg       04 08.79
RJF      1.03 282 Pn     03 56.60  -0.3
                Pg       03 57.60
                Sg       04 10.40
MAF      1.16 347 Pn     03 59.20   0.2
                Sg       04 13.60
TCF      1.30 337 Pg     04 01.60   0.1
                Sg       04 18.00
LPO      1.31 252 Pn     04 01.20  -0.5
                Pg       04 02.40
                Sg       04 19.60
LSF      1.52 320 Pn     04 03.80  -1.1
                Pg       04 05.80
                Sg       04 24.10
LFF      1.57 265 Pg     04 07.00   1.5
                Sg       04 27.00
SMF      1.67  22 Pn     04 05.30  -1.7X
                Pg       04 07.60
AVF      1.72   9 Pg     04 09.00   1.3
                Sg       04 30.70
SSF      2.01  11 Pg     04 14.80   3.0X
                Sg       04 38.80
LBF      2.02  21 Pg     04 13.80   1.7
                Sg       04 39.20
LOR      2.27  16 Pg     04 19.00   3.4X
                Sg       04 47.00
      S.D. = 1.0  on  13 of  16 obs.
-----------------------------------
?  JUL  07, 1991  12h 27m 22.13± 2.06s
   15.430 S ±41.6km  173.653 W ±24.1km
   DEPTH = 140.4 ± 38.5 km
   4.6mb (  4 obs.)
 TONGA ISLANDS                     (173)

AFI      2.36  50 iPc    28 01.60   0.0
                eS       28 31.00
DZM     19.96 248 iPc    31 46.30   0.7
CMS     40.20 239 eP     34 45.70  -0.7
TOO     42.26 231 iPc    35 02.40  -0.8
STK     43.81 240 iPc    35 15.80   0.0
       0.6s      5.00nm          4.4mb
WB2     49.59 257 eP     36 01.20   0.0
WRA     49.60 257 P      36 01.00  -0.3
       0.4s      2.80nm          4.4mb
ASPA    49.87 252 iPc    36 03.70   0.4
       0.6s      8.60nm          4.7mb
CSY     70.28 205 eP     38 22.30   0.6
       0.5s      7.90nm          4.8mb
      S.D. = 0.7  on   9 of   9 obs.
-----------------------------------
*  JUL  07, 1991  13h 14m 28.82± 1.22s
   23.971 S ±11.4km   67.845 W ± 9.1km
   DEPTH = 113.3 ± 12.0 km
   4.3mb (  1 obs.)
 CHILE-ARGENTINA BORDER REGION     (127)

ANT      2.37 276 iPc    15 07.20   0.0
                iS       15 33.80
CCH      6.75  14 P      16 08.00   0.9
                e        16 28.00
CNCB     7.13 359 P      16 12.70   0.2
LPB      7.40 358 eP     16 12.00  -4.2X
ZOBO     7.67 358 P      16 19.00  -0.9
ARE      8.22 335 eP     16 33.00   5.9X
                iS       17 53.00
VAO     19.18  91 eP     18 45.70  -0.5
BAO     20.42  70 ePd    18 59.50   0.3
LIC     68.16  72 P      25 19.00  -0.2
KIC     68.48  72 P      25 21.20   0.1
YKA     93.83 340 eP     27 33.50  -0.3
       0.7s      1.10nm          4.3mb
ASPA   128.16 206 ePKP   33 24.10   0.3
       1.3s      6.70nm
WB2    131.29 208 ePKP   33 30.00   0.2
WRA    131.29 208 PKP    33 30.00   0.1
       0.4s      2.90nm
      S.D. = 0.5  on  12 of  14 obs.
-----------------------------------
?  JUL  07, 1991  13h 59m 57.36± 5.07s
   18.775 N ±18.6km   67.521 W ±36.1km
   DEPTH =  10.0km  (geophysicist)
 MONA PASSAGE                      ( 89)

MCP      0.53 132 iP     00 08.00   0.0
                S        00 14.80
MGP      0.87 152 iP     00 14.00   0.0
                S        00 24.50
PORP     1.10 130 iP     00 17.80  -0.3
CLLP     1.13 127 P      00 18.80   0.3
SJG      1.46 117 iP     00 23.90   0.1
                S        00 42.10
LPR      1.63 106 iP     00 26.10  -0.2
CPD      1.69 115 iP     00 27.20   0.1
      S.D. = 0.2  on   7 of   7 obs.
-----------------------------------
?  JUL  07, 1991  14h 37m 04.77± 2.12s
   49.577 S ±27.4km  164.252 E ± 9.9km
   DEPTH =  33.0km  (normal)
   4.7mb (  4 obs.)  4.1Msz (  1 obs.)
 AUCKLAND ISLANDS REGION           (166)

TLC      5.47  39 P      38 26.50   0.3
MSZ      5.51  28 eP     38 27.60   1.0
MHZ      5.66  39 eP     38 28.60  -0.3
LTZ      8.78  42 eP     39 09.60  -2.7
THZ      9.88  41 eP     39 27.90   0.4
TAU     13.47 293 eP     40 13.00  -2.8
                eS       42 31.00
CNB     17.95 317 iPc    41 14.30   1.0
                eTT      57 34.00
TOO     18.07 305 eP     41 16.00   1.1
       0.6s     34.00nm          4.7mb
                eTT      55 43.00
CAN     18.11 316 eP     41 15.40   0.1
                eTT      57 02.30
BWA     19.11 316 eP     41 28.80   1.3
                eTT      57 33.20
BFD     19.98 300 eP     41 35.80  -1.2
STK     24.49 308 eP     42 25.60   3.6X
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```
        0.7s      2.60nm          3.9mb
ASPA   35.11 306 eP     43 57.20    0.2
        0.8s     18.90nm          5.1mb
     Z  19s      0.30um          4.1Msz
WB2    37.97 310 eP     44 21.10    0.0
                 e      46 35.40
WRA    37.98 310 P      44 21.00   -0.2
        0.7s      8.10nm          4.7mb
INK   126.29  24 ePKP   56 06.00    1.9
MBC   134.46  19 ePKP   56 22.00    2.5X
OBN   148.18 300 iPKPc  56 50.00    5.8X
        1.0s  *******nm
                 e      57 00.00
VAY   152.13 267 ePKP   56 58.50    7.8X
     S.D. = 1.5  on  15 of  19 obs.
-----------------------------------
&  JUL  07, 1991  14h 53m 12.05s
   46.933 N          120.321 W
   DEPTH =   4.8km
 WASHINGTON                          ( 29)
      <SEA>. MD 2.6 (SEA).

EBG     0.17 262 P      53 15.68    0.1
VTG     0.23  84 P      53 17.08    0.4
TBM     0.30 321 P      53 19.05    0.9
                 S      53 26.21
BVW     0.33 112 P      53 19.33    0.7
MXC     0.36 177 P      53 19.53    0.3
                 S      53 26.66
NAC     0.40 240 Pd     53 21.00    0.9
                 S      53 28.45
TWW     0.43 299 P      53 21.48    0.9
YAKW    0.44 199 P      53 21.61    0.8
MDW     0.50 130 Pd     53 22.62    0.5
BRVW    0.50 153 Pd     53 22.77    0.7
WAH2    0.55 108 Pc     53 23.33    0.3
RC1     0.61  89 Pc     53 24.25    0.0
LOCW    0.65 109 Pc     53 25.31    0.3
CRF     0.65  99 P      53 25.06    0.0
EPH     0.65  49 P      53 24.68   -0.4
ETW     0.67 359 Pd     53 24.99   -0.5
GBL     0.68 119 P      53 25.84    0.2
RSW     0.74 137 P      53 27.00    0.1
MJ2     0.76 119 Pc     53 27.37    0.1
WTV     0.81  18 P      53 27.60   -0.6
WRD     0.81  87 P      53 27.72   -0.5
PRW     0.84 148 P      53 28.76   -0.1
WIW     0.87 125 P      53 29.29    0.1
WPW     0.87 255 P      53 28.89   -0.5
CBSW    0.89  12 P      53 29.26   -0.5
FMW     0.93 270 P      53 29.85   -0.5
GLK     0.96 248 P      53 30.86    0.0
GL2     1.03 200 P      53 32.19    0.1
LON     1.04 260 P      53 31.55   -0.6
GSM     1.04 286 P      53 31.92   -0.4
DHW2    1.12  19 P      53 33.10   -0.4
PATW    1.12 160 P      53 33.99    0.4
RMW     1.14 298 P      53 33.62   -0.3
NLW     1.15 359 P      53 33.45   -0.6
ASR     1.18 229 P      53 34.94    0.4
OD2     1.19  67 Pc     53 34.15   -0.6
HTW     1.31 312 P      53 36.98    0.1
GULW    1.34 222 P      53 37.20   -0.1
WG3     1.36 131 P      53 37.14   -0.5
LMW     1.38 260 P      53 38.39    0.3
TDL     1.43 247 P      53 38.77   -0.1
CDFW    1.45 236 P      53 39.27    0.3
VGB     1.45 193 P      53 38.47   -0.6
BLH     1.47 308 P      53 39.92    0.7
STD     1.48 243 P      53 39.93    0.4
JLK     1.49 239 P      53 39.90    0.3
HSR     1.49 240 P      53 40.83    1.1
JBO     1.51 167 P      53 39.63   -0.2
ERK     1.53 246 P      53 40.80    0.6
MTMW    1.59 236 P      53 41.24    0.2
JCW     1.67 320 P      53 42.43    0.4
RPW     1.72 332 P      53 43.11    0.3
DPW     1.72  56 P      53 41.60   -1.3
VLL     1.75 213 P      53 43.90    0.6
VTHM    1.76 186 P      53 43.64    0.2
LNOR    1.76 126 P      53 44.21    0.7
PGW     1.79 301 P      53 44.95    1.2
GMW     1.79 291 P      53 44.54    0.7
CPW     1.93 272 P      53 47.20    1.3
CROR    2.01 194 P      53 46.68   -0.4
BMW     2.05 258 P      53 49.21    1.5
VBEM    2.07 206 P      53 48.83    0.8
BLN     2.10 302 P      53 49.05    0.8
SMW     2.10 282 P      53 49.61    1.2
MBW     2.14 331 P      53 50.69    1.7
VIPM    2.43 185 P      53 53.77    0.4
        66 obs. ossociotod
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*  JUL  07, 1991  16h 26m 20.64± 0.51s
    5.987 S ± 5.5km  130.943 E ±13.8km
   DEPTH =  80.0km  (geophysicist)
   4.9mb (  9 obs.)
 BANDA SEA                          (280)

MTN     6.82 178 eP     28 02.50    2.5
KNA     9.93 192 eP     28 42.90    0.2
        0.4s   225.00nm          6.5mb X
                 eS     30 26.00
WB2    14.26 167 iPd    29 37.80   -2.3
                 i      29 40.90
                 iS     32 05.60
CGP    15.64 336 eP     30 01.50    3.7X
        1.0s    77.00nm          4.8mb
QIS    16.75 151 iPc    30 12.80    1.1
                 i      30 15.00
                 iS     33 06.00
MAP    17.62 337 eP     30 24.00    1.5
ASPA   17.81 171 iPc    30 24.80    0.0
        0.5s    82.00nm          5.2mb
                 iS     33 30.40
PPR    19.83 322 ePc    30 49.00    1.3
WARB   20.50 191 eP     30 55.70    1.1
        0.3s    12.00nm          4.7mb
                 eS     34 33.00
NANU   22.20 221 eP     31 12.00    0.4
                 eS     35 14.00
FORR   24.88 186 eP     31 36.50   -0.8
COOL   26.42 199 eP     31 51.50   -0.2
RMQ    26.54 142 e(P)   32 06.00   13.2X
MRWA   27.08 210 eP     31 58.40    0.7
STK    27.62 160 iPc    32 03.50    0.9
        0.4s     3.60nm          4.3mb
                 e      32 30.80
                 ePcP   34 24.20
                 eS     37 22.80
BAL    27.91 207 eP     32 05.00   -0.2
MUN    29.30 206 eP     32 27.00    9.3X
NWAO   29.69 204 eP     32 21.00   -0.2
BFD    32.80 163 e(P)   32 46.00   -2.4
                 e      38 48.00
CHTO   40.02 309 iP     33 50.20    0.6
        0.9s    14.49nm          4.9mb
                 pP     34 09.10   78kmX
XAN    44.93 334 iPc    34 29.00   -0.4
CD2    44.97 326 eP     34 28.70   -1.1
TIY    46.77 340 eP     34 43.80   -0.1
LZH    48.97 331 eP     35 01.80    0.6
        1.2s    16.00nm          4.9mb
CN2    49.80 355 eP     35 07.80    0.6
LSA    52.13 315 Pc     35 26.00    0.3
GTA    53.55 330 iPc    35 36.00    0.4
        1.0s    10.00nm          4.8mb
GUN    55.01 310 P      35 46.20   -0.6
PKI    55.20 310 P      35 47.40   -0.7
KKN    55.40 310 P      35 48.80   -0.6
DMN    55.45 309 P      35 49.40   -0.4
GKN    56.00 310 P      35 53.00   -0.7
GBA    56.57 291 P      35 57.00   -0.7
        1.3s    14.80nm          4.9mb
NDI    62.12 307 iPc    36 34.00   -1.8
WMQ    63.07 326 P      36 42.50    0.6
        1.0s    40.00nm          5.4mb
QUE    70.99 305 iPd    37 32.60    0.4
CNCB  150.62 141 PKP    46 08.80    8.0X
                 i      46 48.00
LPB   150.75 140 ePKP   46 10.00    9.1X
ZDBO  150.93 140 PKPc   46 09.30    8.0X
     S.D. = 1.1  on  33 of  39 obs.
-----------------------------------
&  JUL  07, 1991  16h 39m 19.48s
   60.207 N          146.268 W
   DEPTH =   8.6km
 SOUTHERN ALASKA                     (  2)
      <AEIC>. ML 2.9 (AEIC).

HIN     0.22 329 iPd    39 24.53    0.3
                 eS     39 28.94
CVA     0.43  37 iPd    39 27.70   -0.4
                 eS     39 35.03
SGAM    0.60  60 iPd    39 30.95   -0.7
MTU     0.73 253 ePc    39 33.02   -0.9
                 eS     39 43.71
KNIM    0.75 282 iPc    39 33.26   -1.0
MID     0.78 183 eP     39 34.31   -0.5
GLI     0.79 329 iPc    39 34.16   -0.8
                 eS     39 45.98
LTI     0.81 259 iPc    39 34.34   -1.0
                 iS     39 46.55
RAGM    0.81  76 iPd    39 34.56   -0.9
VZW     0.87 351 iPc    39 35.61   -0.7
                 eS     39 49.08
VLZ     0.93 358 ePc    39 36.29   -1.0
                 eS     39 50.18
HMT     1.01  82 iPd    39 38.03   -0.7
KLU     1.30   7 iPd    39 42.44   -1.3
                 eS     40 00.20
SEW     1.59 268 iPc    39 45.79   -2.1
                 eS     40 06.93
KNK     1.62 319 iPc    39 47.67   -0.6
                 S      40 07.82
WAX     1.72  80 iPd    39 47.80   -2.0
GLB     1.73  43 iPd    39 48.76   -1.2
                 eS     40 10.45
TGL     1.79  71 ePd    39 49.15   -1.8
                 eS     40 12.06
TZL     1.89  12 eP     39 50.64   -1.6
TOA     1.91   1 eP     39 52.03   -0.5
PMS     1.92 304 ePc    39 51.12   -1.7
                 eS     40 16.74
PLRM    1.97 316 ePc    39 52.33   -1.1
                 eS     40 16.21
PMR     1.97 316 iPc    39 52.50   -0.9
        0.7s   175.58nm
SLKM    1.99 280 iPc    39 51.47   -2.2
                 eS     40 16.61
GHO     2.04 322 ePc    39 53.49   -0.9
                 eS     40 18.54
BALM    2.11  65 iPd    39 53.61   -1.9
PWA     2.28 311 eP     39 57.03   -0.9
SDG     2.35   8 eP     39 58.28   -0.7
NKA     2.52 284 eP     40 00.01   -1.2
NNL     2.52 268 ePc    39 59.50   -1.8
SUA     2.53 302 eP     39 59.30   -2.2
CNPM    2.60 257 eP     40 01.29   -1.1
PAX     2.80   7 eP     40 04.24   -1.2
CUT     2.93 321 ePc    40 05.77   -1.3
SPU     3.01 291 eP     40 05.18   -3.1
CGLM    3.03 294 eP     40 05.61   -2.9
RDT     3.07 280 eP     40 05.47   -3.7
SKT     3.11 307 eP     40 06.89   -2.8
NCG     3.13 295 eP     40 07.24   -2.7
CKL     3.14 291 eP     40 07.27   -3.0
BGL     3.19 292 eP     40 07.58   -3.3
DFR     3.21 280 ePc    40 07.68   -3.5
REF     3.21 278 ePc    40 06.94   -4.3
RSO     3.24 277 eP     40 08.10   -3.5
RS2     3.24 277 eP     40 08.34   -3.3
RDN     3.24 278 eP     40 07.92   -3.7
RDW     3.26 278 eP     40 08.55   -3.5
NCT     3.33 279 eP     40 09.37   -3.5
RND     3.44 340 eP     40 13.28   -1.1
TRF     3.77 331 eP     40 17.01   -2.3
FBA     4.76 352 ePc    40 36.50    3.3
        1.0s    27.50nm
        51 obs. associated
-----------------------------------
*  JUL  07, 1991  17h 26m 15.47± 1.70s
   33.427 N ±16.9km   48.314 E ± 6.4km
   DEPTH =  64.0 ± 13.7 km
   4.5mb ( 13 obs.)
 WESTERN IRAN                        (347)
      Felt at Khoramabad.

KER     1.36 313 iPd    26 37.60   -1.3
IR5     2.59  46 eP     26 56.50    0.6
IR1     2.79  44 iPc    26 59.50    0.7
IR4     2.80  49 iPc    26 59.00    0.0
IR7     2.96  39 ePc    27 01.00   -0.1
TEH     3.43  47 eP     27 07.00   -0.7
TAB     4.90 341 eP     27 39.00   10.4X
MAIO    9.62  70 eP     28 34.00    0.2
                 eS     30 37.00
QUE    16.17  96 eP     30 02.60    2.4
KDZ    19.89 301 iPd    30 43.00   -1.2
RZN    20.40 301 eP     30 49.00   -0.7
MMB    21.09 300 eP     30 56.00   -0.5
```

07d 17h

```
CMP     21.45 310 ePc    31 09.00    8.9X
VAY     21.87 299 eP     31 03.00   -1.3
SKO     22.84 300 eP     31 10.00   -3.8X
                  e      31 13.00
NDI     25.17  93 eP     31 36.00   -0.4
SPC     26.11 315 eP     31 55.80   10.7X
CZI     26.48 292 P      31 47.60   -0.7
SOI     26.51 289 P      31 51.00    2.4X
SRO     26.72 311 eP     31 54.00    3.5X
MGR     26.97 294 P      31 54.80    1.9
ATN     26.98 290 P      31 54.50    1.5
ZST     27.62 312 eP     32 04.20    5.5X
ASS     29.42 300 P      32 21.70    6.7X
CRE     30.00 301 P      32 25.80    5.6X
SFI     30.11 301 P      32 32.30   11.3X
PGD     30.20 301 P      32 26.50    4.4X
WTTA    30.88 308 eP     32 26.00   -2.0
NUR     31.19 337 eP     32 32.70    2.4
CLL     31.22 316 e(P)   32 31.00    0.3
GRF     31.77 312 eP     32 37.80    2.2
      Z  22s      0.05um          3.1Msz
KAF     31.95 341 eP     32 35.60   -1.4
WMO     32.20  60 P      32 40.00    0.5
        1.0s     10.00nm          4.6mb
GBA     33.02 120 Pd     32 47.30    0.6
        0.9s      4.20nm          4.3mb
SBF     33.28 300 eP     32 47.90   -1.0
        1.0s     20.00nm          4.9mb
LPG     33.92 303 eP     32 56.50    1.9
        0.8s      2.70nm          4.2mb
BNI     33.92 302 P      32 48.40   -6.1X
LPL     33.93 303 eP     32 56.50    1.8
        1.0s      8.00nm          4.6mb
HFS     35.00 330 eP     33 01.50   -1.9
        0.7s      5.90nm          4.6mb
      Z  17s      0.09um          3.6MszX
                  LR     47 38.00
SMF     36.05 305 eP     33 14.40    2.0
        1.1s      9.75nm          4.6mb
SSF     36.31 306 eP     33 16.60    2.0
        1.0s      6.00nm          4.5mb
NB2     36.52 330 P      33 14.20   -2.0
        0.7s      2.10nm          4.2mb
MAF     36.89 304 eP     33 20.80    1.3
        1.0s      8.00nm          4.6mb
GTA     41.41  66 eP     33 57.60    0.4
      Z  20s      0.30um          4.2Msz
EKA     41.62 318 P      33 58.00   -0.5
        0.8s      1.70nm          3.9mb
LZH     45.18  70 eP     34 24.00   -3.9X
        2.0s     28.00nm          4.8mb
      Z  24s      0.37um          4.2MszX
CD2     46.53  77 eP     34 37.80   -0.7
CHTO    47.29  95 eP     34 43.80   -0.8
        0.7s      4.45nm          4.5mb
XAN     49.74  71 eP     35 02.50   -0.8
GYA     50.48  82 eP     35 06.40   -2.8
LIC     56.26 254 P      35 49.60   -2.2
CN2     59.14  55 eP     36 11.80    0.2
                  pP     36 24.00   43kmX
      S.D. = 1.5  on  39 of  52 abs.
-----------------------------------------
   JUL  07, 1991  18h 09m 08.79± 0.43s
    8.030 S ± 7.1km  124.865 E ±10.8km
   DEPTH =  16.7km  (  2 depth phases)
   4.7mb ( 11 abs.)
 TIMOR                                (289)

KUPT     2.45 210 eP     09 51.00    2.4
MTN      7.80 128 eP     11 05.50    1.2
        0.4s     96.00nm          6.4mb X
                  eS     12 30.00
KNA      8.57 154 eP     11 13.50   -1.5
                  eS     12 45.00
WB2     14.99 143 iPc    12 38.00   -3.7X
                  eS     15 18.20
CGP     16.38 359 eP     13 07.00    7.4X
        1.0s     50.00nm          4.6mb
ASPA    17.80 152 eP     13 14.70   -2.8
        0.4s      7.00nm          4.1mb
      Z  20s      0.50um          4.0MszX
                  iS     16 25.50
WARB    18.13 175 eP     13 21.00   -0.6
QIS     18.93 133 eP     13 33.00    1.6
                  eS     16 51.00
BAL     23.72 198 eP     14 21.00    0.1
STK     28.38 149 eP     15 05.00    0.7
        0.5s      1.70nm          4.1mb
CHTO    36.95 316 eP     16 19.90    0.8
        1.0s      5.25nm          4.3mb
                  pP     16 24.30   15km
NJ2     40.27 352 Pc     16 48.00    1.4
XAN     44.49 341 eP     17 20.60   -0.6
MAT     46.07  15 eP     17 34.00    0.3
LZH     48.13 337 eP     17 50.00   -0.1
        2.0s     28.00nm          5.0mb
                  pP     17 55.60   19km
LSA     49.58 321 Pd     18 02.60    0.8
GBA     51.76 294 Pd     18 16.60   -1.3
        1.3s      8.60nm          4.5mb
GUN     51.93 315 P      18 19.40   -0.1
        0.9s     46.00nm          5.4mb
PKI     52.06 314 P      18 19.80   -0.7
KKN     52.28 314 P      18 21.60   -0.4
        0.9s     31.00nm          5.2mb
DMN     52.29 314 P      18 21.60   -0.6
        0.8s     23.00nm          5.2mb
GTA     52.61 336 Pd     18 24.00   -0.2
        1.0s     10.00nm          4.7mb
GKN     52.86 314 P      18 25.80   -0.5
WMQ     61.61 330 P      19 28.00    0.1
        1.0s     10.00nm          4.9mb
      S.D. = 1.2  on  22 of  24 obs.
-----------------------------------------
&  JUL  07, 1991  18h 11m 29.60s
   61.421 N          150.986 W
   DEPTH =  61.8km
 SOUTHERN ALASKA                      (  2)
      <AEIC>.

SUA      0.12  70 iPd    11 38.87    1.3
                  eS     11 46.12
CGLM     0.50 257 iPd    11 41.63   -0.3
                  eS     11 51.05
NCG      0.56 269 iPd    11 42.42   -0.2
                  eS     11 52.41
SPU      0.57 245 iPd    11 42.11   -0.5
                  eS     11 52.11
PWA      0.58  66 iPc    11 42.23   -0.4
                  eS     11 52.38
SKT      0.62 335 iPd    11 42.51   -0.6
                  S      11 52.74
CKL      0.69 252 iPd    11 43.68   -0.4
NKA      0.69 190 iPd    11 45.14    1.2
BGL      0.70 257 iPd    11 43.80   -0.3
                  eS     11 55.11
PMS      0.71 104 iPc    11 43.62   -0.6
                  eS     11 55.35
PLRM     0.91  78 iPc    11 45.55   -1.0
                  eS     11 58.60
SLKM     0.99 158 ePc    11 46.80   -0.9
CUT      1.04  19 ePc    11 47.92   -0.5
GHO      1.05  69 ePc    11 47.76   -0.8
                  eS     12 02.29
RDT      1.10 220 iPd    11 48.64   -0.6
                  eS     12 03.94
DFR      1.17 226 ePd    11 49.90   -0.4
                  eS     12 05.46
KNK      1.22  89 ePc    11 49.95   -0.8
                  eS     12 05.62
REF      1.26 223 ePd    11 51.08   -0.4
                  eS     12 07.34
RDN      1.26 224 eP     11 50.83   -0.6
                  eS     12 07.80
NCT      1.28 229 eP     11 51.65   -0.1
                  eS     12 08.60
RSO      1.29 223 eP     11 51.65   -0.4
                  eS     12 09.30
RS2      1.29 223 eP     11 51.73   -0.3
RDW      1.30 224 ePd    11 51.70   -0.3
                  S      12 08.67
NNL      1.39 186 eP     11 54.10    0.9
SEW      1.52 150 eP     11 54.53   -0.4
CNPM     1.91 184 eP     11 59.87   -0.4
KNIM     1.92 123 iPc    11 57.75   -2.7
GLI      1.96 104 iPc    11 58.52   -2.6
TRF      2.06   9 eP     12 02.70    0.1
LTI      2.07 131 ePc    12 00.01   -2.6
KTH      2.14   1 eP     12 03.39   -0.2
VZW      2.17  98 eP     12 01.71   -2.4
MTU      2.18 130 eP     12 01.46   -2.7
VLZ      2.27  95 eP     12 03.18   -2.1
PDB      2.28 225 eP     12 04.28   -1.2
TOA      2.39  71 eP     12 06.45   -0.7
KLU      2.43  86 ePc    12 05.35   -2.4
GLB      3.45  87 eP     12 19.76   -2.3
      38 obs. associated
-----------------------------------------
   JUL  07, 1991  21h 18m 48.40± 0.42s
   39.296 N ± 3.5km   27.816 E ± 4.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                               (366)
      MD 3.5 (ISK), 3.3 (ATH).

IZM      1.00 206 iPg    19 07.00   -0.3
                  iSg    19 20.50
EDC      1.05   2 iPn    19 08.50    0.3
BNT      1.06   4 iPn    19 08.00   -0.4
KGT      1.22 341 iPn    19 12.00    0.9
EZN      1.27 295 iPn    19 11.80   -0.1
IZI      1.65  50 iPn    19 17.80    0.3
KHL      1.65 126 ePn    19 17.50   -0.1
YLV      1.74  43 ePn    19 18.50   -0.5
CTT      1.91  14 ePn    19 21.50    0.2
ISK      2.01  28 ePn    19 23.00    0.3
HRT      2.08  42 ePn    19 23.50   -0.3
YER      2.19 170 ePn    19 26.00    0.6
DMK      2.52 359 iPn    19 29.50   -0.6
RDO      2.54 317 ePn    19 30.00   -0.3
      S.D. = 0.5  on  14 of  14 obs.
-----------------------------------------
   JUL  07, 1991  21h 24m 02.69± 0.38s
   36.658 N ± 5.1km   91.643 W ± 3.5km
   DEPTH =   5.0km  (geophysicist)
 MISSOURI-ARKANSAS BORDER REGION (484)
      mbLg 4.0 (GS), 3.8 (TUL). Slight
      damage (VI) at Alton, Myrtle and
      Thayer, Missouri. Felt (V) at
      Brandsville; (IV) at Gatewaad,
      Koshkonong, West Plains and
      Winona; (III) at Birch Tree,
      Doniphan and Eminence, Missouri.
      Felt (IV) at Ash Flat, Comp,
      Cherokee Village, Hardy and
      Mammath Spring, Arkansas. Felt
      (III) at Mountain View,
      Paragould, Pocahontas, Sturkie
      and Wiseman, Arkansas.

POW      0.63 144 P      24 14.70   -0.5
OLY      1.16 173 P      24 25.00    0.1
CBD      1.64 101 P      24 32.60    0.3
                  S      24 55.30
FVM      1.64  36 P      24 32.60    0.3
NRMS     1.66  95 P      24 32.80    0.2
                  S      24 54.50
OKG      1.79 125 P      24 34.00   -0.4
                  S      24 58.00
GRT      1.83 102 P      24 35.40    0.4
MFTN     1.88 105 P      24 36.30    0.5
ACTN     1.91  99 P      24 36.30    0.2
ELC      2.03  71 P      24 37.00   -1.0
BPIL     2.88  57 P      24 50.00    0.0
PWLA     3.36 119 P      24 55.00   -1.9X
TUL      3.43 259 ePn    24 59.20    1.2
        0.6s     63.10nm
                  ePg    25 05.00
                  eSn    25 40.60
                  eLg    25 46.40
MEO      5.95 254 e(P)   25 34.00    0.4
BLA      9.00  83 P      26 12.00   -4.4X
GOL     11.22 290 P      26 45.00   -2.1X
RSSD    12.03 312 P      26 58.00    0.1
ANMO    12.15 266 P      27 03.00    3.4X
ALQ     12.15 266 e(P)   26 58.00   -1.6
BW06    15.07 299 P      27 38.00   -0.2
      S.D. = 0.7  on  16 of  20 abs.
-----------------------------------------
%  JUL  07, 1991  22h 39m 21.30± 0.82s
   18.189 N ± 8.0km   66.971 W ± 6.3km
   DEPTH =  10.0km  (geophysicist)
 PUERTO RICO REGION                   ( 90)

MGP      0.21 212 iP     39 25.90    0.0
MCP      0.26 330 iP     39 26.90    0.0
                  S      39 30.90
SJG      0.78  95 iP     39 37.00    0.4
CPD      1.01  98 iP     39 40.20   -0.3
LPR      1.05  83 iP     39 41.10   -0.1
      S.D. = 0.4  on   5 of   5 obs.
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   JUL  07, 1991  22h 53m 59.25± 0.30s
   45.111 N ± 2.5km     7.382 E ± 3.3km
   DEPTH =   8.7 ±  3.0 km
 NORTHERN ITALY                        (545)
      ML 2.8 (GEN), 2.7 (LDG).

RSP      0.10 295 P      54 03.06   1.2
                  S      54 04.91
BHB      0.28 197 P      54 05.38   0.3
                  S      54 09.68
LSD      0.38 335 P      54 07.99   0.9
                  S      54 12.39
RRL      0.46 246 P      54 08.19  -0.5
                  S      54 13.52
BNI      0.50 264 Pc     54 09.00  -0.5
                  eSg    54 14.50
LPG      0.59 311 Pg     54 10.90  -0.3
                  Sg     54 18.20
LPL      0.61 312 Pg     54 11.40  -0.2
DOI      0.62 189 P      54 10.40  -1.2
                  eSg    54 21.30
PZZ      0.64 198 P      54 11.57  -0.5
                  S      54 19.80
ORO      0.66  39 P      54 14.50   1.9
                  eSg    54 22.50
ORX      0.67  39 P      54 13.70   0.9
                  S      54 22.93
STV      0.87 183 P      54 15.17  -1.0
                  S      54 26.42
ENR      0.88 178 P      54 15.53  -0.9
                  S      54 26.15
ROB      0.89 157 P      54 16.29  -0.2
                  S      54 28.41
CKI      0.94 137 P      54 18.00   0.7
                  eSg    54 30.50
DIX      0.97   1 ePd    54 18.50   0.5
PCP      1.00 124 P      54 19.16   0.7
                  S      54 32.93
MMK      1.03  23 ePc    54 18.90   0.0
FIN      1.08 147 P      54 19.88   0.2
                  S      54 32.22
SBF      1.25 178 Pg     54 24.00   1.4
IMI      1.25 163 P      54 21.93  -0.8
                  S      54 36.27
TMA      1.44  46 ePc    54 25.00  -0.8
FRF      1.64 199 Pg     54 30.00   1.7
                  Sg     54 51.10
MDI      1.77  67 P      54 29.80  -0.4
                  eSg    54 50.30
LRG      1.81 204 Pg     54 33.20   2.3
                  Sg     54 56.80
CDR      1.84 219 eP     54 34.40   3.0
                  e      54 54.30
LMR      1.88 200 Pg     54 34.40   2.5
                  Sg     54 58.00
BSF      2.75 352 Pn     54 44.60   0.1
SLE      2.76  16 ePc    54 44.70   0.1
SMF      2.91 303 Pn     54 47.00   0.4
                  Sg     55 31.00
HAU      2.98 347 Pn     54 47.60   0.0
LBF      3.02 310 Pn     54 48.40   0.2
                  Sg     55 34.60
LOR      3.26 313 Pn     54 51.50  -0.1
                  Sg     55 41.20
AVF      3.27 302 Pn     54 51.80   0.0
CDF      3.30 359 Pn     54 52.00  -0.3
SSF      3.33 307 Pn     54 52.00  -0.6
                  Sg     55 42.60
BGF      3.49 296 Pn     54 54.40  -0.4
                  Sg     55 48.00
CAF      3.78 269 Pn     54 58.80  -0.2
TCF      3.81 290 Pn     54 58.80  -0.6
     S.D. = 1.0   on   39 of   39 obs.
-----------------------------------------
   JUL  07, 1991  23h 41m 34.27± 0.74s
   42.965 N ± 7.2km    18.705 E ± 5.2km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                            (383)
      ML 1.9 (TTG).

BRY      0.13 242 iPgd   41 37.40  -0.2
                  iSg    41 39.82
NKY      0.26 125 iPc    41 40.52   0.6
                  iSg    41 45.59
HCY      0.54 196 iPgd   41 44.40  -0.8
                  iSg    41 52.94
PLE      0.62  54 iPgd   41 45.92  -1.0
                  iSg    41 55.65
BDV      0.69 172 iPgd   41 47.80  -0.1
                  iSg    41 58.79
IVA      0.88  96 iPgd   41 51.47   0.2
                  iSg    42 05.80
PVY      1.00 111 iPgd   41 53.70   0.3
                  iSg    42 09.80
HVAR     1.67 278 ePn    42 04.50   0.9
                  iSg    42 27.50
     S.D. = 0.8   on    8 of    8 obs.
-----------------------------------------
%  JUL  07, 1991  23h 53m 45.76± 1.13s
   39.960 N ±11.5km    27.406 E ± 7.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                                (366)
      MD 2.9 (ISK).

KGT      0.50 351 iPg    53 55.00  -0.8
                  iSg    54 01.50
EDC      0.52  42 ePg    53 57.00   0.7
BNT      0.56  45 ePg    53 56.50  -0.6
EZN      0.84 261 iPg    54 02.20   0.2
                  eSg    54 12.80
CTT      1.42  33 ePn    54 13.00   1.4
YLV      1.62  67 ePn    54 14.50   0.0
IZI      1.63  76 iPn    54 13.80  -0.8
     S.D. = 1.0   on    7 of    7 obs.
-----------------------------------------
   JUL  08, 1991  00h 18m 12.45± 0.69s
   42.975 N ± 6.3km    18.694 E ± 4.7km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                            (383)
      ML 1.8 (TTG).

BRY      0.13 236 iPgd   18 15.69  -0.1
                  iSg    18 18.05
NKY      0.28 126 iPgc   18 18.85   0.5
                  iSg    18 24.20
HCY      0.55 195 iPgc   18 22.94  -0.6
                  iSg    18 31.92
PLE      0.62  55 iPgc   18 24.30  -0.8
                  iSg    18 34.90
TTG      0.69 142 iPgd   18 26.05   0.0
                  iSg    18 36.77
BDV      0.70 172 iPgd   18 26.02  -0.2
                  iSg    18 36.97
IVA      0.89  96 iPgd   18 29.70   0.1
                  iSg    18 44.15
PVY      1.02 112 iPgd   18 32.10   0.3
                  iSg    18 48.44
HVAR     1.66 278 e(Pn)  18 42.30   0.6
                  iSg    19 06.20
     S.D. = 0.5   on    9 of    9 obs.
-----------------------------------------
?  JUL  08, 1991  00h 39m 10.04± 3.16s
   14.513 N ±11.9km   119.611 E ±43.1km
   DEPTH =  67.8 ± 28.5 km
   4.5mb (  4 obs.)
 LUZON, PHILIPPINE ISLANDS             (249)

PGP      1.65 127 eP     39 37.00  -0.3
SZP      3.13  15 eP     39 58.00   0.0
CVP      3.82  34 eP     40 08.00   0.3
BJI     25.61 354 eP     44 43.00   8.4X
WB2     37.18 157 eP     46 15.10  -1.4
ASPA    40.44 160 eP     46 43.80   0.2
         0.5s     8.30nm          4.8mb
WARB    41.03 170 eP     46 50.00   1.7
KAF     78.84 331 iP     51 06.70  -0.3
         0.6s     2.30nm          4.3mb
MBC     82.98  12 eP     51 29.00   0.4
HFS     85.26 331 eP     51 40.10  -0.2
         0.5s     1.40nm          4.3mb
NB2     86.06 332 P      51 44.00  -0.4
         1.0s     6.20nm          4.7mb
     S.D. = 1.0   on   10 of   11 obs.
-----------------------------------------
?  JUL  08, 1991  02h 54m 14.44± 2.16s
   43.733 N ±23.6km   148.381 E ±23.6km
   DEPTH =  10.0km  (geophysicist)
   3.9mb (  2 obs.)
 KURIL ISLANDS REGION                  (222)

KUSJ     2.75 258 P      54 57.00  -2.4
                  S      55 20.70
HOOJ     3.97 252 eP     55 18.00   1.4
                  eS     55 57.30
ASAJ     4.16 277 eP     55 19.90   0.5
MRRJ     5.51 259 eP     55 39.00   0.5
                  eS     56 34.10
OFUJ     6.86 230 eP     55 57.50   0.0
                  eS     57 05.60
NB2     69.94 339 P      05 27.70   0.3
         0.4s     0.20nm          3.6mb
HFS     70.05 338 eP     05 27.60  -0.4
         0.4s     0.80nm          4.2mb
     S.D. = 1.4   on    7 of    7 obs.
-----------------------------------------
*  JUL  08, 1991  03h 41m 32.48± 1.48s
   22.431 S ±13.7km    67.771 W ±14.3km
   DEPTH =  33.0km  (normal)
 CHILE-BOLIVIA BORDER REGION           (124)

ANT      2.75 242 iP     42 15.00  -0.1
                  iS     42 41.20
CNCB     5.60 358 P      42 56.00  -0.1
LPB      5.88 357 eP     42 56.00  -4.0X
                  e      43 24.00
ZOBO     6.14 357 eP     43 03.00  -0.8
ARE      6.90 329 e(P)   43 15.00   0.8
                  iS     44 16.50
SIV      9.00  46 P      43 43.60   0.3
     S.D. = 0.9   on    5 of    6 obs.
-----------------------------------------
   JUL  08, 1991  08h 40m 51.96± 0.49s
   40.278 N ± 4.9km    29.179 E ± 4.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                                (366)

IZI      0.23  75 iPg    40 58.00   1.0
YLV      0.32  27 iPg    40 59.30   0.6
GBZT     0.55  22 iPgc   41 03.00  -0.1
                  iSg    41 11.00
HRT      0.66  34 iPg    41 04.50  -0.6
ISK      0.79 353 iPg    41 07.50   0.2
                  iSg    41 18.50
DST      0.79 212 iPg    41 06.50  -0.9
EYL      0.80  69 iPg    41 07.50  -0.1
BNT      0.97 275 iPg    41 11.50   1.2
                  eSg    41 24.50
EDC      1.01 274 iPg    41 11.50   0.5
KGT      1.44 278 iPn    41 18.50   0.4
DMK      1.88 326 ePn    41 22.50  -1.9
KHL      1.97 172 ePn    41 25.20  -0.6
EZN      2.24 259 ePn    41 29.30  -0.3
IZM      2.39 219 ePn    41 32.70   0.8
     S.D. = 0.9   on   14 of   14 obs.
-----------------------------------------
%  JUL  08, 1991  08h 48m 13.12± 0.92s
   39.108 N ± 7.5km    27.720 E ± 9.1km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                                (366)

IZM      0.79 207 ePg    48 28.70   0.1
                  eSg    48 39.70
DST      0.86  54 ePn    48 29.50  -0.2
EDC      1.24   5 ePn    48 36.50   0.3
EZN      1.30 304 ePn    48 36.80  -0.3
KGT      1.38 347 ePn    48 38.50   0.1
     S.D. = 0.4   on    5 of    5 obs.
-----------------------------------------
*  JUL  08, 1991  08h 59m 50.06± 0.72s
     9.069 S ±11.6km   124.893 E ±10.9km
   DEPTH =  33.0km  (normal)
   4.6mb (  2 obs.)
 TIMOR                                 (289)

KUPT     1.66 230 eP     00 17.10  -0.2
MTN      7.18 122 eP     01 36.10   0.6
         0.3s   297.00nm          6.7mb X
                  eS     02 56.00
KNA      7.64 151 eP     01 43.00   1.1
         0.3s    27.00nm          5.8mb X
                  eS     03 15.00
WB2     14.16 141 iPd    03 09.10  -1.4
                  eS     05 44.50
ASPA    16.88 150 iPd    03 45.30  -0.3
         0.7s    16.70nm          4.3mb
     Z  19s      0.60um
                  eS     06 57.80
WARB    17.10 175 eP     03 48.70   0.4
OIS     18.22 130 eP     04 02.00  -0.3
                  eS     07 17.00
CTAO    23.36 120 iPc    05 01.00   4.3X
```

08d 09h

```
        1.0s     40.00nm          4.9mb
BWA     33.21 143 e(P)  06 33.30   7.1X
CAN     34.17 144 eP    06 38.70   4.2X
IR4     82.36 307 eP    12 09.50  -1.0
IR1     82.57 308 eP    12 11.00  -0.6
IR5     82.60 307 eP    12 11.00  -0.8
IR7     82.72 308 eP    12 15.00   2.7
HFS    108.32 331 ePKP  18 18.20   1.9X
        0.4s      2.20nm
CNCB   151.31 154 PKP   19 37.00  -0.2
LPB    151.50 153 PKP   19 43.00   5.7X
CCH    151.54 157 ePKP  19 40.00   2.7X
ZOBO   151.72 153 PKPc  19 40.30   2.4X
                  eLR   15 00.00
      S.D. = 1.2  on  12 of  19 obs.
-----------------------------------------
%  JUL  08, 1991  09h 29m 50.24± 1.14s
   38.463 N ± 7.5km   27.109 E ±13.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      Felt at Izmir.

IZM      0.14 118 iPg   29 54.00   0.5
EZN      1.49 336 ePn   30 16.80  -0.2
YER      1.62 145 ePn   30 18.70  -0.3
DST      1.64  46 ePn   30 18.50  -0.8
EDC      1.97  17 ePn   30 24.00   0.0
KGT      1.99   4 ePn   30 24.50   0.2
BNT      1.99  18 ePn   30 25.00   0.7
YLV      2.74  39 ePn   30 35.00  -0.1
      S.D. = 0.5  on   8 of   8 obs.
-----------------------------------------
?  JUL  08, 1991  09h 40m 51.63± 0.97s
   15.040 N ± 8.1km  120.145 E ±20.2km
   DEPTH =  10.0km  (geophysicist)
   4.2mb (  2 obs.)
 LUZON, PHILIPPINE ISLANDS           (249)

PGP      1.72 153 ePc   41 22.00   0.3
SZP      2.52   7 eP   41 25.00  -8.2X
CVP      3.10  31 eP   41 41.00  -0.5
PIP      3.30   8 ePc  41 45.00   0.7
LZH     25.53 328 eP   46 22.00  -0.2
        2.0s     35.00nm          4.7mb
      Z  15s      0.19um          3.7MszX
                  sP    46 41.00
                  PP    47 06.00
WRA     37.46 158 P    48 07.00  -0.2
        1.3s      1.80nm          3.7mb
WB2     37.47 158 eP   48 10.40   3.1X
      S.D. = 0.6  on   5 of   7 obs.
-----------------------------------------
?  JUL  08, 1991  10h 06m 42.12± 0.96s
   39.151 N ± 8.3km   27.638 E ± 9.5km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)

IZM      0.81 201 ePg   06 57.70  -0.1
                  eSg   07 09.20
DST      0.89  59 ePn   06 59.50   0.2
EZN      1.22 304 ePn   07 05.00   0.2
BNT      1.22  10 ePn   07 04.50  -0.4
      S.D. = 0.5  on   4 of   4 obs.
-----------------------------------------
*  JUL  08, 1991  10h 30m 39.45± 1.58s
   24.557 N ±22.0km  124.317 E ±11.1km
   DEPTH =  10.0km  (geophysicist)
   4.5mb (  2 obs.)
 SOUTHWESTERN RYUKYU ISLANDS         (246)

TWC      2.25 272 iPc   31 17.30   0.1
                  eS    31 36.00
TWD      2.53 260 iPc   31 20.90  -0.3
                  eS    31 43.10
TWZ      2.55 283 ePd   31 21.60   0.1
TWF1     3.01 247 iPc   31 28.30   0.2
TWQ      3.19 266 iPc   31 30.40  -0.2
                  eS    32 00.40
TWK      3.73 251 ePc   31 38.50   0.1
WRA     45.30 167 P     38 59.00  -0.3
        0.6s      2.80nm          4.4mb
WB2     45.30 167 eP    38 59.10  -0.2
ASPA    48.83 168 iPc   39 27.60   0.5
        0.8s      4.10nm          4.5mb
      S.D. = 0.3  on   9 of   9 obs.
-----------------------------------------
   JUL  08, 1991  10h 41m 21.51± 0.46s
   44.580 N ± 5.6km    9.951 E ± 3.7km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                      (545)
      ML 2.8 (LDG).

BOB      0.40 298 Pc    41 30.40   0.6
                  eSg   41 38.60
MME      0.66 125 Pc    41 34.50  -0.3
                  eSg   41 45.10
BDI      0.69 138 P     41 34.90  -0.4
                  eSg   41 45.20
PII      0.95 154 P     41 39.80   0.2
                  eSg   41 54.20
CKI      1.21 263 P     41 44.70   0.7
                  eSg   42 01.80
MDI      1.21 352 P     41 43.00  -1.0
                  eSg   42 00.40
PGD      1.45 118 P     41 48.50   0.5
SFI      1.52 115 Pc    41 49.70   1.0
CRE      1.73 123 P     41 51.80   0.0
DOI      1.94 269 P     41 55.20   0.3
SBF      1.95 249 Pn    41 55.60   0.6
                  Sn    42 19.00
PGF      2.15 199 Pn    41 57.00  -0.9
                  Sn    42 21.80
LPL      2.47 293 Pn    42 06.00   3.4X
                  Sn    42 36.00
FRF      2.59 248 Pn    42 04.00  -0.2
                  Sn    42 33.50
LMR      2.78 245 Pn    42 06.00  -0.9
                  Sn    42 38.00
LRG      2.82 248 Pn    42 07.20  -0.3
                  Sn    42 38.80
      S.D. = 0.7  on  15 of  16 obs.
-----------------------------------------
   JUL  08, 1991  10h 45m 33.78± 0.36s
   20.225 S ± 5.7km  133.825 E ± 5.2km
   DEPTH =   5.0km  (geophysicist)
   5.1mb ( 15 obs.)
 NORTHERN TERRITORY, AUSTRALIA       (591)

WRA      0.56  60 P     46 15.00  30.0X
        0.9s    246.70nm
WB2      0.57  61 iPc   45 43.00  -2.2
ASPA     3.43 179 iPc   46 37.30   8.3X
        0.6s    856.60nm
                  eS    47 15.20
QIS      5.43  94 iPd   46 57.00  -0.5
                  i     47 53.20
                  e     01 04.00
KNA      6.56 312 eP    47 11.00  -2.3
        0.2s     70.00nm          6.3mb X
                  eS    47 23.20
MTN      7.78 340 eP    47 25.20  -5.2X
WARB     8.87 227 iPd   47 49.70   4.0X
QLP     11.46 125 eP    48 20.00  -1.2
        0.3s     68.00nm          6.5mb X
                  i     50 25.20
FORR    11.77 205 eP    48 27.10   1.8
        0.2s    108.00nm          6.8mb X
                  eS    50 33.00
STK     13.54 151 iPd   48 47.80  -1.2
        0.4s     24.00nm          5.5mb
                  eS    51 13.40
RMQ     15.06 117 eP    49 08.00  -1.0
                  i     49 18.00
                  e     51 30.00
ADE     15.31 165 eP    49 12.00  -0.2
CMS     15.56 139 eP    49 13.70  -1.8
                  e     52 22.00
COOL    15.59 225 eP    49 14.60  -1.4
        0.3s     17.00nm          4.8mb
                  eS    52 04.00
NANU    17.20 259 eP    49 36.00  -0.4
KLB     18.33 229 eP    49 49.30  -1.3
        0.4s     44.00nm          5.0mb
                  eS    53 03.50
MRWA    18.49 238 eP    49 51.20  -1.3
        0.3s     25.00nm          4.9mb
                  eS    53 08.00
BFD     18.52 158 iPd   49 51.50  -1.3
        0.7s     98.00nm          5.1mb
                  e     53 09.00
BAL     18.58 233 eP    49 52.00  -1.6
        0.4s     42.00nm          5.0mb
                  eS    53 09.00
BRS     18.74 116 iPc   49 57.00   1.4
                  e(S)  53 17.00
BWA     19.15 141 eP    50 04.50   3.8X
COO     19.28 126 iPd   50 04.10   1.8
                  e     53 35.00
NWAO    19.47 226 eP    50 04.00  -0.4
        0.4s     24.00nm          4.8mb
                  eS    53 31.00
MUN     19.65 230 eP    50 06.30  -0.2
        0.6s     63.00nm          5.1mb
                  eS    53 36.50
CAN     20.12 142 eP    50 13.20   1.7
CNB     20.33 141 eP    50 16.00   2.3
                  eS    54 08.00
RKG     20.62 223 eP    50 20.40   3.7X
        0.5s     70.00nm          5.3mb
                  eS    54 01.00
TAU     25.30 156 eP    51 06.00   3.2X
QIZ     45.55 327 eP    53 56.00  -0.5
CHG     51.72 316 eP    54 44.60   0.2
CHTO    51.72 316 iP    54 45.00   0.6
        0.8s     11.35nm          4.9mb
CD2     58.47 330 P     55 33.00  -0.3
XAN     58.95 336 eP    55 35.20  -1.4
LZH     62.78 333 Pc    56 02.50  -0.2
        1.5s     40.00nm          5.4mb
CN2     64.17 353 eP    56 10.00  -1.5
GBA     64.84 297 P     56 18.00   1.6
        0.8s      7.40nm          4.9mb
GUN     66.63 314 P     56 29.30   1.2
PKI     66.73 314 P     56 29.40   0.6
KKN     66.96 314 P     56 31.00   0.9
DMN     66.96 314 P     56 31.10   1.0
GTA     67.31 332 iPc   56 32.60   0.7
        1.0s     20.00nm          5.3mb
GKN     67.53 314 P     56 34.40   0.8
SPA     69.90 180 iPd   56 50.40   2.7
        1.0s     16.00nm          5.1mb
WMQ     76.47 328 P     57 27.50   1.1
        1.2s     50.00nm          5.5mb
                  pP    57 34.00  21kmX
MAIO    89.87 309 eP    58 37.00   1.6
GRF    126.15 317 ePKP  04 41.40   2.5X
WTTA   126.32 314 iPKPd 04 40.10   0.5
        0.6s     10.80nm
                  ic    04 40.70
      S.D. = 1.4  on  39 of  47 obs.
-----------------------------------------
*  JUL  08, 1991  10h 53m 37.96± 0.95s
   8.970 N ±14.2km  127.319 E ±13.0km
   DEPTH =  33.0km  (normal)
   4.5mb (  3 obs.)
 PHILIPPINE ISLANDS REGION           (248)

DAV      2.55 223 eP    54 19.00   1.2
CGP      2.65 259 iPd   54 19.50   0.3
                  iS    54 52.00
MAP      3.56 292 ePd   54 31.00  -1.2
                  iS    55 11.00
STK     42.85 162 eP    01 33.20  -1.6
        0.6s      2.70nm          4.2mb
INK     85.11  22 eP    06 12.00   0.5
MBC     86.74  13 eP    06 21.00   1.4
        0.9s     10.00nm          5.0mb
NAO     94.64 334 P     06 56.20  -0.5
        0.9s      1.50nm          4.4mb
      S.D. = 1.4  on   7 of   7 obs.
-----------------------------------------
?  JUL  08, 1991  11h 08m 17.95± 0.95s
   15.075 N ± 8.6km  120.421 E ±21.3km
   DEPTH =  33.0km  (normal)
   4.7mb (  1 obs.)
 LUZON, PHILIPPINE ISLANDS           (249)

PGP      1.65 162 ePc   08 45.00   0.1
SZP      2.46   1 eP   08 46.00 -10.6X
CVP      2.94  27 eP   09 03.00  -0.4
PIP      3.24   3 ePc  09 08.00   0.4
BJI     25.15 352 eP    13 42.00   0.4
LZH     25.64 328 eP    13 46.00  -0.5
        2.0s     39.00nm          4.7mb
      Z  17s      0.29um          3.9MszX
                  sP    14 00.00
      S.D. = 0.6  on   5 of   6 obs.
-----------------------------------------
%  JUL  08, 1991  11h 23m 54.74± 0.99s
   44.160 N ± 8.0km    8.178 E ± 6.6km
   DEPTH =  10.0km  (geophysicist)
```

```
 NORTHERN ITALY                          (545)
      ML 2.0 (GEN).

FIN      0.05  24 P      23 56.65  -0.3
                  S      23 57.88
ROB      0.26 302 P      24 00.55   0.3
                  S      24 05.70
IMI      0.32 220 P      24 01.57   0.1
                  S      24 07.21
PCP      0.46  34 P      24 04.44   0.2
                  S      24 11.03
ENR      0.55 277 P      24 05.57  -0.3
                  S      24 13.88
STV      0.62 278 P      24 07.57   0.3
                  S      24 15.85
PZZ      0.85 294 P      24 11.00  -0.2
                  S      24 22.69
     S.D. = 0.3  on   7 of   7 obs.
-----------------------------------------
%  JUL  08, 1991  12h 36m 04.24± 0.94s
   39.105 N ± 7.7km   27.726 E ± 9.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                                  (366)

IZM      0.79 207 iPg    36 19.80   0.1
DST      0.86  54 ePg    36 20.50  -0.3
EDC      1.24   5 iPn    36 27.50   0.1
EZN      1.30 304 iPn    36 27.80  -0.5
KGT      1.38 347 ePn    36 30.00   0.5
     S.D. = 0.6  on   5 of   5 obs.
-----------------------------------------
%  JUL  08, 1991  13h 04m 59.00± 1.15s
   39.092 N ± 7.4km   27.646 E ±14.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                                  (366)

IZM      0.76 204 ePg    05 13.80   0.0
                  eSg    05 25.80
EZN      1.26 306 ePn    05 22.30  -0.1
EDC      1.26   8 iPn    05 22.50   0.0
BNT      1.28   9 iPn    05 22.60  -0.1
KGT      1.38 349 ePn    05 24.50   0.2
     S.D. = 0.2  on   5 of   5 obs.
-----------------------------------------
?  JUL  08, 1991  13h 18m 11.53± 7.00s
   44.855 N ±12.4km    6.537 E ±65.3km
   DEPTH =  31.8 ± 14.2 km
 FRANCE                                  (538)
      ML 1.8 (GEN).

RRL      0.19  69 P      18 18.09  -0.1
                  S      18 19.93
BHB      0.52  91 P      18 22.23  -0.1
                  S      18 27.66
PZZ      0.53 131 P      18 22.94   0.2
                  S      18 28.79
RSP      0.59  60 P      18 23.76   0.1
                  S      18 30.33
STV      0.83 137 P      18 26.84  -0.1
     S.D. = 0.3  on   5 of   5 obs.
-----------------------------------------
%  JUL  08, 1991  13h 19m 51.16± 0.92s
   60.927 N ± 7.6km    5.762 E ± 9.4km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN NORWAY                         (535)
      MD 1.4 (BER).

HYA      0.32  41 iPc    19 57.49  -0.2
                  eS     20 02.09
SUE      0.50 285 iP     20 01.62   0.2
                  eS     20 09.40
ASK      0.53 212 eP     20 01.09  -0.7
EGD      0.71 202 eP     20 04.71  -0.4
                  eS     20 14.99
KMY      1.74 189 iPg    20 22.64   1.1
                  eSg    20 45.37
     S.D. = 1.0  on   5 of   5 obs.
-----------------------------------------
&  JUL  08, 1991  15h 23m 05.20s
   38.793 N          122.763 W
   DEPTH =   4.0km
 NORTHERN CALIFORNIA                     ( 36)
      <BRK>. ML 3.6 (BRK).
      Mo=6.0*10**14 Nm (BRK). Felt
      (IV) at Cobb. Also felt at The
      Geysers.

NWRM     0.35 196 eP     23 12.20   0.0
ZSP      0.94 155 ePd    23 22.87  -0.7
                  iS     23 40.62
BRK      1.00 157 iPc    23 23.10  -1.6
                  i      23 24.35
                  iS     23 38.70
BKS      1.00 155 iPd    23 23.50  -1.3
                  eS     23 36.40
ORV      1.24  52 iP     23 26.77  -2.1
                  iS     23 33.91
PCC      1.33 167 eP     23 28.20  -2.0
                  iS     23 48.88
MHC      1.70 148 ePc    23 33.90  -2.0
ARN      1.74 146 eP     23 35.00  -1.4
CMB      2.02 111 iP     23 39.31  -1.1
                  eS     24 04.83
FHC      2.22 335 iPc    23 38.42  -4.9
SAO      2.28 152 eP     23 41.97  -2.2
BONR     3.60 102 eP     24 02.50  -0.8
TNP      4.41  98 eP     24 13.80  -0.9
         13 obs. associated
-----------------------------------------
    JUL  08, 1991  15h 30m 18.26± 0.28s
    23.726 N ± 5.3km  142.895 E ± 4.8km
    DEPTH =  33.0km  (normal)
    5.0mb ( 20 obs.)  4.2Msz (  9 obs.)
 VOLCANO ISLANDS REGION                  (213)

GUMO    10.26 169 eP     32 35.90 -10.4X
         1.1s   188.46nm
                  e      33 04.00
PJG     10.26 169 eP     32 35.50 -10.8X
GUA     10.31 169 eP     32 35.00 -12.0X
IIDJ    12.49 341 eP     33 16.50   0.0
KAKJ    12.66 350 P      33 13.70  -5.0X
                  eS     35 25.20
CHJJ    12.74 346 P      33 15.30  -4.4X
                  eS     35 29.80
TSRJ    13.21 335 eP     33 27.10   1.1
MAT     13.40 344 eP     33 24.00  -4.5X
         0.8s    17.91nm          5.1mb
                  eS     35 46.00
MTMJ    13.55 342 eP     33 26.90  -3.7X
NIIJ    13.88 347 eP     33 29.40  -5.4X
YAMJ    14.61 351 eP     33 40.30  -4.1X
                  eS     36 12.20
OFUJ    15.34 356 eP     33 49.80  -4.1X
                  eS     36 26.50
AOMJ    16.92 353 eP     34 14.90   0.9
HOOJ    18.61   1 eP     34 34.40  -0.6
MRRJ    18.71 356 eP     34 37.10   0.9
KUSJ    19.38   4 eP     34 43.80  -0.4
ASAJ    20.34 359 eP     34 55.70   1.3
CVP     20.59 257 eP     35 01.00   3.9X
SSE     20.60 296 P      34 57.00  -0.2
         0.8s    40.00nm          4.8mb
      Z  20s     0.60um          4.0Msz
      E  13s     0.50um
                  S      38 46.00
BAG     22.17 255 eP     35 26.00  12.7X
NJ2     22.77 297 Pc     35 19.00   0.0
      Z  18s     0.30um          3.8Msz
                  S      39 26.00
MDJ     23.51 336 eP     35 24.50  -1.5
SNY     24.19 323 Pc     35 31.00  -1.6
         1.2s    40.00nm          4.8mb
      Z  24s     0.50um          3.9MszX
                  sP     35 45.40
                  S      39 39.00
CN2     24.63 329 eP     35 37.00   0.1
         0.8s     7.00nm          4.3mb
      Z  17s     0.70um          4.2MszX
      N  17s     0.59um
      E  17s     0.28um
                  epP    35 46.00  32kmX
TIA     25.47 305 eP     35 44.00  -1.0
         1.0s    40.00nm          5.0mb
WHN     26.25 291 eP     35 53.00   0.8
                  pP     36 02.00  32kmX
BJI     27.77 312 eP     36 02.00  -4.0X
      Z  18s     0.29um          3.9Msz
TIY     29.52 305 eP     36 19.80  -2.1
      Z  18s     0.49um          4.2Msz
      E  12s     0.28um
                  eS     41 13.00
HHC     31.29 311 eP     36 36.00  -1.6
      Z  20s     0.75um          4.4Msz

XAN     31.35 297 eP     36 37.00  -1.1
8TO     32.28 309 eP     36 46.00  -0.3
CD2     35.36 290 P      37 13.00   0.1
LZH     35.79 299 eP     37 25.00   8.3X
         2.0s    42.00nm          5.0mb
      Z  20s     0.49um          4.3Msz
      E  12s     0.28um
                  pP     37 34.00  30kmX
                  sP     37 40.00
                  PP     38 54.00
                  eS     43 14.00
KMI     36.50 281 eP     37 25.00   2.2
         1.7s    60.00nm          5.2mb
                  pP     37 29.00  13kmX
GTA     39.50 304 eP     37 46.20  -1.5
      Z  14s     0.40um          4.4MszX
      N  12s     0.20um
CHG     41.13 272 eP     38 06.00   4.9X
CHTO    41.13 272 eP     38 00.50  -0.6
         1.2s     7.29nm          4.3mb
WB2     44.20 192 iPc    38 25.40  -0.6
                  i      40 10.60
WRA     44.20 192 P      38 25.00  -1.0
         0.3s     8.50nm          5.0mb
LSA     46.30 289 P      38 45.40   2.1
ASPA    47.91 191 eP     38 54.80  -0.7
         0.6s     9.70nm          5.0mb
WMO     49.11 308 P      39 04.00  -0.7
      Z  20s     0.30um          4.3Msz
                  S      46 04.00
                  sS     46 24.00
                  ScS    48 51.50
DZM     50.96 151 iPd    39 20.00   1.0
GUN     51.11 287 P      39 22.20   1.7
PKI     51.57 287 P      39 24.60   0.6
KKN     51.65 287 P      39 25.40   0.9
         0.8s    32.00nm          5.3mb
DMN     51.83 287 P      39 26.80   0.9
SDN     51.94  37 eP     39 24.50  -1.4
WARB    52.05 199 eP     39 27.00  -0.1
GKN     52.18 288 P      39 29.30   0.9
STK     55.31 181 iPd    39 49.50  -1.4
         0.4s     3.80nm          4.8mb
SVW     55.79  31 eP     39 54.50   0.3
IMA     57.82  26 e(P)   40 08.50  -0.3
BRW     58.34  19 e(P)   40 12.90   0.8
PMR     58.95  31 eP     40 15.30  -1.2
         1.1s    38.90nm          5.4mb
KLU     60.47  31 P      40 26.50  -0.6
INK     65.83  24 eP     41 01.00  -1.2
MBC     68.97  15 ePc    41 21.30  -0.5
         1.1s    17.00nm          5.0mb
MAIO    71.28 302 eP     41 38.00   1.3
YKA     74.80  28 eP     41 53.70  -3.0
         0.9s     7.50nm          4.7mb
GMW     75.67  44 P      42 02.40   0.4
PNT     77.03  42 eP     42 10.00   0.4
FHC     77.14  51 ePc    42 11.70   1.3
SOD     77.76 339 iP     42 13.30   0.0
IR4     78.25 303 eP     42 18.50   1.7
WDC     78.25  51 ePc    42 16.80   0.3
IR7     78.31 304 eP     42 18.00   0.9
IR1     78.35 304 eP     42 19.00   1.7
NEW     78.96  42 P      42 20.00  -0.3
         1.0s    13.13nm          4.9mb
ORV     79.36  52 ePc    42 22.50  -0.1
OBN     79.65 326 iPc    42 24.00   0.3
         1.1s   *******nm          8.3mb X
      Z  19s     0.50um          4.9Msz
      E  20s     0.50um
MHC     80.09  54 ePc    42 27.00   0.3
ARN     80.17  54 P      42 27.80   0.8
PRS     80.67  55 ePc    42 30.20   0.5
CMB     80.75  53 ePc    42 30.30   0.2
KAF     80.78 335 iP     42 29.20  -0.4
PRI     81.27  54 ePc    42 34.00   1.1
FRI     81.65  53 ePc    42 35.20   0.5
BONR    82.29  52 P      42 38.80   0.4
NUR     82.35 334 iP     42 37.40  -0.5
TNP     83.02  52 P      42 42.60   0.5
MSL     83.62 307 eP     42 41.50  -3.4X
FFC     84.25  32 iPd    42 47.80   0.1
         1.1s    40.00nm          5.5mb
DUG     85.19  48 P      42 53.00   0.1
MSU     86.40  49 P      42 59.30   0.2
HFS     86.76 337 eP     42 58.90  -1.2
         1.2s    13.70nm          5.1mb
```

08d 15h

```
      Z  18s      0.09um          4.2Msz
                  LR     21 11 00
GLA    86.93  55 P      43 02.00   0.5
NB2    86.97 339 P      42 59.70  -1.5
       1.5s     23.80nm          5.2mb
GOL    90.42  46 P      43 19.30   1.0
KSP    92.12 329 ePc    43 25.20  -0.3
ALO    92.14  50 ePc    43 26.60   0.4
       1.1s     13.92nm          5.3mb
SKO    95.17 320 eP     43 37.50  -2.2
ARE   146.97  84 ePKP   50 03.00   4.9X
ZOBO  149.97  81 iPKPc  50 08.90   5.7X
       1.1s     13.05nm
CNCB  150.27  82 ePKP   50 06.00   2.4X
                 i      50 10.00
     S.D. = 1.1  on  76 of  95 obs.
-----------------------------------
*  JUL  08, 1991  15h 55m 20.46± 0.76s
   6.240 S ± 8.8km  132.732 E ± 9.6km
   DEPTH =  33.0km  (normal)
   4.3mb (  2 obs.)
 TANIMBAR ISLANDS REGION          (281)

MTN     6.75 193 eP     57 00.00   0.1
       0.2s    250.00nm          6.7mb X
WB2    13.71 174 iPc    58 33.90  -1.1
PMG    14.63 103 e(P)   58 47.00   0.0
QIS    15.72 156 eP     59 06.00   4.8X
                 eS     01 50.00
CGP    16.65 331 eP     59 19.00   5.9X
ASPA   17.36 176 iPd    59 22.40   0.4
       0.7s     17.10nm          4.3mb
                 eS     02 20.30
TRT    20.00 265 ePd    59 53.10  -0.2
WARB   20.67 196 eP     00 01.50   1.3
NANU   23.21 224 eP     00 25.00  -0.6
FORR   24.86 190 eP     00 44.00   2.5X
CHG    41.58 307 eP     03 07.00  -0.1
CHTO   41.58 307 eP     03 07.30   0.2
       1.0s     7.00nm          4.3mb
CNCB  149.28 138 PKP    15 17.00  12.4X
     S.D. = 0.8  on   9 of  13 obs.
-----------------------------------
   JUL  08, 1991  16h 08m 16.02± 0.78s
   51.922 N ± 6.2km  152.539 E ± 4.3km
   DEPTH = 411.2 ±  9.9 km
   4.5mb ( 49 obs.)
 NORTHWEST OF KURIL ISLANDS       (220)

ASAJ   10.23 224 eP     10 40.10   2.5
KUSJ   10.29 214 P      10 35.80  -2.4
                 eS     12 25.10
HOOJ   11.42 217 P      10 49.70  -1.5
                 eS     12 50.20
MRRJ   12.28 224 P      10 59.90  -1.1
                 eS     13 15.20
OFUJ   14.91 215 P      11 29.30   0.3
                 S      14 04.80
YAMJ   16.31 217 eP     11 45.10   1.7
MDJ    16.89 253 eP     11 48.50  -0.7
MAT    18.44 219 eP     12 05.00   0.3
       1.0s     31.00nm          4.7mb
CN2    19.82 257 eP     12 18.20   0.2
       0.8s      7.00nm          4.2mb
SNY    22.09 254 Pc     12 40.60   1.0
       0.8s      7.00nm          4.2mb
SVW    29.29  51 eP     13 45.40   1.4
TIA    29.54 252 P      13 46.80   0.4
       0.8s     20.00nm          4.5mb
TIY    31.36 259 eP     14 02.60   0.4
BALM   35.64  49 eP     14 39.30   1.2
INK    37.57  36 ePc    14 54.10   0.3
LZH    37.67 265 P      14 55.60   0.4
       1.2s     35.00nm          4.6mb
GTA    38.09 272 eP     15 00.00   1.4
MBC    39.89  22 eP     15 13.00   0.3
       0.5s      9.00nm          4.4mb
YKA    47.07  39 eP     16 09.50  -0.1
       0.6s     11.50nm          4.4mb
PNT    52.49  56 eP     16 50.00  -0.4
       0.5s      4.00nm          4.0mb
CHG    53.14 252 eP     16 55.50   0.1
       1.1s     20.89nm          4.4mb
CHTO   53.14 252 iPd    16 55.60   0.2
       1.0s     17.25nm          4.3mb
                 pP     18 19.20 409kmX
GUN    54.36 271 P      17 04.20  -0.3
NEW    54.43  55 iP     17 04.00  -0.4
KKN    54.81 271 P      17 07.40  -0.2
PKI    54.89 271 P      17 08.40   0.1
DMN    55.05 271 P      17 09.30   0.0
GKN    55.06 272 P      17 09.20   0.0
SES    56.02  50 iPc    17 15.50   0.0
FFC    57.07  42 iPc    17 22.40  -0.3
       0.6s     17.00nm          4.7mb
ORV    57.88  66 ePc    17 28.20  -0.3
LRM    58.44  55 eP     17 32.70   0.2
KAF    58.61 334 iP     17 32.00  -1.1
       0.4s      2.20nm          3.9mb
CMB    59.56  66 ePc    17 40.20   0.2
PRS    60.18  68 e(P)   17 44.00  -0.1
NUR    60.39 333 iP     17 44.80  -0.3
TNP    61.30  64 iP     17 52.00   0.3
       0.7s      2.67nm          3.9mb
BW06   62.06  56 iPc    17 56.70   0.0
       1.0s     18.25nm          4.6mb
NB2    63.22 340 P      18 02.40  -1.3
       0.7s      7.20nm          4.4mb
HFS    63.49 338 eP     18 04.50  -0.8
       0.7s      6.80nm          4.4mb
RSSD   63.82  51 iPc    18 07.90  -0.1
ANMO   69.48  59 eP     18 43.90   0.8
       1.0s      2.25nm          3.8mb
EKA    71.23 346 Pc     18 51.90  -1.0
       0.5s      9.70nm          4.7mb
CLL    71.61 335 iPc    18 54.60  -0.6
       1.0s     15.00nm          4.6mb
DMU    73.16 347 eP     19 04.20   0.1
ZST    73.24 331 eP     19 05.50   0.8
WB2    73.30 198 iPc    19 04.70  -0.6
WRA    73.31 198 P      19 04.00  -1.3
       0.5s      7.90nm          4.6mb
KHC    73.43 333 P      19 06.00   0.2
                 e      19 12.50
GRF    73.56 335 ePc    19 07.00   0.5
       0.7s     13.00nm          4.7mb
DCN    73.75 348 eP     19 08.60   1.1
MEM    73.98 339 Pc     19 08.30  -0.5
TUL    74.17  52 eP     19 09.40  -0.7
       0.6s      8.20nm          4.5mb
DOU    74.78 339 P      19 13.60   0.3
WTTA   75.67 334 iPc    19 19.00   0.4
       0.9s     17.30nm          4.8mb
CDF    75.74 337 eP     19 18.50  -0.3
       0.8s     10.75nm          4.6mb
HAU    76.34 337 eP     19 21.60  -0.4
       0.6s      3.60nm          4.3mb
BSF    76.39 337 eP     19 21.90  -0.5
       0.6s      3.60nm          4.3mb
ASPA   77.02 198 iPd    19 26.50   0.6
       0.6s     12.50nm          4.8mb
FLN    77.09 342 eP     19 25.70  -0.4
       0.8s     13.45nm          4.7mb
LDF    77.18 342 eP     19 26.10  -0.5
       0.8s     14.80nm          4.7mb
GRR    77.52 342 eP     19 28.40   0.0
       0.6s     19.85nm          5.0mb
LOR    77.61 339 eP     19 28.70  -0.3
       0.6s     10.80nm          4.7mb
LBF    77.85 339 iPc    19 29.80  -0.5
       0.6s      5.40nm          4.4mb
SSF    77.88 339 iPc    19 30.30  -0.1
       0.6s      4.95nm          4.4mb
LPF    77.89 342 eP     19 30.60   0.2
       0.6s     16.25nm          4.9mb
AVF    78.17 339 iPc    19 32.00   0.0
       0.6s      8.10nm          4.6mb
SMF    78.20 339 iPc    19 32.00  -0.2
       0.8s      8.05nm          4.5mb
BGF    78.50 339 eP     19 33.80   0.0
       0.5s      4.35nm          4.4mb
BOB    78.56 334 P      19 34.70   0.5
LPL    78.57 336 iPc    19 35.20   0.8
       0.6s     11.70nm          4.8mb
LPG    78.59 336 iPc    19 35.20   0.6
       0.6s     12.65nm          4.8mb
SFI    78.67 332 P      19 36.10   1.5
RSP    78.78 336 P      19 35.49   0.1
MAF    78.89 339 eP     19 36.20   0.4
       0.6s      9.00nm          4.7mb
BDI    78.90 333 P      19 37.20   1.2
TCF    78.90 340 iPc    19 36.10   0.2
       0.6s      5.40nm          4.4mb
PCP    79.01 335 P      19 35.90  -0.7
LSF    79.08 340 iPc    19 36.90   0.0
       0.8s     13.45nm          4.7mb
MFF    79.09 341 eP     19 37.20   0.3
       0.8s     10.75nm          4.6mb
RRL    79.12 336 P      19 37.95   0.6
CKI    79.19 335 P      19 37.30  -0.1
FIN    79.41 335 P      19 38.36  -0.3
ROB    79.42 335 P      19 38.26  -0.5
PZZ    79.42 336 P      19 37.64  -1.2
ENR    79.60 335 P      19 37.95  -1.8
STV    79.61 335 P      19 37.74  -2.0
IMI    79.77 335 P      19 40.21  -0.4
SBF    79.94 335 iPc    19 41.30  -0.1
       0.6s      9.00nm          4.7mb
RJF    79.98 340 eP     19 41.80   0.2
       0.8s      5.35nm          4.3mb
LFF    80.50 340 eP     19 44.80   0.6
       1.0s     24.00nm          4.9mb
LRG    80.60 336 iPc    19 45.30   0.6
       0.7s     13.25nm          4.8mb
LPO    80.65 340 eP     19 45.60   0.6
       1.0s     28.00nm          4.9mb
EPF    82.41 340 eP     19 54.70   0.5
       0.8s      5.35nm          4.3mb
LKO   115.95 336 Pdiff 22 43.12  15.7X
     S.D. = 0.8  on  94 of  95 obs.
-----------------------------------
%  JUL  08, 1991  16h 34m 42.91± 0.86s
   40.299 N ± 7.5km   27.840 E ± 6.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)

EDC     0.05  21 iPg    34 44.50  -0.6
BNT     0.08  47 iPg    34 45.00  -0.4
                 iSg    34 48.50
KGT     0.44 291 iPg    34 52.00   0.2
DST     0.92 139 ePg    35 00.50   0.0
CTT     0.96  28 iPg    35 02.00   0.8
YLV     1.20  77 iPg    35 05.50   0.2
DMK     1.52 358 ePn    35 09.90  -0.3
     S.D. = 0.6  on   7 of   7 obs.
-----------------------------------
%  JUL  08, 1991  18h 47m 46.39± 1.09s
   39.211 N ± 9.4km   28.940 E ±14.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)

DST     0.46 329 ePn    47 54.00  -1.8
KHL     1.00 153 ePn    48 05.00  -0.3
IZI     1.20  20 ePn    48 08.70  -0.1
YLV     1.39  14 ePn    48 12.00   0.1
KGT     1.77 315 ePn    48 18.50   1.3
CTT     1.97 349 ePn    48 21.00   0.8
     S.D. = 1.4  on   6 of   6 obs.
-----------------------------------
%  JUL  08, 1991  18h 52m 15.85± 0.63s
   46.786 N ± 6.0km    3.601 E ± 6.0km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                           (538)
      ML 2.5 (LDG).

AVF     0.17 272 Pg     52 20.00   0.3
                 Sg     52 23.00
SMF     0.22 130 Pg     52 19.90  -0.7
SSF     0.28 347 Pg     52 22.30   0.5
                 Sg     52 26.90
LBF     0.33  52 Pg     52 22.50  -0.1
                 Sg     52 27.20
LOR     0.51  20 Pg     52 26.00  -0.3
                 Sg     52 33.40
BGF     0.57 247 Pg     52 26.20  -1.2
                 Sg     52 33.80
MAF     0.91 232 Pg     52 32.00  -1.3
                 Sg     52 44.00
TCF     1.08 243 Pg     52 35.40  -0.8
                 Sg     53 48.80
LSF     1.53 250 Pg     52 43.20   0.0
                 Sg     53 02.10
RJF     2.07 225 Pg     52 53.00   1.9
                 Sg     53 18.80
CAF     2.15 211 Pg     52 53.80   1.6
                 Sg     53 20.80
     S.D. = 1.1  on  11 of  11 obs.
-----------------------------------
?  JUL  08, 1991  19h 50m 48.40± 7.85s
   39.535 N ±54.3km   23.575 E ±24.2km
   DEPTH =  10.0km  (geophysicist)
```

AEGEAN SEA (365)

PAIG	0.40	12	iPc	50	56.46	-0.1
			eS	51	02.60	
OUR	0.86	21	ePc	51	04.92	0.0
			eS	51	17.72	
LIT	1.01	304	ePc	51	07.48	0.0
SOH	1.30	353	ePc	51	12.56	0.1

S.D. = 0.2 on 4 of 4 obs.

& JUL 08, 1991 19h 52m 51.41s
63.101 N 150.852 W
DEPTH = 120.2km
CENTRAL ALASKA (1)
<AEIC>.

TRF	0.43	36	iPc	53	09.37	-0.1
			eS	53	22.99	
KTH	0.45	356	iPc	53	09.29	-0.2
			eS	53	22.65	
HUR	0.57	102	ePc	53	09.70	-0.4
			eS	53	24.15	
CUT	0.75	159	iPc	53	11.23	-0.2
			eS	53	27.61	
RND	0.95	70	ePc	53	12.87	-0.5
			eS	53	30.08	
MCK	1.07	53	iPc	53	14.03	-0.5
			S	53	31.59	
SKT	1.17	196	iPc	53	14.97	-0.5
			eS	53	33.45	
PWA	1.52	162	ePd	53	19.31	-0.2
GHO	1.61	145	iPd	53	20.11	-0.5
			eS	53	43.08	
SUA	1.64	178	eP	53	21.01	-0.1
			eS	53	43.73	
NEA	1.68	27	iPc	53	19.97	-1.4
			S	53	41.48	
PLRM	1.71	151	ePd	53	20.72	-1.0
			eS	53	44.17	
NCG	1.81	200	ePc	53	22.24	-0.8
CGLM	1.88	197	eP	53	23.31	-0.6
PMS	1.96	161	ePd	53	24.00	-0.9
			eS	53	49.18	
BGL	1.98	202	eP	53	25.23	0.0
SPU	2.01	197	eP	53	24.57	-0.9
KNK	2.03	145	eP	53	24.56	-1.2
			eS	53	51.21	
CKL	2.03	201	eP	53	25.28	-0.6
CCB	2.06	40	iPc	53	24.64	-1.4
RDS	2.10	33	iPc	53	25.30	-1.4
MDM	2.19	31	eP	53	26.34	-1.5
FBA	2.25	35	eP	53	27.71	-0.8
TOA	2.38	113	eP	53	29.61	-0.7
PAX	2.46	91	iPc	53	30.43	-0.9
SDG	2.50	101	eP	53	31.34	-0.5
SLKM	2.62	173	ePc	53	32.59	-0.8
RDT	2.64	197	eP	53	33.41	-0.3
DFR	2.66	200	eP	53	33.30	-0.7
RDN	2.75	200	eP	53	34.03	-1.2
REF	2.76	199	eP	53	34.56	-0.9
RSO	2.80	200	eP	53	35.96	0.1
KLU	2.81	123	eP	53	33.98	-2.0
GLI	2.85	140	ePd	53	34.43	-1.9
SEW	3.08	167	eP	53	37.87	-1.5
KNIM	3.13	150	ePd	53	37.66	-2.5
LTI	3.39	154	iPd	53	41.12	-2.4
CNPM	3.59	183	iPd	53	44.90	-1.4
PDB	3.69	207	eP	53	46.49	-1.1

39 obs. associated

JUL 08, 1991 21h 14m 22.19± 0.17s
53.162 N ± 3.6km 159.885 E ± 3.2km
DEPTH = 42.4km (13 depth phases)
5.4mb (72 obs.) 4.4Msz (15 obs.)
NEAR EAST COAST OF KAMCHATKA (218)
Felt (III) at Petropavlovsk-Kamchotskiy.

SMY	8.60	87	ePd	16	24.80	-2.1
KUSJ	14.25	231	eP	17	39.40	-3.6X
ADK	14.31	86	eP	17	41.90	-1.8
	1.3s	308.60nm				5.7mb
ASAJ	14.52	238	eP	17	48.90	2.4
HOOJ	15.48	232	eP	17	53.90	-5.0X
MRRJ	16.53	237	eP	18	08.70	-3.7X
AOMJ	18.28	234	eP	18	32.30	-1.8
OFUJ	18.84	229	eP	18	37.60	-3.3X
YAMJ	20.32	230	eP	18	57.60	0.5
ANM	20.97	43	e(P)	19	06.60	3.1X
MDJ	21.54	259	eP	19	08.60	-0.9
	1.0s	80.00nm				5.1mb
NIIJ	21.56	231	eP	19	10.70	1.0
KAKJ	21.88	227	eP	19	13.90	1.0
MAT	22.49	231	eP	19	20.00	1.0
	0.7s	287.67nm				5.8mb
			eS	23	23.00	
CHJJ	22.53	229	eP	19	21.00	1.6
MTMJ	22.65	232	eP	19	20.80	0.2
IIDJ	23.50	230	eP	19	31.90	3.0X
TSRJ	24.36	233	eP	19	38.40	1.2
CN2	24.46	261	Pc	19	36.00	-2.1
	Z	18s	2.60um			4.8Msz
	N	18s	0.70um			
	E	18s	0.75um			
			epP	19	48.00	47km
TTA	24.80	49	eP	19	41.50	0.2
SVW	24.97	54	eP	19	43.90	1.0
WKYJ	25.62	232	eP	19	50.50	1.3
YONJ	25.88	237	eP	19	52.70	1.1
IMA	26.07	42	eP	19	53.60	0.4
	0.9s	35.60nm				4.9mb
BRW	26.25	30	eP	19	54.90	0.4
TKSJ	26.55	234	eP	19	59.20	1.5
SNY	26.73	260	eP	19	57.80	-1.5
	Z	20s	1.10um			4.4Msz
KDC	26.93	61	e(P)	19	59.00	-2.0
BALM	31.38	52	eP	20	40.60	-0.3
BJI	32.25	264	eP	20	47.00	-1.5
	Z	18s	0.59um			4.3Msz
IRK	32.96	291	eP	20	54.00	-0.6
			e	21	14.30	87kmX
			e	21	23.70	
			e	21	30.90	
			e	22	10.20	
			e	22	33.50	
			e	23	37.70	
			e	26	54.00	
			e	28	43.00	
INK	33.89	38	eP	21	02.00	-0.5
	1.0s	46.00nm				5.4mb
			pP	21	14.00	45km
TIA	34.20	258	eP	21	03.70	-1.7
	Z	13s	0.70um			4.6MszX
HHC	34.52	269	P	21	07.00	-1.3
	Z	20s	1.00um			4.6Msz
	N	15s	0.40um			
	E	18s	0.70um			
			pP	21	17.00	35km
SSE	35.57	247	eP	21	15.50	-1.7
	Z	20s	0.50um			4.3Msz
			eS	26	48.00	
BTO	35.60	270	eP	21	16.00	-1.6
	N	14s	0.30um			
	E	14s	0.30um			
TIY	35.98	264	eP	21	19.40	-1.3
	Z	16s	0.80um			4.6MszX
	N	10s	0.22um			
			eS	26	47.00	
NJ2	36.16	251	Pd	21	21.00	-1.2
MBC	37.03	23	ePc	21	28.90	-0.1
	0.8s	28.00nm				5.2mb
			pP	21	46.00	69kmX
WHN	39.86	254	eP	21	52.20	-0.9
XAN	40.56	263	eP	21	57.30	-1.6
LZH	42.21	269	Pc	22	12.00	-0.6
	1.5s	70.00nm				5.2mb
	Z	20s	0.45um			4.4Msz
	N	11s	0.26um			
			pP	22	23.50	41km
			sP	22	30.00	
GTA	42.47	276	iPc	22	14.40	-0.3
	1.0s	50.00nm				5.2mb
	Z	14s	0.59um			4.6MszX
	N	12s	0.30um			
			pP	22	27.20	47km
			sP	22	32.20	
YKA	43.20	43	eP	22	20.10	0.0
	0.9s	16.40nm				4.8mb
CD2	45.85	264	eP	22	40.40	-1.4
WMO	46.83	289	P	22	49.20	-0.3
	1.0s	30.00nm				5.2mb
	Z	18s	0.80um			4.7Msz
			pP	22	58.00	29kmX
			sP	23	06.50	
			PcP	24	21.00	
			ScP	28	13.00	
GYA	47.39	257	P	22	53.60	-0.5
PNT	48.03	60	eP	22	59.00	0.2
	0.8s	14.00nm				5.0mb
NEW	49.98	60	eP	23	13.20	-0.6
	1.0s	8.25nm				4.7mb
			pP	23	25.10	43km
KMI	50.71	260	eP	23	22.00	2.2
QIZ	51.35	248	Pd	23	26.00	1.6
SES	51.71	55	ePc	23	26.60	-0.3
			pP	23	39.00	45km
FFC	53.07	46	ePc	23	36.00	-0.9
	0.9s	24.00nm				5.2mb
LSA	54.30	273	P	23	46.40	-0.4
TNP	56.69	70	iP	24	03.80	0.0
			pP	24	15.00	38km
FRB	57.49	23	eP	24	06.50	-2.3
ISA	57.68	72	eP	24	10.00	-0.6
			e	24	29.00	74kmX
CHG	57.79	258	eP	24	11.80	0.3
	1.1s	36.71nm				5.4mb
CHTO	57.79	258	eP	24	11.20	-0.2
	0.9s	23.44nm				5.3mb
			pP	24	22.20	37km
CLC	58.07	72	eP	24	13.00	-0.3
			e	24	32.00	74kmX
SBB	58.74	73	eP	24	18.00	0.0
			e	24	38.00	78kmX
GUN	58.76	276	P	24	17.00	-1.6
	0.4s	38.00nm				5.9mb
MWC	58.94	73	eP	24	19.00	-0.6
KKN	59.21	276	P	24	19.80	-1.7
PKI	59.29	276	P	24	20.60	-1.7
	0.4s	19.00nm				5.6mb
KAF	59.37	337	iP	24	20.20	-1.7
	0.4s	10.70nm				5.3mb
GKN	59.44	277	P	24	21.40	-1.6
	0.6s	30.00nm				5.6mb
DMN	59.45	276	P	24	21.60	-1.6
	0.6s	40.00nm				5.7mb
TPC	60.18	72	eP	24	37.00	9.1X
PLM	60.26	73	eP	24	28.00	-0.6
NUR	61.17	337	eP	24	32.50	-1.7
KHT	61.17	256	eP	24	34.50	-0.2
AKU	61.47	359	iP	24	36.80	0.7
	1.0s	24.00nm				5.3mb
GLA	61.65	72	eP	24	38.00	0.1
OBN	62.39	327	iPd	24	41.00	-1.4
	1.5s	*******nm				8.3mb X
	Z	18s	0.50um			4.7Msz
	N	18s	0.40um			
	E	18s	0.10um			
UPP	63.32	340	iP	24	47.20	-1.3
N82	63.44	344	P	24	47.60	-1.8
	0.7s	7.30nm				4.9mb
HFS	63.85	342	eP	24	50.20	-1.8
	0.4s	8.10nm				5.1mb
	Z	19s	0.20um			4.3Msz
			LR	54	53.00	
ANMO	64.93	65	eP	24	59.40	-0.2
	1.0s	8.25nm				4.7mb
ALO	64.93	65	eP	24	59.00	-0.7
	1.0s	10.00nm				4.8mb
SCH	65.67	28	eP	25	02.00	-1.9
IPM	68.05	247	ePc	25	20.10	0.7
	0.8s	39.60nm				5.5mb
KGM	68.93	243	ePd	25	26.10	1.3
TUL	69.80	57	ePc	25	28.40	-1.5
	0.6s	11.40nm				5.0mb
	Z	22s	0.19um			4.3Msz
			LR	52	34.00	
PSI	70.78	248	ePd	25	44.60	8.5X
EKA	70.97	350	Pd	25	36.60	-0.1
	0.4s	22.50nm				5.5mb
KRA	71.74	334	eP	25	41.10	-0.3
KSP	71.93	337	iPc	25	42.30	-0.2
CLL	72.24	339	iPc	25	43.60	-0.8
	1.4s	50.00nm				5.3mb
BRG	72.44	338	iP	25	45.20	-0.4
	1.3s	29.00nm				5.1mb
SPC	72.45	334	eP	25	44.60	-1.3
DMU	72.74	352	iPc	25	47.20	-0.1
	0.7s	83.00nm				5.8mb
WTS	72.81	343	iPc	25	48.00	0.3
	1.0s	39.00nm				5.3mb
PRU	73.14	337	P	25	49.30	-0.3

08d 21h

	0.6s	8.90nm				4.9mb
			i	25	50.40	4kmX
MOX	73.17	340	eP	25	48.40	-1.4
			i	25	50.00	5kmX
DCN	73.33	352	eP	25	50.80	0.1
VRI	73.54	328	iPc	25	51.00	-1.0
BNS	73.73	342	eP	25	53.30	0.2
ETA	73.87	351	eP	25	53.70	-0.1
CTAO	73.89	193	iPc	25	54.00	-0.3
	1.0s	30 00nm				5.2mb
MLR	74.12	328	ePd	25	55.00	-0.6
ENN	74.15	343	iPc	25	55.50	0.1
	1.0s	71.00nm				5.6mb
KOE	74.15	342	iPc	25	56.50	1.1
GRF	74.15	339	ePc	25	56.10	0.5
	1.5s	79.00nm				5.5mb
Z	24s	0.20um				4.3MszX
KHC	74.16	338	P	25	55.50	-0.2
	1.3s	27.20nm				5.1mb
			e	26	13.00	64kmX
ZST	74.19	335	iP	25	56.30	0.6
KLL	74.19	343	iPc	25	55.60	-0.2
SRO	74.23	334	iP	25	56.60	0.6
			e	26	15.60	70kmX
ECB	74.25	352	eP	25	56.00	0.0
MEM	74.28	343	iPc	25	56.38	0.1
WET	74.31	338	eP	25	56.90	0.4
	0.8s	28.00nm				5.3mb
UCC	74.38	344	P	25	57.00	0.2
GBA	74.72	272	Pc	25	58.00	-1.3
	1.1s	46.70nm				5.4mb
DOU	75.02	344	Pc	26	00.50	0.0
	0.9s	60.00nm				5.6mb
DZM	75.13	174	iPd	26	02.90	1.4
WLF	75.17	343	P	26	01.00	-0.3
GWF	75.56	342	P	26	03.80	0.1
BHG	75.65	338	iPd	26	05.60	1.4
WB2	76.09	205	iPd	26	06.50	-0.4
WRA	76.09	205	P	26	06.00	-0.9
	0.8s	18.70nm				5.1mb
KBA	76.14	337	iPc	26	07.90	0.7
	0.9s	67.30nm				5.6mb
			i	26	20.80	44km
			i	26	30.50	
CDF	76.16	342	P	26	07.21	0.0
WTTA	76.36	338	iPc	26	09.00	0.6
	1.1s	59.70nm				5.5mb
			i	26	22.50	47km
ECH	76.37	342	P	26	08.31	0.0
SOTA	76.49	339	iPc	26	09.50	0.4
	1.1s	46.90nm				5.4mb
			i	26	19.20	31kmX
FEL	76.53	341	P	26	09.08	-0.2
SLE	76.54	341	ePc	26	09.00	-0.2
VITF	76.59	342	P	26	09.70	0.2
PTJ	76.61	335	eP	26	09.50	-0.2
ZAG	76.68	335	iP	26	10.50	0.5
HAU	76.73	342	iPc	26	10.50	0.2
	1.0s	36.00nm				5.3mb
Z	20s	0.22um				4.5Msz
MOF	76.73	342	P	26	10.25	-0.1
FVI	76.73	337	P	26	11.30	1.1
BSF	76.81	342	iPc	26	10.70	-0.1
	1.0s	24.00nm				5.2mb
LJU	76.83	336	eP	26	10.50	-0.3
ZLA	76.84	341	ePc	26	11.60	0.7
VOY	77.00	336	e(P)	26	11.70	-0.2
BBS	77.03	341	P	26	12.06	0.1
FLN	77.09	347	iPc	26	12.10	-0.1
	0.8s	43.00nm				5.5mb
Z	20s	0.22um				4.5Msz
CEY	77.14	336	eP	26	12.00	-0.6
VBY	77.16	335	eP	26	12.50	-0.1
LDF	77.21	347	iPc	26	12.80	-0.1
	1.0s	32.00nm				5.3mb
OSS	77.23	339	ePc	26	13.80	0.5
LOMF	77.27	342	P	26	13.59	0.3
LLS	77.30	340	ePc	26	14.80	1.1
TRI	77.33	336	P	26	18.80	5.3X
GRR	77.51	347	iPc	26	14.70	0.2
	0.8s	56.40nm				5.6mb
RIY	77.52	336	eP	26	13.80	-0.8
VDL	77.56	340	ePc	26	15.80	0.7
LOR	77.88	344	iPc	26	16.90	0.3
	0.7s	36.40nm				5.5mb
Z	20s	0.30um				4.6Msz
LPF	77.89	347	iPc	26	17.00	0.4

	0.8s	36.25nm				5.5mb
GRC	77.99	344	P	26	17.59	0.4
TMA	78.05	340	ePc	26	18.00	0.2
PLE	78.06	332	iPc	26	18.15	0.4
LBF	78.14	343	iPc	26	18.10	0.0
	0.8s	13.45nm				5.0mb
SSF	78.14	344	iPc	26	18 30	0.3
	0.8s	29.55nm				5.4mb
MDI	78.19	339	P	26	17.50	-0.7
ALN	78.20	326	iPc	26	17.98	-0.4
MMK	78.29	340	ePc	26	20.20	1.0
IVA	78.34	331	iPc	26	19.28	0.0
DIX	78.37	341	ePc	26	20.70	1.0
AVF	78.43	344	iPc	26	20.10	0.5
SMF	78.49	343	iPc	26	20.30	0.3
	1.0s	56.00nm				5.5mb
PVY	78.57	331	iPc	26	19.93	-0.6
NKY	78.65	332	iPc	26	20.20	-0.8
ORX	78.69	340	P	26	21.30	0.1
BRY	78.70	332	iPc	26	20.32	-1.0
SKO	78.70	330	eP	26	20.80	-0.4
BGF	78.74	344	iPc	26	21.80	0.5
	0.8s	32.25nm				5.4mb
RSL	78.90	341	P	26	23.28	0.8
TTG	78.93	331	iPc	26	21.67	-0.7
VAY	78.94	329	iP	26	22.70	0.2
	0.8s	82.00nm				5.7mb
HVAR	79.01	334	iPc	26	22.10	-0.7
LPL	79.05	341	iPc	26	24.70	1.4
LPG	79.06	341	iPc	26	24.90	1.4
	0.8s	83.95nm				5.8mb
TCF	79.11	344	iPc	26	24.00	0.6
	0.8s	32.25nm				5.3mb
MAF	79.11	344	iPc	26	24.30	0.9
	0.8s	43.00nm				5.5mb
HCY	79.13	332	iPc	26	22.43	-1.0
SOH	79.15	328	ePc	26	22.74	-0.9
MFF	79.16	346	iPc	26	24.20	0.6
	0.6s	19.85nm				5.3mb
PLDF	79.18	343	P	26	24.74	0.9
AGO	79.18	344	P	26	24.92	1.1
BDV	79.19	332	iPc	26	22.85	-1.0
BOB	79.21	339	P	26	24.10	0.1
LSF	79.25	345	iPc	26	24.60	0.5
PHP	79.26	330	iPd	26	24.00	-0.2
RSP	79.29	341	P	26	24.27	-0.2
RSM	79.32	337	P	26	24.40	-0.1
GRG	79.33	329	ePc	26	25.18	0.5
ULC	79.36	331	iPc	26	24.00	-0.8
SFI	79.47	337	P	26	26.00	0.7
MME	79.48	338	P	26	26.00	0.3
PYM	79.50	344	P	26	26.50	0.9
BNI	79.50	341	P	26	23.70	-2.0
BHB	79.59	341	P	26	25.19	-0.8
ARV	79.61	336	P	26	26.00	-0.1
RRL	79.61	341	P	26	27.45	1.1
PCP	79.62	340	P	26	26.12	0.0
BDI	79.63	338	P	26	25.90	-0.3
BCK	79.63	321	eP	26	26.30	-0.1
CRE	79.72	337	P	26	24.90	-1.9
TIR	79.75	331	eP	26	27.00	0.2
ASPA	79.77	204	iPc	26	27.60	0.5
	0.6s	31.50nm				5.5mb
CKI	79.78	340	P	26	26.40	-0.6
PAIG	79.85	327	iPc	26	26.62	-0.8
DOI	79.92	340	P	26	26.10	-1.7
PZZ	79.95	341	P	26	27.45	-0.6
LBL	79.96	343	P	26	29.13	1.1
ROB	79.99	340	P	26	27.96	-0.2
FIN	80.00	340	P	26	27.65	-0.6
LIT	80.08	328	iPd	26	27.70	-1.0
ASS	80.08	336	P	26	29.60	0.9
ENR	80.15	340	P	26	27.65	-1.4
STV	80.15	340	P	26	27.76	-1.3
RJF	80.18	345	iPc	26	29.70	0.6
	0.8s	28.20nm				5.3mb
Z	20s	0.17um				4.4Msz
IMI	80.36	340	P	26	30.32	0.2
CAF	80.46	344	iPc	26	31.90	1.3
	0.8s	75.20nm				5.7mb
SBF	80.49	340	iPc	26	31.20	0.3
	1.0s	56.00nm				5.5mb
ELL	80.51	321	eP	26	31.20	0.1
LFF	80.65	345	iPc	26	32.60	1.0
	0.8s	40.30nm				5.4mb
TPE	80.67	330	eP	26	34.00	2.3
MNS	80.72	336	P	26	32.30	0.2

LPO	80.83	345	iPc	26	33.70	1.1
	0.8s	63.15nm				5.6mb
FRF	80.94	341	iPc	26	33.60	0.4
	0.9s	36.05nm				5.3mb
BRT	80.95	332	P	26	32.40	-0.8
DUI	80.96	334	P	26	33.90	0.5
SDI	81.08	335	P	26	34.20	0.2
LRG	81.10	341	iPc	26	35.00	1.0
	0.9s	58.95nm				5.6mb
Z	20s	0.13um				4.3Msz
LMR	81.19	341	iPc	26	35.20	0.8
	0.9s	58.95nm				5.6mb
HRI	81.21	315	iPc	26	40.30	5.4X
LCI	81.24	332	P	26	33.50	-1.2
SHBJ	81.25	314	P	26	35.96	0.9
RMP	81.26	336	P	26	35.70	0.9
PGF	81.42	339	iPc	26	36.10	0.3
	0.8s	24.20nm				5.2mb
SHMJ	81.67	315	P	26	37.95	0.8
SGO	81.76	333	P	26	36.40	-1.0
ORI	81.91	332	P	26	40.10	1.8
JARJ	82.01	315	P	26	39.08	0.1
MGR	82.09	333	P	26	39.00	-0.2
MMN	82.20	333	P	26	40.60	0.9
CSI	82.23	333	P	26	40.40	0.5
MTHF	82.31	343	P	26	42.09	1.7
TDS	82.32	332	P	26	40.20	-0.2
SALJ	82.32	315	P	26	41.09	0.5
ROI	82.34	332	P	26	41.00	0.5
LSPF	82.41	344	P	26	42.49	1.7
LESF	82.43	344	P	26	42.62	1.7
GRBF	82.57	344	P	26	43.03	1.3
EPF	82.58	345	iPc	26	42.40	0.6
	1.0s	76.00nm				5.7mb
CSTJ	82.66	314	P	26	42.29	-0.1
VDCF	82.68	343	P	26	43.50	1.2
PERF	82.69	343	P	26	43.70	1.4
SALF	82.71	344	P	26	43.97	1.5
CZI	82.79	332	P	26	41.10	-1.7
QTRJ	82.79	314	P	26	43.39	0.3
ENSF	82.80	345	P	26	45.01	2.0
DSI	82.83	315	iPc	26	48.40	5.2X
TRGS	82.83	344	P	26	44.81	1.6
ETER	82.87	343	eP	26	44.71	1.5
RYD	83.36	303	ePc	26	45.00	-1.1
ECRI	83.41	347	eP	26	47.35	1.3
EGRA	83.50	345	eP	26	47.77	1.4
STS	83.81	351	eP	26	48.55	0.5
SOI	83.88	332	P	26	46.10	-2.3
WARB	84.14	210	iPd	26	50.80	1.1
			e	27	03.00	40km
ERUA	84.17	350	eP	26	50.62	0.8
MBH	84.60	314	iPc	26	57.60	5.3X
EBR	84.71	344	eP	26	54.00	1.5
EROQ	84.72	345	eP	26	53.32	0.7
ERC	84.85	335	P	26	53.20	-0.2
HOL	84.96	314	iPc	26	54.00	0.0
ETOR	85.10	346	eP	26	55.41	0.8
ESEL	85.33	342	eP	26	56.49	0.8
GUD	85.56	348	eP	26	57.74	0.8
ECHE	86.15	345	eP	27	01.19	1.4
STK	86.17	196	iPc	27	00.20	0.5
	0.8s	6.90nm				4.9mb
			e	27	13.00	43km
EPLA	86.36	349	eP	27	01.37	0.5
EVIA	87.31	346	eP	27	06.07	0.5
BWA	87.79	189	eP	27	08.40	0.9
EBAN	87.95	347	eP	27	08.75	0.2
EHUE	88.13	346	eP	27	10.95	1.5
EHOR	88.47	348	eP	27	10.95	-0.1
CAN	88.62	189	eP	27	12.20	0.7
AFC	88.81	347	eP	27	12.90	0.0
EGUA	89.23	347	eP	27	13.98	-0.7
EJIF	89.85	348	eP	27	18.03	0.4
TIC	119.06	343	PKP	33	07.60	-0.4
KIC	119.29	342	PKP	33	07.90	-0.5
ZOBO	127.53	64	PKP	33	23.50	-1.4
LPB	127.76	64	PKP	33	25.80	0.7
CNCB	128.05	64	PKP	33	26.B0	1.0
SIV	130.99	57	PKP	33	28.40	-2.4X
KSR	135.75	289	ePKP	33	39.50	-0.3
SEK	137.21	286	iPKPc	33	45.20	2.7X
	0.5s	7.04nm				
FRS	139.61	287	ePKP	33	27.20	-19.3X
SPA	142.98	180	iPKPc	33	46.90	-4.7X
	0.8s	35.42nm				
VAO	143.63	45	(PKP)	33	51.00	-2.9X

S.D. = 1.0 on 280 of 297 obs.

JUL 08, 1991 22h 18m 02.83± 0.59s
38.241 N ± 5.1km 26.568 E ± 5.1km
DEPTH = 13.5 ± 2.8 km
AEGEAN SEA (365)
ML 3.6 (ATH).

IZM	0.57	74	iPg	18 15.00	0.9
			iSg	18 23.00	
PRK	1.03	347	ePn	18 22.80	0.9
			eSn	18 36.00	
EZN	1.59	353	iPn	18 30.80	0.1
YER	1.75	129	iPn	18 33.50	0.4
DST	2.11	49	ePn	18 37.50	-0.7
ATH	2.27	264	ePn	18 47.50	7.1X
			eSn	19 17.00	
KGT	2.28	14	iPn	18 40.50	-0.1
KHL	2.33	87	ePn	18 41.00	-0.4
EDC	2.33	25	ePn	18 41.50	0.1
BNT	2.36	26	ePn	18 42.50	0.8
RDO	3.01	345	ePn	18 51.00	0.1
IZI	3.08	46	ePn	18 52.50	0.5
YLV	3.18	42	ePn	18 54.00	0.5
CTT	3.24	26	ePn	18 54.50	0.3
VLI	3.26	243	ePn	18 54.50	-0.1
ISK	3.41	33	ePn	18 56.00	-0.7
HRT	3.52	42	ePn	18 58.00	-0.3
DMK	3.69	14	ePn	19 00.00	-0.7
VAY	4.35	316	ePn	19 22.00	12.0X

S.D. = 0.6 on 17 of 19 obs.

& JUL 08, 1991 22h 29m 14.16s
46.932 N 120.336 W
DEPTH = 4.2km
WASHINGTON (29)
<SEA>. MD 2.6 (SEA).

EBG	0.16	262	Pd	29 17.90	0.4
VTG	0.24	84	P	29 19.06	0.0
T8M	0.30	323	Pc	29 21.31	1.1
BVW	0.33	111	P	29 21.49	0.6
			S	29 27.72	
MXC	0.36	175	P	29 21.74	0.4
NAC	0.39	240	Pd	29 23.26	1.3
TWW	0.42	300	P	29 23.62	1.1
YAKW	0.43	198	P	29 23.89	1.1
BRVW	0.51	152	Pd	29 24.99	0.7
MDW	0.51	129	Pc	29 24.97	0.6
WAH2	0.56	108	P	29 25.59	0.2
RC1	0.62	89	P	29 26.55	0.0
LOCW	0.66	109	Pc	29 27.59	0.3
EPH	0.66	50	P	29 26.96	-0.4
CRF	0.66	99	P	29 27.14	-0.2
ETW	0.67	0	Pc	29 27.27	-0.3
GBL	0.69	119	P	29 28.13	0.2
RSW	0.75	136	Pc	29 29.32	0.2
MJ2	0.77	119	P	29 29.63	0.1
OT2	0.79	105	P	29 29.78	-0.1
WTV	0.81	19	P	29 30.40	0.1
WRD	0.82	87	P	29 30.03	-0.4
PRW	0.85	148	P	29 30.75	-0.3
WPW	0.86	255	P	29 30.84	-0.5
WIW	0.88	124	P	29 31.52	0.0
CBSW	0.90	13	P	29 31.58	-0.4
FMW	0.92	270	Pd	29 31.82	-0.5
GLK	0.95	248	P	29 32.84	0.0
ET3	1.03	110	P	29 32.68	-1.4
LON	1.03	260	P	29 33.84	-0.3
GL2	1.03	199	P	29 34.13	-0.1
GSM	1.03	286	P	29 34.08	-0.2
DHW2	1.12	20	P	29 35.57	-0.2
PATW	1.12	159	P	29 36.74	1.0
RMW	1.13	298	P	29 35.73	-0.2
NLW	1.15	360	P	29 35.79	-0.5
ASR	1.17	228	P	29 37.20	0.6
OD2	1.20	67	P	29 36.43	-0.7
KOSW	1.36	250	P	29 39.73	-0.2
LMW	1.37	260	P	29 40.36	0.3
TDL	1.42	247	P	29 40.95	0.1
CDFW	1.44	236	P	29 41.65	0.6
VGB	1.45	192	P	29 40.90	-0.3
ESD	1.45	240	P	29 42.57	1.2
JLK	1.48	239	P	29 42.09	0.4
JBO	1.51	167	P	29 42.11	0.1
MTMW	1.58	236	P	29 43.46	0.4
JCW	1.66	320	P	29 44.51	0.3
LVP	1.67	240	P	29 44.80	0.4
RPW	1.71	333	P	29 46.32	1.4
DPW	1.73	56	P	29 43.79	-1.4
VLL	1.74	213	P	29 46.03	0.6
VTHM	1.76	185	P	29 45.55	-0.1
LNOR	1.77	126	P	29 46.28	0.5
GMW	1.78	291	P	29 46.93	1.0
VLMM	1.83	221	P	29 47.62	0.9
CPW	1.92	272	P	29 48.93	1.0
CROR	2.00	193	P	29 49.33	0.1
BMW	2.04	258	P	29 50.37	0.6
VBEM	2.07	205	P	29 51.30	1.1
8LN	2.09	302	P	29 51.43	1.1
SMW	2.09	282	P	29 52.08	1.7
NLO	2.31	250	P	29 53.90	0.3
VIPM	2.43	185	P	29 56.18	0.7

64 obs. associated

% JUL 08, 1991 22h 58m 19.56± 0.76s
39.469 N ± 6.2km 27.439 E ± 7.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

DST	0.93	81	ePn	58 37.00	-0.3
EZN	0.93	293	iPg	58 37.30	0.0
			eSg	58 50.80	
EDC	0.94	20	iPg	58 37.50	0.1
			eSg	58 51.50	
BNT	0.96	23	iPg	58 38.50	0.7
KGT	0.99	354	iPg	58 37.70	-0.6
IZM	1.08	187	ePn	58 40.00	0.1

S.D. = 0.6 on 6 of 6 obs.

? JUL 08, 1991 23h 08m 55.86± 8.69s
40.847 N ±14.2km 30.491 E ±61.0km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

EYL	0.38	222	iPg	09 04.00	0.3
			iSg	09 14.00	
HRT	0.62	268	ePn	09 08.00	-0.5
YLV	0.89	252	iPn	09 13.50	0.4
IZI	0.93	237	iPn	09 13.00	-0.6
ISK	1.11	282	ePn	09 17.00	0.4
CTT	1.59	282	ePn	09 24.00	-0.1

S.D. = 0.6 on 6 of 6 obs.

& JUL 08, 1991 23h 49m 07.40s
36.140 N 89.440 W
DEPTH = 12.3km
NEW MADRID, MISSOURI REGION (486)
<SLM>. MD 3.0 (SLM).

MFTN	0.04	61	iPc	49 09.86	0.0
			eS	49 12.01	
OHTN	0.07	279	iPc	49 09.92	-0.1
			eS	49 11.32	
GRT	0.12	6	iPd	49 10.77	0.1
			eS	49 11.75	
HATI	0.19	281	iPd	49 12.42	0.5
ACTN	0.23	27	iPd	49 12.48	0.0
			eS	49 15.70	
CBD	0.25	316	eP	49 12.57	-0.2
			eS	49 15.81	
NRMS	0.37	341	iP	49 14.63	-0.4
ECD	0.41	259	ePd	49 15.71	-0.2
LST	0.45	329	iP	49 16.07	-0.5
NMMO	0.46	349	eP	49 16.31	-0.5
CRU	0.57	37	ePc	49 18.27	-0.5
			eS	49 25.80	
OKG	0.60	212	ePc	49 18.83	-0.5
			eS	49 26.89	
WGAR	0.67	245	iPd	49 20.69	0.2
			eS	49 30.55	
PGA	0.96	266	ePc	49 24.82	-0.6
			eS	49 37.18	
JHP	1.02	239	eP	49 26.53	0.1
			eS	49 40.34	
DON	1.11	339	ePc	49 27.38	-0.6
			eS	49 42.41	
ELC	1.16	8	ePd	49 28.09	-0.7
			eS	49 43.41	
GOIL	1.34	31	eP	49 31.39	-0.4
			eS	49 49.07	
POW	1.41	271	ePc	49 32.19	-0.6
			eS	49 51.69	
CSIL	1.58	19	eP	49 35.15	0.0
			eS	49 57.15	
OLY	1.77	250	eP	49 37.16	-0.8
FVM	2.00	337	eP	49 41.50	0.2

22 obs. associoted

% JUL 09, 1991 00h 23m 39.48± 1.54s
36.490 N ±13.3km 3.506 W ± 9.3km
DEPTH = 10.0km (geophysicist)
STRAIT OF GIBRALTAR (385)
mbLg 2.9 (MDD).

EGUA	0.35	352	ePg	23 46.20	-0.4
			eSg	23 52.80	
AFC	0.76	358	ePg	23 54.40	-0.1
			eSg	24 05.60	
ENIJ	1.15	65	ePg	24 00.40	-0.6
			eSg	24 16.00	
EHUE	1.51	29	eP	24 07.80	1.1
			eS	24 28.80	
EJIF	1.58	269	ePn	24 07.60	0.0
			eSn	24 28.20	

S.D. = 1.0 on 5 of 5 obs.

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* JUL 09, 1991 00h 26m 43.66± 1.44s
38.347 N ±12.8km 21.185 E ±16.5km
DEPTH = 10.0km (geophysicist)
GREECE (364)
MD 3.0 (ATH).

KEK	1.74	322	ePb	27 13.50	-0.6
			eSb	27 37.80	
KZN	2.01	13	ePn	27 18.00	-0.1
ATH	2.03	100	ePn	27 17.00	-1.3
VLI	2.14	139	ePb	27 20.80	0.9
VAY	3.16	19	ePn	27 35.30	1.0
SKO	3.63	3	ePg	27 45.40	4.4X

S.D. = 1.4 on 5 of 6 obs.

? JUL 09, 1991 00h 42m 39.94± 0.97s
39.115 N ± 7.5km 29.285 E ±14.1km
DEPTH = 10.0km (geophysicist)
TURKEY (366)

DST	0.71	314	ePg	42 54.00	0.1
KHL	0.81	167	ePg	42 55.70	0.0
			eSg	43 07.20	
IZI	1.23	7	iPn	43 02.50	-0.3
EYL	1.60	25	iPn	43 08.70	0.3

S.D. = 0.5 on 4 of 4 obs.

% JUL 09, 1991 01h 41m 59.52± 2.09s
41.265 N ±14.1km 21.213 E ±12.8km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)

FNA	0.50	166	ePc	42 08.96	-0.6
			eS	42 20.04	
GRG	0.95	109	ePc	42 18.20	0.6
			eS	42 34.56	
KNT	1.28	94	ePc	42 22.84	-0.4
			eS	42 43.32	
THE	1.47	115	ePd	42 26.08	0.1
LIT	1.51	140	ePc	42 27.12	0.4
			eS	42 51.56	
SOH	1.68	105	iPc	42 29.16	0.1
			iS	42 56.44	
SRS	1.80	94	ePc	42 30.44	-0.4
			eS	42 58.00	
IGT	1.86	202	ePd	42 31.96	0.3
OUR	2.30	113	iPd	42 39.48	1.5
PAIG	2.30	125	ePd	42 37.88	-0.2
AGG	2.40	159	ePd	42 39.12	-0.4
			eS	43 11.08	
ALN	3.67	94	ePd	42 56.64	-0.9

S.D. = 0.7 on 12 of 12 obs.

? JUL 09, 1991 01h 54m 02.82± 4.70s
8.617 S ±50.2km 124.160 E ±20.1km
DEPTH = 165.5 ± 14.3 km
4.1mb (2 obs.)
TIMOR (289)

KUPT	1.62	200	eP	54 35.00	-0.1
			eS	55 02.00	
MTN	8.04	122	iPd	55 58.00	0.3
	0.3s	163.00nm			6.0mb X
			eS	57 26.00	

09d 01h

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KNA      8.40 148 iPd    56 02.80    0.3
       0.3s     34.00nm          5.3mb X
                 eS     57 37.00
WR2     14.98 140 eP     57 26.60   -0.9
       0.6s     11.10nm          4.4mb
                 eS     00 08.60
WARB    17.63 173 eP     58 00.00    0.2
ASPA    17.63 149 iPc    58 00.00    0.2
       1.5s      8.20nm          3.9mb
                 eS     01 13.60
QIS     19.07 130 eP     58 15.00    0.0
                 eS     07 17.00
     S.D. = 0.6  on   7 of   7 obs.
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   JUL  09, 1991  01h 58m 05.49± 0.44s
   43.332 N ± 4.3km   20.987 E ± 3.9km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                        (383)
     ML 3.3 (ZAG), 3.0 (TTG). MD 3.1
     (ATH).

IVA      0.92 240 iPgc    58 23.15    0.0
                 iSg    58 34.47
PVY      1.05 226 iPgd    58 25.10   -0.2
                 iSg    58 38.42
PLE      1.16 270 iPgc    58 28.17    0.9
                 iSg    58 43.44
SKO      1.40 166 ePn     58 30.20   -0.8
                 i      58 31.20
                 iSg    58 49.00
BEO      1.54 346 iPn     58 35.30    2.4
                 iSg    58 56.50
NKY      1.55 251 iPgd    58 34.54    1.3
                 iSg    58 54.69
TTG      1.56 235 iPgd    58 34.24    1.0
                 iSg    58 55.25
PHP      1.69 194 iPnd    58 34.60   -0.6
SDA      1.71 220 ePn     58 36.30    0.8
BRY      1.84 257 iPnd    58 38.35    0.8
                 iSn    59 02.92
ULC      1.87 224 iPnc    58 39.59    1.7
                 iSn    59 03.54
BDV      1.90 237 iPnc    58 40.24    1.9
                 iSn    59 03.97
HCY      2.03 245 iPnc    58 41.67    1.5
                 iSn    59 07.09
TIR      2.15 203 ePn     58 45.20    3.3X
VAY      2.33 149 iPn     58 44.40    0.0
FNA      2.56 173 iPd     58 49.66    1.9
GRG      2.60 156 ePc     58 48.50    0.2
SRS      2.94 138 ePc     58 52.78   -0.3
SOH      3.07 144 ePd     58 54.58   -0.3
THE      3.07 151 ePd     58 53.50   -1.4
KZN      3.08 169 ePb     58 55.00   -0.1
HVAR     3.32 269 ePn     59 00.50    2.0
LIT      3.42 160 ePc     58 59.54   -0.4
KEK      3.72 194 ePn     59 16.30   12.0X
BRT      3.73 230 P       59 03.90   -0.5
                 eSn    59 46.70
PAIG     3.96 148 ePc     59 06.66   -0.8
RDO      4.02 121 ePn     59 10.00    1.6
MLR      4.16  57 eP      59 27.00   16.5X
ZAG      4.35 307 ePg     59 26.50   13.3X
                 eSn    00 00.00
PTJ      4.41 307 eP      59 13.60   -0.5
AGG      4.42 166 ePc     59 13.70   -0.5
VBY      4.64 300 eP      59 25.00    7.7X
                 e(Sg)  00 49.00
PSZ      4.65 351 eP      59 17.00   -0.5
VRI      4.82  56 eP      59 20.00    0.2
SRO      4.86 338 iP      59 39.70   19.4X
SGO      5.06 239 P       59 22.20   -1.0
                 eSn    00 16.70
RIY      5.14 295 iPnc    59 24.80    0.5
MGR      5.17 234 P       59 23.00   -1.7
                 eSn    00 20.60
CEY      5.27 299 e(Pn)   59 25.00   -1.2
                 e      59 36.50
LJU      5.34 303 e(Pn)   59 24.00   -3.2X
                 eSn    00 25.00
SDI      5.54 255 P       59 29.20   -0.9
ZST      5.57 332 eP      59 33.40    3.0X
VOY      5.73 301 ePn     59 32.60   -0.2
                 eSn    00 38.10
ARV      5.86 274 P       59 33.20   -1.3
ASS      6.09 270 P       59 36.50   -1.3
SOI      6.45 217 P       59 39.80   -3.0X
                 eSn    00 49.40
CRE      6.58 276 P       59 44.30   -0.5
SFI      6.66 278 P       59 44.60   -1.1
FVI      6.67 302 P       59 46.00    0.1
PGD      6.75 278 P       59 44.80   -2.4
     S.D. = 1.2  on  41 of  50 obs.
-----------------------------------
   JUL  09, 1991  02h 40m 10.81± 0.63s
   60.404 N ± 5.5km    5.625 E ± 6.2km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN NORWAY                   (535)
     MD 2.2 (BER).

BER      0.15 262 iPgc    40 15.44    1.3
                 iSg    40 16.72
ASK      0.23 291 iPd     40 16.11    0.4
                 iSg    40 18.88
EGD      0.24 236 iPc     40 15.98    0.1
                 eS     40 17.44
ODD1     0.70 134 iPc     40 26.36    1.6
                 iS     40 36.69
SUE      0.78 327 eP      40 25.42   -0.6
                 eS     40 35.24
HYA      0.81  20 iPc     40 27.96    1.4
                 iS     40 39.61
KMY      1.21 189 eP      40 31.65   -1.7
                 eSg    40 47.97
FOO      1.23 347 eP      40 33.46   -0.2
                 eS     40 49.90
FRO      1.41 345 eP      40 35.40   -1.0
                 eS     40 54.76
MOL      2.36  22 iP      40 49.75   -0.4
                 eSg    41 26.17
HFS      4.03  90 eP      41 12.90   -0.9
       0.2s      0.80nm
     S.D. = 1.2  on  11 of  11 obs.
-----------------------------------
?  JUL  09, 1991  05h 33m 48.40± 1.31s
   15.137 N ±11.0km  119.947 E ±21.9km
   DEPTH =  33.0km  (normal)
   4.5mb (  1 obs.)
 LUZON, PHILIPPINE ISLANDS         (249)

PGP      1.90 149 eP      34 19.00    0.0
SZP      2.45  11 eP      34 28.00    1.1
CVP      3.12  35 eP      34 33.00   -3.4X
PIP      3.24  11 ePd     34 37.00   -1.0
PJG     24.19  90 eP      39 02.80   -0.2
LZH     25.35 328 eP      39 14.00   -0.2
       1.5s     20.00nm          4.5mb
     S.D. = 1.1  on   5 of   6 obs.
-----------------------------------
   JUL  09, 1991  05h 54m 07.13± 0.18s
   20.599 S ± 4.3km   68.803 W ± 3.9km
   DEPTH = 100.9km  ( 17 depth phases)
   5.3mb ( 45 obs.)
 CHILE-BOLIVIA BORDER REGION       (124)
      CENTROID, MOMENT TENSOR      (HRV)
      Data Used: GDSN
      L.P.B.: 18S, 35C
      Centroid Location:
      Origin Time        05:54:13.2 0.4
      Lat 20.79S 0.04 Lon  68.93W 0.05
      Dep 119.8 2.3 Half-duration  1.8
      Moment Tensor;   Scale 10**17 Nm
        Mrr=-0.95 0.05  Mtt= 0.47 0.09
        Mff= 0.49 0.10  Mrt= 0.15 0.05
        Mrf=-1.09 0.06  Mtf=-0.58 0.08
       Principal Axes:
        T  Val=  1.43  Plg=22  Azm= 56
        N        0.12       18      154
        P       -1.55       61      279
      Best Double Couple:Ma=1.5*10**17
       NP1:Strike=115 Dip=28 Slip=-132
       NP2:        341      70      -71

ANT      3.43 206 iPc     54 52.90   -6.7X
                 iS     55 20.50
CNCB     3.85  12 iPc     55 11.80    6.0X
CCH      4.07  39 iPc     55 14.00    5.3X
LPB      4.10  10 iPc     55 14.80    5.6X
                 S      56 06.00
ZOBO     4.35   9 iPc     55 17.40    4.6X
                 (S)    55 41.00
                 LR     57 13.00
ARE      4.84 328 iPc     55 17.70   -1.6
                 iS     56 14.00
CYA      8.28 161 eP      56 01.00   -5.2X
SIV      8.65  59 iPc     56 11.00   -0.4
RTLL    10.69 178 ePd     56 30.00   -8.8X
NNA     11.52 317 iP      56 47.70   -2.2
       0.8s     16.42nm          4.9mb
                 i      57 01.00
                 eS     58 52.00
PT10    11.54 316 e(P)    56 48.50   -1.6
                 eS     59 05.00
MDZ     12.24 180 iP      56 59.90    0.7
                 PPP    57 05.70
                 S      00 16.60
                 SSS    01 56.70
PEL     12.61 187 eP      56 53.50  -10.5X
                 eS     59 38.00
IHA     12.63 191 eP      57 11.00    6.7X
                 e(S)   59 33.00
ITB1    13.91 110 e(P)    57 20.50   -0.5
ITB     14.10 110 e(P)    57 23.00   -0.5
ITB7    14.21 111 e(P)    57 27.50    2.5
VAO     20.41 101 eP      58 36.10   -2.3
                 e      58 37.00    3kmX
                 e      58 49.70
PSO     23.21 338 eP      59 09.50    3.0X
RDJ     23.86 100 eP      59 12.40    0.1
BOG     25.59 348 eP      59 31.00    2.0
                 eS     03 54.00
SOB1    29.20  71 eP      59 58.90   -2.5
                 i      00 01.30    8kmX
                 e      00 03.50
                 e      00 14.00
UPA     31.23 339 ePd     00 20.80    1.6
       1.3s     61.54nm          5.2mb
TPP     31.56  14 eP      00 24.73    2.6
TBH     31.81  15 eP      00 25.87    1.6
TCE     31.86  13 eP      00 25.81    1.0
TRN     31.89  14 eP      00 24.93   -0.1
GRW     33.30  13 eP      00 37.05   -0.3
CAI     33.72  70 iPc     00 40.50   -0.5
BIM     35.71  13 eP      00 57.07   -0.8
MVM     35.79  13 eP      00 57.56   -0.9
FDF     35.91  13 eP      00 58.25   -1.3
LPS     40.03 328 eP      01 35.00    0.9
       1.0s     25.00nm          5.0mb
IIT     48.85 322 (P)     02 46.20    1.4
III     49.03 320 (P)     02 47.20    1.1
PPM     49.07 321 (P)     02 48.00    1.2
MRX     51.09 320 (P)     03 02.80    1.3
JSC     55.84 348 P       03 35.50   -0.8
                 pP     04 01.30  106km
BLA     58.53 349 iPc     03 55.50    0.3
                 PcP    04 57.50
CBN     59.04 352 eP      03 59.00    0.3
MBO     61.68  60 iPc     04 17.00    0.0
FVM     61.72 341 iPd     04 15.50   -1.4
                 pP     04 41.00  102km
TUL     61.74 335 ePd     04 15.40   -1.7
       1.0s     79.00nm          5.7mb
CLE     62.89 349 iP      04 23.50   -1.1
ALQ     65.80 327 iPd     04 43.20   -0.7
       0.9s     30.67nm          5.2mb
                 e      05 08.00   98km
ANMO    65.80 327 iPd     04 43.20   -0.7
                 pP     05 08.50  100km
                 PcP    05 57.00
NVL     67.64 159 (P)d    04 54.00   -0.8
                 e      04 59.00   16kmX
                 e      05 20.00
                 e      05 28.00
LIC     68.04  74 Pc      04 57.28   -0.9
       0.9s     59.00nm          5.5mb
     Z  20s      0.22um          4.4Msz
TIC     68.23  74 Pc      04 58.58   -0.8
       1.0s    115.50nm          5.7mb
KIC     68.36  74 Pc      04 59.48   -0.7
       0.9s    165.50nm          5.9mb
LKO     68.97  71 Pc      05 03.12   -0.8
       0.8s     78.50nm          5.6mb
GLD     68.99 331 ePd     05 03.50   -0.3
GOL     69.02 331 iPd     05 03.50   -0.6
       1.0s     75.00nm          5.5mb
                 PcP    05 14.00
                 pP     05 29.00  100km
GLA     69.12 320 eP      05 05.00    0.5
                 e      05 28.00   89kmX
SPA     69.53 180 iPd     05 05.00   -1.7
       1.0s     37.00nm          5.2mb
```

```
PV09   69.91 327 P      05 09.50   0.0
BAR    70.00 318 iPd    05 09.00  -0.9
PLM    70.57 319 eP     05 13.00  -0.5
TPC    70.58 320 iPd    05 14.00   0.6
PEC    71.11 319 ePd    05 14.00  -2.6
       1.3s     40.94nm          5.1mb
                PcP     05 32.00
RVR    71.31 319 iPd    05 18.00   0.2
GSC    71.85 320 iPd    05 21.00  -0.1
MWC    71.89 319 iPd    05 21.00  -0.4
PAS    71.91 319 eP     05 21.00  -0.3
                e       05 47.00 101km
RSSD   72.03 334 P      05 22.00  -0.1
       0.9s     52.28nm          5.4mb
                pP      05 47.00  97km
SBB    72.05 319 iPd    05 22.00  -0.3
                e       05 48.00 101km
CLC    72.67 320 iPd    05 25.00  -0.9
ISA    73.10 320 iPd    05 28.00  -0.4
                e       05 54.00 101km
TNP    73.99 322 P      05 34.00   0.4
       1.0s     56.25nm          5.3mb
RUV    74.33 259 eP     05 35.00  -0.8
       1.2s     45.00nm          5.2mb
VAH    74.54 259 eP     05 36.00  -1.0
       1.2s     55.00nm          5.3mb
TPT    74.61 260 eP     05 37.00  -0.4
       1.2s     80.00nm          5.4mb
PRI    74.76 319 iPd    05 38.57   0.6
PMO    74.86 259 eP     05 38.00  -0.8
       1.2s     55.00nm          5.3mb
SCH    75.13   1 eP     05 39.00  -0.5
PRS    75.31 318 iPd    05 41.65   0.6
PAE    75.60 256 eP     05 43.00  -0.1
       1.2s    100.00nm          5.5mb
PPT    75.63 256 eP     05 43.00  -0.2
       1.2s    100.00nm          5.5mb
SAO    75.64 319 iPd    05 42.92   0.0
CMB    75.81 320 iPd    05 44.18   0.3
MHC    76.13 319 ePd    05 46.50   0.7
GCC    76.15 319 iPd    05 46.21   0.5
PCC    76.68 319 eP     05 48.90   0.2
SBA    76.73 190 iPd    05 48.20  -0.2
BKS    76.83 319 iPd    05 50.00   0.5
       0.8s     50.00nm          5.4mb
BRK    76.84 319 ePd    05 49.80   0.2
LRM    77.05 330 eP     05 51.40   0.5
                e       06 18.00 103km
ORV    77.46 321 iPd    05 53.78   0.8
MIN    78.03 322 iPd    05 55.60  -0.7
TIO    78.18  51 iP     05 58.50   1.2
                i       06 02.50  13kmX
                i       06 14.50
WDC    78.73 321 iPd    05 58.84  -1.1
AVE    79.36  48 iP     06 04.50   1.0
                i       06 28.80  92km
FOX    79.55 320 iPd    06 05.48   1.2
FHC    79.72 321 iPd    06 06.42   1.1
SES    79.91 334 iPd    06 06.40   0.3
       1.2s    155.00nm          5.7mb
                pP      06 33.00 102km
FFC    80.21 341 iPc    06 07.30  -0.3
       1.2s     52.00nm          5.2mb
PNT    82.94 329 ePd    06 23.00   1.1
MAL    83.28  47 iPd    06 26.30   2.5
                eS      16 44.00
HVD    83.30 120 iPd    06 25.20   0.7
       0.7s     34.25nm          5.4mb
                i       06 52.40 104km
FRS    83.45 119 iPd    06 23.50  -1.5
       0.7s     30.82nm          5.3mb
                i       06 50.90 105km
FRB    84.07   0 eP     06 27.00  -0.1
PGC    84.39 327 eP     06 30.00   0.9
MAW    85.16 163 eP     06 33.00   0.1
       0.9s     25.00nm          5.2mb
SEK    85.84 119 eP     06 39.00   1.8
                i       07 05.70 101km
KSR    86.11 116 eP     06 39.50   0.9
       1.0s     45.00nm          5.4mb
                i       07 06.00 100km
SLR    87.32 116 eP     06 44.00  -0.4
       1.2s     62.50nm          5.5mb
                i       07 11.00 102km
YKA    90.37 341 eP     06 57.50  -0.2
       0.7s     22.30nm          5.4mb
LFF    90.78  42 eP     06 59.80  -0.2
       0.8s     18.80nm          5.3mb
LPO    90.94  42 eP     07 00.80   0.1
       0.8s      8.05nm          5.0mb
MFF    91.04  40 eP     07 01.50   0.4
       1.0s     16.00nm          5.2mb
LSZ    91.06 107 eP     07 07.00   4.9X
                i       07 31.00  88kmX
RJF    91.44  42 eP     07 02.80  -0.2
       1.0s     14.00nm          5.2mb
     Z  20s      0.20um          4.6Msz
CAF    91.61  42 eP     07 02.70  -1.1
       0.9s      8.20nm          5.0mb
LSF    91.89  41 eP     07 04.90  -0.2
       1.2s     11.90nm          5.1mb
TCF    92.33  41 eP     07 06.90  -0.2
       1.0s      4.00nm          4.7mb
MAF    92.52  41 eP     07 07.70  -0.3
       1.0s     10.00nm          5.1mb
BGF    92.84  41 eP     07 09.10  -0.3
       0.8s     10.75nm          5.2mb
AVF    93.26  41 eP     07 10.80  -0.5
       1.2s     13.40nm          5.2mb
CSY    93.38 180 eP     07 11.60  -0.1
       0.7s     22.30nm          5.6mb
SSF    93.47  41 eP     07 12.00  -0.3
       1.0s      6.00nm          4.9mb
SMF    93.49  41 eP     07 12.10  -0.4
       1.0s     14.00nm          5.3mb
L8F    93.73  41 eP     07 13.30  -0.3
       1.2s     10.40nm          5.1mb
LOR    93.78  41 eP     07 13.30  -0.5
       0.8s      4.05nm          4.9mb
     Z  20s      0.15um          4.4Msz
MBC   101.37 349 ePdiff07 49.00   1.5
       1.0s     12.00nm          5.5mb
ASPA  130.75 208 iPKPc 13 07.10  -1.6
       1.0s     16.30nm
                ePKS    16 29.50
MAIO  132.47  59 ePKP   13 12.00   0.3
                i       13 41.00
WRA   133.77 211 PKP    13 12.00  -2.5X
       1.1s     12.80nm
KUSJ  144.12 316 PKP    13 29.60  -3.0X
KSH   144.48  50 ePKP   13 34.00   0.5
ASAJ  144.91 319 ePKP   13 33.20  -0.7
HOOJ  145.38 316 ePKP   13 34.60  -0.1
KOD   145.96 102 ePKP   13 38.50   1.6
MRRJ  146.78 318 ePKP   13 37.80   0.8
G8A   147.04  97 PKPc   13 38.30   0.1
       0.8s     10.50nm
GUA   147.06 263 ePKP   13 38.80   0.5
       0.8s    197.01nm
GUMO  147.12 263 ePKPd  13 38.90   0.5
       0.9s    272.80nm
                e       14 07.20
PJG   147.12 263 ePKPd  13 39.00   0.6
IRK   147.94   8 ePKP   13 39.20   0.6
                e       14 11.30
                e       14 32.00
NDI   148.17  69 ePKP   13 40.00   0.3
HYB   149.00  90 ePKP   13 48.50   7.1X
       1.0s     90.00nm
                i       14 01.00
                e       14 10.00
WMQ   149.68  35 PKP    13 41.60  -0.1
                sPKP    14 15.00
CHJJ  151.22 308 PKP    13 50.10   5.9X
MAT   151.58 310 ePKP   13 45.00   0.3
MDJ   151.61 332 ePKP   13 44.20  -0.3
TRT   151.84 183 ePKPd  13 51.50   5.8X
MTMJ  151.85 310 PKP    13 51.30   6.1X
IIDJ  152.26 308 PKP    13 51.90   6.1X
CN2   153.99 336 ePKP   13 45.00  -2.8X
GTA   158.85  25 PKPd   13 54.40   0.1
                pPKP    14 24.20
HHC   159.81 359 ePKP   13 57.10   1.8
BTO   160.04   3 ePKP   13 54.50  -1.0
BJI   160.16 349 ePKP   13 56.00   0.5
TIY   162.91 357 ePKP   13 58.50   0.0
SNG   163.18 141 ePKP   14 04.60   5.3X
LZH   163.28  21 PKP    13 59.50   0.5
                sPKP    14 38.00
TIA   163.60 343 ePKP   14 00.00   0.9
XAN   166.46   8 ePKP   14 02.40   0.7
                pPKP    14 31.10
CD2   167.74  32 PKP    14 03.80   1.1
PGP   168.31 234 ePKP   13 54.00  -9.4X
       1.0s     69.00nm
CHG   168.32  97 ePKP   14 02.30  -1.1
CVP   169.55 256 ePKP   14 15.00  10.9X
WHN   169.70 345 ePKP   14 04.70   0.9
                pPKP    14 34.00
     S.D. = 1.0  on 140 of 162 obs.
-----------------------------------
   JUL  09, 1991  06h 13m 20.94± 1.24s
    6.204 S ± 5.8km  130.010 E ± 6.1km
   DEPTH = 128.0 ± 12.7 km
   4.9mb (  9 obs.)
 BANDA SEA                        (280)

MTN     6.69 171 eP     14 58.10   0.0
KUPT    7.45 238 ePd    15 09.50   1.1
KNA     9.57 187 iPd    15 36.00  -0.8
       0.2s    225.00nm          6.6mb X
                eS      17 17.00
QIS    17.04 148 eP     17 11.00  -1.9
                eS      20 10.00
PMG    17.28 102 eP     17 17.00   1.1
       0.8s    179.10nm          5.4mb
ASPA   17.76 168 eP     17 20.80  -1.0
       0.5s     41.60nm          5.0mb
                eS      20 24.00
WARB   20.13 189 iPd    17 48.00   1.0
       0.3s     32.00nm          5.3mb
                eS      21 21.00
CTAO   20.96 133 iPc    17 56.00   0.6
       1.0s     75.00nm          5.0mb
                i(PP)   18 12.00
                e(S)    21 41.00
NANU   21.44 219 eP     18 01.00   0.8
FORR   24.58 184 eP     18 30.20  -0.3
       0.3s     50.00nm          5.5mb
                e       18 43.00
COOL   25.92 198 eP     18 42.70  -0.3
RMO    26.95 141 iPd    18 52.50   0.1
                e       19 25.00
BAL    27.30 206 eP     18 54.50  -1.0
                eS      24 10.00
KLB    27.74 203 eP     18 59.30  -0.1
                e       19 35.00
STK    27.75 158 iPc    18 59.30  -0.2
       0.5s      8.40nm          4.7mb
                eS      24 21.10
NWAO   29.13 202 eP     19 10.50  -1.4
BRS    30.20 137 iPd    19 20.50  -1.0
RKG    30.68 201 eP     19 26.00   0.5
COO    31.79 142 iPc    19 36.40   1.1
BWA    32.84 151 eP     19 46.30   1.9
BFD    32.88 161 e(P)   19 41.00  -3.7X
CAN    33.84 151 eP     19 54.10   1.0
KHT    37.49 304 eP     20 25.00   1.0
DZM    38.55 118 iPc    20 32.90  -0.1
CHG    39.44 310 eP     20 41.10   0.8
CHTO   39.44 310 eP     20 40.90   0.6
       0.5s      5.10nm          4.6mb
                pP      21 16.90 165kmX
MAT    43.21  10 eP     21 10.00  -0.9
       0.8s     12.69nm          4.7mb
CN2    49.94 356 eP     22 02.60  -0.9
GTA    53.28 331 eP     22 29.00   0.2
       0.8s     10.00nm          4.8mb
GUN    54.44 311 P      22 37.40  -0.4
PKI    54.62 310 P      22 38.40  -0.7
KKN    54.83 310 P      22 40.00  -0.5
DMN    54.87 310 P      22 40.40  -0.4
GKN    55.43 310 P      22 44.40  -0.3
WMQ    62.74 327 eP     23 35.00   0.3
CNCB  151.03 142 PKPc   33 03.70   7.9X
LPB   151.17 142 PKP    33 03.60   7.8X
ZOBO  151.35 141 iPKP   33 03.70   7.4X
       1.1s      5.80nm
     S.D. = 0.9  on  34 of  38 obs.
-----------------------------------
   JUL  09, 1991  06h 53m 34.19± 0.11s
   23.227 N ± 2.2km   65.524 W ± 2.3km
   DEPTH =  10.0km  (geophysicist)
   5.5mb ( 74 obs.)  5.3Msz ( 26 obs.)
 NORTH ATLANTIC OCEAN             (402)
      Ms 5.5 (BRK). Felt at San Juan,
      Puerto Rico.
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 22S, 48C
      Centroid Location:
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09d 06h

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      Origin Time        06:53:41.3 0.4
      Lat 23.33N 0.04 Lon  66.11W 0.05
      Dep  15.0 BDY Half-duration  2.7
      Moment Tensor;    Scale 10**17 Nm
        Mrr= 1.59 0.14   Mtt= 3.04 0.16
        Mff=-4.63 0.17   Mrt=-2.59 0.42
        Mrf= 2.21 0.52   Mtf= 3.36 0.15
       Principal Axes:
        T  Vol=  5.25   Plg=30   Azm=168
        N        1.71      53       308
        P       -6.96      20        66
      Best Dauble Couple:Mo=6.1*10**17
       NP1:Strike=204 Dip=54 Slip= 172
       NP2:        299     84        36

LPR     4.90 184 P      54 49.00  -0.8
MCP     5.01 198 P      54 50.70  -0.5
SJG     5.12 187 P      54 52.50  -0.3
CPD     5.17 184 P      54 53.00  -0.6
CLLP    5.21 191 P      54 54.00  -0.1
MGP     5.40 196 P      54 56.10  -0.6
CPB     6.55 147 eP     55 08.69  -4.3X
                e       56 29.85
BPA     7.05 150 eP     55 15.84  -4.1X
                S       56 34.00
MGH     7.18 154 eP     55 19.74  -2.1
SEG     7.77 150 eP     55 26.14  -3.9X
PAG     8.02 152 eP     55 30.90  -2.8
                S       56 57.00
SFG     8.04 149 eP     55 29.94  -4.0X
DEG     8.06 148 eP     55 29.30  -4.9X
MGG     8.28 151 eP     55 33.78  -3.4X
BBL     8.56 153 eP     55 37.20  -3.9X
                S       57 10.00
FDF     9.41 153 eP     55 48.54  -4.3X
      0.2s      5.50nm          5.6mb
CRM     9.49 152 eP     55 49.24  -4.7X
BIM     9.63 153 eP     55 52.37  -3.6X
MVM     9.67 152 eP     55 52.51  -4.0X
YHJ    11.56 245 ePc    56 20.26  -2.1
                eS      58 22.14
GRW    11.60 161 eP     56 20.27  -2.7
HOJ    11.72 246 ePc    56 20.63  -3.9X
                eS      58 23.24
STH    11.74 246 ePc    56 21.62  -3.2X
                eS      58 23.54
PCJ    12.20 246 ePc    56 27.70  -3.3X
                eS      58 36.96
                eTT     00 41.03
SPJ    12.41 247 ePc    56 30.84  -3.1X
                eS      58 38.91
TPR    12.80 159 eP     56 37.34  -1.7
                e       56 41.04
PIG    12.80 159 eP     56 35.50  -3.6X
BOT    12.84 158 eP     56 37.55  -2.0
TCE    12.97 163 eP     56 41.78   0.5
                e       56 44.78
                e       00 54.81
TRN    13.11 162 eP     56 42.68  -0.5
                e       56 46.95
                e       00 56.33
TBH    13.37 161 eP     56 48.96   2.4
                e       01 02.58
TPP    13.41 162 eP     56 49.64   2.5
                e       56 53.27
                e       01 03.55
HBF    16.27 310 P      57 20.00  -4.4X
SGS    16.51 310 P      57 24.00  -3.4X
BMG    17.63 206 iPd    57 42.50   0.8
JSC    17.63 312 ePc    57 37.80  -3.7X
                S       00 35.00
CBN    18.05 329 eP     57 42.80  -3.8X
NA2    18.17 328 ePc    57 47.00  -1.1
PRM    18.29 310 ePc    57 46.50  -3.2X
BLA    18.94 321 eP     57 55.00  -2.7X
                S       01 07.60
GMTN   19.05 340 iP     57 58.70  -0.3
PNJ    19.07 340 iP     57 59.00  -0.1
LVNJ   19.18 338 P      57 58.70  -1.8
TBR    19.30 340 P      58 00.00  -2.1
FUQ    19.35 205 eP     58 03.50   0.3
UPA    19.51 226 iPd-   58 04.70   0.0
      1.0s    106.00nm          5.1mb
                i       58 07.80
                i       58 16.10
TKL    20.11 312 ePc    58 10.00  -1.0
BOG    20.25 205 eP     58 14.50   1.5

                iS      01 52.00
GBTN   20.41 312 ePc    58 13.30  -0.8
EMM    21.52 356 eP     58 25.30   0.0
BNH    21.82 349 ePc    58 28.60   0.1
CLE    22.61 327 iP     58 37.60   1.3
LDN    23.64 330 P      58 46.60   0.3
DLA    23.68 330 P      58 46.50  -0.2
ELF    23.82 330 P      58 48.25   0.2
LPS    24.05 252 iPd    58 53.50   2.9X
      1.0s     95.00nm          5.3mb
                eS      03 17.00
PSO    24.72 209 eP     59 00.00   2.6
ELC    24.72 310 eP     58 56.40  -0.5
FVM    25.89 310 P      59 07.00  -0.9
SCX    26.26 261 (P)    59 15.70   4.3X
TPX    26.56 257 eP     59 16.00   1.8
PBJ    28.87 262 (P)    59 33.50  -1.8
TUL    29.08 303 ePc    59 36.30  -0.7
      1.2s     97.90nm          5.5mb
    Z  20s      5.25um          5.1Msz
    N  22s     14.78um
    E  20s      3.52um
                e       02 18.00
                eS      04 34.00
                LO      07 01.00
                LR      07 47.00
OXX    29.88 264 (P)    59 45.20   0.6
MEO    30.99 299 iPc    59 53.10  -0.9
PPM    31.11 269 eP     59 57.20   1.4
SCH    31.56 359 ePc    59 58.60  -0.2
      0.8s    176.00nm          6.0mb
MRX    33.33 271 (P)    00 16.70   2.2
NNA    36.71 199 iPd    00 43.50   0.0
      0.7s     43.84nm          5.4mb
    Z  20s      3.19um          5.1Msz
PT10   36.83 199 eP     00 44.50   0.1
GLD    37.30 306 P      00 49.00   0.5
      1.5s    117.19nm          5.4mb
    Z  20s      7.00um          5.5Msz
ALO    37.39 298 iPc    00 49.90   0.6
      1.0s     95.75nm          5.5mb
ANMO   37.39 298 iPc    00 49.80   0.5
      0.8s     74.63nm          5.5mb
GOL    37.40 306 ePc    00 49.00  -0.4
      0.8s     26.79nm          5.1mb
    Z  18s      4.77um          5.3Msz
                PP      02 06.60
RSSD   37.77 313 ePc    00 51.00  -1.4
      1.0s    104.39nm          5.6mb
    Z  20s      8.47um          5.5Msz
                PP      02 16.00
SIV    39.22 173 iPc    01 04.20  -0.3
ZOBO   39.34 184 iPd    01 05.20  -0.9
      0.9s     58.39nm          5.3mb
    Z  20s      2.80um          5.1Msz
                S       07 02.00
                LR      11 30.00
LPB    39.59 184 P      01 08.20   0.1
    Z  16s      4.04um          5.4MszX
                Lg      07 08.00
                LR      09 20.00
CNCB   39.86 184 iPc    01 11.00   0.5
ARE    39.87 189 eP     01 11.00   0.7
SOB1   40.25 140 eP     01 11.70  -1.4
                i       01 13.50
                e       01 19.70
CCH    40.36 181 P      01 15.00   0.7
CAI    40.55 133 iPc    01 16.30   0.8
FRB    40.56 358 ePc    01 15.40   0.4
      0.9s    166.00nm          5.7mb
BW06   41.21 309 iPc    01 20.60  -0.4
      0.8s     59.52nm          5.4mb
                ePP     02 52.00
                SS      10 20.50
                PKKP    24 00.00
FFC    41.53 329 iPc    01 22.60  -0.5
      1.0s    126.00nm          5.6mb
DAU    41.97 305 P      01 28.00   0.6
MSU    42.39 302 P      01 31.80   1.0
LRM    43.98 313 eP     01 44.00   0.4
GLA    44.22 294 eP     01 46.00   0.5
SES    44.45 319 iPc    01 47.40   0.3
      1.2s    520.00nm          6.3mb
TPC    45.24 296 eP     01 54.00   0.3
BAR    45.78 294 eP     02 00.00   2.1
GSC    45.87 297 eP     01 59.00   0.3
PLM    45.93 295 eP     02 00.00   0.8

PEC    46.17 295 eP     02 01.70   0.7
TNP    46.30 301 P      02 02.00  -0.2
      0.8s     23.53nm          5.3mb
RVR    46.34 295 eP     02 02.00  -0.3
CLC    46.53 298 eP     02 03.00  -0.8
SBB    46.71 296 eP     02 05.00  -0.3
ANT    46.89 186 iP     02 05.70  -0.9
MWC    46.91 296 eP     02 08.00   1.0
BONR   47.15 301 P      02 09.60   0.6
ISA    47.24 298 eP     02 10.00   0.5
NEW    47.66 315 iPc    02 11.70  -0.9
      0.7s    348.00nm          6.6mb X
ABL    47.86 297 P      02 14.60   0.1
FRI    48.25 300 eP     02 16.00  -1.2
BCH    48.56 297 P      02 20.30   0.5
CMB    48.80 301 iPc    02 22.05   0.5
                i       02 36.80
PRI    49.02 298 iP     02 23.01  -0.3
VAO    49.37 157 eP     02 26.50   0.5
                e       02 29.20
                e       02 32.00
PNT    49.49 316 eP     02 27.00   0.3
      0.7s     43.00nm          5.6mb
PRS    49.58 299 iPc    02 27.26  -0.3
                e       02 43.00
SAO    49.64 299 iP     02 29.30   1.3
ARN    49.70 300 P      02 29.00   0.5
ORV    49.71 303 iPc    02 28.90   0.4
MHC    49.79 300 ePc    02 29.90   0.6
MIN    49.82 304 iPc    02 28.78  -0.7
                i       02 44.60
GCC    50.08 300 iPc    02 31.86   0.5
BKS    50.26 301 ePd    02 34.10   1.4
    Z  20s      5.00um          5.5Msz
    N  20s      4.10um
    E  20s      2.40um
                iPP     04 34.00
                iS      09 45.00
                eSS     13 22.00
                eLR     17 30.00
BRK    50.28 301 ePc    02 33.10   0.2
PCC    50.38 300 iPc    02 34.11   0.5
PTO    50.49  55 eP     02 34.20  -0.2
LON    50.52 312 P      02 34.00  -0.7
WDC    50.54 304 ePc    02 32.70  -2.1
                i       02 48.80
VAL    50.78  41 iP     02 34.50  -1.9
                S       09 44.00
YKA    51.17 333 eP     02 37.60  -1.6
      0.6s     61.10nm          5.7mb
FHC    51.64 304 ePc    02 43.50   0.2
FOX    51.65 304 eP     02 44.38   1.2
PGC    51.87 314 eP     02 43.00  -1.7
AKU    52.07  23 iP     02 47.40   1.4
      1.0s     68.00nm          5.5mb
DCN    52.84  40 eP     02 51.90  -0.1
ECB    52.95  41 eP     02 52.30  -0.5
DMU    53.16  39 eP     02 54.10  -0.2
      0.7s    178.00nm          6.1mb
ECP    53.17  41 eP     02 53.60  -0.8
ETA    53.35  41 eP     02 55.50  -0.3
MAL    53.81  61 iPd    03 00.50   1.2
                iS      10 34.00
EKA    55.55  38 Pc     03 11.00  -0.8
      0.9s     33.60nm          5.4mb
MDZ    55.88 183 i(P)   03 14.60   0.1
LPF    56.17  47 eP     03 15.90  -0.5
      0.8s     18.80nm          5.2mb
PEL    56.27 185 eP     03 16.50  -0.7
GRR    56.31  46 eP     03 17.00  -0.4
      0.6s     18.05nm          5.3mb
FLN    56.57  46 eP     03 19.00  -0.3
      1.0s     32.00nm          5.3mb
    Z  20s      0.88um          4.9Msz
MFF    56.75  49 eP     03 20.40  -0.2
      1.1s     51.30nm          5.5mb
LDF    56.81  46 eP     03 20.40  -0.6
      0.9s     36.05nm          5.4mb
EPF    57.15  53 eP     03 23.50  -0.1
      0.8s     22.85nm          5.3mb
EBR    57.38  55 (P)    03 25.00  -0.1
                (S)     11 18.00
                e       11 32.00
LFF    57.38  51 eP     03 24.70  -0.4
      0.8s     20.15nm          5.2mb
LPO    57.71  51 eP     03 27.00  -0.4
      0.8s     16.10nm          5.1mb
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SALF   57.79  53 P     03 28.50   0.5
LESF   57.84  53 P     03 28.39   0.0
LSF    57.91  49 eP    03 28.20  -0.6
        1.3s   72.20nm          5.5mb
RJF    57.92  50 eP    03 28.20  -0.7
        0.6s   16.25nm          5.2mb
     Z  20s     0.98um          4.9Msz
CAF    58.32  51 eP    03 31.20  -0.5
        1.0s   50.00nm          5.5mb
TRGS   58.37  53 P     03 32.65   0.4
TCF    58.38  49 eP    03 31.60  -0.5
        0.8s   40.30nm          5.5mb
MAF    58.63  49 eP    03 33.20  -0.6
        0.8s   18.80nm          5.2mb
VDCF   58.66  53 P     03 34.00  -0.1
LKO    58.72  93 P     03 33.90  -1.1
        0.7s   14.50nm          5.2mb
BGF    58.82  49 eP    03 34.30  -0.8
        1.0s   32.00nm          5.4mb
AVF    59.16  48 eP    03 36.60  -0.8
        1.1s   75.70nm          5.7mb
SSF    59.25  48 eP    03 37.30  -0.8
        1.0s   48.00nm          5.6mb
MBC    59.29 347 iPc   03 37.00  -1.0
        0.9s  180.00nm          6.2mb
COLF   59.45  50 P     03 39.49  -0.1
LOR    59.49  48 eP    03 39.00  -0.8
        0.9s   47.50nm          5.6mb
     Z  20s     1.00um          4.9Msz
SMF    59.50  48 eP    03 39.10  -0.7
        1.1s   75.70nm          5.7mb
LBF    59.5B  48 eP    03 39.40  -1.0
        1.0s   42.00nm          5.5mb
UCC    59.75  44 P     03 44.10   2.7
DOU    59.90  44 iPc   03 42.50   0.0
        0.7s   25.50nm          5.5mb
     Z  19s     2.40um          5.4Msz
                S       11 35.00
SSB    60.06  50 P     03 43.78   0.0
DBN    60.25  42 eP    03 45.00   0.1
                e       04 13.00
TIC    60.33  96 P     03 45.02  -1.0
        0.7s   24 00nm          5.5mb
LIC    60.49  96 P     03 46.52  -0.5
     Z  20s     2.00um          5.3Msz
                S       12 00.00
INK    60.52 337 iPc   03 44.80  -1.7
        0.9s  152.00nm          6.1mb
                pP      04 15.00 125kmX
EGD    60.59  33 eP    03 46.40  -0.6
ASK    60.59  32 eP    03 46.30  -0.7
BER    60.65  33 eP    03 46.80  -0.6
KIC    60.70  96 P     03 47.62  -0.8
        0.8s   18.00nm          5.3mb
ENN    60.74  44 iPd   03 48.10  -0.1
        0.9s   98.00nm          5.9mb
                i       03 51.00
                e       08 02.00
MEM    60.80  44 iPc   03 48.29  -0.3
                id      03 51.30
VITF   60.88  47 P     03 48.94  -0.3
WLF    60.92  45 iPd   03 49.40   0.0
CDR    61.06  52 ePd   03 50.70   0.2
HAU    61.13  47 eP    03 50.20  -0.8
        1.0s   40.00nm          5.5mb
     Z  20s     1.35um          5.1Msz
WTS    61.26  42 iPd   03 51.30  -0.4
        0.9s  128.00nm          6.1mb
                id      03 54.40
BSF    61.44  47 P     03 52.33  -0.9
RSL    61.49  49 P     03 53.30  -0.3
LOMF   61.50  48 P     03 53.31  -0.3
BNS    61.53  43 eP    03 56.00   2.4
LPL    61.58  50 eP    03 54.20  -0.1
BNI    61.58  50 P     03 57.10   2.9
LPG    61.59  50 eP    03 54.40  -0.1
        1.1s   48.85nm          5.6mb
LMR    61.63  52 eP    03 54.20  -0.2
        0.8s    8.05nm          4.9mb
ECH    61.66  47 P     03 54.31  -0.3
MOF    61.67  47 P     03 53.84  -0.9
CDF    61.73  46 P     03 54.33  -0.8
GWF    61.92  46 P     03 55.99  -0.4
BBS    61.95  47 P     03 55.92  -0.7
DIX    62.00  49 ePd   03 57.40   0.2
DOI    62.04  51 P     03 57.80   0.5
SBF    62.24  51 eP    03 58.20  -0.4
        0.6s   23.45nm          5.6mb
FEL    62.26  47 P     03 58.04  -0.7
TNS    62.38  44 eP    03 59.00  -0.4
MMK    62.39  49 ePd   04 00.40   0.6
ZLA    62.55  47 ePd   03 59.60  -1.0
SLE    62.59  47 ePd   04 00.30  -0.5
KONO   62.76  34 iP    04 01.50  -0.2
CKI    62.78  51 Pc    04 02.10   0.0
TMA    63.01  49 ePd   04 03.60  -0.2
LLS    63.02  48 ePd   04 04.10   0.2
PGF    63.54  53 eP    04 06.50  -0.8
        0.8s   20.15nm          5.4mb
NB2    63.56  32 P     04 06.80  -0.2
        0.7s   15.30nm          5.3mb
BOB    63.57  50 P     04 06.40  -1.0
BALM   63.60 328 ePc   04 06.90  -0.5
MDI    63.63  49 Pc    04 09.00   1.4
OSS    63.82  48 ePd   04 09.20   0.1
GRF    64.20  45 eP    04 13.00   1.6
     Z  21s     3.00um          5.5Msz
                eS      12 50.00
CGL    64.25  56 P     04 12.42   0.4
        1.1s   14.00nm          5.1mb
MOX    64.36  44 eP    04 11.90  -0.5
     Z  19s     2.50um          5.4Msz
     N  19s     0.90um
     E  19s     1.70um
BDI    64.48  51 P     04 11.40  -2.0
MME    64.53  51 P     04 14.60   0.7
WTTA   64.76  47 iPc   04 15.40   0.1
        0.6s   14.80nm          5.4mb
                i       04 16.30
                i       04 35.30
                i       04 38.70
HFS    64.81  33 eP    04 14.60  -0.5
        0.5s   23.70nm          5.6mb
     Z  18s     1.56um          5.2Msz
                LR      24 00.00
KBS    64.95  12 eP    04 17.50   1.7
CLL    65.16  43 iP    04 17.00  -0.5
        1.5s   52.00nm          5.5mb
     Z  18s     2.50um          5.5Msz
PGD    65.31  51 P     04 17.20  -1.7
KLU    65.31 329 P     04 18.40   0.0
WET    65.34  45 eP    04 02.00 -16.8X
TOA    65.40 329 eP    04 19.60   0.7
SFI    65.40  51 P     04 18.10  -1.0
CRE    65.51  51 P     04 18.30  -1.8
BHG    65.54  47 eP    04 22.10   2.1
FVI    65.63  48 P     04 22.30   1.7
BRG    65.80  43 iP    04 21.30  -0.3
        1.0s   40.00nm          5.6mb
     Z  18s     0.50um          4.8Msz
     N  18s     1.50um
     E  18s     1.00um
                i       04 36.60
                eS      13 08.00
                eP'P'   33 04.00
KHC    65.80  45 eP    04 21.50  -0.2
        1.0s   17.90nm          5.2mb
     Z  20s     1.70um          5.2Msz
     N  18s     0.70um
     E  18s     1.80um
                e       04 24.00
                S       13 08.00
FBA    65.96 332 eP    04 22.10  -0.3
ARV    66.25  51 P     04 24.70   0.0
MNS    66.25  52 P     04 24.20  -0.5
PRU    66.30  44 P     04 24.70  -0.2
        1.0s   23.00nm          5.3mb
     Z  20s     2.80um          5.5Msz
     N  18s     0.40um
     E  18s     3.40um
                e       04 28.00
                e       04 52.00
                S       13 15.00
KMR    66.32  46 eP    04 25.00   0.0
                i+      04 27.00
TRI    66.45  49 P     04 28.30   2.4
VOY    66.48  48 eP    04 25.80  -0.4
TRO    66.52  22 eP    04 26.80   0.9
AQU    66.79  52 Pc    04 28.30   0.1
UPP    66.80  33 iP    04 26.90  -0.9
PMR    66.84 329 ePc   04 28.00   0.0
        1.2s  132.40nm          6.0mb
CEY    66.90  49 eP    04 28.30  -0.5
LJU    66.92  48 e(P)  04 28.50  -0.4
                e       04 31.00
RIY    66.94  49 eP    04 28.20  -0.8
SDI    67.21  53 Pc    04 32.20   1.3
KSP    67.28  43 eP    04 31.00  -0.1
                e       04 33.70
SLKM   67.49 328 eP    04 30.80  -1.5
VBY    67.52  49 eP    04 32.50  -0.2
DUI    67.69  53 Pc    04 34.20   0.2
VKA    67.73  46 iPc   04 36.50   2.5
        2.0s  134.00nm          5.8mb
     Z  15s     1.10um          5.2MszX
                LR      39 00.00
PTJ    67.92  48 eP    04 28.90  -6.5X
ZAG    67.96  48 eP    04 37.50   2.1
ZST    68.26  46 e(P)  04 36.80  -0.5
                i       04 39.40
                i       05 05.20
IMA    68.28 334 iPc   04 37.30   0.0
        0.9s  140.10nm          6.2mb
SGO    68.55  54 P     04 39.40   0.2
BRW    68.60 340 eP    04 39.80   0.8
RSO    68.74 328 eP    04 38.50  -1.B
MGR    68.83  54 P     04 40.90  -0.1
PZI    69.06  58 P     04 43.30   0.B
KDC    69.08 325 eP    04 41.60  -0.5
SRO    69.13  46 eP    04 41.00  -1.6
KEV    69.30  22 iP    04 43.20  -0.1
        0.7s   72.10nm          6.0mb
                eS      14 00.00
CSI    69.46  55 P     04 45.20   0.3
TDS    69.53  55 P     04 47.30   2.1
PDB    69.57 327 P     04 43.20  -1.9
SOD    69.62  24 iP    04 45.50   0.2
BUD    69.67  46 eP    04 47.50   1.5
KRA    69.71  43 ePd   04 46.10  -0.1
        0.9s   43.00nm          5.6mb
     Z  20s     3.40um          5.6Msz
     E  20s     3.50um
                i       04 48.80
                eS      13 57.00
TTA    69.81 331 eP    04 45.60  -1.0
BRT    69.88  53 P     04 49.20   1.8
SVW    70.00 329 ePc   04 45.80  -2.0
        0.7s   55.23nm          5.8mb
SPC    70.09  44 eP    04 51.10   2.3
PSZ    70.15  45 eP    04 50.10   1.1
NUR    70.16  32 eP    04 48.40  -0.3
LCI    70.57  54 P     04 53.90   2.3
KAF    70.59  30 iP    04 51.10  -0.2
        0.7s   64.90nm          5.9mb
BEO    71.25  49 e(P)  04 57.50   1.9
SKO    72.69  51 eP    05 04.20  -0.1
                e       05 06.50
GZR    72.69  48 ePd   05 07.50   3.2X
ANM    73.40 334 eP    05 06.90  -1.1
GRG    73.66  52 ePc   05 10.36   0.3
VAY    73.68  52 eP    05 10.20   0.2
VTS    73.77  50 iP    05 11.00   0.2
KKB    73.89  51 iP    05 12.00   0.7
SDN    73.96 324 eP    05 11.10  -0.2
LIT    73.98  53 ePd   04 56.32 -15.5X
SOH    74.39  52 ePc   05 15.04   0.8
MMB    74.44  51 eP    05 16.00   1.5
SRS    74.48  52 ePd   05 17.48   2.8
MLR    74.80  47 ePd   05 17.50   0.8
PAIG   74.90  53 ePd   05 17.52   0.4
PVL    75.08  49 iP    05 18.00  -0.1
RZN    75.11  51 iPc   05 19.00   0.4
VRI    75.21  46 eP    05 20.00   1.2
DIM    75.58  50 eP    05 22.00   1.0
KDZ    75.62  51 iPd   05 22.00   0.7
OBN    77.89  35 iPc   05 34.00   0.5
        1.0s  180.00nm          6.1mb
     Z  18s     1.90um          5.5Msz
     N  18s     0.40um
     E  18s     1.20um
                i       05 38.80
                ePcP    05 49.00
                ePP     08 25.00
                iS      15 24.00
                ePS     16 16.00
                ePPS    16 43.00
                eSS     20 24.00
                eSSS    23 38.00
                eSSSS   25 42.00
                LR      34 00.00
BHL    86.02  55 P     06 18.00   1.4
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09d 07h

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MML     86.46  56 eP     06 21.00    2.3
DSI     86.80  57 iPd    06 22.00    1.7
MBH     87.18  59 iPd    06 24.00    1.7
RUV     88.64 253 eP     06 33.00    3.7X
         1.4s   120.00nm          6.0mb
TPT     88.77 253 eP     06 33.00    3.2X
         1.4s   125.00nm          6.0mb
VAH     88.88 253 eP     06 33.00    2.6
         1.4s   120.00nm          6.0mb
PMO     89.02 253 eP     06 32.00    0.9
         1.4s    95.00nm          5.9mb
MSL     90.35  50 eP     06 40.50    3.4X
HHC    116.20   2 ePKP   12 22.00    2.3X
GTA    116.20  13 ePKP   12 19.60   -0.1
         2.0s    30.00nm
       Z  20s     1.77um          5.7Msz
       N  20s     2.16um
                   PP    13 25.00
LZH    120.16  10 ePKP   12 26.80   -0.6
         8.0s   300.00nm
       Z  27s     0.90um          5.3MszX
       E  17s     0.79um
TIA    120.83 358 ePKP   12 30.80    2.3X
       Z  19s     1.70um          5.7Msz
       N  18s     0.90um
       E  18s     0.80um
GKN    121.50  31 PKP    12 29.40   -0.8
KKN    121.98  31 PKP    12 29.60   -1.6
DMN    122.05  31 PKP    12 30.20   -1.2
         0.7s    34.00nm
GUN    122.15  30 PKP    12 30.20   -1.5
         0.7s    33.00nm
PKI    122.22  31 PKP    12 29.60   -2.2X
         0.7s    34.00nm
XAN    122.81   5 ePKP   12 30.70   -1.6
NJ2    124.88 355 PKPd   12 35.20   -1.1
       Z  22s     0.40um          5.0Msz
                  sPKP   12 51.50
CD2    125.20  11 ePKP   12 36.40   -0.7
MAW    125.53 158 ePKP   12 36.00   -0.5
         0.8s    17.00nm
SSE    125.61 353 PKPd   12 39.00    1.2
       Z  20s     1.10um          5.5Msz
       E  16s     0.70um
WHN    126.54   0 ePKP   12 39.50   -0.1
SHL    126.78  26 ePKP   12 39.50   -1.0
GBA    128.48  48 PKPc   12 44.30    0.6
         1.0s    14.00nm
GYA    130.03   9 PKP    12 47.80    1.2
DZM    132.24 261 iPKPc  12 54.10    3.3X
GUMO   132.85 318 ePdiff 09 43.70   -4.1X
CHG    135.55  21 ePKP   12 57.40    0.3
CSY    136.87 178 ePKP   12 48.90   -9.2X
         0.4s     4.50nm
                   e     12 58.60
OIZ    137.76   7 ePKP   13 01.70    0.4
CVP    138.69 349 ePKP   13 17.00   14.0X
SZP    139.05 351 ePKP   13 16.00   12.4X
PGP    142.95 350 ePKP   13 02.00   -8.6X
BRS    145.22 255 iPKPd  13 14.00   -0.3
                  i(pP)  13 28.00
MAP    145.38 343 ePKP   13 15.00    0.2
BSI    145.85  36 ePKP   13 17.00    1.4
COO    145.96 249 ePKP   13 16.00    0.6
                  e      17 31.00
TAU    146.50 226 ePKP   13 17.00    1.2
                  i      13 19.80
SNG    146.88  26 ePKP   13 19.10    1.8
         0.9s   277.31nm
PPR    146.94 352 iPKPc  13 21.00    3.7X
CGP    146.96 341 ePKPc  13 20.00    2.6X
         1.0s   231.00nm
CNB    147.43 240 ePKP   13 20.00    2.3X
         0.4s   108.00nm
                  i      13 22.00
                  i      13 33.80
                  e      17 40.00
CAN    147.72 240 ePKP   13 21.10    3.0X
                  e      13 35.80
BWA    148.38 242 ePKP   13 21.20    2.0X
                  e      13 35.80
RMO    148.78 257 iPKPd  13 23.80    3.8X
                  i      13 27.20
                  i      17 44.00
IPM    149.40  27 ePKPd  13 24.20    2.9X
PSI    150.11  33 ePKPd  13 33.50   11.2X
KKM    150.86 356 ePKPd  13 30.00    6.4X
         1.0s    83.10nm
CMS    151.04 247 e(PKP)13 29.00    5.7X
BFD    152.16 234 ePKP   13 29.00    4.2X
         0.8s   136.00nm
KGM    152.66  25 ePKP   13 29.80    3.7X
OIS    156.54 272 ePKP   13 33.00    1.8
                  i      14 02.00
ASPA   162.17 265 ePKP   13 36.10   -1.3
         1.2s     8.40nm
       S.D. = 1.1  on 305 of 357 obs.
-----------------------------------
*  JUL  09, 1991  06h 57m 50.38± 0.65s
   23.152 N ± 6.4km   64.504 W ±12.9km
   DEPTH =  10.0km  (geophysicist)
   4.5mb (  2 obs.)  4.9Msz (  1 obs.)
 NORTH ATLANTIC OCEAN              (402)

CLLP     5.41 201 P      59 07.40   -5.6X
BPA      6.56 157 eP     59 30.22    0.8
                  S      00 46.00
MGH      6.75 161 eP     59 35.46    3.5X
SEG      7.28 157 eP     59 39.84    0.4
DEG      7.54 154 eP     59 42.81   -0.2
PAG      7.57 159 eP     59 43.01   -0.5
                  S      01 10.00
MGG      7.80 157 eP     59 47.31    0.7
BBL      8.11 159 eP     59 50.01   -1.0
                  S      01 23.00
UPA     20.15 228 eP     02 28.00    0.3
       Z  20s     6.03um          4.9Msz
                  i      03 20.30
LPB     39.60 185 eP     05 35.00   10.7X
CNCB    39.86 185 P      05 26.00   -0.6
CCH     40.32 182 (P)    05 25.00   -5.1X
DMU     52.62  39 eP     07 12.50    5.9X
NB2     63.13  32 P      08 20.10   -0.2
         0.7s     2.90nm          4.6mb
HFS     64.36  33 eP     08 28.80    0.4
         0.6s     1.80nm          4.4mb
NUR     69.73  32 eP     09 07.10    4.9X
KAF     70.19  30 eP     09 04.90   -0.1
IRK    104.27   7 ePdiff12 00.50    4.6X
       S.D. = 0.6  on  11 of  18 obs.
-----------------------------------
*  JUL  09, 1991  07h 14m 42.02± 0.53s
   23.144 N ± 8.3km   65.635 W ±12.0km
   DEPTH =  10.0km  (geophysicist)
   4.3mb (  3 obs.)
 NORTH ATLANTIC OCEAN              (402)

MGH      7.15 153 eP     16 27.86   -1.4
                  eS     17 46.83
TCE     12.92 163 eP     17 40.41   -8.1X
TRN     13.07 161 eP     17 38.80  -11.6X
TBH     13.32 160 eP     17 41.07  -12.8X
HBF     16.25 310 eP     18 32.30    0.4
JSC     17.61 313 eP     18 46.50   -2.5
CBN     18.07 329 eP     18 56.00    1.3
NA2     18.18 328 eP     18 55.20   -0.9
PRM     18.26 310 eP     18 55.10   -2.1
BLA     18.94 321 eP     19 04.00   -1.5
                  (S)    22 10.00
NAV     19.23 321 eP     19 09.20    0.2
TBR     19.34 340 eP     19 10.00   -0.4
UPA     19.38 226 ePc    19 16.40    5.3X
TKL     20.09 312 eP     19 17.50   -1.1
GBTN    20.39 312 e(P)   19 23.30    1.5
EMM     21.60 356 e(P)   19 34.50    0.6
CLE     22.63 328 iP     20 01.60   17.3X
ELC     24.70 310 eP     20 06.00    1.6
FVM     25.86 311 eP     20 16.50    1.0
         0.5s    55.98nm          5.5mb X
                  (S)    25 00.00
ALQ     37.34 298 eP     21 59.00    2.3
         1.0s     5.50nm          4.3mb
SIV     39.15 173 P      22 12.60    0.8
ZOBO    39.25 184 eP     22 05.00   -8.2X
LPB     39.51 184 P      22 16.00    0.8
CNCB    39.77 184 P      22 18.00    0.4
CCH     40.28 181 (P)    22 20.00   -1.4
SES     44.45 319 eP     22 55.00    0.1
YKA     51.19 333 eP     23 47.40    0.1
         0.5s     1.80nm          4.3mb
NB2     63.68  32 P      25 15.80    0.1
         1.1s     5.60nm          4.7mb
KHC     65.93  45 eP     25 30.00   -0.4
PRU     66.43  44 eP     25 34.00    0.5
PLP    144.36 342 ePKP   34 17.00   -3.9X
       S.D. = 1.3  on  24 of  31 obs.
-----------------------------------
&  JUL  09, 1991  07h 41m 28.40s
   59.009 N          153.173 W
   DEPTH =  71.1km
 SOUTHERN ALASKA                   (  2)
      <AEIC>.

CDD      0.26 252 eP     41 38.98   -0.7
                  eS     41 47.80
AUI      0.35 338 eP     41 40.11   -0.1
                  eS     41 48.15
AUE      0.37 344 eP     41 40.06   -0.2
AUH      0.38 339 eP     41 40.45   -0.1
SYI      0.57 134 iP     41 41.30   -0.9
                  eS     41 51.12
MCNL     0.63 287 iP     41 42.21   -0.6
                  eS     41 52.19
XLV      0.87  58 eP     41 44.64   -1.0
                  eS     41 57.31
PDB      0.94 327 iP     41 45.57   -0.9
                  eS     41 58.77
IVS      1.00   3 iP     41 46.51   -1.0
                  eS     42 00.31
HOM      1.02  50 eP     41 46.95   -0.5
CNPM     1.12  62 eP     41 48.03   -0.8
                  eS     42 03.45
BGM      1.13 291 eP     41 47.82   -1.0
NNL      1.41  42 eP     41 52.37   -0.2
RSO      1.47   8 eP     41 52.50   -1.1
RS2      1.47   8 eP     41 52.59   -1.1
RDW      1.49   7 eP     41 52.99   -0.9
                  S      42 11.19
REF      1.50   9 eP     41 53.08   -1.0
                  eS     42 12.06
RDN      1.52   8 eP     41 53.11   -1.1
                  eS     42 12.38
NCT      1.56   4 eP     41 53.86   -0.9
DFR      1.61   9 eP     41 54.28   -1.1
RDT      1.62  14 eP     41 54.18   -1.3
                  S      42 14.19
NKA      1.99  28 eP     42 01.45    0.9
SLKM     2.12  44 eP     42 00.53   -1.8
SEW      2.19  58 eP     42 01.18   -2.1
CKL      2.23  10 eP     42 02.99   -1.0
SPU      2.25  14 eP     42 03.20   -1.0
BGL      2.30   9 eP     42 04.09   -0.8
CGLM     2.38  14 eP     42 05.20   -0.8
NCG      2.46  11 eP     42 06.07   -1.0
SUA      2.74  25 eP     42 10.30   -0.8
PMS      2.88  37 eP     42 11.31   -1.6
LTI      2.90  67 eP     42 10.82   -2.3
KNIM     3.07  62 iP     42 12.61   -2.9
SKT      3.09  15 eP     42 14.08   -1.8
PLRM     3.28  36 eP     42 15.63   -2.8
KNK      3 37  42 eP     42 17.24   -2.5
GHO      3.48  35 P      42 19.07   -2.3
       37 obs. ossociated
-----------------------------------
*  JUL  09, 1991  08h 18m 45.56± 0.75s
   10.513 S ± 8.3km  123.699 E ±11.5km
   DEPTH =  81.5 ±  9.0 km
   4.7mb (  8 obs.)
 TIMOR                             (289)

KUPT     0.37 346 eP     18 59.00    0.4
KNA      7.17 137 eP     20 30.00    0.2
         0.3s    32.00nm          5.5mb
                  eS     21 51.00
MTN      7.64 108 eP     20 35.00   -1.2
                  eS     22 02.00
NANU    14.31 212 eP     22 04.50   -1.0
         0.3s    10.00nm          4.7mb
                  eS     24 33.00
WARB    15.83 170 eP     22 25.80    0.7
         0.3s     4.00nm          4.1mb
                  eS     25 12.00
ASPA    16.30 145 eP     22 31.70    0.7
         0.4s    17.60nm          4.6mb
                  eS     25 21.00
STK     26.94 145 eP     24 27.10    5.9X
         0.5s     2.30nm          4.0mb
                  eS     29 29.80
CHG     38.02 320 eP     25 57.10   -0.6
CHTO    38.02 320 eP     25 57.40   -0.3
         1.0s     5.75nm          4.5mb
```

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CD2     45.42 336 P      26 57.00  -1.0
        0.4s    30.00nm          5.5mb
XAN     46.48 343 P      27 06.00  -0.4
GTA     54.41 337 eP     28 07.60   0.9
        0.8s    10.00nm          4.9mb
                  pP     28 13.00  18kmX
                  sP     28 16.60
WMO     63.21 332 P      29 09.00   1.5
CNCB   150.50 157 PKP    38 38.50  13.2X
CCH    150.63 161 PKP    38 38.00  12.8X
LPB    150.70 156 PKP    38 38.00  12.5X
ZOBO   150.93 156 PKPd   38 38.80  12.8X
        1.0s     3.00nm
      Z  22s     0.21um          4.9Msz
                  LR     17 32.00
      S.D. = 1.0  an  12 of  17 obs.
-----------------------------------
&  JUL  09, 1991  08h 30m 22.86s
   60.460 N          151.996 W
   DEPTH =  85.3km
 KENAI PENINSULA, ALASKA          ( 14)
      <AEIC>.

RDT      0.23 300 iPd    30 35.01   0.9
REF      0.35 275 iPd    30 35.80  -0.7
DFR      0.37 292 iPd    30 35.63  -0.8
                  eS     30 45.95
RSO      0.38 271 ePd    30 36.03  -0.6
RS2      0.38 271 ePd    30 36.03  -0.6
                  eS     30 46.31
RDN      0.38 278 iPd    30 35.82  -0.8
                  eS     30 46.09
RDW      0.40 274 ePd    30 36.19  -0.6
                  eS     30 47.26
NKA      0.47  52 iPc    30 38.41   1.4
NCT      0.47 283 iPd    30 36.40  -0.8
                  eS     30 47.36
NNL      0.55 140 iPc    30 38.16   0.5
IVS      0.71 231 ePc    30 38.76  -0.8
                  eS     30 51.05
SPU      0.72 358 iPd    30 38.90  -0.6
                  eS     30 51.77
CKL      0.76 347 iPd    30 39.24  -0.7
HOM      0.82 167 iPd    30 40.29  -0.2
                  eS     30 53.62
BGL      0.83 347 iPd    30 40.10  -0.6
                  eS     30 53.51
CGLM     0.85 360 iPd    30 40.44  -0.4
SLKM     0.88  86 iPc    30 40.33  -0.8
8RLK     0.89 141 ePd    30 40.52  -0.8
                  eS     30 53.98
NCG      0.95 355 iPd    30 41.38  -0.7
CNPM     1.01 157 iPd    30 41.87  -0.8
                  eS     30 56.75
XLV      1.02 172 iPd    30 41.70  -1.0
                  eS     30 56.84
SUA      1.18  31 ePc    30 44.55  -0.3
PDB      1.29 239 iPc    30 44.74  -1.3
                  iS     31 01.84
AUE      1.30 213 ePd    30 45.08  -1.2
SEW      1.32 105 iPc    30 45.08  -1.3
AUH      1.32 214 eP     30 45.89  -0.6
AUI      1.34 213 eP     30 46.24  -0.5
                  eS     31 03.93
PMS      1.43  55 iPc    30 47.42  -0.5
SKT      1.54   8 iPd    30 48.36  -1.0
                  S      31 08.72
PWA      1.58  40 eP     30 49.53  -0.2
CDD      1.75 209 iPd    30 51.02  -1.1
                  eS     31 12.60
PLRM     1.80  50 ePc    30 51.30  -1.4
SYI      1.87 186 iPd    30 52.64  -1.0
KNK      1.98  60 iPc    30 53.63  -1.5
                  eS     31 16.98
GHO      1.99  47 iPc    30 54.06  -1.3
                  eS     31 17.78
LTI      2.11 100 ePc    30 54.50  -2.4
KNIM     2.12  91 iPc    30 54.16  -2.9
CUT      2.12  22 eP     30 56.32  -0.7
MTU      2.22 100 eP     30 56.33  -2.1
GLI      2.45  78 iPc    30 57.18  -4.4
VLZ      2.86  74 ePc    31 04.54  -2.6
TRF      3.11  14 eP     31 09.70  -1.1
KLU      3.14  68 iPc    31 08.58  -2.5
KTH      3.15   9 eP     31 10.40  -0.8
WRH      4.42  23 eP     31 26.50  -2.3
CCB      4.63  23 eP     31 28.51  -3.2
BALM     4.77  79 eP     31 30.91  -3.0
        47 obs. associated
-----------------------------------
&  JUL  09, 1991  09h 06m 11.50s
   33.490 N          116.420 W
   DEPTH =   7.0km
 SOUTHERN CALIFORNIA              ( 43)
      <PAS-P>. ML 3.7 (PAS). Felt
      (III) at Indio, Loke Elsinore,
      Ramona and Rancha Mirage. Also
      felt at Cathedrol City and Polm
      Springs.

PLM      0.39 250 iPc    06 19.10  -0.4
TPC      0.69  27 iPd    06 24.10  -1.2
PEC      0.74 303 eP     06 24.60  -1.6
CPE      0.83 223 iPd    06 26.40  -1.5
BAR      0.83 195 iPd    06 26.70  -1.2
IKP      0.88 163 iPc    06 27.90  -0.8
GLA      1.40 108 eP     06 35.00  -2.6
MWC      1.55 299 eP     06 38.80  -0.9
CIS      1.66 268 ePc    06 39.30  -1.9
SBB      1.67 316 eP     06 40.60  -0.7
GSC      1.83 350 eP     06 42.50  -1.3
SCI      1.85 255 eP     06 42.50  -1.4
CLC      2.52 338 eP     06 51.60  -1.9
ABL      2.69 301 eP     06 54.50  -1.7
BCH      3.47 300 eP     07 05.50  -1.6
PRI      4.38 308 eP     07 25.70   5.6
                  eS     08 12.40
FRI      4.41 323 eP     07 32.00  11.7
                  eS     08 24.60
TNP      4.63 352 eP     07 22.80  -0.9
BONR     4.71 342 eP     07 23.50  -1.5
CMB      5.56 326 e(P)   07 35.00  -1.8
MSU      6.08  33 e(P)   07 48.00   3.8
        21 abs. associated
-----------------------------------
   JUL  09, 1991  11h 14m 47.12± 0.75s
   22.131 N ± 8.5km   94.482 E ± 8.5km
   DEPTH = 132.3 ±  9.0 km
   4.3mb ( 10 abs.)
 BURMA                            (296)

SHL      4.17 326 iP     15 49.50  -0.6
                  iS     16 32.00
CHG      5.33 127 ePn    16 04.50  -1.2
                  eSg    17 06.00
CHTO     5.33 127 iPn    16 04.50  -1.2
                  ePg    16 21.60
                  eSn    17 06.90
LSA      8.11 339 P      16 43.00  -0.8
KMI      8.14  67 Pc     16 46.00   2.0
KHT      8.28 151 eP     16 46.80   1.1
HYB     15.71 255 eP     18 24.00   1.6
LZH     16.12  28 eP     18 38.50  10.9X
        1.5s    28.00nm
NDI     16.90 296 eP     18 37.00  -0.1
        0.5s    14.08nm          4.5mb
                  iS     21 30.00
WMO     22.35 347 P      19 36.50   1.7
                  sP     20 14.80
WRA     57.14 134 P      24 22.00  -0.3
        0.3s     3.30nm          4.8mb
ASPA    59.52 138 iPc    24 39.00   0.2
        0.6s     4.70nm          4.7mb
HFS     66.51 327 eP     25 23.50  -0.9
        0.6s     1.80nm          4.1mb
NB2     67.66 328 P      25 30.80  -0.8
        0.6s     1.60nm          4.1mb
LPG     73.02 313 eP     26 04.90   0.3
        0.8s     4.05nm          4.2mb
LPL     73.03 313 eP     26 05.00   0.5
        0.8s     4.05nm          4.2mb
FRF     73.58 311 eP     26 07.00  -0.5
        0.6s     3.60nm          4.3mb
LBF     74.49 315 eP     26 12.80   0.1
        0.8s     4.05nm          4.2mb
SSF     74.78 315 eP     26 13.70  -0.6
        0.8s     5.35nm          4.4mb
MAF     75.64 314 eP     26 19.00  -0.3
      S.D. = 1.1  on  19 of  20 obs.
-----------------------------------
?  JUL  09, 1991  11h 18m 19.77± 1.07s
    5.031 N ±18.4km   78.386 W ±48.5km
   DEPTH =  33.0km  (normal)
   4.4mb (  1 abs.)
 SOUTH OF PANAMA                  ( 83)

UPA      4.09 344 eP     19 21.50   0.0
                  i      19 35.80
NNA     16.98 175 iPd    22 16.00  -0.5
        0.8s    23.88nm          4.4mb
ZOBO    23.47 155 eP     23 27.00  -1.1
      Z  22s     0.05um          3.0Msz
                  eLR    30 30.00
LPB     23.72 155 P      23 32.00   1.7
CNCB    24.02 155 P      23 35.00   1.6
CCH     25.34 152 P      23 45.00  -0.8
SIV     27.02 141 P      24 00.20  -0.8
WRA    144.88 242 PKP    38 14.00  18.0X
        2.1s     1.10nm
      S.D. = 1.4  an   7 of   8 obs.
-----------------------------------
?  JUL  09, 1991  11h 38m 10.65± 0.89s
   41.179 N ±13.8km   28.516 E ± 7.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)

CTT      0.07 244 iPg    38 13.00   0.0
                  iSg    38 15.50
ISK      0.43 105 ePg    38 19.00  -0.3
DMK      0.86 319 ePn    38 27.20   0.0
HRT      0.94 112 ePn    38 29.00   0.4
      S.D. = 0.5  an   4 of   4 obs.
-----------------------------------
?  JUL  09, 1991  11h 40m 00.01± 1.67s
   43.517 N ±24.9km  149.100 E ±18.7km
   DEPTH =  33.0km  (normal)
   4.2mb (  2 obs.)
 KURIL ISLANDS REGION             (222)

KUSJ     3.23 264 P      40 47.80  -1.8
                  eS     41 15.80
HOOJ     4.42 257 eP     41 07.30   0.9
                  eS     41 50.00
ASAJ     4.71 280 eP     41 11.10   0.5
OFUJ     7.14 234 eP     41 44.90   0.2
                  eS     42 56.50
INK     45.89  30 eP     48 20.00  -0.5
NB2     70.32 340 P      51 13.40   1.5
        0.7s     1.20nm          4.1mb
HFS     70.44 338 eP     51 11.70  -0.8
        0.3s     0.80nm          4.3mb
      S.D. = 1.4  on   7 of   7 obs.
-----------------------------------
*  JUL  09, 1991  11h 46m 17.91± 1.24s
   15.702 N ±20.0km   94.507 W ±11.0km
   DEPTH =  10.0km  (geophysicist)
   4.2mb (  5 obs.)
 NEAR COAST OF OAXACA, MEXICO     ( 66)

PBJ      1.13 310 iP     46 38.00  -1.1
                  iS     46 52.50
SCX      2.07  60 iP     46 58.00   4.9X
                  iS     47 28.63
TPX      2.31 110 iP     46 57.20   0.6
                  iS     47 27.00
OXX      2.53 303 iP     47 01.24   1.3
                  iS     47 29.00
IIT      4.91 313 iP     47 37.00   3.3X
                  (S)    48 36.50
PPM      5.16 311 iP     47 40.73   3.1X
                  (S)    48 38.00
IIA      5.24 311 (P)    47 41.29   3.1X
ACX      5.27 283 (P)    47 38.00  -0.6
                  (S)    48 41.00
III      5.44 300 eP     47 43.44   2.2
                  (S)    48 43.00
MRX      7.51 303 iP     48 09.29  -0.9
CGX      9.41 296 (P)    48 41.00   4.2X
MEO     19.35 350 iPd    50 45.70  -0.8
TUL     20.16 357 eP     50 57.80   2.6
        1.2s    16.80nm          4.3mb
ALQ     21.96 333 eP     51 14.00   0.1
        1.0s     3.75nm          3.8mb
ANMO    21.96 333 eP     51 14.90   1.0
        0.9s     1.89nm          3.5mb
PNT     39.28 334 eP     53 48.00  -0.5
SIV     45.62 132 P      54 24.40 -16.1X
INK     58.14 344 eP     56 12.00  -1.8
MBC     61.95 353 eP     56 38.00  -1.8
        1.0s     7.00nm          4.8mb
NB2     83.80  28 P      58 48.30  -0.4
```

09d 11h

```
      0.9s      2.80nm          4.5mb
    S.D. = 1.5  on  14 of  20 obs.
-----------------------------------
   JUL  09, 1991  12h 12m 57.44± 0.95s
   13.680 N ± 8.3km  124.187 E ±12.1km
   DEPTH =  62.2 ±  8.3 km
   4.8mb (  4 obs.)
 LUZON, PHILIPPINE ISLANDS        (249)

PLP      2.62 163 ePd   13 38.00  -0.1
                  iS    13 51.00
PGP      3.15 267 eP    13 46.00   0.3
                  eS    13 58.00
MAP      3.34 183 eP    13 48.00  -0.4
                  iS    14 24.00
CVP      4.60 331 eP    14 06.00  -0.1
CGP      5.22 174 eP    14 15.00   0.3
PIP      5.75 324 ePd   15 20.00  57.8X
CHG     24.75 285 eP    18 14.20  -0.6
CHTO    24.75 285 iP    18 14.70  -0.1
      0.6s     3.65nm          4.0mb
WR2     34.89 163 eP    19 45.30   0.2
      0.5s     4.10nm          4.6mb
GUN     38.33 298 P     20 15.20   0.7
      0.8s    54.00nm          5.5mb X
PKI     38.66 297 P     20 17.00  -0.2
      0.7s    18.00nm          5.1mb
KKN     38.82 297 P     20 18.40  -0.1
      0.9s    41.00nm          5.3mb X
DMN     38.93 297 P     20 19.40   0.0
GKN     39.42 298 P     20 23.40   0.0
      1.0s    32.00nm          5.2mb
    S.D. = 0.4  on  13 of  14 obs.
-----------------------------------
*  JUL  09, 1991  12h 19m 34.75± 1.70s
    7.143 S ±12.6km  129.632 E ± 9.2km
   DEPTH = 145.0 ± 20.6 km
   4.3mb (  3 obs.)
 BANDA SEA                        (280)

MTN      5.86 166 eP    21 00.50   0.0
KUPT     6.67 243 eP    21 12.00   0.5
KNA      8.60 186 iPc   21 37.00  -0.4
      0.2s    23.00nm          5.5mb X
                  eS    23 08.00
WR2     13.53 161 iPc   22 40.20  -1.9
      0.4s    36.20nm          5.1mb X
                  eS    25 03.20
QIS     16.47 145 eP    23 19.00   0.2
                  eS    26 11.00
ASPA    16.93 166 iPc   23 25.40   0.8
      0.6s    10.20nm          4.3mb
                  eS    26 23.50
LAT     17.25  89 eP    23 29.00   0.6
WARB    19.15 188 eP    23 50.20   0.8
                  eS    27 15.00
NANU    20.48 220 eP    24 03.00   0.0
      0.3s    11.00nm          4.8mb
CHTO    39.76 311 eP    26 54.30  -0.7
      0.8s     1.83nm          3.9mb
    S.D. = 1.0  on  10 of  10 obs.
-----------------------------------
%  JUL  09, 1991  13h 44m 43.17± 3.43s
   41.922 N ±24.8km   19.237 E ± 6.5km
   DEPTH =   8.7km  (geophysicist)
 ALBANIA                          (391)
    ML 2.1 (TTG).

ULC      0.04  13 iPgd  44 45.63   0.5
                  iSg   44 47.12
BDV      0.47 320 iPgc  44 52.58  -0.2
                  iSg   45 00.18
TTG      0.51   2 iPgd  44 53.17  -0.2
                  iSg   45 01.53
HCY      0.76 314 iPgc  44 58.02  -0.1
                  iSg   45 10.03
PVY      0.87  39 iPgd  44 59.85  -0.2
                  iSg   45 13.48
NKY      0.91 349 iPgc  45 00.92   0.2
                  iSg   45 14.68
IVA      1.07  27 iPgd  45 03.32  -0.1
                  iSg   45 19.83
BRY      1.10 333 iPgc  45 04.17   0.1
                  iSg   45 21.37
PLE      1.41   5 iPgc  45 09.27   0.1
    S.D. = 0.3  on   9 of   9 obs.
-----------------------------------
?  JUL  09, 1991  13h 56m 05.17± 2.95s
   41.092 N ±46.6km   28.497 E ±25.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)

CTT      0.07 317 iPg   56 07.00  -0.6
                  iSg   56 09.50
ISK      0.43  93 iPg   56 13.50  -0.4
DMK      0.92 323 iPn   56 22.80   0.1
HRT      0.93 107 ePn   56 23.00   0.1
DST      1.49 176 iPg   56 37.80   5.8X
                  iSg   56 41.80
    S.D. = 0.6  on   4 of   5 obs
-----------------------------------
%  JUL  09, 1991  14h 19m 54.71± 0.82s
   39.138 N ± 6.3km   27.607 E ± 8.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)

IZM      0.79 200 ePg   20 10.20   0.1
                  eSg   20 22.20
DST      0.92  59 ePn   20 12.00  -0.3
EZN      1.21 305 ePn   20 16.80  -0.4
EDC      1.22   9 ePn   20 17.50   0.0
BNT      1.24  11 ePn   20 18.00   0.2
KGT      1.33 350 ePn   20 19.50   0.2
    S.D. = 0.3  on   6 of   6 obs.
-----------------------------------
?  JUL  09, 1991  15h 10m 31.65± 8.27s
   43.427 N ±10.4km   13.109 E ±63.2km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                    (381)

ARV      0.14 301 Pc    10 34.30  -0.7
                  eSg   10 35.90
ASS      0.48 223 P     10 41.20  -0.3
                  eSg   10 48.40
CRE      0.87 284 P     10 48.10  -0.3
SFI      1.04 299 P     10 51.20   0.0
                  eSg   11 05.90
PGD      1.10 294 P     10 52.70   0.2
                  eSg   11 07.70
    S.D. = 0.5  on   5 of   5 obs.
-----------------------------------
*  JUL  09, 1991  15h 36m 06.29± 3.08s
   44.213 N ±11.3km  129.444 W ±23.2km
   DEPTH =  10.0km  (geophysicist)
   4.0mb (  1 obs.)
 OFF COAST OF OREGON              ( 30)

DBO      4.63 102 P     37 16.83  -1.2
NLO      4.64  64 P     37 18.16   0.1
HSO      4.65  96 P     37 18.01  -0.2
BMW      4.93  61 P     37 21.07  -1.2
OOW      5.08  44 P     37 24.28   0.0
RVW      5.12  65 P     37 24.58  -0.2
HBO      5.15  92 P     37 26.59   1.2
GT2      5.20  77 P     37 25.91  -0.1
CPW      5.22  56 P     37 25.20  -1.1
SMW      5.28  52 P     37 26.58  -0.6
LVP      5.31  67 P     37 28.36   0.7
CZM      5.37  63 P     37 27.68  -0.8
OSD      5.39  46 P     37 28.47  -0.3
                  S     38 28.94
VLMM     5.43  73 P     37 29.49   0.2
MTMW     5.43  68 P     37 29.38   0.0
SHW      5.46  66 P     37 23.04  -6.8X
STD      5.49  66 P     37 30.33   0.2
TDL      5.53  65 P     37 30.92   0.1
SOSW     5.54  66 P     37 31.61   0.6
CDFW     5.57  67 P     37 31.16   0.0
KOSW     5.59  64 P     37 31.54   0.0
LMW      5.60  61 P     37 31.19  -0.5
STW      5.62  43 P     37 31.96   0.1
                  S     38 35.94
VLL      5.66  75 P     37 33.04   0.4
VBEM     5.67  79 P     37 33.16   0.4
GMW      5.72  52 P     37 32.79  -0.5
VFP      5.79  76 P     37 34.68   0.3
GULW     5.82  70 P     37 36.01   1.3
ASR      5.88  68 P     37 35.73   0.1
BLN      5.88  48 P     37 36.31   0.7
LON      5.94  62 P     37 36.27  -0.1
PGW      5.98  50 P     37 37.23   0.4
GLK      6.00  64 P     37 37.54   0.2
WPW      6.09  63 P     37 37.40  -1.1
FMW      6.09  61 P     37 38.30  -0.5
RMW      6.25  56 P     37 40.68  -0.1
VIPM     6.33  84 P     37 41.57  -0.6
MCW      6.39  43 P     37 43.08   0.3
                  S     38 52.65
NAC      6.56  64 P     37 46.60   1.3
TBM      6.86  61 P     37 49.26  -0.2
MBW      6.93  46 P     37 51.08   0.6
                  S     39 09.37
RPW      6.93  50 P     37 50.36  -0.1
FFC     20.58  50 eP    40 48.00   0.3
      0.8s     6.00nm          4.0mb
    S.D. = 0.6  on  42 of  43 obs.
-----------------------------------
*  JUL  09, 1991  15h 49m 07.74± 0.80s
   10.523 S ±10.5km  124.010 E ±10.0km
   DEPTH =  57.3 ± 13.4 km
   3.8mb (  2 obs.)
 TIMOR                            (289)

KUPT     0.54 313 eP    49 20.00   0.0
KNA      6.96 139 eP    50 50.00   0.5
                  eS    51 42.00
MTN      7.35 109 eP    50 54.50  -0.4
                  e     51 33.00
WR2     13.69 134 eP    52 17.70  -3.1X
      0.2s     5.00nm          4.9mb X
                  eS    54 42.20
NANU    14.46 213 eP    52 31.00   0.2
                  e     53 34.00
WARB    15.78 171 eP    52 47.00  -0.8
                  e     53 47.00
ASPA    16.12 145 iPd   52 52.60   0.4
      0.8s     4.40nm          3.6mb
                  i     52 58.70
                  eS    55 42.30
QIS     18.02 125 e(P)  53 20.00   4.1X
                  i     53 59.00
                  e     56 23.80
CHTO    38.22 320 eP    56 24.10   0.1
      1.0s     2.00nm          4.0mb
    S.D. = 0.6  on   7 of   9 obs.
-----------------------------------
*  JUL  09, 1991  15h 49m 38.68± 0.46s
    8.339 S ±13.5km  124.333 E ±17.9km
   DEPTH =  50.1km  (  3 depth phases)
   5.2mb ( 15 obs.)
 TIMOR                            (289)

WR2     15.08 141 eP    53 05.00  -5.3X
      0.7s    70.70nm          5.0mb
ASPA    17.79 150 iPd   53 42.30  -2.1
      1.3s    26.00nm          4.2mb
    Z  19s     1.60um
                  eS    56 49.90
CTAQ    24.21 121 iPd   54 53.00   1.0
      1.0s    82.50nm          5.2mb
                  iS    59 15.00
STK     28.40 148 eP    55 31.40   0.9
      0.9s     5.70nm          4.2mb
                  e     56 20.80 252kmX
                  eS    01 03.30
BFD     33.12 153 eP    56 13.00   0.8
CHG     36.81 317 eP    56 45.00   1.1
      1.0s    12.25nm          4.8mb
CHTQ    36.81 317 eP    56 45.10   1.2
      1.0s    12.00nm          4.8mb
KMI     39.35 328 Pc    57 09.00   3.6X
      2.5s   130.00nm          5.3mb
                  pP    57 24.20  60km
WHN     39.83 346 eP    57 01.00  -7.9X
                  pP    57 13.00  44km
CD2     43.73 334 eP    57 41.40   0.5
                  eS    04 11.50
XAN     44.61 342 eP    57 47.00  -1.0
MAT     46.51  15 eP    58 03.00   0.0
      1.1s    21.52nm          5.0mb
LZH     48.21 338 eP    58 16.50  -0.1
      2.0s    67.00nm          5.3mb
    Z  25s     0.25um          4.1MszX
    N  15s     0.36um
                  sP    58 40.00
GUN     51.78 316 P     58 44.40   0.2
      1.0s   140.00nm          5.9mb
PKI     51.90 315 P     58 45.00  -0.1
      0.7s    23.00nm          5.3mb
KKN     52.12 315 P     58 46.80   0.2
      1.0s    64.00nm          5.6mb
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DMN     52.13 315 P      58 46 40  -0.3
        0.9s     46.00nm          5.5mb
GTA     52.67 336 eP     58 49.40  -1.0
        1.2s     20.00nm          5.0mb
                  pP     59 02.40  47km
GKN     52.70 315 P      58 50.00  -0.9
        0.9s     49.00nm          5.5mb
WMQ     61.62 331 P      59 53.00  -0.6
CNCB   152.20 154 PKP    09 31.00   6.0X
ZOBO   152.62 153 ePKP   09 17.00  -8.6X
     Z  24s      0.04um          4.1MszX
                  i      09 32.00
                  LR     03 25.00
     S.D. = 1.0  on  17 of  22 obs.
-----------------------------------
   JUL  09, 1991  16h 14m 31.97± 1.51s
    4.941 S ± 7.6km  144.417 E ± 9.0km
   DEPTH =  54.9 ± 15.1 km
   5.2mb (  9 obs.)
 NEAR N COAST OF PAPUA NEW GUINEA(200)

YYYY     2.01 130 eP     15 05.40   1.2
PMG      5.20 149 ePd    15 47.00  -2.2
RAB      7.76  85 eP     16 28.00   3.0X
MTN     15.29 238 eP     18 05.00  -1.0
QIS     16.21 196 ePd    18 18.70   1.0
                eS       21 32.00
WR2     17.84 212 iPd    18 37.90  -0.2
        0.7s    195.30nm          5.4mb
                i        22 03.00
KNA     18.75 234 eP     18 50.00   0.8
        0.5s     26.00nm          4.7mb
ASPA    21.20 208 iPc    19 15.30   0.1
        1.1s    111.30nm          5.1mb
                i        19 20.60
                eS       23 12.60
RMO     21.83 169 eP     19 23.00   1.6
                i        19 35.60
STK     26.93 185 iPc    20 12.10   2.0
        0.5s      2.50nm          4.1mb X
WARB    27.12 217 iPd    20 12.20   0.3
        0.5s     64.00nm          5.5mb
FORR    30.00 209 eP     20 37.00  -0.7
COOL    33.84 218 eP     21 10.60  -0.8
        0.4s     15.00nm          5.3mb
KLB     36.44 220 eP     21 33.00  -0.4
BAL     36.50 222 eP     21 34.00   0.0
        0.4s     23.00nm          5.5mb
NWAO    37.66 219 eP     21 42.00  -1.6
MUN     37.70 221 iPd    21 44.10   0.1
SSE     42.15 330 eP     22 20.50  -0.2
PSI     46.08 278 ePd    23 01.60   8.9X
LOE     47.64 299 eP     23 07.00   2.0
CHG     50.63 299 eP     23 28.10   0.2
CHTO    50.63 299 eP     23 29.00   1.1
        0.9s      4.69nm          4.5mb
XAN     51.25 322 eP     23 31.50  -1.0
CD2     52.71 315 eP     23 43.00  -0.5
LSA     61.56 308 eP     24 46.90   0.2
GBA     68.97 287 Pd     25 33.70  -0.3
        0.7s      9.20nm          4.8mb
WMQ     70.33 320 P      25 41.70  -0.3
SPA     85.09 180 eP     27 02.00  -1.1
        0.6s     16.26nm          5.3mb
INK     91.62  22 eP     27 34.00   0.1
CNCB   141.37 125 PKP    33 55.00  -5.2X
ZOBO   141.53 124 PKP    33 55.60  -4.9X
SIV    147.31 130 PKP    34 09.00  -0.5
KIC    149.28 274 PKP    34 16.94   4.2X
TIC    149.55 275 PKP    34 17.70   4.6X
        0.6s      8.50nm
LIC    149.57 274 PKP    34 17.52   4.4X
        0.5s     10.00nm
LKO    149.91 280 PKP    34 18.46   4.8X
     S.D. = 1.1  on  28 of  36 obs.
-----------------------------------
?  JUL  09, 1991  16h 27m 34.34± 1.06s
   15.036 N ± 8.9km  120.064 E ±18.7km
   DEPTH =  33.0km  (normal)
   4.7mb (  2 obs.)
 LUZON, PHILIPPINE ISLANDS        (249)

PGP      1.75 150 eP     28 03.00   0.1
SZP      2.53   8 eP     28 15.00   1.0
CVP      3.14  32 eP     28 22.00  -0.7
PIP      3.31   9 ePd    28 25.00  -0.1
BJI     25.14 353 eP     32 58.00   0.1
        1.5s     21.00nm          4.5mb
LZH     25.49 328 eP     33 01.00  -0.5
        2.0s     56.00nm          4.8mb
     Z  16s      0.25um          3.8MszX
                  sP     33 17.00
     S.D. = 0.8  on   6 of   6 obs.
-----------------------------------
?  JUL  09, 1991  18h 19m 29.70± 1.57s
   16.604 S ±17.1km   71.634 W ± 9.7km
   DEPTH =   5.0km  (geophysicist)
 SOUTHERN PERU                     (117)
      Felt (II) at Arequipa.

ARE      0.20  44 iPc    19 33.80   0.0
                iS       19 38.40
ZOBO     3.38  85 iPc    20 25.00   0.2
     Z  22s      0.08um
                i        20 35.50
                LR       34 32.00
LPB      3.39  89 P      20 34.20   9.4X
        1.0s    100.00nm
CNCB     3.51  94 P      20 26.40  -0.1
                i        20 41.00
CCH      5.31  99 P      21 08.50  16.5X
NNA      6.82 312 eP     21 13.00   0.0
        0.6s      6.67nm          4.9mb
                eS       22 32.00
SIV     10.16  88 P      21 54.00  -5.4X
                i        22 04.30
WRA    135.61 216 PKP    38 43.00 -10.8X
        0.7s      5.30nm
WRA    135.61 216 PKP    38 45.00  -8.8X
        0.6s      4.30nm
WRA    135.61 216 PKP    39 02.00   8.2X
        0.6s      2.80nm
     S.D. = 0.2  on   4 of  10 obs.
-----------------------------------
   JUL  09, 1991  18h 28m 48.70± 0.38s
   36.701 N ± 5.6km  141.337 E ± 5.0km
   DEPTH =  42.6km  ( 12 depth phases)
   4.7mb ( 29 obs.)  4.2Msz (  5 obs.)
 NEAR EAST COAST OF HONSHU, JAPAN(228)

KAKJ     1.06 243 iPd    29 07.40   0.1
                S        29 20.40
YAMJ     1.80 325 iPd    29 18.80   1.0
                eS       29 42.20
NIIJ     1.95 287 iPd    29 21.20   1.3
                S        29 47.30
CHJJ     2.00 252 iPd    29 21.00   0.4
                S        29 44.20
OFUJ     2.39   6 eP     29 25.90  -0.3
MAT      2.52 267 iPd    29 29.80   1.7
                eS       30 02.00
MTMJ     2.84 269 iPd    29 34.60   1.8
IIDJ     3.03 247 iPd    29 37.70   2.3
                S        30 15.30
AOMJ     3.93 349 P      29 49.20   1.2
TSRJ     4.49 257 iP+    29 57.80   1.8
WKYJ     5.30 244 P      30 08.00   0.5
MRRJ     5.72 358 eP     30 13.80   0.5
HOOJ     5.87  14 eP     30 14.70  -0.7
                eS       31 19.60
TKSJ     6.54 248 P      30 25.20   0.3
YONJ     6.56 259 eP     30 26.50   1.3
KUSJ     6.90  21 P      30 26.20  -3.6X
                eS       31 41.30
SHK      7.38 255 eP     30 36.80   0.2
ASAJ     7.48   7 eP     30 36.00  -1.9
SHNJ     8.74 256 P      30 58.80   3.4X
MDJ     11.91 315 eP     31 42.20   3.5X
        1.0s     50.00nm          5.6mb
CN2     14.04 305 eP     32 06.00  -0.9
        1.0s     11.00nm          4.5mb
     Z  18s      1.28um
     N  12s      0.27um
     E  12s      0.29um
SNY     14.67 296 eP     32 14.30  -0.8
        0.8s     40.00nm          4.9mb
NJ2     19.12 263 eP     33 07.00  -3.9X
     Z  20s      0.40um
TIA     19.48 276 eP     33 12.00  -2.9X
BJI     19.99 287 eP     33 18.00  -2.3
        1.0s     27.00nm          4.5mb
TIY     23.01 281 eP     33 47.00  -3.8X
     Z  16s      1.07um          4.4MszX
     E  13s      0.56um
WHN     23.25 263 eP     33 52.00  -1.1
                pP       34 03.00  43km
HHC     23.52 289 eP     33 54.00  -1.8
BTO     24.70 289 eP     34 05.50  -1.7
XAN     26.50 274 P      34 23.20  -0.8
LZH     30.06 280 Pd     34 55.00  -1.3
        1.5s     34.00nm          4.9mb
                pP       35 10.00  61kmX
GYA     31.11 261 iPd    35 03.00  -2.5
        1.0s     31.00nm          5.0mb
CD2     31.61 271 P      35 08.00  -1.8
GTA     32.60 288 P      35 17.00  -1.5
        0.8s     10.00nm          4.7mb
                pP       35 28.00  40km
                ScS      45 42.00
LOE     39.82 252 eP     36 19.50  -0.1
WMQ     40.94 297 P      36 29.00   0.3
        0.8s     50.00nm          5.3mb
     Z  20s      0.30um          4.2Msz
                eS       42 35.00
CHG     41.15 256 eP     36 30.30  -0.3
CHTO    41.15 256 eP     36 30.50  -0.1
        1.0s      5.75nm          4.3mb
LSA     42.18 276 P      36 40.80   1.3
NDI     53.68 281 eP     38 08.00  -0.4
INK     54.71  27 eP     38 21.00   5.5X
WRA     56.72 188 P      38 29.00  -1.5
        1.7s      2.70nm          4.0mb
WR2     56.72 188 eP     38 28.20  -2.3
        0.4s      6.50nm          5.0mb
                i        38 38.00  32kmX
                i        39 41.90
HYB     58.13 269 eP     38 40.00  -0.7
                e        38 52.00  42km
ASPA    60.45 188 eP     38 56.50   0.1
        0.8s      4.10nm          4.6mb
GBA     61.13 266 Pc     39 00.20  -1.0
        0.9s      6.00nm          4.7mb
STK     68.22 180 eP     40 00.00  13.2X
        0.4s      2.20nm
OBN     68.32 323 eP     39 47.00  -0.3
     Z  18s      0.10um          4.1Msz
                i        39 58.70  39km
KAF     68.58 333 iP     39 48.00  -0.8
        0.5s      3.50nm          4.6mb
NUR     70.21 332 iP     39 57.90  -0.9
WDC     71.32  53 e(P)   40 06.70   0.8
ORV     72.55  54 e(P)   40 13.50   0.3
                e        40 27.80  50km
FFC     74.02  33 eP     40 22.00   0.5
        0.8s      5.00nm          4.5mb
CMB     74.11  54 ePd    40 23.20   0.8
                e        40 38.50  55kmX
HFS     74.37 336 eP     40 22.90  -0.5
        0.4s      0.70nm          4.0mb
     Z  18s      0.13um          4.3Msz
                LR       13 59.00
PRS     74.42  56 e(P)   40 24.70   0.5
                e        40 39.20  51km
LRM     74.43  44 eP     40 25.20   0.8
NB2     74.47 337 P      40 23.80  -0.3
        0.9s      7.70nm          4.7mb
FRI     75.15  55 e(P)   40 29.00   0.7
                e        40 44.30  54kmX
KRA     79.34 326 eP     40 57.10   5.8X
                e        41 04.20  23kmX
BRG     81.31 329 iP     41 02.20   0.5
        1.0s     10.00nm          4.8mb
CLL     81.35 330 iPc    41 02.10   0.2
        1.0s     19.00nm          5.0mb
                ipP      41 14.60  42km
PRU     81.73 329 eP     41 04.50   0.5
                e        41 16.50  40km
KHC     82.80 328 P      41 10.50   0.9
        1.0s      7.00nm          4.7mb
                e        41 21.50  35km
GRF     83.33 330 ePc    41 13.50   1.2
        0.9s     14.00nm          5.0mb
                e        41 26.00  42km
                e        41 36.90
VAY     84.26 318 eP     41 17.70   0.6
                i        41 30.40  42km
SKO     84.39 319 eP     41 19.00   1.2
ALQ     84.85  50 eP     41 22.20   1.7
        1.0s      5.75nm          4.7mb
                e        41 35.50  45km
CDF     85.91 331 eP     41 25.40   0.0
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09d 18h

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        0.8s      8.05nm          5.0mb
BSF    86.57 331 eP     41 28.20   -0.4
HAU    86.60 332 eP     41 28.70    0.0
        0.7s      4.40nm          4.8mb
     Z  20s       0.08um          4.1Msz
LOR    88.15 333 eP     41 36.40    0.2
        1.0s      4.00nm          4.6mb
     Z  20s       0.10um          4.2Msz
LPL    88.49 330 eP     41 38.60    0.5
        0.6s      1.80nm          4.5mb
LPG    88.50 330 eP     41 38.30    0.1
        0.6s      1.80nm          4.5mb
SMF    88.68 332 eP     41 38.80    0.1
        1.0s      4.00nm          4.7mb
AVF    88.74 333 eP     41 39.20    0.3
        0.8s      4.70nm          4.9mb
UPA   120.54  49 ePdiff44 17.50   15.0X
ZOBO  146.91  60 PKP    48 29.20    2.0X
                i       48 42.70
LPB   147.10  60 PKP    48 31.00    3.7X
CNCB  147.37  60 PKP    48 32.30    4.3X
SIV   151.35  50 PKP    48 39.80    6.4X
      S.D. = 1.1  on  67 of  81 obs.
-----------------------------------------
*  JUL  09, 1991  18h 41m 11.07± 0.80s
   15.981 S ± 8.3km   31.539 E ±11.8km
   DEPTH =  10.0km  (geophysicist)
 MOZAMBIQUE                          (581)
      MG 3.9 (LMM).

SONG     1.25  73 iPg    41 34.40    0.0
                iSg     41 40.40
PTZ      1.73 354 iPb    41 41.50    0.0
                iSb     42 02.00
LSZ      3.30 282 ePn    42 06.00    2.0X
                e(Sn)   42 36.10
                eSg     42 53.00
SLR     10.17 197 iPc    43 40.50    0.2
        0.9s     63.03nm          6.0mb X
                S       45 29.00
KSR     10.75 203 eP     43 48.50    0.2
        0.8s     25.00nm          5.6mb X
                S       45 42.00
SEK     12.80 196 iPd    44 15.70   -0.4
                S       46 33.50
FRS     14.85 202 eP     44 38.20   -4.6X
                S       47 13.50
WIN     15.12 242 eP     44 35.00  -11.7X
        1.0s     20.00nm
                S       47 53.50
      S.D. = 0.4  on   5 of   8 obs.
-----------------------------------------
   JUL  09, 1991  18h 46m 27.12± 0.29s
   41.390 N ± 4.0km   20.939 E ± 2.5km
   DEPTH =   5.0km  (geophysicist)
 ALBANIA                             (391)
      ML 4.0 (SKO). MD 3.4 (ATH). Felt
      (V) in the Kicevo-Krusevo area,
      Yugoslavia.

PHP      0.48 309 iPgc   46 35.40   -1.3
FNA      0.69 151 ePc    46 39.93   -1.0
                eS      46 49.76
SKO      0.69  33 iPg    46 40.30   -0.7
                iSg     46 49.60
TIR      0.81 267 ePg    46 42.20   -1.1
LACI     0.96 285 ePg    46 44.90   -0.9
GRG      1.19 111 iPc    46 49.10   -0.6
VAY      1.23  93 iPnc   46 50.00   -0.4
                iSn     47 04.40
                iSg     47 05.80
SDA      1.25 301 ePn    46 51.40    0.7
KZN      1.25 149 ePb    46 51.50    0.6
LSK      1.26 192 iPnc   46 49.60   -1.5
TPE      1.30 213 ePn    46 55.50    3.8X
KKB      1.68  73 iPc    46 58.00    0.7
                Sg      47 22.00
THE      1.71 116 ePc    46 59.20    1.5
                eS      47 20.60
LIT      1.75 137 iPd    46 58.04   -0.2
                eS      47 23.60
KEK      1.89 208 ePn    47 01.50    1.2
SOH      1.91 106 ePc    47 02.24    1.5
IGT      1.91 194 iPc    47 04.56    3.9X
SRS      2.02  97 ePd    47 02.08   -0.1
                eS      47 28.64
MMB      2.10  84 iPc    47 03.00   -0.5
                eS      47 32.00
LCI      2.50 246 Pd     47 07.90   -1.1
PAIG     2.55 124 iPd    47 08.92   -0.8
AGG      2.59 155 ePd    47 10.96    0.5
RZN      2.85  83 iPc    47 14.00   -0.3
                Sg      48 02.00
BRT      2.87 261 P      47 15.20    0.8
PLD      2.91  75 iPc    47 15.00    0.1
                Sg      48 02.00
BEO      3.45 354 e(Pn)  47 58.50   36.0X
RDO      3.47  93 ePn    47 33.00   10.1X
ORI      3.66 250 P      47 26.20    0.6
HVAR     3.78 300 ePn    47 28.40    1.1
TDS      3.91 245 P      47 27.50   -1.6
CZI      4.27 241 P      47 34.50    0.3
                eSn     48 20.60
MGR      4.28 255 P      47 34.40    0.1
SGO      4.34 261 P      47 35.30    0.0
DUI      4.87 275 P      47 44.20    1.3
SDI      5.35 276 P      47 51.70    2.0
PTJ      5.78 323 eP     48 15.20   19.6X
ARV      6.28 292 P      48 01.60   -1.1
ASS      6.37 288 P      48 03.40   -0.6
TRI      6.77 312 eP     48 08.80   -0.7
                e       49 22.30
CRE      7.01 292 P      48 13.20    0.2
SFI      7.16 294 P      48 17.00    2.0
FVI      7.85 314 P      48 24.00   -0.6
      S.D. = 1.0  on  37 of  42 obs.
-----------------------------------------
   JUL  09, 1991  19h 08m 02.39± 0.26s
   41.354 N ± 3.6km   20.943 E ± 2.6km
   DEPTH =   8.8 ±  2.3 km
 ALBANIA                             (391)
      ML 3.5 (SKO). MD 3.4 (ATH), 3.1
      (THE). Felt (IV) in the Kicevo-
      Krusevo area, Yugoslavia.

PHP      0.50 312 iPgc   08 11.00   -1.6
FNA      0.66 150 iPc    08 15.22   -0.4
                eS      08 25.34
SKO      0.72  31 iPg    08 15.80   -0.9
                iSg     08 25.30
TIR      0.81 270 iPgc   08 18.00   -0.2
LACI     0.97 287 ePg    08 20.00   -0.9
GRG      1.17 109 ePc    08 24.30   -0.1
                eS      08 40.62
KZN      1.22 149 ePb    08 25.90    0.6
VAY      1.23  91 iPn    08 25.20   -0.1
                iSg     08 40.60
LSK      1.23 192 ePn    08 24.30   -1.1
SDA      1.27 302 iPnc   08 21.80   -4.2X
TPE      1.27 214 ePn    08 29.60    3.5X
ULC      1.41 296 ePg    08 28.20    0.0
                eSg     08 46.80
PVY      1.44 330 iPgd   08 28.40   -0.3
                eSg     08 49.20
TTG      1.65 311 ePg    08 32.10    0.4
                eSg     08 53.20
KKB      1.68  72 iPc    08 33.00    0.8
                Sg      08 57.00
THE      1.69 115 ePd    08 32.82    0.6
                eS      08 55.38
IVA      1.70 333 iPgd   08 33.40    0.9
                eSg     08 56.00
LIT      1.72 136 ePd    08 33.74    1.1
BDV      1.83 301 ePn    08 35.20    0.9
                eSn     08 59.10
KEK      1.86 208 ePn    08 37.20    2.5
                eSn     09 05.00
IGT      1.88 195 ePd    08 39.66    4.7X
                eS      09 05.18
SOH      1.90 105 ePd    08 35.70    0.4
SRS      2.01  96 ePd    08 37.10    0.2
                iS      09 01.82
NKY      2.05 316 ePn    08 40.10    2.5X
                eSn     09 03.00
VTS      2.09  53 iP     08 38.00   -0.2
                iSg     09 05.00
MMB      2.11  83 eP     08 38.00   -0.3
                eSg     09 12.00
HCY      2.13 302 ePn    08 40.20    1.6
                eSn     09 07.50
PLE      2.28 330 ePn    08 42.80    1.8
                eSn     09 13.20
BRY      2.36 312 ePn    08 43.60    1.5
                eSn     09 15.30
LCI      2.49 247 P      08 42.40   -1.3
PAIG     2.52 123 ePd    08 44.06   -0.2
AGG      2.56 155 ePc    08 46.30    1.5
RZN      2.85  82 iP     08 48.00   -1.1
                Sg      09 34.00
BRT      2.86 262 P      08 49.50    0.4
KDZ      3.37  83 iP     08 56.00   -0.3
RDO      3.47  92 ePn    08 57.20   -0.5
ORI      3.65 251 P      09 02.10    1.8
HVAR     3.80 300 ePn    09 03.40    1.0
CSI      3.88 248 P      09 02.50   -1.0
TDS      3.90 246 P      09 02.50   -1.3
CZI      4.25 241 P      09 08.90    0.1
MGR      4.27 255 P      09 09.10    0.1
SGO      4.34 261 P      09 09.50   -0.5
VLI      4.88 161 ePg    09 33.00   15.2X
SDI      5.36 276 P      09 24.20   -0.4
VBY      5.86 317 e(Pn)  09 32.40    0.9
                e(Sn)   10 42.50
ARV      6.30 293 P      09 36.20   -1.5
ASS      6.38 288 P      09 38.40   -0.6
CRE      7.02 292 P      09 46.50   -1.5
SFI      7.18 294 P      09 50.50    0.5
FVI      7.88 314 P      09 56.50   -3.3X
      S.D. = 1.0  on  45 of  51 obs.
-----------------------------------------
*  JUL  09, 1991  19h 39m 13.76± 1.58s
   24.247 S ±15.3km   66.809 W ±11.8km
   DEPTH = 172.1 ± 16.1 km
   4.5mb (  2 obs.)
 SALTA PROVINCE, ARGENTINA           (129)

ANT      3.34 279 iPc    40 06.30   -0.5
                iS      40 42.20
CNCB     7.48 351 P      41 02.80    1.0
                S       42 23.00
LPB      7.77 351 P      41 06.20    0.8
ZOBO     8.03 351 iP     41 08.20   -0.9
        0.8s     15.05nm          4.5mb
                S       42 43.00
SIV      9.82  34 Pc     41 31.80   -0.3
VAO     18.23  90 eP     43 17.70    1.1
SOB1    28.89  63 (P)    44 57.00   -1.7
YKA     94.41 340 eP     52 14.40   -0.2
        0.6s      1.70nm          4.4mb
WR2    131.47 207 ePKP   58 08.50    0.6
        0.6s      3.80nm
WRA    131.49 207 PKP    58 08.00    0.0
        0.5s      2.20nm
      S.D. = 1.1  on  10 of  10 obs.
-----------------------------------------
   JUL  09, 1991  20h 06m 30.04± 0.77s
   45.899 N ± 4.9km    0.189 W ± 7.5km
   DEPTH =  11.1 ±  3.4 km
 FRANCE                              (538)
      ML 2.8 (LDG).

MFF      0.70   2 Pn     06 44.40    0.6
                Sg      06 57.20
LFF      1.16 145 Pg     06 50.80   -0.8
                Sg      07 08.00
LSF      1.25  73 Pg     06 57.60    4.5X
                Sg      07 18.40
RJF      1.34 116 Pg     06 56.30    1.7
                Sg      07 17.80
LPO      1.56 141 Pg     06 58.00    0.3
                Sg      07 20.50
TCF      1.71  76 Pn     07 00.70    0.7
                Pg      07 05.00
                Sg      07 33.60
CAF      1.86 121 Pn     07 01.20   -0.9
                Pg      07 06.00
                Sg      07 33.40
MAF      1.95  79 Pn     07 03.40    0.1
                Pg      07 10.00
                Sg      07 41.20
BGF      2.21  72 Pn     07 07.00   -0.1
                Pg      07 15.20
                Sg      07 50.10
LPF      2.21 345 Pg     07 06.00   -1.2
                Sg      07 35.60
GRR      2.53 350 Pg     07 12.80    1.1
                Sg      07 47.20
AVF      2.61  69 Pn     07 12.40   -0.4
                Pg      07 22.20
SSF      2.81  64 Pn     07 15.60    0.0
                Pg      07 26.00
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                    Sn     07 50.50
FLN      2.87 356 Pg     07 20.40    3.9X
                    Sg     07 58.60
EPF      2.89 172 Pg     07 17.20    0.3
                    Sg     07 53.40
SMF      2.89  74 Pn     07 16.80   -0.1
                    Pg     07 27.60
LBF      3 08  68 Pn     07 19.40   -0.1
                    Pg     07 31.20
LOR      3.11  62 Pn     07 19.20   -0.7
                    Pg     07 31.40
                    Sn     07 57.60
     S.D. = 0.9  on  16 of  18 obs.
-----------------------------------
?  JUL  09, 1991  20h 11m 42.52± 0.96s
   40.653 N ± 8.7km   29.809 E ± 6.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)

HRT      0.20 328 iPg    11 47.00    0.1
EYL      0.28 108 iPg    11 48.40    0.0
                    eSg    11 52.00
YLV      0.34 256 iPg    11 49.50   -0.1
IZI      0.41 219 iPg    11 51.00    0.1
                    eSg    11 57.50
CTT      1.16 296 ePn    12 24.00   19.9X
     S.D. = 0.2  on   4 of   5 obs.
-----------------------------------
&  JUL  09, 1991  20h 28m 16.35s
   61.564 N          150.944 W
   DEPTH =  65.4km
 SOUTHERN ALASKA                   (  2)
      <AEIC>.

SUA      0.14 136 iP     28 26.56    1.8
                    eS     28 35.10
SKT      0.50 327 iP     28 28.15   -0.8
                    eS     28 37.77
PWA      0.52  80 iP     28 29.11    0.0
CGLM     0.57 244 iP     28 29.36   -0.4
                    eS     28 39.60
NCG      0.60 255 iP     28 29.51   -0.7
                    eS     28 40.29
SPU      0.66 235 iP     28 29.95   -0.8
                    eS     28 41.06
PMS      0.74 115 eP     28 31.12   -0.5
BGL      0.76 247 iP     28 31.40   -0.6
                    eS     28 43.66
CKL      0.77 242 eP     28 31.30   -0.8
                    eS     28 43.35
NKA      0.84 190 iP     28 34.18    1.4
PLRM     0.87  87 iP     28 32.14   -1.0
                    eS     28 44.94
CUT      0.90  20 iP     28 32.95   -0.6
                    eS     28 45.95
GHO      0.99  77 eP     28 33.88   -0.9
                    eS     28 48.08
SLKM     1.12 161 eP     28 35.57   -0.9
KNK      1.20  96 iP     28 36.64   -1.0
                    eS     28 53.30
RDT      1.22 216 iP     28 37.02   -0.9
                    eS     28 54.06
DFR      1.29 222 eP     28 38.10   -0.8
                    eS     28 55.45
RDN      1.38 221 eP     28 39.20   -0.8
REF      1.38 219 eP     28 39.63   -0.5
NCT      1.39 225 eP     28 39.50   -0.7
RS2      1.41 219 eP     28 40.09   -0.5
RSO      1.41 219 eP     28 39.80   -0.8
RDW      1.42 221 eP     28 39.98   -0.6
SEW      1.64 153 eP     28 44.24    0.8
TRF      1.92   9 eP     28 47.15   -0.4
KNIM     1.98 127 eP     28 44.83   -3.4
GLI      1.99 109 eP     28 45.57   -2.7
KTH      2.00   0 eP     28 47.99   -0.5
LTI      2.15 134 eP     28 47.77   -2.8
VZW      2.18 102 eP     28 48.63   -2.4
KLU      2.41  89 eP     28 51.21   -3.0
     31 obs. associated
-----------------------------------
   JUL  09, 1991  22h 04m 17.10± 0.62s
   39.869 N ± 5.4km   23.344 E ± 3.5km
   DEPTH =   7.4 ±  3.3 km
 AEGEAN SEA                        (365)
      MD 2.9 (THE).

PAIG     0.26  77 iPc    04 22.89    0.3
                    eS     04 27.00
OUR      0.67  46 iPc    04 30.46   -0.2
LIT      0.70 290 ePc    04 31.08    0.0
                    eS     04 42.52
THE      0.82 339 ePc    04 32.88   -0.2
                    iS     04 45.12
SOH      0.95   0 ePc    04 35.64    0.2
                    iS     04 49.74
AGG      1.15 223 iPd    04 38.44   -0.5
SRS      1.26   9 ePc    04 40.72    0.0
                    eS     04 57.16
GRG      1.30 327 iPc    04 41.14   -0.3
                    eS     04 57.44
VAY      1.57 338 iP     04 45.60    0.3
MMB      1.74  10 iPc    04 47.00   -0.9
                    eSg    05 13.00
FNA      1.76 302 ePd    04 47.76   -0.4
                    iS     05 09.97
KKB      2.01 354 iPc    04 51.00   -0.7
                    S      05 18.00
                    Sg     05 22.00
RZN      2.09  29 iP     04 53.00   -0.2
                    Sg     05 25.00
EZN      2.30  90 ePn    05 03.00    7.1X
ALN      2.30  63 ePc    04 55.40   -0.6
                    iS     05 21.29
KDZ      2.38  41 iP     04 56.00   -1.0
                    eS     05 34.00
VTS      2.72 358 eP     05 02.00   -0.1
                    eSg    05 48.00
MLR      5.94  18 eP     06 05.50   17.9X
                    e      07 00.00
     S.D. = 0.5  on  16 of  18 obs.
-----------------------------------
&  JUL  09, 1991  22h 42m 10.01s
   54.647 N          139.965 W
   DEPTH =  10.0km  (geophysicist)
 WEST OF VANCOUVER ISLAND          ( 21)
      <AEIC>. ML 3.9 (AEIC).

SIT      3.56  45 eP     43 01.81   -4.6
                    eS     43 39.36
PNL      5.04   3 eP     43 23.34   -4.1
                    eS     44 15.90
TGL      6.31 347 eP     43 39.39   -6.1
CRQM     6.36 346 eP     43 39.80   -6.4
CTGM     6.38 354 eP     43 41.70   -4.7
BALM     6.53 350 eP     43 43.12   -5.5
                    eS     44 53.07
MTU      6.78 325 eP     43 45.38   -6.5
LTI      6.89 325 eP     43 45.79   -7.6
KNIM     7.08 327 eP     43 49.08   -7.1
                    eS     45 04.77
GLB      7.11 345 eP     43 50.12   -6.5
                    eS     45 06.80
GLI      7.32 332 eP     43 53.43   -6.0
VZW      7.32 334 eP     43 53.19   -6.4
VLZ      7.33 335 eP     43 53.89   -5.7
KLU      7.55 338 eP     43 56.17   -6.7
                    eS     45 19.16
SLKM     8.05 321 eP     44 02.10   -7.6
KNK      8.14 330 eP     44 05.21   -5.7
PMS      8.35 326 eP     44 06.97   -6.9
     17 obs. associated
-----------------------------------
?  JUL  09, 1991  22h 57m 13.43± 3.51s
   39.750 N ±31.2km   23.326 E ± 8.9km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                        (365)
      MD 1.6 (THE).

PAIG     0.32  57 iPc    57 20.17    0.0
                    eS     57 24.14
LIT      0.73 299 ePd    57 28.14    0.3
                    eS     57 39.78
SOH      1.07   1 ePc    57 33.90    0.3
                    eS     57 46.78
GRG      1.40 330 iPc    57 38.34   -0.6
     S.D. = 0.8  on   4 of   4 obs.
-----------------------------------
   JUL  09, 1991  23h 17m 00.86± 0.68s
   38.286 N ± 5.9km   23.996 E ± 6.2km
   DEPTH =  10.0km  (geophysicist)
 GREECE                            (364)
      ML 2.5 (ATH). MD 2.7 (THE).

ATH      0.38 215 ePg    17 07.90   -0.8
                    eSg    17 12.00
AGG      1.50 300 ePc    17 29.68    1.9
                    eS     17 49.12
PAIG     1.66 352 iPc    17 29.74   -0.3
                    eS     17 49.36
VLI      1.78 209 ePb    17 30.50   -1.3
                    eSb    17 52.00
PRK      2.02  61 ePn    17 40.00    4.7X
                    eSg    18 09.00
OUR      2.05 360 ePd    17 35.48   -0.2
LIT      2.16 328 ePd    17 37.04   -0.3
EZN      2.38  49 ePn    17 43.00    2.5X
THE      2.48 342 ePc    17 41.12   -0.7
IZM      2.57  87 ePn    17 45.30    2.0
SOH      2.58 349 ePc    17 43.16   -0.2
KZN      2.66 320 ePn    17 47.00    2.5
SRS      2.84 354 ePd    17 46.64   -0.5
GRG      2.94 336 ePd    17 49.08    0.6
RDO      3.09  22 ePn    17 49.00   -1.6
VAY      3.22 341 ePn    17 53.00    0.5
MMB      3.31 357 eP     17 53.00   -0.7
                    eSg    18 30.00
KGT      3.35  49 ePn    17 50.00   -4.3X
RZN      3.44   9 iPd    17 55.00   -0.8
                    Sg     18 32.00
KDZ      3.53  18 iP     17 55.00   -1.9
                    Sg     18 34.00
KEK      3.57 295 ePn    18 00.50    3.1X
KKB      3.64 349 iP     17 58.00   -0.5
DST      3.84  69 ePn    18 03.00    1.6
TDS      6.12 285 P      18 34.60    1.1
CZI      6.22 281 P      18 34.30   -0.5
SOI      6.26 270 P      18 34.70   -0.8
SGO      7.10 291 P      18 46.40   -0.8
SDI      8.53 297 P      19 09.20    1.9
     S.D. = 1.3  on  24 of  28 obs.
-----------------------------------
?  JUL  09, 1991  23h 20m 28.74± 1.06s
    6.207 S ±22.9km  150.181 E ±25.4km
   DEPTH =  33.0km  (normol)
   3.9mb (  3 obs.)
 NEW BRITAIN REGION                (192)

RAB      2.82  45 iPd    21 12.50    0.1
PMG      4.37 223 iPd    21 35.00    0.4
RMQ     20.22 184 iPc    25 04.30    0.5
                    i      25 13.60
WR2     20.56 227 eP     25 06.30   -1.1
        0.3s      7.20nm          4.5mb
                    e      25 15.00
ASPA    23.38 220 iPd    25 36.80    1.3
        1.2s      4.50nm          3.9mb
STK     26.78 196 eP     26 06.50   -1.1
        1.1s      0.90nm          3.3mb
     S.D. = 1.2  on   6 of   6 obs.
-----------------------------------
%  JUL  10, 1991  01h 30m 30.09± 2.04s
   38.884 N ±10.6km   30.099 E ±24.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)

KHL      0.72 219 ePg    30 44.30    0.0
                    eSg    30 56.80
DST      1.35 303 ePn    30 55.00    0.0
IZI      1.53 342 ePn    30 57.00   -0.5
EYL      1.68   2 ePn    30 59.80    0.0
YLV      1.77 342 iPn    31 01.50    0.5
     S.D. = 0.5  on   5 of   5 obs.
-----------------------------------
%  JUL  10, 1991  01h 48m 03.89± 0.75s
   44.419 N ± 6.4km   7.287 E ± 8.5km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                    (545)
      ML 2.1 (GEN).

PZZ      0.16 303 P      48 07.69    0.0
                    S      48 10.05
STV      0.18 171 P      48 07.89    0.0
                    S      48 10.35
ENR      0.22 154 P      48 08.61    0.0
                    S      48 11.58
BHB      0.42 358 P      48 12.47   -0.1
                    S      48 18.12
ROB      0.44 106 P      48 12.85    0.0
                    S      48 19.20
     S.D. = 0.1  on   5 of   5 obs.
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10d 02h

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%  JUL  10, 1991  02h 21m 56.82± 1.98s
   11.025 N ± 9.0km   61.936 W ±23.0km
   DEPTH =  33.0km  (normal)
 WINDWARD ISLANDS                    ( 95)
      MD 3.4 (TRN).

TCE      0.37 151 eP     22 06.25    0.7
                  eS     22 18.29
TRN      0.64 126 eP     22 10.08    0.6
                  eS     22 24.64
TPP      0.85 146 eP     22 11.18   -1.2
                  eS     22 28.47
TBH      1.01 122 eP     22 14.70    0.0
                  eS     22 34.98
GPW      1.16  13 eP     22 16.92    0.1
                  eS     22 39.75
BOT      1.20  83 eP     22 17.16   -0.2
                  eS     22 42.15
      S.D. = 0.9  on   6 of   6 obs.
-----------------------------------
   JUL  10, 1991  02h 46m 36.33± 0.94s
   4.590 S ± 5.5km  143.567 E ± 7.0km
   DEPTH = 114.8 ± 10.5 km
   4.9mb ( 15 obs.)
 PAPUA NEW GUINEA                    (202)

MDG      2.30 107 eP     47 14.40    0.5
LAT      3.98 121 iPd    47 38.00    1.5
PMG      5.97 144 eP     48 02.00   -1.7
MTN     14.77 235 eP     50 01.00    0.3
        0.5s    60.00nm          5.1mb
CTAO    15.63 171 iPc    50 20.00    8.5X
        1.0s    45.00nm          4.7mb
QIS     16.33 193 eP     50 20.00   -0.3
                  i      50 25.50
                  e      53 13.00
WR2     17.70 210 iPd    50 36.40   -0.8
        0.7s   121.20nm          5.3mb
                  eS     53 45.80
KNA     18.29 232 eP     50 43.00   -1.1
        0.6s   115.00nm          5.3mb
ASPA    21.13 205 iPd    51 13.90    0.2
        1.1s    85.70nm          5.0mb
                  eS     54 55.40
QLP     21.88 178 eP     51 20.00   -1.0
                  e      56 53.00
RMQ     22.33 168 eP     51 29.00    3.5X
                  i      52 04.50
WARB    26.90 215 iPc    52 09.70    1.2
        0.3s    12.00nm          4.9mb
STK     27.21 184 iPc    52 11.70    0.4
        0.8s     3.00nm          3.9mb
                  e      52 55.00
DZM     28.16 130 iPd    52 19.60   -0.4
FORR    29.91 207 iPc    52 35.60    0.2
        0.3s    17.00nm          5.2mb
BFD     32.44 182 eP     52 56.80   -0.7
COOL    33.61 216 iPc    53 08.80    1.0
        0.8s    50.00nm          5.4mb
MRWA    35.80 224 eP     53 27.40    1.0
SSE     41.42 330 Pd     54 13.70    0.7
        1.0s    25.00nm          4.9mb
                  sP     54 50.30
PSI     45.19 278 ePd    54 52.50    8.7X
                  e      56 50.00
KMI     49.44 309 Pc     55 43.00   25.9X
        1.5s    50.00nm
CHG     49.72 299 eP     55 19.40    0.3
CHTO    49.72 299 eP     55 19.80    0.8
        1.0s     4.50nm          4.3mb
                  pP     56 34.10 362kmX
                  sP     56 43.60
CN2     50.86 343 eP     55 26.30   -1.0
BJI     51.06 333 eP     55 28.00   -0.8
        0.6s     4.00nm          4.5mb
                  pP     55 54.00 109kmX
TIY     51.08 328 eP     55 27.40   -1.7
CD2     51.86 316 P      55 34.60   -0.6
HHC     53.88 330 eP     55 50.00    0.0
BTO     54.47 329 eP     55 54.20   -0.1
LZH     54.94 321 eP     56 22.50   24.6X
        2.0s    39.00nm
                  pP     56 37.00   54kmX
                  sP     56 50.00
GTA     59.50 322 Pd     56 31.00    1.1
        0.6s    10.00nm          5.1mb
                  pP     56 55.40   98kmX
WMQ     69.51 320 P      57 35.00    0.4
SVW     80.41  25 ePc    58 36.90    0.6
        0.6s     7.50nm          4.7mb
                  e      59 05.50
PMR     83.45  26 ePc    58 51.00   -0.9
        0.6s     4.60nm          4.6mb
                  e      59 19.30
TOA     84.94  26 ePc    58 59.80    0.2
SIV    148.18 130 PKP    06 08.60    0.8
KIC    148.41 275 PKP    06 12.48    4.3X
TIC    148.67 275 PKP    06 13.02    4.4X
LIC    148.70 274 PKP    06 13.20    4.6X
LKO    149.01 281 PKPc   06 13.64    4.5X
        0.4s     7.50nm
VAO    150 71 160 ePKP   06 18.50    6.9X
      S.D. = 0.9  on  31 of  41 obs.
-----------------------------------
   JUL  10, 1991  05h 16m 56.35± 0.28s
   53.089 N ± 5.4km  159.829 E ± 5.5km
   DEPTH =  23.6km  (  4 depth phases)
   5.1mb ( 54 obs.)  4.3Msz (  7 obs.)
 NEAR EAST COAST OF KAMCHATKA        (218)

KUSJ    14.18 231 eP     20 13.50   -4.2X
ASAJ    14.45 239 eP     20 23.50    2.3
YAK     18.30 311 eP     21 09.90    0.0
                  ePP    21 32.00
                  ipP    21 35.00
                  iPPP   21 51.00
                  eS     24 42.00
                  eSS    25 13.00
NIIJ    21.48 231 P      21 46.00    0.9
KAKJ    21.80 227 P      21 48.50    0.2
MAT     22.42 231 iPd    21 54.80    0.3
        1.0s   119.00nm          5.3mb
                  (S)    25 57.00
CHJJ    22.46 229 P      21 56.90    2.0
MTMJ    22.58 232 P      21 57.40    1.2
IIDJ    23.43 230 P      22 06.50    2.1
TSRJ    24.29 233 P      22 14.20    1.5
CN2     24.42 262 eP     22 12.60   -1.3
      Z  18s     1.22um          4.4Msz
      N  15s     0.40um
      E  15s     0.36um
                  epP    22 20.00   26km
TTA     24.88  49 eP     22 19.30    1.0
SVW     25.04  54 eP     22 21.20    1.4
IMA     26.15  42 eP     22 30.60    0.4
        0.7s     9.90nm          4.6mb
FBA     28.54  45 eP     22 51.50   -0.3
INK     33.97  38 eP     23 39.00   -0.5
MBC     37.11  23 ePc    24 06.20    0.1
        0.8s    12.00nm          4.8mb
GTA     42.45 276 eP     24 50.40   -0.5
        0.8s    20.00nm          4.9mb
      Z  16s     0.30um          4.3MszX
YKA     43.27  42 eP     24 56.90   -0.2
        0.8s     5.30nm          4.3mb
WMQ     46.82 289 P      25 25.00   -0.8
        0.8s    20.00nm          5.2mb
      Z  18s     0.40um          4.4Msz
                  pP     25 34.50   32km
PNT     48.10  60 eP     25 54.00   18.3X
        0.5s     3.00nm
SES     51.78  55 ePc    26 03.50   -0.4
FFC     53.14  46 eP     26 11.00   -3.0X
        0.9s    10.00nm          4.8mb
LRM     54.06  60 eP     26 20.60   -0.6
FRB     57.57  23 eP     26 44.00   -1.9
ISA     57.73  72 eP     26 58.00   10.5X
CHTO    57.75 258 eP     26 46.30   -1.3
        0.9s     6.82nm          4.7mb
                  pP     26 51.10   16km
CLC     58.13  72 eP     27 01.00   10.8X
GUN     58.74 276 P      26 53.00   -1.9
SBB     58.80  73 eP     26 55.00    0.1
GSC     58.95  72 eP     27 06.00   10.0X
KKN     59.18 276 P      26 55.80   -2.1
PKI     59.27 276 P      26 56.60   -2.0
GKN     59.41 277 P      26 57.40   -2.0
DMN     59.42 276 P      26 57.80   -1.8
KAF     59.43 337 iP     26 57.20   -1.6
        0.4s     5.60nm          5.0mb
NUR     61.22 337 eP     27 10.60   -0.5
UPP     63.38 340 iP     27 23.90   -1.5
NB2     63.50 344 P      27 24.80   -1.6
        0.7s    11.80nm          5.1mb
HFS     63.90 342 eP     27 27.30   -1.6
        0.4s    13.90nm          5.4mb
      Z  17s     0.09um          4.0MszX
                  LR     57 03.00
ALQ     65.00  65 eP     27 36.00   -0.6
        1.1s     3.80nm          4.4mb
SCH     65.76  27 eP     27 40.00   -1.0
TUL     69.87  57 eP     28 05.90   -1.0
        1.2s     9.10nm          4.8mb
EKA     71.03 350 Pc     28 13.30   -0.4
        0.5s    11.90nm          5.3mb
KRA     71.79 334 eP     28 18.20   -0.1
                  e      28 33.70   56kmX
CLL     72.30 339 iP     28 21.00   -0.3
        1.1s    31.00nm          5.3mb
BRG     72.50 338 iP     28 21.60   -0.9
        1.2s    13.00nm          4.8mb
SPC     72.50 334 eP     28 22.20   -0.6
DMU     72.81 352 eP     28 24.20   -0.1
PRU     73.19 337 eP     28 27.20    0.6
                  e      28 33.70   21km
MOX     73.22 339 iP     28 26.80    0.0
        1.2s    18.00nm          5.0mb
DCN     73.39 352 eP     28 27.50   -0.2
ENN     74.21 343 eP     28 33.00    0.6
        1.0s    42.00nm          5.4mb
GRF     74.21 339 iPc    28 33.20    0.7
        1.0s    31.00nm          5.3mb
      Z  17s     0.10um          4.2MszX
KHC     74.22 338 eP     28 33.00    0.4
        1.0s    10.70nm          4.8mb
ZST     74.24 335 eP     28 33.20    0.5
SRO     74.28 334 eP     28 33.80    0.9
ECB     74.32 352 eP     28 33.00   -0.1
MEM     74.34 343 iPc    28 33.39    0.2
ECP     74.47 351 eP     28 33.90    0.0
GBA     74.69 272 Pd     28 34.30   -1.4
        0.7s    11.20nm          5.0mb
DOU     75.08 344 iPc    28 38.00    0.5
GWF     75.61 342 P      28 40.83    0.2
WR2     76.01 205 eP     28 40.70   -2.4
        0.8s     5.20nm          4.6mb
WRA     76.01 205 P      28 41.00   -2.1
        1.2s     6.30nm          4.5mb
CDF     76.22 342 eP     28 44.10   -0.1
        0.8s    21.50nm          5.2mb
ECH     76.43 342 P      28 45.26    0.0
FEL     76.59 341 P      28 46.14   -0.1
VITF    76.65 342 P      28 46.78    0.3
HAU     76.79 342 eP     28 47.00   -0.2
        0.5s     6.55nm          4.9mb
      Z  22s     0.17um          4.3Msz
MOF     76.79 341 P      28 47.29    0.0
BSF     76.87 342 eP     28 47.50   -0.3
        0.8s    10.75nm          4.9mb
BBS     77.09 341 P      28 49.04    0.1
FLN     77.16 347 iPc    28 48.80   -0.4
        0.8s    25.50nm          5.3mb
      Z  22s     0.10um          4.1Msz
LDF     77.27 347 iPc    28 49.30   -0.6
        1.2s    29.75nm          5.2mb
OSS     77.29 339 ePd    28 51.20    1.0
LOMF    77.33 342 P      28 50.38    0.1
LLS     77.36 340 ePd    28 51.30    0.7
GRR     77.58 347 iPc    28 51.40   -0.1
        0.6s    23.45nm          5.4mb
VDL     77.62 340 ePd    28 53.10    1.0
LOR     77.94 344 iPc    28 53.60    0.0
        0.7s    18.20nm          5.2mb
      Z  22s     0.15um          4.3Msz
LPF     77.95 347 iPc    28 53.60    0.0
        0.6s    15.35nm          5.2mb
TMA     78.11 340 ePd    28 55.20    0.5
LBF     78.20 343 iPc    28 54.80   -0.2
        0.6s     4.50nm          4.7mb
SSF     78.20 344 iPc    28 55.20    0.2
        0.8s    16.10nm          5.1mb
MMK     78.35 340 ePd    28 57.20    1.1
DIX     78.43 341 ePd    28 57.70    1.1
AVF     78.49 344 iPc    28 56.70    0.1
        0.8s    32.25nm          5.4mb
SMF     78.55 343 iPc    28 57.00    0.1
        0.8s    13.45nm          5.0mb
ORX     78.75 340 P      28 59.04    0.9
SKO     78.75 330 eP     28 57.70   -0.4
BGF     78.80 344 iPc    28 58.40    0.1
        0.8s    16.10nm          5.1mb
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RSL     78.96 341 P      29 00.19   0.8
HVAR    79.07 334 iPd    28 59.20  -0.6
LSD     79.08 341 P      29 01.29   1.1
LPL     79.11 341 iPc    29 01.20   0.9
        0.8s    43.65nm          5.5mb
LPG     79.12 341 iPc    29 01.50   1.1
        0.8s    47.00nm          5.6mb
TCF     79.17 344 iPc    29 00.40   0.0
        0.6s    10.80nm          5.1mb
MAF     79.18 344 iPc    29 00.80   0.4
        0.6s    20.75nm          5.3mb
MFF     79.22 346 iPc    29 01.20   0.6
        0.6s    14.45nm          5.2mb
BOB     79.26 339 Pd     29 02.10   1.2
LSF     79.31 345 iPc    29 01.20   0.1
        0.8s    30.20nm          5.4mb
RSP     79.35 341 P      29 01.09  -0.4
SFI     79.53 337 Pd     29 03.80   1.6
MME     79.53 338 P      29 04.20   1.6
BNI     79.56 341 Pd     29 04.10   1.5
PGD     79.60 337 Pd     29 04.50   1.6
BHB     79.65 341 P      29 02.42  -0.5
RRL     79.67 341 P      29 04.37   1.0
PCP     79.67 340 P      29 02.94  -0.2
BDI     79.68 338 P      29 04.60   1.4
ASPA    79.69 204 iPc    29 03.00  -0.3
        0.7s     8.30nm          4.9mb
PZZ     80.00 341 P      29 04.17  -0.8
ROB     80.05 340 P      29 04.68  -0.5
ENR     80.21 340 P      29 04.06  -2.0
STV     80.21 340 P      29 04.37  -1.7
RJF     80.24 345 iPc    29 06.60   0.5
        0.8s    10.75nm          4.9mb
      Z  21s     0.15um          4.3Msz
IMI     80.41 340 P      29 06.93  -0.2
CAF     80.52 344 iPc    29 08.80   1.2
        0.8s    24.85nm          5.3mb
SBF     80.55 340 iPc    29 08.00   0.2
        0.5s    11.65nm          5.2mb
LFF     80.72 345 iPc    29 09.60   1.0
        0.8s    24.20nm          5.3mb
MNS     80.78 336 P      29 09.10   0.1
LPO     80.90 345 iPc    29 10.60   1.0
        0.8s    38.95nm          5.5mb
FRF     81.00 341 iPc    29 10.60   0.5
        0.6s     8.10nm          4.9mb
LRG     81.16 341 iPc    29 11.80   0.9
        0.8s    29.55nm          5.4mb
      Z  21s     0.10um          4.1Msz
LMR     81.25 341 iPc    29 12.00   0.6
        0.8s    18.80nm          5.2mb
PGF     81.48 339 iPc    29 13.00   0.2
        0.6s     7.20nm          4.9mb
MGR     82.14 333 Pd     29 16.10   0.0
EPF     82.64 345 iPc    29 19.30   0.5
        0.8s    12.10nm          5.0mb
STK     86.09 195 eP     29 36.00   0.0
        0.8s     1.40nm          4.2mb
ZOBO   127.59  64 ePKP   36 07.00   5.2X
                  LR     20 00.00
CNCB   128.11  64 PKP    36 03.00   0.3
SIV    131.06  57 PKP    36 06.40  -1.3
     S.D. = 1.0  on 126 of 133 obs.
-----------------------------------
   JUL  10, 1991  05h 34m 05.92± 0.28s
    9.071 N ± 3.5km  124.141 E ± 5.5km
   DEPTH = 515.3 ±  4.3 km
   5.0mb ( 27 obs.)
 MINDANAO, PHILIPPINE ISLANDS      (259)

CGP      0.82 138 iPc    35 09.00  -1.0
                  iS     35 16.00
MAP      1.25 353 iPc    35 10.00  -1.1
PLP      2.24  22 ePc    35 14.00  -0.2
                  eS     35 30.00
DAV      2.43 144 eP     35 17.00   1.8
PPR      5.38 278 iPc    35 44.50   6.5X
                  iS     36 25.00
PGP      5.40 325 eP     35 38.00  -0.1
                  eS     35 51.00
TSM      7.83 233 ePc    36 02.90   0.9
BAG      8.08 335 eP     36 04.00  -0.8
KKM      8.41 250 ePd    36 08.70   0.6
       0.7s   127.70nm          5.3mb
CVP      8.87 346 ePd    36 13.00   0.2
PIP      9.81 340 ePc    36 21.00  -1.6
OZH     16.65 342 Pc     37 32.30   0.0
        0.7s    60.00nm          5.3mb
OIZ     17.03 307 Pd     37 37.20   1.1
        0.7s    20.00nm          4.9mb
GZH     17.36 325 P      37 40.30   1.1
        0.9s   100.00nm          5.4mb
                  S      40 25.00
KUPT    19.10 182 eP     37 55.00  -1.2
GUMO    20.81  76 eP     38 12.40   0.2
PJG     20.81  76 eP     38 12.60   0.4
GUA     20.84  76 eP     38 12.70   0.2
        0.3s   135.06nm          6.1mb X
SSE     22.09 353 P      38 24.30   0.5
        1.5s    30.00nm          4.7mb
                  eS     43 36.00
MTN     22.85 162 iPc    38 30.00  -0.9
        0.3s    89.00nm          5.9mb
                  e      38 50.00
WHN     23.24 338 Pc     38 36.00   1.8
        0.8s    30.00nm          5.0mb
NJ2     23.39 349 Pd     38 36.00   0.4
PSI     25.86 257 ePd    39 07.30   9.5X
                  e      40 30.00
CHG     26.27 294 eP     39 02.00   0.5
CHTO    26.27 294 iP     39 02.00   0.6
        1.1s    11.48nm          4.3mb
                  pP     40 48.00
LAT     27.62 124 eP     39 14.30   1.0
TIA     27.76 348 Pc     39 14.10  -0.2
XAN     28.52 333 iPc    39 20.40  -0.6
        0.8s    50.00nm          5.1mb
CD2     28.86 322 eP     39 23.80  -0.2
        0.5s    20.00nm          4.9mb
MAT     30.19  23 (P)    39 34.00  -1.4
TIY     30.41 341 eP     39 32.20  -5.2X
WR2     30.54 161 iPd    39 37.70  -0.9
        0.6s   237.90nm          5.9mb
                  iS     43 58.90
BJI     31.65 348 eP     39 47.50  -0.2
        1.0s    32.00nm          4.8mb
NANU    32.55 195 eP     39 55.50   0.1
LZH     32.63 329 Pc     39 57.40   1.2
        1.5s    37.00nm          4.7mb
SNY     32.63 359 iPc    39 55.80  -0.1
        0.6s    20.00nm          4.9mb
QIS     33.14 153 iPc    40 00.00  -0.5
        0.5s    30.00nm          5.1mb
HHC     33.56 343 eP     40 04.60   0.7
ASPA    33.91 164 iPc    40 07.10   0.2
        0.5s   141.50nm          5.8mb
                  eS     44 52.50
CN2     34.62   2 eP     40 11.90  -0.7
WARB    35.13 176 iPc    40 17.70   0.6
        0.3s    33.00nm          5.4mb
GTA     37.23 328 iPc    40 35.40   1.0
        0.4s    20.00nm          5.0mb
MRWA    38.87 191 eP     40 47.00  -0.7
        0.3s    11.00nm          4.9mb
FORR    39.87 175 eP     40 55.50  -0.3
        0.5s   159.00nm          5.8mb
QLP     40.46 152 iPc    41 01.10   0.4
MUN     41.52 190 eP     41 08.00  -1.1
NWAO    42.28 189 iPc    41 19.30   4.2X
RMO     42.67 147 iPd    41 19.00   0.7
                  e      43 13.00
RKG     43.92 188 eP     41 27.00  -1.1
STK     44.01 158 iPc    41 29.10   0.3
        0.6s    30.30nm          5.0mb
                  eS     47 21.80
CMS     45.36 154 eP     41 40.00   0.8
ADE     45.92 163 iPc    41 44.00   0.5
        1.0s   248.00nm          5.7mb
GBA     45.96 280 Pd     41 43.60  -0.5
        0.9s    22.50nm          4.7mb
WMO     46.91 324 eP     41 50.70  -0.4
BWA     49.00 153 eP     42 08.60   1.7
BFD     49.13 161 iPc    42 05.70  -2.1
        0.7s    52.00nm          5.1mb
CAN     50.01 153 eP     42 15.00   0.6
TOO     50.52 158 iPc    42 18.70   0.6
        0.6s    25.00nm          4.8mb
DZM     51.75 127 iPd    42 28.10   0.6
KAF     85.70 332 iP     45 49.70  -0.9
        0.8s    11.40nm          4.6mb
NUR     86.82 331 eP     45 55.70  -0.2
NB2     92.89 333 P      46 22.80  -1.4
        0.8s     3.80nm          4.5mb
LKO    126.64 289 PKP    52 12.00  -0.8
        0.6s     4.00nm
     S.D. = 0.9  on  59 of  63 obs.
-----------------------------------
?  JUL  10, 1991  05h 48m 10.55± 1.11s
   15.142 N ± 9.5km  120.637 E ±28.2km
   DEPTH =  33.0km  (normal)
   4.6mb (  1 obs.)
 LUZON, PHILIPPINE ISLANDS         (249)

PGP      1.66 169 eP     48 38.00   0.3
SZP      2.40 356 eP     48 50.00   1.6
CVP      2.79  24 eP     48 53.00  -0.8
PIP      3.17 360 ePc    48 59.20   0.0
LZH     25.70 327 eP     53 38.50  -1.1
        1.8s    32.00nm          4.6mb
                  sP     53 52.50
MBC     82.16  12 ePd    00 43.20  14.2X
        1.0s   113.00nm
     S.D. = 1.5  on   5 of   6 obs.
-----------------------------------
   JUL  10, 1991  05h 52m 02.35± 0.13s
   43.300 N ± 2.9km  145.728 E ± 2.6km
   DEPTH =  97.6km  ( 36 depth phases)
   5.4mb ( 99 obs.)
 HOKKAIDO, JAPAN  REGION           (224)
      CENTROID, MOMENT TENSOR      (HRV)
      Doto Used: GDSN
      L.P.B.: 14S, 28C
      Centroid Locotion:
      Origin Time        05:52: 3.7 0.5
      Lot 43.31N 0.07 Lon 145.64E 0.06
      Dep  98.0 5.5 Holf-durotion  1.7
      Moment Tensor;   Scale 10**16 Nm
        Mrr=-4.45 0.47  Mtt= 4.67 0.85
        Mff=-0.22 0.66  Mrt= 8.78 0.51
        Mrf= 4.91 0.56  Mtf= 3.09 0.76
       Principol Axes:
        T  Vol= 12.22  Plg=31  Azm=333
        N       -1.69       2       241
        P      -10.52      59       148
      Best Double Couple:Mo=1.1*10**17
       NP1:Strike= 70 Dip=14 Slip= -81
       NP2:       241      76       -92

KUSJ     0.77 255 iPd    52 22.00   1.6
                  S      52 34.70
HOOJ     2.02 244 iP+    52 38.10   2.6
                  S      53 02.80
ASAJ     2.38 291 P      52 43.90   3.5X
SAP      3.22 267 iP     52 54.60   2.7
                  iS     53 31.50
MRRJ     3.53 257 P      52 57.20   1.1
                  S      53 36.60
AOMJ     4.84 237 P      53 14.60   0.5
                  S      54 06.70
OFUJ     5.21 217 P      53 18.10  -1.2
                  eS     54 14.20
YAMJ     6.70 222 P      53 38.90  -0.9
NIIJ     7.94 223 P      53 56.30  -0.5
KAKJ     8.28 213 P      53 58.70  -2.6
                  S      55 26.40
MAT      8.88 223 iPd    54 09.30  -0.3
        1.0s   100.00nm          5.6mb
                  eS     55 41.00
CHJJ     8.91 218 P      54 09.10  -0.9
                  S      55 43.90
MTMJ     9.05 225 P      54 11.30  -0.7
IIDJ     9.87 220 P      54 22.70  -0.4
                  S      56 11.40
TSRJ    10.81 227 iP+    54 36.20   0.7
                  S      56 33.50
MDJ     11.71 282 eP     54 47.00  -0.4
      N  10s     0.70um
      E  10s     1.10um
                  S      56 56.00
SHNJ    14.62 236 P      55 31.70   6.3X
CN2     14.72 279 Pc     55 24.80  -1.8
        0.8s    30.00nm          4.6mb
      Z  16s     2.89um          4.3MszX
      N  11s     0.88um
      E  11s     0.31um
                  eS     58 02.00
KUMJ    15.90 232 P      55 46.10   4.4X
SNY     16.38 272 Pd     55 48.00   0.4
        1.2s   100.00nm          4.9mb
      Z  14s     0.60um          4.4Msz
      N  10s     0.90um
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10d 05h

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                S      58 42.00
KAGJ   16.87 229 P      55 57.80   4.1X
DL2    18.66 265 iPc    56 15.00  -0.3
       1.0s   200.00nm          5.4mb
                S      59 36.00
YAK    21.00 339 iPc    56 34.60  -4.6X
                ipP    56 49.00  64kmX
                iPP    56 55.00
                ePPP   57 04.00
                eS     00 18.00
                iPcP   00 30.00
                eSSS   00 44.00
                eSSS   01 01.00
                iScS   07 49.00
SMY    21.07  53 ePc    56 42.00   2.0
       1.2s   733.90nm          5.9mb
BJI    22.26 272 Pc     56 51.00  -0.9
       1.6s   200.00nm          5.2mb
     Z  40s     0.92um          3.9MszX
                eS     00 48.00
                esS    01 12.00
                eSS    01 30.00
                eScS   07 58.00
SSE    22.94 246 Pd     57 00.00   1.4
       1.5s   130.00nm          5.0mb
     Z  20s     0.60um          4.0Msz
     N  15s     0.40um
     E  15s     0.60um
                S      01 04.00
TIA    23.03 262 eP     57 00.00   0.6
                S      01 00.00
NJ2    23.95 251 Pd     57 09.60   1.2
       1.0s   100.00nm          5.2mb
                pP     57 31.00  98km
HHC    25.38 276 eP     57 21.50  -0.5
       1.2s   150.00nm          5.3mb
     Z  12s     0.60um          4.3MszX
     N  10s     0.30um
                pP     57 45.40 112kmX
                PP     58 03.00
                S      01 38.00
                ScP    04 27.00
TIY    25.81 269 Pc     57 24.80  -1.2
       1.4s   110.00nm          5.2mb
     Z  30s     0.90um          4.1MszX
     N  12s     0.45um
                pP     57 49.00 113kmX
ADK    26.51  58 eP     57 34.90   2.8
BTO    26.57 277 P      57 33.00   0.1
     N  11s     0.30um
     E  11s     0.50um
                pP     57 51.00  78kmX
                sS     02 36.00
WHN    27.96 253 Pc     57 46.50   1.1
       1.0s    60.00nm          5.2mb
     N  13s     0.59um
     E  13s     0.35um
                pP     58 10.20 108kmX
                S      02 22.00
IRK    28.89 303 ePc    57 51.00  -2.6
                e      58 10.70  86kmX
                e      58 30.10
                eS     02 32.00
                e      05 43.50
XAN    29.99 265 iPc    58 03.30  -0.3
LZH    32.75 272 Pc     58 28.00   0.1
       1.6s    90.00nm          5.3mb
     Z  24s     0.53um          4.2MszX
     N  13s     0.50um
                pP     58 51.00 101km
                PP     59 40.00
                PcP    01 11.50
                S      03 35.00
                sS     04 15.00
                ScP    04 45.50
                PcS    04 55.00
                ScS    08 44.00
GZH    33.47 243 P      58 35.00   1.0
       0.9s    30.00nm          5.1mb
                eS     03 50.00
GTA    34.35 280 Pc     58 41.60   0.0
       1.0s    10.00nm          4.6mb
     Z  18s     0.60um          4.4Msz
     N  10s     0.40um
                pP     59 04.00  97km
                sP     59 13.20
                PP     00 00.00
                PcP    01 11.00
                S      03 58.00
                ScP    04 51.40
                ScS    08 53.00
ANM    34.55  35 eP     58 43.70   0.8
CD2    35.33 264 eP     58 49.40  -0.5
       0.6s    70.00nm          5.8mb
                pP     59 11.70  94km
                S      04 14.00
                ScS    08 57.00
GYA    35.81 255 iPd    58 52.80  -1.3
       1.0s    20.00nm          5.0mb
     N  16s     0.30um
     E  16s     0.50um
                pP     59 17.00 104km
                S      04 20.00
                sS     04 57.00
                ScS    08 59.00
TTA    38.43  39 ePc    59 16.80   1.1
       1.1s   135.50nm          5.8mb
SVW    38.57  42 ePc    59 15.00  -1.8
       0.9s    87.50nm          5.6mb
CGP    39.29 214 eP     59 22.00  -1.1
BRW    39.35  25 ePc    59 23.30   0.2
                e      59 46.70 100km
KMI    39.41 257 Pd     59 25.00   0.6
       1.1s    60.00nm          5.3mb
                pP     59 47.50  96km
                eS     05 18.00
IMA    39.63  34 iPc    59 26.30   0.7
       1.2s   420.20nm          6.2mb
                e      59 49.70 100km
RSO    40.00  43 ePc    59 27.00  -1.8
KDC    40.37  47 eP     59 31.90   0.4
                e      59 53.50  91km
SLKM   41.24  42 ePc    59 39.00   0.2
WMQ    41.30 291 P      59 40.00   0.5
       1.0s   100.00nm          5.6mb
     Z  16s     0.80um          4.7MszX
                pP     00 04.00 103km
                S      05 44.00
                ScS    09 33.00
PMR    41.67  41 ePc    59 42.50   0.3
       1.0s   115.00nm          5.7mb
FBA    42.07  36 iPc    59 46.00   0.6
TOA    43.02  40 iPc    59 55.00   1.7
BALM   44.99  41 iPc    00 09.00  -0.3
LSA    45.17 271 P      00 12.80   1.3
TSM    46.01 220 eP     00 18.00   0.4
CHG    46.16 253 ePd    00 19.50   0.6
       0.9s    22.27nm          5.0mb
                e      00 24.30  16kmX
                e      00 38.60
CHTO   46.16 253 iP     00 19.00   0.2
       0.8s    18.12nm          5.0mb
                pP     00 43.00 102km
SHL    46.97 266 iP     00 23.50  -1.9
                eS     07 23.00
BDT    47.19 252 eP     00 24.20  -2.7
INK    47.31  30 eP     00 27.00  -0.3
KHT    49.18 250 eP     00 43.60   1.3
SIT    49.55  45 eP     00 44.80   0.1
LAT    49.73 178 eP     00 48.20   1.7
KSH    51.08 291 eP     00 55.00  -1.8
KBS    55.06 350 eP     01 23.30  -2.3
IPM    55.15 239 ePd    01 27.60   0.7
       0.9s    37.70nm          5.4mb
KGM    55.76 235 ePc    01 32.20   0.9
NDI    55.86 279 iPc    01 31.50  -0.4
YKA    56.75  33 eP     01 37.50  -0.3
       0.7s    79.10nm          5.9mb
MTN    57.45 197 iPd    01 42.40  -0.7
PSI    57.92 239 ePc    01 55.60   9.0X
                e      04 48.00
SOD    60.48 337 iP     02 02.20  -1.4
TRO    60.86 341 eP     02 04.40  -1.7
PNT    61.45  48 eP     02 10.00  -0.5
       1.0s    75.00nm          5.7mb
HYB    61.73 268 eP     02 12.00  -0.7
                e      02 35.00  91km
NEW    63.41  48 iPd    02 23.00  -0.5
       1.0s    40.00nm          5.3mb
FHC    63.77  58 iPd    02 26.83   0.9
                ipP    02 35.42  28kmX
QIS    63.79 186 eP     02 24.00  -2.0
                i      02 54.90 127kmX
WRA    63.79 192 P      02 24.00  -2.1
       0.6s    30.20nm          5.4mb
WR2    63.80 192 iPc    02 24.90  -1.2
       0.7s    27.10nm          5.3mb
                i      02 58.20 138kmX
MAIO   63.80 296 eP     02 24.00  -2.3
       1.0s    18.50nm          5.0mb
                i      02 50.00 104km
FOX    63.92  58 iPd    02 28.15   1.3
KAF    64.25 333 iP     02 27.50  -1.1
       0.5s   146.40nm          6.2mb
WDC    64.79  57 eP     02 32.79   0.3
                ePcP   02 57.30
GBA    65.02 265 Pd     02 33.20  -1.0
       0.7s    30.00nm          5.3mb
OBN    65.06 323 iPc+   02 33.00  -0.9
       1.1s   250.00nm          6.1mb
     Z  16s     0.50um          4.8MszX
     E  16s     0.40um
                epP    02 58.00  99km
                esP    03 12.00
                ePPP   06 43.00
                eS     11 06.00
                eScS   12 16.00
SES    65.28  43 ePd    02 35.00  -0.6
       0.9s    49.00nm          5.4mb
MIN    65.50  57 iPd    02 36.83  -0.4
                ipP    02 44.29  24kmX
                ePcP   03 02.40
NUR    65.96 332 iP     02 38.60  -1.0
ORV    66.04  58 iPd    02 40.16  -0.3
                ipP    03 03.03  89km
                ePcP   03 04.80
NSS    66.56 340 iPc    02 42.28  -1.1
BRK    66.58  60 eP     02 43.90   0.0
BKS    66.59  60 iPc    02 43.90  -0.2
       0.9s    44.00nm          5.4mb
                ipP    02 56.00  41kmX
                i      03 09.10
FFC    66.67  36 iPd    02 43.80  -0.5
       0.6s    13.00nm          5.0mb
GCC    67.26  60 iPd    02 47.58  -0.7
MHC    67.29  60 eP     02 48.40  -0.3
LRM    67.42  48 ePd    02 49.40  -0.1
ASPA   67.52 192 iPd    02 49.80  -0.1
       0.8s    40.70nm          5.4mb
CMB    67.65  58 iPd    02 51.09   0.3
                ipP    02 58.53  24kmX
                ePcP   03 16.00
DZM    67.78 159 iPc    02 53.30   1.7
PRS    68.08  60 iP     02 53.68   0.2
                ipP    03 02.33  28kmX
                ePcP   03 19.10
PRI    68.65  60 ePd    02 57.64   0.5
FRI    68.72  59 iPd    02 57.16  -0.2
UPP..  68.74 335 iPc    02 56.00  -1.0
MOL    69.29 341 iPc    02 59.86  -0.5
RMQ    69.50 177 iPd    03 03.30   1.3
                i      03 39.00 147kmX
TNP    69.57  57 iPd    03 02.50  -0.3
       0.9s    22.46nm          5.0mb
                PcP    03 12.00
NB2    69.64 338 P      03 01.80  -0.9
       0.7s   182.80nm          6.0mb
HFS    69.70 337 eP     03 02.10  -0.8
       0.5s   319.00nm          6.4mb X
     Z  15s     0.14um          4.3MszX
                LR     35 12.00
IR7    69.88 300 iPc    03 05.00   0.4
FRB    69.89  15 ePc    03 02.80  -1.2
       0.8s   184.00nm          6.0mb
IR4    69.99 300 iPc    03 05.50   0.2
IR1    70.01 300 iPc    03 06.00   0.6
IR5    70.21 300 eP     03 04.00  -2.6
ISA    70.33  59 eP     03 06.00  -1.3
AKU    70.63 353 iPc    03 09.50   1.1
       1.2s   143.75nm          5.7mb
CLC    70.78  59 iPd    03 09.00  -1.0
HYA    70.83 341 iPc    03 09.41  -0.3
BW06   70.98  49 iPd    03 11.00  -0.3
       1.0s    27.50nm          5.0mb
NANU   71.18 209 eP     03 12.50   0.2
       0.4s    18.00nm          5.3mb
KONO   71.25 338 iP     03 11.90  -0.4
SUE    71.26 341 iPc    03 11.85  -0.5
WARB   71.33 198 iPd    03 14.20   1.0
       0.5s    26.00nm          5.3mb
SBB    71.36  60 eP     03 13.00  -0.5
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PAS	71.49	60	eP	03 14.00	-0.2
MWC	71.51	60	eP	03 14.00	-0.6
GSC	71.61	59	eP	03 14.00	-1.0
ASK	71.66	341	iPc	03 14.83	0.1
BER	71.72	341	iPc	03 15.05	0.0
EGD	71.84	341	iP	03 15.82	0.0
RVR	72.09	60	eP	03 17.00	-0.8
PEC	72.30	60	e(P)	03 17.00	-2.0
	0.6s	5.51nm			4.6mb
REY	72.46	354	eP	03 20.70	1.3
KMY	72.76	340	iPd	03 21.44	0.2
PLM	72.83	60	eP	03 23.00	0.6
TPC	72.86	59	eP	03 21.00	-1.3
RSSD	73.01	45	iPd	03 23.00	-0.3
	1.0s	48.81nm			5.3mb
BAR	73.39	61	eP	03 25.00	-0.4
GLA	74.32	59	eP	03 30.00	-0.8
STK	74.91	184	iPd	03 34.40	0.5
	0.8s	5.00nm			4.4mb
GOL	75.39	49	ePd	03 37.00	-0.1
	1.0s	47.50nm			5.3mb
GLD	75.43	49	ePc	03 38.50	1.2
FORR	75.54	196	eP	03 38.00	0.5
KRA	75.68	327	iPc	03 38.20	0.0
	0.6s	226.00nm			6.2mb
			i	03 40.20	6kmX
			i	04 03.70	
BRN	76.23	332	eP	03 42.00	0.8
			id	04 08.00	100km
SPC	76.25	327	iP	03 42.70	1.0
KSP	76.44	330	iP	03 42.70	0.2
			i	04 07.70	96km
MLR	76.67	321	ePd	03 44.00	0.0
PSN	76.98	319	iPd	03 46.00	0.4
MRWA	77.15	206	eP	03 46.40	-0.2
CLL	77.23	332	iPc	03 46.50	-0.3
	1.3s	125.00nm			5.6mb
			ipP	04 12.10	98km
			i	04 29.00	
CMP	77.25	321	ePd	03 48.00	0.9
BRG	77.26	331	iP	03 39.20	-7.8X
			i	03 46.60	
			ipP	04 12.60	133kmX
BWA	77.39	178	eP	03 49.50	1.7
PSZ	77.40	326	iP	03 48.30	0.4
PRU	77.78	330	Pc	03 50.00	0.1
	1.0s	44.20nm			5.3mb
			pP	04 15.70	99km
			sP	04 26.70	
			PP	06 23.00	
			eS	13 30.00	
ANMO	78.10	53	ePd	03 53.00	0.8
	1.0s	11.25nm			4.7mb
ALQ	78.10	53	eP	03 52.00	-0.2
	1.4s	25.00nm			4.9mb
SRO	78.12	327	iP	03 53.20	1.4
			i	04 18.60	97km
BAL	78.22	205	iPd	03 43.00	-9.4X
	0.7s	46.00nm			5.4mb
EKA	78.25	342	Pc	03 52.60	0.2
	0.5s	47.70nm			5.6mb
MOX	78.26	332	iPc	03 52.70	0.2
	1.5s	67.00nm			5.3mb
ZST	78.29	328	iP	03 53.10	0.4
			i	04 19.00	99km
			e	06 28.20	
CAN	78.30	177	eP	03 56.80	4.0X
EYL	78.31	315	eP	03 54.00	0.9
HRT	78.37	316	eP	03 53.00	-0.4
SCH	78.41	19	eP	03 53.00	-0.3
			pP	04 19.00	100km
HOF	78.45	332	eP	03 53.60	0.0
ISK	78.50	316	eP	03 46.00	-8.0X
VKA	78.54	328	eP	03 54.00	-0.1
	1.5s	112.00nm			5.5mb
			i	03 57.60	12kmX
DMK	78.58	318	eP	03 53.00	-1.4
WTS	78.65	336	iPc	03 54.90	0.3
	0.9s	163.00nm			5.9mb
			ic	04 20.10	96km
PVL	78.68	320	iPc	03 57.00	2.1
KHC	78.85	330	iPc	03 56.20	0.4
	1.2s	62.50nm			5.3mb
			e	04 02.50	
			pP	04 21.00	95km
			sP	04 36.00	
WET	79.08	331	iPc	03 57.70	0.6
	1.0s	100.00nm			5.6mb
			i	04 23.20	98km
GRF	79.21	332	iPc	03 58.30	0.6
	0.8s	79.00nm			5.6mb
Z	19s	0.20um			4.5Msz
			e	04 23.60	97km
			eS	13 51.80	
BNT	79.60	317	iP	04 01.00	1.0
BEO	79.63	324	eP	04 01.50	1.5
TNS	79.68	334	eP	04 00.20	-0.1
KGT	79.84	317	eP	04 01.50	0.3
KDZ	79.85	319	iP	04 02.00	0.7
ENN	79.99	335	iPc	04 01.40	-0.4
	1.0s	180.00nm			5.9mb
			ic	04 27.20	99km
MEM	80.11	335	iPc	04 02.63	0.2
			i	04 27.92	96km
RZN	80.15	319	iPc	04 04.00	0.9
VTS	80.16	321	iPc	04 04.00	0.9
NWAO	80.22	204	iPd	04 03.90	0.8
BHG	80.28	330	iPc	04 04.20	0.7
			i	04 30.30	100km
DMU	80.38	344	eP	04 04.80	0.9
	1.2s	187.00nm			5.8mb
UCC	80.43	336	P	04 05.10	0.9
FUR	80.48	331	eP	04 05.70	1.2
			i	04 30.80	95km
TOO	80.49	180	iPc	04 06.00	1.5
HRI	80.56	307	eP	04 06.00	0.7
PTJ	80.62	327	iPc	04 05.10	-0.3
KBA	80.65	329	iPc	04 02.70	-2.9
	0.9s	123.00nm			5.7mb
			i	04 05.90	
			i	04 10.00	
			ipP	04 32.40	116kmX
ZAG	80.68	327	iP	04 05.00	-0.5
MMB	80.70	320	iPc	04 07.00	1.2
EZN	80.80	317	eP	04 06.80	0.5
DCN	80.98	344	eP	04 07.40	0.4
DOU	80.99	336	P	04 07.00	-0.1
			e	04 32.30	96km
WATA	81.08	330	iPc	04 08.00	0.2
	1.0s	124.00nm			5.7mb
			i	04 10.90	
			ipP	04 33.90	99km
WTTA	81.12	330	iPc	04 06.80	-1.3
	0.4s	18.00nm			5.3mb
			i	04 08.60	
			i	04 11.20	
			ipP	04 30.90	91km
			i	04 34.00	
			iPP	07 02.70	
FVI	81.27	329	Pd	04 08.50	-0.1
SQTA	81.31	331	iPc	04 09.40	0.4
			ipP	04 35.20	98km
VAY	81.45	320	iP	04 10.50	0.9
	1.3s	190.00nm			5.8mb
			i	04 19.60	29kmX
			i	04 36.40	
SKO	81.45	321	iP	04 10.90	1.2
	1.0s	131.00nm			5.7mb
			i	04 36.60	98km
CDF	81.63	333	iPc	04 10.60	0.0
	1.0s	34.00nm			5.1mb
TRI	81.64	328	eP	04 09.50	-1.0
OGA	81.68	330	eP	04 11.50	0.5
RIY	81.70	328	eP	04 11.60	0.7
ZNT	81.71	307	eP	04 12.00	0.8
ECB	81.80	343	eP	04 12.00	0.7
RKG	81.81	204	eP	04 12.10	0.7
ECP	81.88	343	eP	04 12.10	0.4
ZLA	82.07	332	ePd	04 13.20	0.3
PHP	82.13	322	iPc	04 13.00	-0.2
OSS	82.15	331	ePd	04 13.90	0.5
HAU	82.29	334	iPc	04 13.80	-0.2
	1.0s	16.00nm			4.8mb
Z	22s	0.13um			4.2Msz
SDA	82.29	323	eP	04 14.00	0.0
BSF	82.30	333	iPc	04 13.80	-0.3
	1.0s	24.00nm			5.0mb
LLS	82.39	332	ePd	04 15.00	0.2
VDL	82.56	331	ePd	04 16.00	0.4
HVAR	82.66	325	ePc	04 15.10	-0.8
TIR	82.66	322	eP	04 16.00	0.0
MEO	82.67	48	iPd	04 16.70	0.5
VAL	82.88	345	eP	04 14.00	-2.9
MDI	83.08	331	P	04 23.18	5.2X
MDI	83.08	331	P	04 16.60	-1.4
TMA	83.09	331	ePd	04 18.20	-0.2
TUL	83.31	46	iP	04 20.00	0.6
	1.0s	16.00nm			4.9mb
MMK	83.46	332	ePd	04 20.80	0.5
MBH	83.59	305	eP	04 22.00	1.0
DIX	83.62	332	ePd	04 21.70	0.5
FLN	83.63	338	iPc	04 20.80	0.0
	0.8s	32.25nm			5.3mb
Z	22s	0.10um			4.1Msz
LDF	83.69	338	iPc	04 21.20	0.1
	1.2s	35.70nm			5.2mb
LOR	83.73	335	iPc	04 21.20	-0.1
	0.8s	25.50nm			5.2mb
Z	22s	0.17um			4.4Msz
ARV	83.81	328	P	04 22.30	0.5
ORX	83.82	332	P	04 21.41	-0.5
SFI	83.87	328	P	04 23.00	0.9
LBF	83.94	335	iPc	04 22.30	-0.2
	1.1s	29.30nm			5.1mb
PGD	83.96	328	P	04 23.80	1.0
SSF	84.02	335	iPc	04 22.80	0.0
	0.9s	21.30nm			5.1mb
BOB	84.05	330	P	04 23.40	0.3
GRR	84.08	338	iPc	04 23.40	0.4
	0.8s	55.05nm			5.5mb
MME	84.08	329	P	04 24.50	1.1
CRE	84.08	328	P	04 23.80	0.5
BRT	84.22	323	P	04 24.00	0.1
BDI	84.23	329	P	04 24.27	0.3
	1.0s	239.70nm			6.1mb
LSD	84.25	332	P	04 24.89	0.6
ASS	84.28	327	P	04 24.40	0.2
SMF	84.29	335	iPc	04 24.20	0.0
	0.8s	40.95nm			5.4mb
AVF	84.31	335	iPc	04 24.40	0.2
	0.8s	28.20nm			5.3mb
LPL	84.34	332	iPc	04 25.20	0.5
	0.8s	23.50nm			5.2mb
LPG	84.35	332	iPc	04 25.20	0.3
	0.8s	30.90nm			5.3mb
FVM	84.40	41	ePc	04 24.50	-0.4
LPF	84.45	338	iPc	04 25.50	0.6
	1.4s	113.25nm			5.6mb
RSP	84.48	332	P	04 25.81	0.5
PCP	84.56	331	P	04 24.99	-0.6
AQU	84.59	327	P	04 26.30	0.5
DUI	84.74	326	P	04 26.80	0.2
BHB	84.75	332	P	04 24.89	-1.6
CKI	84.76	331	P	04 26.10	-0.4
BNI	84.77	332	Pd	04 27.60	0.8
RRL	84.85	332	P	04 27.46	0.2
MNS	84.85	327	P	04 26.50	-0.6
SDI	84.97	326	P	04 27.40	-0.3
ROB	85.02	331	P	04 26.84	-1.1
MAF	85.06	335	iPc	04 28.80	0.8
PZZ	85.10	332	P	04 26.64	-1.8
TCF	85.11	336	iPc	04 28.90	0.6
	1.0s	15.00nm			4.9mb
ORI	85.22	323	P	04 30.29	1.4
RFI	85.24	326	P	04 29.89	1.0
ENR	85.24	331	P	04 26.53	-2.5
SGO	85.30	324	Pd	04 29.40	0.1
IMI	85.35	331	P	04 28.79	-0.8
LSF	85.35	336	iPc	04 30.00	0.5
	1.2s	80.35nm			5.6mb
MAO	85.42	328	P	04 29.50	-0.4
MFF	85.51	337	iPc	04 31.00	0.7
	1.2s	62.50nm			5.5mb
CSI	85.52	323	P	04 30.50	0.0
MGR	85.54	324	P	04 29.80	-0.7
SBF	85.55	331	iPc	04 30.10	-0.5
	1.0s	36.00nm			5.3mb
MMN	85.56	324	P	04 26.60	-4.0X
ROI	85.57	323	P	04 32.40	1.7
TDS	85.60	323	Pd	04 31.70	0.9
CZI	86.05	323	P	04 32.00	-1.0
FRF	86.09	331	iPc	04 33.10	-0.1
	1.1s	22.00nm			5.1mb
PGF	86.12	329	iPc	04 33.10	-0.4
	1.0s	16.00nm			5.0mb
RJF	86.20	336	iPc	04 34.20	0.5
	1.2s	41.65nm			5.3mb
Z	22s	0.15um			4.3Msz
GRI	86.26	323	P	04 34.52	0.4
LRG	86.28	332	iPc	04 34.40	0.3
	1.1s	48.85nm			5.5mb

10d 06h

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      Z  22s      0.15um          4.3Msz
CDR    86.29 332 ePc    04 33.90  -0.3
                  e     05 00.20  99km
LMR    86.34 331 iPc    04 34.40   0.0
       1.1s     48.85nm          5.5mb
CAF    86.38 335 iPc    04 35.80   1.2
       1.2s     68.45nm          5.6mb
LFF    86.77 336 eP     04 37.30   0.8
       0.8s     40.30nm          5.5mb
LPO    86.87 336 eP     04 37.80   0.8
       0.7s     26.45nm          5.4mb
SOI    87.03 323 P      04 37.70  -0.1
MNG    87.75 158 eP     04 41.90   1.0
EPF    88.62 335 eP     04 45.70   0.2
       1.2s     11.90nm          4.9mb
BLA    89.56  35 e(P)   04 50.00   0.0
       1.2s     37.88nm          5.4mb
LKO   121.28 326 PKP    10 44.52  -1.2
ZOBO  140.59  57 ePKP   11 17.00  -5.9X
      Z  24s      0.08um          4.4MszX
                  LR    58 40.00
LPB   140.80  58 PKP    11 24.00   0.9
                  e     14 50.00
CNCB  141.09  58 PKP    11 19.00  -4.8X
                  i     14 52.00
CCH   142.65  56 PKP    11 23.50  -2.7X
NVL   144.34 204 (PKP)c11 25.50  -1.6
                  e     11 34.00
                  e     11 55.00
ANT   144.45  68 iPKPd  11 28.40  -0.3
SIV   144.47  48 iPKPd  11 27.20  -1.8
SOB1  145.55  12 ePKP   11 30.00  -0.9
                  e     11 38.70
                  i     11 57.50
PEL   149.86  83 iPKPd  11 42.50   5.2X
       0.9s     20.17nm
CYA   150.67  70 ePKP   11 44.70   6.1X
MDZ   151.05  81 i(PKP)11 45.60   6.5X
      S.D. = 1.0  on 294 of 312 obs.
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   JUL  10, 1991  05h 55m 08.10± 0.29s
   39.832 N ± 3.2km   23.349 E ± 2.4km
   DEPTH =  10.0km  (geophysicist)
   4.3mb (  3 obs.)
 AEGEAN SEA                        (365)
      ML 3.9 (TTG), 3.7 (ATH). MD 4.0
      (THE).

PAIG    0.27  69 ePc    55 14.96   1.1
OUR     0.70  44 iPc    55 22.60   0.7
LIT     0.71 292 iPd    55 23.16   1.0
THE     0.85 340 iPd    55 25.00   0.5
                 eS     55 36.60
SOH     0.99   0 iPc    55 27.14   0.3
AGG     1.13 225 ePc    55 30.28   1.0
SRS     1.30   8 iPd    55 32.60   0.5
                 eS     55 49.16
KZN     1.30 292 iPbd   55 32.80   0.6
GRG     1.34 328 iPd    55 32.84   0.1
                 eS     55 51.28
VAY     1.60 338 iPn    55 36.50   0.0
                 i      55 58.00
                 iSn    56 01.40
MMB     1.78   9 iPd    55 39.00  -0.1
                 iS     56 06.00
FNA     1.78 303 ePd    55 39.64   0.4
ATH     1.88 171 ePn    55 41.00   0.5
KKB     2.04 354 iP     55 44.00   1.1
                 iSg    56 07.00
RDO     2.12  51 ePn    55 43.10  -1.0
RZN     2.12  29 iP     55 45.00   0.7
LSK     2.14 279 ePn    55 45.70   1.3
EZN     2.29  89 ePn    55 46.80   0.3
PRK     2.33 104 ePn    55 48.00   0.9
IGT     2.35 264 ePd    55 51.12   3.8X
KDZ     2.40  40 iPd    55 47.00  -1.1
                 iS     56 20.00
SKO     2.58 327 iPnd   55 50.80   0.2
       0.5s    205.00nm
                 iPb    55 54.30
                 i      55 58.00
                 iSn    56 23.00
                 iSg    56 30.00
TPE     2.60 281 ePn    55 55.50   4.6X
TIR     3.05 301 ePn    56 00.50   3.2X
KGT     3.09  77 ePn    55 57.00  -0.8
VLI     3.13 186 ePn    55 58.90   0.6
LACI    3.30 304 ePn    56 02.30   1.5
IZM     3.36 114 ePn    56 06.30   4.5X
BNT     3.54  80 ePn    56 04.50   0.2
SDA     3.64 308 ePn    56 08.60   2.9X
PVY     3.76 318 iPnd   56 08.30   0.9
                 iSn    56 52.24
ULC     3.77 306 iPnd   56 08.04   0.5
                 iSn    56 52.65
DMK     3.89  58 ePn    56 06.00  -3.2X
IVA     4.00 321 iPnd   56 11.54   0.8
                 iSn    56 57.87
TTG     4.03 311 iPnd   56 12.40   1.2
                 iSn    56 58.77
DST     4.08  91 ePn    56 12.00   0.1
LCI     4.17 279 Pc     56 11.20  -1.9
BDV     4.20 307 iPnd   56 13.94   0.3
                 iSn    57 02.97
CIN     4.32 120 eP     56 20.00   4.6X
NKY     4.43 314 iPnd   56 17.87   0.9
                 iSn    57 08.57
HCY     4.50 307 iPnd   56 17.35  -0.5
                 iSn    57 10.47
PLE     4.58 321 iPnd   56 19.62   0.5
                 iSn    57 12.22
YER     4.72 123 eP     56 20.00  -1.0
BRY     4.74 312 iPnd   56 21.59   0.1
                 iSn    57 16.30
BRT     4.81 285 Pc     56 21.80  -0.5
HRT     4.93  76 ePn    56 48.00  24.0X
BUC1    4.93  23 eP     57 00.00  36.1X
BUC     5.01  23 P      56 35.00   9.9X
ORI     5.31 275 P      56 28.50  -0.9
TDS     5.41 270 P      56 31.40   0.7
BEO     5.43 338 ePn    56 49.50  18.5X
                 eSn    58 08.00
CMP     5.57  12 ePc    56 34.00   0.9
CZI     5.61 266 P      56 34.60   1.0
MMN     5.66 273 P      56 30.20  -4.1X
SOI     5.95 255 P      56 38.50   0.2
MLR     5.97  18 ePd    56 37.00  -1.7
MGR     5.99 275 Pd     56 39.20   0.2
HVAR    6.16 305 ePn    56 39.70  -1.7
SGO     6.20 279 Pd     56 41.40  -0.4
ATN     6.37 257 P      56 42.80  -1.5
CFR     6.42  32 eP     57 00.00  15.1X
DUI     6.99 288 Pd     56 53.10  -0.1
SDI     7.47 288 P      56 58.90  -1.0
BMR     7.84   1 eP     57 01.00  -3.8X
PTJ     8.14 321 eP     57 07.10  -2.0
KHC    11.61 326 eP     57 55.50  -1.3
                 e      58 01.00
HFS    21.21 347 eP     59 55.30  -0.6
       0.5s     4.50nm          4.1mb
NB2    22.52 345 P      00 07.50  -1.6
       0.6s     5.00nm          4.2mb
EKA    23.46 320 P      00 17.00  -1.3
       2.2s    66.10nm          4.8mb
LKO    39.67 228 P      02 41.04  -1.0
      S.D. = 0.9  on  56 of  70 obs.
-----------------------------------
*  JUL  10, 1991  06h 11m 32.64± 2.81s
   44.227 N ±11.0km  129.396 W ±20.8km
   DEPTH =  10.0km  (geophysicist)
   4.2mb (  1 obs.)
 OFF COAST OF OREGON               ( 30)

KMOR    4.42  69 P      12 40.85  -0.6
DBO     4.60 102 P      12 42.90  -1.0
NLO     4.60  64 P      12 44.24   0.4
BMW     4.89  61 P      12 47.08  -1.0
OOW     5.05  44 P      12 50.20   0.0
                 S      13 48.59
RVW     5.08  65 P      12 50.66   0.0
PGO     5.09  73 P      12 51.55   0.8
OFK     5.11  41 P      12 51.55   0.5
HBO     5.12  92 P      12 52.63   1.3
GT2     5.16  77 P      12 52.04   0.2
CPW     5.18  56 P      12 51.27  -0.8
OTR     5.21  41 P      12 53.22   0.7
SMW     5.24  52 P      12 52.63  -0.4
LVP     5.27  67 P      12 54.26   0.8
CZM     5.34  63 P      12 53.71  -0.6
OSD     5.35  46 P      12 54.54  -0.1
                 S      13 54.65
FL2     5.35  66 P      12 54.85   0.2
VLMM    5.39  73 P      12 55.33   0.2
MTMW    5.39  68 P      12 55.40   0.2
ERK     5.40  65 P      12 54.81  -0.4
STD     5.45  66 P      12 55.93  -0.1
HSR     5.46  67 P      12 56.69   0.5
REMW    5.46  66 P      12 56.75   0.5
TDL     5.49  65 P      12 56.51  -0.1
SOSW    5.51  66 P      12 56.73  -0.1
TDH     5.52  76 P      12 56.99   0.0
                 S      13 55.99
CDFW    5.53  67 P      12 57.37   0.3
KOSW    5.55  64 P      12 57.51   0.2
LMW     5.56  61 P      12 57.36  -0.2
MEW     5.58  55 P      12 57.62  -0.1
STW     5.58  43 P      12 57.90   0.1
                 S      14 01.99
GMW     5.68  52 P      12 58.49  -0.7
VFP     5.75  76 P      13 00.46   0.2
GULW    5.78  70 P      13 01.51   0.9
ASR     5.84  68 P      13 01.83   0.4
                 S      14 09.51
BLN     5.85  47 P      13 02.10   0.6
LON     5.90  62 P      13 02.03  -0.2
GLK     5.96  64 P      13 03.50   0.4
WPW     6.05  63 P      13 04.31  -0.1
FMW     6.06  61 P      13 04.32  -0.3
RMW     6.21  56 P      13 05.88  -0.7
VIPM    6.30  84 P      13 07.45  -0.6
NAC     6.53  64 P      13 11.38   0.3
CRF     7.49  66 P      13 24.54   0.0
PNT     8.42  49 eP     13 37.00  -0.6
       0.4s    10.00nm          5.4mb X
LRM    12.10  76 eP     14 27.00  -1.2
FFC    20.55  50 eP     16 14.00   0.3
       1.0s    11.00nm          4.2mb
      S.D. = 0.6  on  47 of  47 obs.
-----------------------------------
   JUL  10, 1991  06h 53m 05.10± 0.38s
   0.687 S ± 5.1km  119.946 E ± 7.1km
   DEPTH =  48.5km  (  2 depth phoses)
   5.0mb ( 17 obs.)  4.4Msz (  4 obs.)
 MINAHASSA PENINSULA               (265)
      Minor domage (V) at Palu,
      Sulawesi.

BKB2    3.10 259 iPc    53 42.50 -10.2X
KKM     7.65 331 ePd    54 57.00   0.1
DAV     9.55  36 eP     55 21.50  -1.4
TRT    10.08 226 ePc    55 29.00  -1.2
CGP    10.24  27 eP     55 31.00  -1.4
       1.0s    22.00nm          5.3mb
PPR    10.46 353 ePd    55 38.00   2.6
IPM    19.61 286 ePc    57 31.20  -1.4
       1.0s    61.60nm          4.9mb
PSI    21.28 279 ePc    58 01.50  11.7X
                 e      01 00.00
QIZ    21.96 334 Pd     57 56.00  -0.6
       1.0s    50.00nm          4.9mb
WR2    23.78 144 iPd    58 14.90   0.5
       0.8s    46.20nm          5.0mb
                 e      03 52.50
GZH    24.49 345 P      58 21.60   0.5
       1.0s    50.00nm          5.0mb
QZH    25.51 357 eP     58 30.60  -0.2
KHT    26.13 307 eP     58 37.00   0.4
WARB   26.16 166 eP     58 37.00   0.2
ASPA   26.55 150 eP     58 41.60   1.1
       0.8s    15.00nm          4.6mb
      Z  22s     0.80um          4.2MszX
BDT    27.26 312 eP     58 43.60  -3.4X
QIS    27.55 137 eP     58 49.00  -0.7
CHG    28.31 314 eP     58 56.00  -0.5
CHTO   28.31 314 iP     58 56.70   0.2
       0.8s     8.05nm          4.4mb
GYA    29.87 336 iPd    59 09.00  -1.6
       1.0s    20.00nm          4.8mb
      N  18s     0.20um
      E  18s     0.60um
KMI    30.59 328 Pd     59 17.50   0.5
       1.2s    40.00nm          5.0mb
WHN    31.51 351 eP     59 26.50   1.7
SSE    31.63   2 Pc     59 26.50   0.7
       1.0s    27.00nm          5.0mb
NJ2    32.58 358 Pd     59 35.00   1.0
CD2    34.99 335 eP     59 54.20  -0.8
       0.8s    70.00nm          5.6mb
XAN    36.06 344 P      00 03.50  -0.6
TIA    36.80 356 Pd     00 10.50   0.3
STK    37.16 149 eP     00 14.10   0.9
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```
        0.7s      4.90nm          4.5mb
SHL     37.64 316 iP     00 17.50  -0.1
TIY     38.84 350 Pd     00 26.50  -0.8
      Z  20s      0.50um          4.3Msz
DL2     39.43   2 eP     00 32.00  -0.1
LZH     39.54 339 P      00 34.00   0.7
        1.3s     34.00nm          5.0mb
      Z  20s      0.44um          4.3Msz
      E  12s      0.26um
                   pP     00 45.00  39km
BJI     40.68 356 eP     00 43.00   0.6
        1.0s     47.00nm          5.2mb
                   S      06 54.00
LSA     40.84 320 Pc     00 46.00   1.5
HHC     42.04 350 eP     00 54.00   0.3
SNY     42.45   4 Pc     00 55.60  -1.3
        1.0s     50.00nm          5.2mb
GTA     43.96 337 iPd    01 10.40   1.0
        0.8s     30.00nm          5.1mb
      Z  20s      0.50um          4.4Msz
                   pP     01 25.40  58km
HYB     44.55 296 eP     01 14.50   0.1
CN2     44.56   6 eP     01 12.00  -2.1
      Z  18s      0.58um          4.5Msz
DZM     49.99 119 iPc    01 51.50  -5.5X
WMO     52.85 331 P      02 18.50   0.2
        0.8s     30.00nm          5.4mb
MAIO    66.96 310 eP     03 55.00  -0.3
      S.D. = 1.0  on  38 of  42 obs.
-----------------------------------------
&  JUL  10, 1991  07h 22m 33.40s
   37.842 N          122.022 W
   DEPTH =   4.0km
 CENTRAL CALIFORNIA                  ( 39)
      <BRK>. ML 2.4 (BRK).
      Mo=1.9*10**13 Nm (BRK). Felt at
      Alamo, Danville and Morago.

BKS     0.17 282 iPc     22 37.00   0.1
                 iS      22 40.20
BRK     0.19 280 iPc     22 37.25   0.0
                 iS      22 40.60
ZSP     0.21 299 iPc     22 37.96   0.3
PCC     0.44 220 iPd     22 42.01  -0.3
                 iS      22 48.85
MHC     0.58 149 ePc     22 44.60  -0.5
                 i       22 48.00
ARN     0.63 142 eP      22 45.30  -0.6
GCC     0.81 179 iPc     22 48.70  -0.9
                 iS      23 00.06
NWRM    0.92 312 eP      22 49.50  -2.0
SAO     1.17 157 iP      22 54.02  -1.8
CMB     1.31  81 eP      22 56.28  -1.9
                 eS      23 12.99
PRI     2.02 147 eP      23 17.77   9.1
      11 obs. associated
-----------------------------------------
   JUL  10, 1991  07h 40m 41.27± 0.48s
   44.484 N ± 3.9km    7.232 E ± 4.9km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                      (545)
      ML 2.3 (GEN).

DOI     0.02  26 Pc      40 43.20  -0.1
                 eSg     40 44.20
PZZ     0.10 283 P       40 44.08   0.0
                 S       40 45.72
STV     0.25 164 P       40 46.54  -0.1
                 S       40 49.62
ENR     0.29 152 P       40 47.23  -0.2
                 S       40 51.02
BHB     0.36   4 P       40 48.77   0.1
                 S       40 53.48
ROB     0.50 112 P       40 51.46   0.1
                 S       40 58.23
RRL     0.54 324 P       40 52.90   0.6
                 S       41 00.56
RSP     0.67   2 P       40 53.69  -0.9
IMI     0.74 140 P       40 55.67  -0.2
                 S       41 05.61
CKI     0.75  94 P       40 56.40   0.4
                 eSg     41 06.90
PCP     0.94  86 P       40 59.46   0.2
                 S       41 11.94
      S.D. = 0.4  on  11 of  11 obs.
-----------------------------------------
%  JUL  10, 1991  08h 27m 32.82± 2.70s
   39.639 N ±20.4km   29.398 E ±13.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)

DST     0.60 267 iPg     27 44.50  -0.4
IZI     0.70   5 iPg     27 45.50  -1.2
YLV     0.93 359 iPn     27 50.20  -0.4
EYL     1.09  32 ePn     27 53.70   0.3
HRT     1.20  10 ePn     27 55.50   0.3
BNT     1.34 303 ePn     27 58.00   0.5
EDC     1.37 301 ePn     27 58.00   0.0
ISK     1.45 350 ePn     28 00.00   1.0
      S.D. = 0.8  on   8 of   8 obs.
-----------------------------------------
&  JUL  10, 1991  08h 55m 47.86s
   60.115 N          153.303 W
   DEPTH = 135.8km
 SOUTHERN ALASKA                     (  2)
      <AEIC>.

IVS     0.15 134 eP      56 05.87   0.6
                 eS      56 20.25
RDW     0.44  33 iPc     56 06.92  -0.9
                 eS      56 22.09
REF     0.48  38 iPc     56 07.13  -0.8
RDN     0.48  34 iPc     56 07.17  -0.7
                 eS      56 21.98
NCT     0.49  22 iPc     56 07.25  -0.6
                 eS      56 22.34
PDB     0.56 234 iPc     56 07.14  -1.0
                 eS      56 22.26
DFR     0.57  32 ePc     56 07.33  -1.0
                 eS      56 22.65
RDT     0.64  44 iPc     56 07.85  -0.9
                 eS      56 23.34
AUH     0.76 185 iPc     56 08.84  -0.8
                 eS      56 24.41
AUE     0.76 183 iPc     56 08.71  -0.8
                 eS      56 24.15
AUI     0.78 185 ePc     56 08.79  -0.9
                 eS      56 25.15
HOM     0.95 118 iPc     56 10.39  -0.7
                 eS      56 27.54
NNL     1.01  93 ePc     56 11.37  -0.3
XLV     1.04 129 iPd     56 10.58  -1.3
                 eS      56 28.96
MCNL    1.07 210 iPd     56 11.34  -0.9
                 eS      56 29.44
CKL     1.18  23 iPd     56 12.76  -0.7
                 eS      56 32.69
CNPM    1.20 119 iPc     56 12.45  -1.1
                 eS      56 31.81
CDD     1.20 188 iPc     56 12.36  -1.2
                 eS      56 31.06
NKA     1.20  58 ePc     56 14.01   0.5
SPU     1.23  29 iPd     56 12.88  -1.0
                 iS      56 33.63
BGL     1.24  21 iPd     56 13.50  -0.5
CGLM    1.36  27 iPd     56 14.28  -1.0
NCG     1.41  23 ePd     56 15.09  -0.8
SVW     1.52 312 ePd     56 15.62  -1.3
SYI     1.58 162 ePc     56 16.28  -1.3
                 eS      56 38.45
SLKM    1.58  74 ePc     56 16.27  -1.4
                 eS      56 38.56
SUA     1.85  42 iPd     56 19.61  -1.2
                 eS      56 44.95
SEW     1.93  89 eP      56 20.06  -1.6
SKT     2.06  24 iPd     56 22.03  -1.3
                 eS      56 49.50
PMS     2.16  57 ePd     56 22.78  -1.8
                 eS      56 50.04
PWA     2.28  46 ePc     56 25.38  -0.6
KDC     2.41 170 eP      56 24.77  -2.9
                 eS      56 54.60
PLRM    2.52  52 eP      56 26.63  -2.4
GHO     2.71  50 eP      56 28.75  -2.8
KNK     2.71  59 eP      56 28.87  -2.7
CUT     2.73  31 eP      56 30.17  -1.5
LTI     2.73  89 ePc     56 29.60  -2.2
KNIM    2.79  83 eP      56 29.33  -3.2
MTU     2.84  90 eP      56 31.40  -1.8
TTA     3.11 337 eP      56 35.19  -1.6
GLI     3.17  73 eP      56 35.25  -2.2
HUR     3.37  30 eP      56 38.58  -1.5
VZW     3.46  71 eP      56 39.88  -1.5
KTH     3.63  17 eP      56 42.00  -1.7
TRF     3.64  22 eP      56 42.09  -1.8
KLU     3.87  66 eP      56 43.64  -3.2
RND     3.92  31 eP      56 45.40  -2.1
TOA     3.99  57 eP      56 46.41  -2.1
MCK     4.18  28 eP      56 49.60  -1.3
BWN     4.45  22 eP      56 52.84  -1.7
SDG     4.45  54 eP      56 52.26  -2.4
PAX     4.72  49 eP      56 55.75  -2.5
GLB     4.84  70 eP      56 56.85  -3.0
NEA     4.89  22 ePc     56 58.24  -2.2
WRH     5.00  27 ePd     56 59.30  -2.7
CCB     5.22  27 eP      57 02.00  -2.8
MDM     5.40  24 ePd     57 04.69  -2.6
FBA     5.44  26 eP      57 05.65  -2.2
BALM    5.48  76 eP      57 06.73  -1.8
GLM     5.60  27 eP      57 07.32  -2.8
      60 obs. associated
-----------------------------------------
?  JUL  10, 1991  09h 05m 37.95± 0.99s
   39.142 N ± 8.7km   27.616 E ±16.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)

IZM     0.79 201 ePg     05 53.40   0.0
                 eSg     06 04.40
DST     0.91  59 ePn     05 55.40   0.0
EDC     1.22   9 ePn     06 00.50  -0.1
BNT     1.23  11 ePn     06 01.00   0.1
      S.D. = 0.1  on   4 of   4 obs.
-----------------------------------------
   JUL  10, 1991  09h 39m 04.72± 0.86s
   43.657 N ± 8.4km   20.609 E ± 6.6km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                          (383)
      ML 2.8 (TTG).

IVA     0.94 214 iPgd    39 21.30  -1.4
                 iSg     39 32.70
PLE     0.94 250 ePg     39 21.40  -1.4
                 eSg     39 34.80
PVY     1.16 204 iPgd    39 25.30  -1.2
                 eSg     39 40.10
BEO     1.17 355 ePg     39 26.00  -0.5
                 iSg     39 41.50
NKY     1.45 235 ePg     39 30.50  -0.6
TTG     1.58 219 ePg     39 32.10  -0.6
                 eSg     39 53.30
BRY     1.69 244 ePn     39 34.30  -0.2
SKO     1.79 160 ePn     39 36.70   0.8
                 eSn     39 57.50
                 iSg     40 02.50
SDA     1.83 207 ePn     39 33.70  -2.8X
BDV     1.90 224 ePn     39 38.50   1.1
HCY     1.96 233 ePn     39 38.60   0.2
PHP     1.97 184 ePn     39 40.20   1.7
VTS     2.18 118 iP      39 42.00   0.3
                 iSg     40 13.00
TIR     2.37 194 ePn     39 53.00   8.7X
KKB     2.55 134 eP      39 48.00   1.1
VAY     2.75 147 ePn     39 56.40   6.8X
HVAR    3.07 262 eP      39 56.90   2.8
                 iSn     40 32.10
RZN     3.61 122 iP      40 00.00  -2.1
      S.D. = 1.4  on  15 of  18 obs.
-----------------------------------------
   JUL  10, 1991  09h 49m 25.70± 0.20s
   12.525 N ± 4.1km   93.874 E ± 4.2km
   DEPTH = 116.9km  (  6 depth phases)
   5.2mb ( 44 abs.)
 ANDAMAN ISLANDS REGION              (703)
      CENTROID, MOMENT TENSOR        (HRV)
      Data Used: GDSN
      L.P.B.: 16S, 31C
      Centroid Location:
      Origin Time        09:49:37.2 0.4
      Lat 13.18N 0.04 Lon  94.24E 0.05
      Dep 134.1 2.3 Half-duration  2.1
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 0.86 0.06  Mtt=-1.00 0.08
        Mff= 0.15 0.10  Mrt=-1.06 0.06
        Mrf=-0.98 0.07  Mtf=-0.43 0.07
       Principal Axes:
        T  Val=  1.71  Plg=58  Azm=119
        N        0.12      16      235
        P       -1.83      27      333
      Best Double Couple:Mo=1.8*10**17
       NP1:Strike= 97 Dip=23 Slip= 134
```

10d 09h

NP2:		231	74			74
KHT		5.11	63	iPc	50 46.00	4.8X
BDT		6.83	46	iPd	51 04.10	-0.6
		0.8s	170.30nm			5.5mb
CHG		7.93	37	ePnd	51 22.00	2.1
				eSn	51 29.00	
				eSg	53 03.00	
CHTO		7.93	37	iP	51 22.10	2.3
LOE		9.01	56	eP	51 38.00	3.6X
IPM		10.60	138	ePd	52 00.50	4.9X
				e	52 10.50	
PSI		10.97	152	ePd	52 15.50	15.0X
				e	59 40.00	
SHL		13.11	352	iP	52 26.50	-2.3
				iS	54 45.00	
KGM		14.02	137	ePc	52 44.60	4.2X
		1.0s	171.70nm			5.3mb
				e	53 17.00	
KMI		15.07	32	Pd	52 57.50	3.5X
		1.5s	340.00nm			5.4mb
	Z	10s	0.80um			5.3Msz
HYB		15.58	290	ePd	53 02.50	2.3
		1.2s	242.40nm			5.3mb
				e	55 47.00	
				eS	55 58.00	
GBA		16.05	276	Pc	53 07.70	1.7
		0.9s	61.90nm			4.9mb
QIZ		16.67	65	eP	53 15.00	1.3
	N	21s	1.00um			
				eS	56 21.00	
LSA		17.28	352	Pd	53 22.00	0.4
		2.5s	570.00nm			5.4mb
GYA		18.35	39	iPc	53 33.00	-1.1
		1.2s	140.00nm			5.1mb
				S	56 54.00	
POO		20.19	290	iPd	53 58.80	5.4X
		1.2s	356.25nm			5.6mb
				iS	57 32.80	
CD2		20.45	25	iPd	53 55.00	-0.9
		1.0s	200.00nm			5.4mb
				S	57 33.00	
GZH		21.28	58	eP	54 08.00	3.7X
	N	12s	0.60um			
				PP	54 35.00	
				S	57 55.00	
NDI		22.35	319	iPd	54 17.00	2.2
		1.2s	496.88nm			5.8mb
				iS	58 09.50	
TSM		25.09	107	ePc	54 43.70	2.6
LZH		25.12	19	Pd	54 42.00	0.5
		2.0s	260.00nm			5.4mb
	Z	20s	0.74um			4.2Msz
	E	11s	0.56um			
				pP	55 10.00	135kmX
				sP	55 24.50	
				S	58 53.00	
				SS	00 05.00	
				ScS	05 25.00	
XAN		25.43	30	P	54 42.60	-1.5
	E	11s	0.70um			
GTA		27.29	10	iPd	55 01.60	0.4
		1.0s	50.00nm			5.1mb
	Z	15s	0.40um			4.1MszX
	E	11s	0.30um			
				pP	55 28.00	123km
				sP	55 43.40	
				PcP	58 19.60	
				S	59 28.00	
				ScP	01 44.00	
				ScS	05 34.00	
TRT		27.41	136	iPc	55 04.40	2.0
KHKI		29.95	133	ePc	55 25.60	0.5
				e	58 39.40	
NJ2		30.07	46	eP	55 26.00	0.0
	Z	16s	0.40um			4.2MszX
	N	11s	0.70um			
				S	00 12.00	
TIY		30.07	30	eP	55 25.00	-1.0
	Z	20s	0.88um			4.4Msz
	E	15s	0.54um			
				S	00 11.00	
				SS	01 57.00	
QUE		30.50	309	iPd	55 31.80	1.8
				eS	00 21.00	
				e	01 34.80	
KSH		31.15	333	P	55 35.00	-0.6
BTO		31.36	24	eP	55 37.00	-0.4
	N	12s	0.50um			
	E	12s	0.30um			
				eS	00 30.00	
TIA		31.53	38	eP	55 38.80	0.0
	Z	20s	0.70um			4.3Msz
WMQ		31.64	351	P	55 40.00	0.3
		1.4s	100.00nm			5.4mb
				PP	56 45.20	
				PcP	58 29.00	
				S	00 35.00	
				ScS	05 55.00	
HHC		32.20	26	eP	55 44.30	-0.4
	Z	20s	0.80um			4.4Msz
	E	12s	0.50um			
				eS	00 47.50	
BJI		33.73	32	eP	55 58.00	0.2
	Z	16s	0.58um			4.4MszX
				eS	01 08.00	
MAIO		38.92	313	iPd	56 42.60	0.9
				e	58 14.00	502kmX
				eS	02 30.00	
SNY		39.01	36	eP	56 47.00	4.8X
	Z	16s	0.60um			4.5MszX
				S	02 28.00	
NANU		40.82	149	eP	56 58.00	0.7
CN2		41.32	35	eP	57 02.00	0.7
		1.0s	60.00nm			5.3mb
				ePP	58 40.00	
				S	03 00.00	
IR4		44.88	308	iPd	57 32.50	2.1
IR1		45.10	308	iPd	57 34.00	1.9
IR5		45.12	308	eP	57 34.00	1.7
IR7		45.26	308	iPd	57 35.00	1.6
MRWA		46.67	153	eP	57 44.00	-0.4
BAL		48.18	153	iPd	57 56.50	0.4
MUN		49.15	155	iPc	58 04.10	0.5
WARB		49.97	141	eP	58 09.50	-0.4
NWAO		50.40	154	iPc	58 12.80	-0.3
WRA		51.26	128	P	58 18.00	-1.8
		0.6s	57.10nm			5.7mb
WR2		51.28	128	iPc	58 18.90	-1.1
		0.5s	121.30nm			6.1mb
				e	59 31.90	351kmX
RKG		51.73	156	iPc	58 23.00	-0.2
		0.6s	216.00nm			6.3mb X
ASPA		53.16	133	iPc	58 33.00	-0.9
		0.5s	69.00nm			5.9mb
FORR		54.24	143	eP	58 40.90	-0.7
QIS		55.70	126	iPc	58 52.00	-0.5
		0.5s	29.00nm			5.5mb
CTAO		60.88	122	iPc	59 28.00	-0.5
		1.3s	59.15nm			5.4mb
OBN		61.33	327	eP	59 30.00	-1.0
		1.1s	*******nm			8.3mb X
QLP		62.49	129	iPc	59 39.70	0.6
		0.7s	197.00nm			6.2mb
STK		63.53	135	iPc	59 45.50	-0.4
		0.6s	22.10nm			5.3mb
VRI		65.22	315	iPc	59 55.50	-1.2
				e	08 20.00	
MLR		65.72	314	eP	00 00.00	-0.1
RMQ		65.93	127	iPc	00 03.10	1.6
		0.7s	57.00nm			5.6mb
BFD		67.33	139	eP	00 08.00	-2.2
PTZ		67.42	249	iPc	00 10.00	-1.3
VAY		67.82	310	eP	00 11.80	-1.5
MTD		68.09	246	iPc	00 14.70	-0.7
KAF		68.57	332	iP	00 16.70	-0.8
		0.8s	11.30nm			4.8mb
NUR		68.98	330	eP	00 19.30	-0.7
TOO		69.45	138	eP	00 24.00	0.6
		0.2s	52.00nm			6.0mb
SOD		69.83	338	iP	00 24.30	-0.8
KRI		69.87	247	iPc	00 25.30	-1.1
SPC		69.93	318	eP	00 25.50	-0.8
				e	00 54.70	117km
COO		70.31	129	iPc	00 29.20	0.5
LSZ		70.63	249	iPd	00 31.00	0.0
BUL		71.93	244	iPc	00 38.50	-0.2
		1.0s	39.50nm			5.2mb
				i	01 15.00	149kmX
ZST		71.96	317	eP	00 37.70	-0.6
				i	01 14.00	148kmX
				e	04 03.70	
				eSg	04 05.30	
TDS		72.56	308	P	00 41.00	-1.0
				eSn	01 12.50	
CZI		72.74	307	P	00 42.80	-0.2
TRO		73.10	339	eP	00 44.30	-0.3
PRU		73.67	319	eP	00 48.00	-0.2
				e	01 18.50	121km
				e	03 09.00	
BRG		74.04	320	iP	00 50.40	0.0
		1.2s	15.00nm			4.7mb
				e	01 19.20	113km
SLR		74.28	239	iPc	00 52.00	-0.4
		0.9s	25.21nm			5.0mb
KHC		74.30	318	P	00 51.60	-0.4
				e	01 20.50	114km
				e	04 34.00	
				S	10 12.00	
HFS		74.34	329	eP	00 51.20	-0.7
		1.2s	36.90nm			5.1mb
	Z	16s	0.13um			4.3MszX
				LR	34 25.00	
CLL		74.63	320	eP	00 53.00	-0.8
				e	01 22.00	114km
WET		74.76	318	iPc	00 54.60	0.0
ARV		74.94	312	P	00 55.00	-0.8
KSR		75.49	239	iPc	00 59.50	0.2
		0.8s	25.00nm			5.1mb
NB2		75.58	330	P	00 57.90	-1.2
		0.9s	7.30nm			4.5mb
CRE		75.65	312	Pc	00 57.70	-2.2
				eSg	01 04.00	
SFI		75.71	312	P	01 01.00	1.0
				eSg	01 07.00	
PGD		75.80	312	Pc	00 57.90	-2.9
SEK		75.82	236	iPc	01 02.60	1.5
		0.8s	26.12nm			5.1mb
GRF		75.82	318	ePc	01 01.20	0.6
	Z	19s	0.10um			4.1Msz
				iS	10 31.00	
MME		76.52	313	Pc	01 03.50	-1.4
PGF		77.90	311	eP	01 11.50	-0.9
FRS		78.22	236	iPc	01 11.70	-2.5
		0.8s	29.85nm			5.1mb
SBF		78.89	313	eP	01 17.50	-0.2
		0.4s	5.75nm			4.7mb
DZM		79.00	116	iPd	01 19.50	0.8
LPG		79.18	314	eP	01 19.60	0.0
		0.4s	4.85nm			4.6mb
LPL		79.20	314	eP	01 19.60	0.1
		0.5s	6.90nm			4.7mb
FRF		79.50	312	eP	01 20.90	0.0
		0.5s	5.85nm			4.6mb
LMR		79.62	312	eP	01 20.90	-0.7
		0.4s	2.85nm			4.4mb
LRG		79.72	312	eP	01 21.90	-0.2
		0.5s	8.00nm			4.8mb
LBF		80.89	316	eP	01 27.80	-0.5
		0.4s	2.30nm			4.3mb
AVF		81.35	316	eP	01 30.40	-0.2
MAF		81.98	315	eP	01 35.40	1.5
		0.4s	2.85nm			4.4mb
TCF		82.21	316	eP	01 36.60	1.5
CAF		82.55	314	eP	01 39.00	2.1
WIN		82.86	245	iPc	01 40.00	0.9
		1.0s	23.00nm			5.0mb
MAW		83.01	191	iPc	01 40.00	1.4
		0.8s	40.00nm			5.4mb
LPO		83.20	314	eP	01 40.00	-0.2
MFF		83.75	316	eP	01 43.00	0.0
EKA		83.77	325	Pd	01 43.70	0.8
		1.1s	11.40nm			4.7mb
MBC		89.21	8	eP	02 08.50	-0.6
		0.5s	4.00nm			4.8mb
ALO		129.01	22	ePKP	08 22.00	0.0
		1.2s	10.16nm			
TUL		130.97	10	e(PKP)	08 25.20	-0.2
		1.5s	17.90nm			
ITB		147.48	243	e(PKP)	08 58.50	3.0X
SIV		155.48	259	PKP	09 07.00	-0.4
CNCB		161.94	254	PKP	09 17.00	1.6
				e	10 02.00	
LPB		162.10	255	PKP	09 15.20	-0.2
ZOBO		162.17	256	iPKPc	09 15.80	0.2
				i	10 03.00	
				LR	06 40.00	

S.D. = 1.1 on 110 of 120 obs.

? JUL 10, 1991 10h 16m 33.37± 0.81s
29.382 S ±28.5km 75.941 E ±14.3km

```
   DEPTH =  10.0km  (geophysicist)
   4.5mb (  6 obs.)
 MID-INDIAN RISE                          (429)

BUL     43.70 271 eP     24 39.30  -1.3
ASPA    51.73  98 eP     25 43.20   0.0
        1.3s     8.60nm          4.5mb
CHTO    52.81  28 eP     25 52.70   1.5
        1.2s     6.25nm          4.4mb
WRA     53.43  94 P      25 56.00   0.0
        1.0s     9.60nm          4.7mb
WR2     53.45  94 eP     25 55.90  -0.2
        1.2s     4.10nm          4.3mb
STK     55.76 110 eP     26 12.30  -0.4
        0.9s     2.00nm          4.1mb
LZH     70.21  24 eP     27 48.00  -0.6
        2.0s    39.00nm          5.2mb
                pP       27 57.00  29kmX
KIC     85.02 280 P      29 12.70   1.9
VRI     87.18 328 eP     29 18.00  -2.7
LKO     87.34 282 P      29 23.92   1.7
YKA    146.17   9 ePKP   36 13.80   0.1
        0.9s     3.60nm
      S.D. = 1.5  on  11 of  11 obs.
-----------------------------------------
%  JUL  10, 1991  10h 59m 38.04± 0.60s
   40.333 N ±10.3km   27.974 E ± 4.5km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                                   (366)

BNT      0.05 299 iPg     59 40.50   0.3
EDC      0.09 279 iPg     59 40.50  -0.1
                  iSg     59 42.50
KGT      0.53 283 iPg     59 48.50  -0.2
DST      0.88 145 ePn     59 55.00   0.0
YLV      1.09  77 iPn     59 5B.00  -0.6
IZI      1.15  89 ePn     00 00.00   0.5
HRT      1.38  69 ePn     00 03.50   0.2
      S.D. = 0.4  on   7 of   7 obs.
-----------------------------------------
   JUL  10, 1991  11h 16m 48.88± 0.72s
   39.878 N ± 6.4km   23.315 E ± 5.0km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                               (365)
      MD 2.5 (THE).

PAIG     0.28  80 iPgc    16 54.33  -0.5
                  iSg     16 58.84
LIT      0.67 290 iPgd    17 02.53   0.3
                  eSg     17 13.32
OUR      0.69  48 iPgc    17 01.76  -0.7
THE      0.80 341 ePg     17 04.52   0.1
                  eSg     17 16.94
SOH      0.94   2 ePg     17 06.72  -0.2
                  eSg     17 21.44
AGG      1.15 222 ePb     17 10.20  -0.1
                  eSb     17 26.76
SRS      1.26  10 ePbd    17 12.84   0.6
                  eSb     17 30.14
GRG      1.28 327 iPbc    17 12.85   0.1
                  eSb     17 31.92
VAY      1.55 339 ePn     17 15.50  -1.0
ALN      2.32  63 ePnc    17 28.96   1.3
      S.D. = 0.7  on  10 of  10 obs.
-----------------------------------------
   JUL  10, 1991  11h 33m 21.25± 1.41s
   51.550 N ±11.5km   16.236 E ± 7.7km
   DEPTH =   5.0km  (geophysicist)
 POLAND                                   (548)
      ML 3.6 (VKA).

KSP      0.71 177 iPd     33 35.20  -0.2
       0.4s    152.00nm
                  iS      33 43.30
                  i       34 03.40
BRG      1.59 246 iPn     33 50.00  -0.1
                  iPg     33 51.60
                  iSg     34 11.20
PRU      1.90 215 Pn      33 54.20  -0.4
       0.5s     54.60nm
                  Pg      33 56.30
                  e       33 59.50
                  Sn      34 13.30
                  Sg      34 20.80
                  e       34 23.70
CLL      2.04 264 iPn     33 56.50  -0.1
                  iPg     33 59.60
                  iSg     34 26.90
KRA      2.79 121 eP      34 16.50   9.2X
                  iS      34 53.90
KHC      2.96 216 Pn      34 09.50  -0.3
                  Pg      34 15.20
                  e       34 43.50
                  eSg     34 52.00
HOF      3.02 248 iPnc    34 11.40   0.7
MOX      3.05 255 ePn     34 11.00   0.0
                  iPg     34 19.00
                  iSg     34 59.00
WET      3.23 223 iPnc    34 13.20  -0.4
VKA      3.29 179 i(Pn)   34 15.70   1.2
                  iPg     34 23.60
                  iSg     35 06.90
ZST      3.40 170 eP      34 28.50  12.4X
                  i       34 44.70
                  i       35 10.40
SPC      3.49 131 e(Pn)   34 17.10  -0.3
                  e       34 28.10
                  e(Sn)   35 11.60
WTTA     5.24 217 iPnd    34 42.30   0.1
                  iSn     35 41.80
                  i       36 09.50
OGA      5.80 21B eP      34 50.00  -0.1
      S.D. = 0.5  on  12 of  14 obs.
-----------------------------------------
*  JUL  10, 1991  11h 45m 56.49± 1.05s
   41.652 N ± 9.8km   22.169 E ± 7.9km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                               (383)
      ML 2.3 (SKO).

VAY      0.45 138 iPg     46 06.00   0.4
                  iSg     46 11.40
SKO      0.63 301 ePn     46 09.00  -0.2
KKB      0.72  72 ePg     46 10.00  -0.6
                  Sg      46 19.00
MMB      1.17  93 iPgc    46 18.00  -0.4
                  Sg      46 32.00
VTS      1.22  39 iP      46 20.00   0.8
                  iSg     46 38.00
RZN      1.91  88 iP      46 32.00   2.5X
                  iS      46 57.00
      S.D. = 0.8  on   5 of   6 obs.
-----------------------------------------
   JUL  10, 1991  12h 18m 29.93± 0.86s
   42.572 N ± 8.7km   24.156 E ± 5.7km
   DEPTH =   5.0km  (geophysicist)
 BULGARIA                                 (359)

PLD      0.62 139 iPg     18 42.00  -0.3
                  iSg     18 51.00
VTS      0.70 272 iPg     18 43.00  -1.0
                  iSg     18 52.00
RZN      0.98 155 iPg     18 48.00  -1.1
                  iSg     19 01.00
MMB      1.03 198 iPgd    18 52.00   2.1
                  Sg      19 08.00
KKB      1.06 229 ePg     18 49.00  -1.4
                  iSg     19 05.00
DIM      1.15 117 ePg     18 53.00   1.2
                  eSg     19 09.00
KDZ      1.31 134 iP      18 55.00   0.3
                  iSg     19 10.00
VAY      1.72 224 ePn     19 01.20   0.5
SKO      2.10 254 ePn     19 07.00   0.7
DMK      2.78 104 ePn     19 14.00  -1.9
VRI      3.78  28 eP      19 31.00   0.9
      S.D. = 1.4  on  11 of  11 obs.
-----------------------------------------
%  JUL  10, 1991  13h 50m 33.94± 2.63s
   37.712 N ±27.4km   15.057 E ± 6.7km
   DEPTH =  10.0km  (geophysicist)
 SICILY                                   (398)

MNO      0.36 307 P       50 41.00  -0.4
                  eSg     50 48.20
ATN      0.55  35 P       50 45.60   0.5
                  eSg     50 53.70
GIB      0.86 289 P       50 50.60   0.0
                  eSn     51 04.90
SOI      0.87  65 P       50 50.30  -0.3
CZI      1.72  29 P       51 03.20  -0.9
      S.D. = 0.7  on   5 of   5 obs.
-----------------------------------------
*  JUL  10, 1991  14h 07m 31.98± 2.43s
   6.221 S ±17.3km  104.720 E ±20.0km
   DEPTH =  81.0 ± 21.6 km
   4.5mb (  5 obs.)
 SUNDA STRAIT                             (276)

KGM      8.30 350 ePc     09 32.60   0.8
KHKI    11.01 102 eP      10 08.20  -0.3
                  eS      12 11.10
                  e       14 39.50
IPM     11.35 341 ePc     10 13.90   0.8
NANU    19.31 148 eP      11 52.00  -1.4
                  eS      15 06.00
KHT     21.74 344 eP      12 12.00  -6.3X
CHG     25.52 347 eP      12 53.30  -1.4
CHTO    25.52 347 eP      12 53.10  -1.6
        0.7s     3.97nm          4.0mb
WR2     31.86 118 iPc     13 51.70   0.1
        0.5s     9.40nm          4.8mb
ASPA    32.98 125 eP      14 01.80   0.4
        0.8s     5.10nm          4.4mb
      Z  22s     0.30um          3.9MszX
                  i       14 16.00
GBA     33.49 306 Pd      14 05.20  -0.6
        0.7s     3.80nm          4.4mb
STK     42.84 131 iPc     15 25.00   1.2
        0.5s     6.00nm          4.7mb
                  e       15 43.70
NDI     43.66 324 iPc     15 30.00  -0.4
YAK     70.73  12 eP      18 41.00   0.1
VRI     86.13 317 ePd     20 05.00  -0.3
MLR     86.58 316 eP      20 10.00   2.3
TUL    144.96  30 e(PKP)  27 02.40   0.6
SIV    153.83 212 PKP     27 24.20   8.2X
                  i       27 57.00
      S.D. = 1.2  on  15 of  17 obs.
-----------------------------------------
?  JUL  10, 1991  14h 10m 02.60±11.55s
   58.974 N ±83.5km    5.909 E ±22.2km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN NORWAY                          (535)
      MD 1.7 (BER).

KMY      0.42 305 iP      10 10.77  -0.3
                  iS      10 18.98
ODD1     1.01  21 eP      10 21.27  -0.5
                  iS      10 35.66
EGD      1.35 345 ePg     10 27.40   0.0
                  Lg      10 48.06
ASK      1.56 347 iPg     10 31.16   0.8
                  eSg     10 53.48
      S.D. = 1.0  on   4 of   4 obs.
-----------------------------------------
&  JUL  10, 1991  14h 14m 57.11s
   61.177 N          150.115 W
   DEPTH =  10.0km
 SOUTHERN ALASKA                          (  2)
      <AEIC>. ML 2.7 (AEIC).

PMS      0.28  76 iPd     15 03.74   0.8
SUA      0.42 314 iPc     15 06.43   0.7
                  eS      15 12.85
PWA      0.49  13 iPc     15 07.30   0.3
PLRM     0.63  48 ePd     15 08.47  -1.3
                  eS      15 18.06
PMR      0.63  48 iPc     15 09.10  -0.7
SLKM     0.67 184 iPc     15 09.26  -1.3
                  iS      15 19.64
NKA      0.70 232 ePc     15 12.33   1.4
GHO      0.83  43 ePc     15 11.9B  -1.2
                  eS      15 23.81
KNK      0.84  73 ePd     15 12.67  -0.6
                  eS      15 24.21
CGLM     0.92 279 iPd     15 14.17  -0.7
                  S       15 26.58
SPU      0.94 271 iPd     15 14.04  -1.0
                  eS      15 26.62
NCG      1.01 284 iPd     15 15.63  -0.7
                  S       15 29.16
SKT      1.05 321 iPc     15 16.72  -0.3
                  eS      15 31.24
CKL      1.08 272 iPd     15 16.35  -1.1
BGL      1.10 276 eP      15 16.93  -1.0
SEW      1.13 163 eP      15 16.25  -1.9
CUT      1.23 357 ePc     15 18.96  -1.1
RDT      1.27 243 ePd     15 19.10  -1.7
NNL      1.28 208 eP      15 20.42  -0.4
DFR      1.39 246 ePc     15 21.01  -1.6
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10d 14h

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                    eS     15 38.79
KNIM    1.43 124 eP     15 21.89  -1.3
                    eS     15 41.63
REF     1.44 243 eP     15 21.82  -1.6
                    S      15 40.85
RDN     1.46 244 eP     15 21.69  -1.9
                    eS     15 40.76
RDW     1.49 243 eP     15 22.90  -1.2
                    eS     15 42.24
GLI     1.50 100 eP     15 22.85  -1.2
                    S      15 42.85
NCT     1.51 247 eP     15 22.73  -1.6
                    eS     15 41.87
LTI     1.59 135 ePd    15 24.38  -1.0
HOM     1.70 207 eP     15 27.24   0.3
MTU     1.70 133 eP     15 26.40  -0.6
VZW     1.73  92 eP     15 26.95  -0.5
CNPM    1.75 199 eP     15 26.62  -1.1
                    eS     15 48.55
VLZ     1.83  90 ePd    15 28.64  -0.2
IVS     1.87 233 eP     15 28.71  -1.0
KLU     2.05  79 ePd    15 31.56  -0.5
TOA     2.10  62 ePc    15 34.20   1.4
TRF     2.28 358 ePc    15 35.94   0.3
RND     2.31  14 eP     15 36.33   0.4
TZL     2.40  67 eP     15 37.27   0.2
KTH     2.41 351 eP     15 37.56   0.2
PDB     2.45 237 eP     15 37.15  -0.6
SDG     2.56  56 eP     15 39.94   0.7
SVW     2.67 271 eP     15 40.90  -0.1
PAX     2.83  49 eP     15 44.22   0.9
CDD     2.87 220 eP     15 43.94   0.2
GLB     3.05  82 eP     15 45.91  -0.4
TGL     3.58  94 eP     15 52.40  -1.5
BALM    3.77  89 eP     15 55.21  -1.5
MDM     3.89  12 eP     15 58.27   0.0
        48 obs. associated
-----------------------------------------
   JUL  10, 1991  14h 35m 48.53± 0.67s
   44.320 N ± 4.2km     7.274 E ± 5.8km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                     (545)
      ML 2.6 (LDG).

DOI     0.18 354 P      35 52.70   0.0
                 eSg    35 55.50
TOUF    0.31 183 Pg     35 54.76  -0.2
AUTN    0.34 161 Pg     35 55.35  -0.4
SAOF    0.39 149 Pg     35 56.52   0.0
                 Sg     36 01.46
MVIF    0.43 192 Pg     35 57.52   0.1
                 Sg     36 03.04
AURF    0.43 175 Pg     35 57.00  -0.4
SBF     0.47 166 Pg     35 59.00   0.9
                 Sg     36 04.40
CALN    0.63 206 Pg     36 01.29   0.0
FRF     0.88 211 Pg     36 05.50   0.0
                 Sg     36 16.40
LRG     1.09 218 Pg     36 09.20   0.2
                 Sg     36 22.40
LMR     1.13 210 Pg     36 09.60  -0.1
                 Sg     36 23.60
CDR     1.26 240 eP     36 12.00   0.0
                 e      36 28.70
      S.D. = 0.4  on  12 of  12 obs.
-----------------------------------------
*  JUL  10, 1991  15h 07m 37.30± 0.89s
   15.064 N ±11.2km  120.176 E ±18.1km
   DEPTH =  33.0km  (normal)
   4.4mb (  3 obs.)  4.0Msz (  1 obs.)
 LUZON, PHILIPPINE ISLANDS          (249)

PGP     1.73 154 ePd    08 05.00  -0.4
CVP     3.06  31 eP     08 22.00  -2.5X
PIP     3.27   7 ePd    08 25.50  -1.9
NJ2    16.95 356 eP     11 37.00   3.4X
CHG    20.65 283 eP     12 23.10   6.2X
CHTO   20.65 283 eP     12 15.00  -1.9
       1.3s      7.76nm          3.9mb
TIA    21.24 353 eP     12 23.80   1.0
XAN    21.46 334 eP     12 25.20   0.2
CD2    21.80 319 eP     12 28.60   0.1
TIY    23.58 345 eP     12 44.20  -1.8
     Z  20s      0.50um          4.0Msz
BJI    25.13 353 eP     13 02.50   1.7
       1.5s     18.00nm          4.4mb
LZH    25.52 328 eP     13 04.00  -0.7
       2.0s     49.00nm          4.8mb
     Z  16s      0.34um          4.0MszX
     N  12s      0.23um
                 pP     13 15.00  42kmX
                 sP     13 20.00
                 PP     13 52.00
HHC    26.76 345 eP     13 17.00   0.9
GTA    30.12 328 eP     13 46.60   0.2
     Z  16s      0.30um          4.0MszX
     E  13s      0.20um
MAIO   57.70 304 eP     17 29.00   1.6
VRI    81.71 315 eP     19 55.00   1.0
     S.D. = 1.4  on  13 of  16 obs.
-----------------------------------------
&  JUL  10, 1991  15h 27m 05.00s
   36.855 N          121.320 W
   DEPTH =   3.0km
 CENTRAL CALIFORNIA                  ( 39)
      <BRK>. ML 2.5 (BRK).

SAO     0.13 228 iPc    27 08.30   0.6
ARN     0.52 341 iPc    27 15.50   0.1
PRS     0.52 184 iPd    27 15.00  -0.5
MHC     0.55 332 ePd    27 15.80  -0.2
                 iS     27 24.50
GCC     0.57 288 ePd    27 15.90  -0.5
PRI     0.89 143 eP     27 22.60  -0.1
                 eS     27 33.80
PCC     1.06 308 ePc    27 24.60  -1.1
BKS     1.25 325 iPc    27 29.90   1.0
BRK     1.26 324 ePc    27 29.20   0.1
FRI     1.30  83 ePc    27 27.80  -1.9
                 eS     27 45.20
ZSP     1.32 326 e(P)c  27 31.72   1.7
CMB     1.39  32 eP     27 30.18  -1.2
                 iS     27 48.40
        12 obs. associated
-----------------------------------------
   JUL  10, 1991  16h 36m 05.06± 0.58s
   41.083 N ± 4.5km   22.152 E ± 4.9km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                         (383)
      ML 2.1 (SKO). MD 2.1 (THE).

GRC     0.23 124 iPc    36 08.89  -1.1
                 eS     36 12.52
VAY     0.40  53 ePn    36 12.70  -0.5
                 iSg    36 18.70
KNT     0.57  82 ePc    36 15.60  -1.0
                 eS     36 23.52
FNA     0.66 243 ePd    36 16.96  -1.3
                 eS     36 25.92
THE     0.76 126 ePd    36 19.76  -0.2
SOH     0.95 106 ePc    36 22.62  -0.5
LIT     1.01 165 ePc    36 24.60   0.3
                 eS     36 38.88
SKO     1.04 329 ePg    36 24.50  -0.1
                 eSg    36 36.00
KKB     1.05  41 iPg    36 25.00   0.1
                 iSg    36 41.00
SRS     1.09  88 ePd    36 25.36  -0.2
MMB     1.29  66 eP     36 30.00   1.0
                 eS     36 47.00
PAIG    1.64 134 ePc    36 34.52   0.5
VTS     1.70  27 eP     36 36.00   0.9
                 iSg    37 00.00
RZN     2.02  72 iP     36 40.00   0.2
AGG     2.06 176 iPc    36 41.96   1.8
KDZ     2.52  76 eP     36 50.00   3.3X
      S.D. = 0.9  on  15 of  16 obs.
-----------------------------------------
?  JUL  10, 1991  17h 07m 38.22± 1.90s
   50.403 N ±33.9km   19.115 E ±16.7km
   DEPTH =  10.0km  (geophysicist)
 POLAND                             (548)
      ML 2.7 (KRA).

KRA     0.63 123 ePg    07 50.80  -0.1
                 iSg    08 00.50
SPC     1.42 149 iPn    08 04.40   0.2
                 i      08 22.10
                 i(Sg)  08 24.70
KSP     1.85 285 iPg    08 10.40   0.2
       0.4s     42.00nm
                 iS     08 34.00
ZST     2.57 212 eP     08 47.10  26.5X
SRO     2.65 192 eP     09 06.30  44.7X
PRU     2.97 264 Pg     08 26.00  -0.2
                 e      08 29.80
                 e      08 33.20
                 Sg     09 05.30
BRG     3.32 280 ePg    08 39.00   7.7X
                 iSg    09 20.00
KHC     3.81 253 ePn    08 29.00  -9.2X
                 e      08 41.00
                 e      09 27.80
                 Sg     09 32.00
CLL     3.98 286 (Pg)   08 52.00  11.5X
                 eSg    09 46.00
      S.D. = 0.3  on   4 of   9 obs.
-----------------------------------------
%  JUL  10, 1991  17h 40m 41.67± 3.02s
   43.608 N ±13.8km   12.963 E ±26.6km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                      (381)

ARV     0.11 188 Pd     40 44.50  -0.1
                 eSg    40 49.50
RSM     0.49 311 P      40 51.50  -0.1
                 eSg    41 00.00
ASS     0.58 202 P      40 53.50   0.0
                 eSg    41 06.00
CRE     0.73 272 P      40 56.00  -0.2
SFI     0.86 292 P      40 58.50   0.2
      S.D. = 0.2  on   5 of   5 obs.
-----------------------------------------
*  JUL  10, 1991  18h 59m 27.03± 1.06s
   31.770 S ±10.6km   68.556 W ±14.2km
   DEPTH =  33.0km  (normal)
 SAN JUAN PROVINCE, ARGENTINA       (137)

ZON     0.25 335 iPd    59 34.20   0.0
RTLL    0.44  10 iPc    59 35.50  -1.4
RTBS    0.77 278 eP     59 42.00   0.6
MDZ     1.14 193 iP     59 46.40  -0.4
                 iS     59 59.70
CYA     4.09  37 e(P)   00 30.00   1.2
      S.D. = 1.4  on   5 of   5 obs.
-----------------------------------------
*  JUL  10, 1991  19h 16m 49.08± 1.52s
   23.991 N ± 9.3km  121.680 E ±19.3km
   DEPTH =  10.0km  (geophysicist)
 TAIWAN                             (244)

TWD     0.12 319 iPd    16 51.30  -0.7
TWC     0.63  14 iPd    17 01.40  -0.4
                 eS     17 10.60
TWF1    0.73 209 eP     17 03.20  -0.2
TWZ     1.10 355 iPc    17 10.70   0.9
TWK     1.31 237 ePc    17 13.70   0.4
SSE     7.09 357 ePn    18 32.00  -3.4X
                 Sg     20 37.00
      S.D. = 0.9  on   5 of   6 obs.
-----------------------------------------
*  JUL  10, 1991  19h 20m 37.81± 1.36s
    6.531 S ±20.1km  103.708 E ±24.7km
   DEPTH =  39.0km  (  4 depth phases)
   4.4mb (  5 obs.)
 SOUTHWEST OF SUMATERA              (273)

KHKI   11.94 100 eP     23 28.60   0.1
                 eS     25 32.50
                 e      26 58.50
CHG    25.62 350 eP     26 05.50   0.0
CHTO   25.62 350 eP     26 05.00  -0.5
       0.8s      2.75nm          3.9mb
                 e      26 15.00  37km
WR2    32.61 117 eP     27 07.80  -0.4
       0.5s      3.60nm          4.5mb
                 e      27 18.00  36km
ASPA   33.64 124 eP     27 16.70  -0.5
       1.0s      6.40nm          4.5mb
                 e      27 29.00  46km
LZH    42.39   0 eP     28 31.00   0.6
       1.3s     22.00nm          4.7mb
STK    43.40 131 iPc    28 39.30   0.7
       0.6s      3.60nm          4.3mb
                 e      28 49.90  37km
      S.D. = 0.6  on   7 of   7 obs.
-----------------------------------------
*  JUL  10, 1991  20h 24m 21.75± 0.90s
   36.999 N ±10.1km   29.384 E ± 6.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)
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```
ELL      0.49 121 iPg   24 31.40  -0.3
                  iSg   24 40.40
YER      0.89 279 ePn   24 39.10   0.2
BCK      1.07  64 ePn   24 42.50   0.6
CIN      1.20 301 eP    24 44.00   0.0
KHL      1.33   5 ePn   24 45.80  -0.5
      S.D. = 0.6  on   5 of   5 obs.
-----------------------------------------
   JUL  10, 1991  20h 25m 30.30± 0.36s
   10.013 N ± 5.8km  126.177 E ± 7.4km
   DEPTH =  31.5km  (  5 depth phoses)
   5.1mb ( 23 obs.)  4.2Msz (  5 obs.)
 PHILIPPINE ISLANDS REGION          (248)

PLP      1.64 314 ePc   25 58.00   0.7
CGP      2.13 224 iPc   26 06.00   1.6
                  eS    26 30.00
MAP      2.18 278 iPc   26 08.00   2.9
                  iS    26 25.00
DAV      2.97 192 eP    26 22.00   5.7X
PGP      6.18 305 eP    27 05.00   3.2X
PPR      7.34 269 ePc   27 25.50   7.4X
        1.0s   179.00nm          6.0mb
BAG      8.37 320 eP    27 33.60   0.9
CVP      8.74 332 eP    27 41.00   3.5X
QZH     16.51 335 eP    29 23.00   1.8
GZH     17.88 318 P     29 40.90   2.6
QIZ     18.16 301 eP    29 43.50   1.6
                  eS    33 05.00
SSE     21.48 348 iPc   30 19.50   1.1
        1.0s    86.00nm          5.1mb
      Z  20s     0.50um          3.9Msz
                  pP    30 28.50  33km
                  S     34 16.00
NJ2     22.95 344 Pd    30 33.60   0.6
      E  10s     0.20um
                  S     34 44.00
WHN     23.21 333 eP    30 36.50   1.0
                  S     34 48.00
MTN     23.24 168 eP    30 37.00   1.1
LOE     24.84 290 eP    30 51.00  -0.5
IPM     25.52 260 ePc   31 00.20   2.3
        0.9s    54.70nm          5.2mb
                  e     31 08.60  30km
KHT     27.34 283 eP    31 19.50   4.8X
TIA     27.34 344 Pd    31 14.20  -0.3
CHG     27.76 291 eP    31 17.30  -1.1
CHTO    27.76 291 eP    31 18.00  -0.4
        1.2s     7.99nm          4.3mb
XAN     28.68 329 P     31 24.40  -2.2
CD2     29.44 318 eP    31 31.20  -2.3
TIY     30.23 338 eP    31 38.50  -2.0
      Z  20s     0.50um          4.2Msz
WR2     30.84 165 iPc   31 44.30  -1.7
        0.9s     9.00nm          4.6mb
                  i     32 19.30 167kmX
BJI     31.20 345 eP    31 48.50  -0.4
        1.5s    35.00nm          5.0mb
                  S     36 51.00
SNY     31.77 356 Pc    31 53.80  -0.1
        1.2s    60.00nm          5.3mb
                  sP    32 11.10
LZH     32.93 326 P     32 03.00  -1.4
        1.5s    37.00nm          5.1mb
      Z  20s     0.44um          4.2Msz
      E  17s     0.45um
                  pP    32 13.50  38km
                  sP    32 17.50
QIS     33.13 157 iPc   32 05.00  -1.0
HHC     33.32 340 P     32 07.80   0.2
        1.0s    20.00nm          5.0mb
BTO     33.66 338 eP    32 09.20  -1.3
CN2     33.67 359 eP    32 10.00  -0.4
      Z  20s     0.59um          4.3Msz
                  epP   32 17.00  24km
                  eS    37 38.00
ASPA    34.31 167 iPd   32 15.60  -0.7
        0.9s    12.80nm          4.9mb
MDJ     34.60   4 eP    32 19.00   0.5
        1.5s    60.00nm          5.3mb
WARB    35.98 179 iPd   32 31.20   0.8
        0.3s    11.00nm          5.3mb
SHL     35.99 300 eP    32 30.00  -0.8
                  eS    38 04.00
GTA     37.54 326 P     32 42.20  -1.3
        1.2s    20.00nm          4.8mb
      Z  22s     0.40um          4.2Msz
                  pP    32 52.10  34km
                  sP    32 57.00
                  PcP   35 00.80
                  eS    38 27.00
                  ScP   38 44.00
LSA     38.10 306 eP    32 48.00  -0.8
FORR    40.67 177 eP    33 09.00  -0.4
STK     44.19 161 eP    33 37.70  -0.5
        0.8s     4.80nm          4.4mb
                  e     35 26.20 624kmX
IRK     45.73 341 ePc   33 50.00  -0.3
WMO     47.37 322 P     34 02.50  -1.0
                  ScS   43 50.00
GBA     47.78 279 Pd    34 06.30  -0.7
        0.7s     9.20nm          4.9mb
DZM     50.76 129 iPc   34 30.90   1.1
YAK     51.97   2 iPc   34 37.80  -0.6
                  e     41 58.00
QUE     58.48 299 eP    35 24.50  -1.8
MAIO    65.37 305 eP    36 11.00  -1.3
SVW     75.59  29 ePc   37 15.50   1.8
TTA     75.60  27 ePc   37 14.90   1.2
        1.2s    20.80nm          5.0mb
BRW     76.43  19 ePc   37 19.80   1.6
IMA     76.91  24 ePc   37 22.80   1.7
        1.0s    29.70nm          5.3mb
KDC     76.97  33 ePc   37 22.80   1.4
PMR     78.74  29 ePc   37 31.40   0.4
        1.1s    33.20nm          5.3mb
TOA     80.13  28 ePc   37 40.20   1.5
INK     84.56  22 eP    38 03.00   1.7
KAF     85.81 332 iP    38 06.60  -1.1
        0.8s    11.60nm          5.2mb
MBC     85.98  13 eP    38 09.00   0.6
        1.0s    24.00nm          5.4mb
NUR     86.98 331 eP    38 12.70  -0.7
HFS     92.23 332 eP    38 36.20  -2.0
        0.4s     1.00nm          4.6mb
NB2     92.95 334 P     38 39.40  -2.1
        0.9s     3.20nm          4.8mb
YKA     94.03  24 eP    38 46.00  -0.4
        0.8s     8.10nm          5.2mb
GRF     97.96 324 ePKP  39 03.60  -1.0
UPA    148.20  54 iPKPd 45 15.70   3.4X
SIV    170.77 131 PKP   45 37.00   0.0
      S.D. = 1.3  on  58 of  64 obs.
-----------------------------------------
   JUL  10, 1991  20h 34m 35.49± 0.30s
   44.653 N ± 2.4km    7.260 E ± 3.3km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                     (545)
      ML 2.6 (LDG), 2.5 (GEN).

DOI      0.15 184 P      34 39.30   0.3
                  eSg   34 41.60
PZZ      0.19 218 P      34 39.46  -0.3
                  S     34 41.51
BHB      0.19   1 P      34 40.18   0.5
                  S     34 42.23
STV      0.41 174 P      34 43.77  -0.2
                  S     34 48.59
RRL      0.43 308 P      34 44.08  -0.3
                  S     34 49.31
ENR      0.44 165 P      34 43.97  -0.5
                  S     34 49.31
RSP      0.50 360 P      34 45.92   0.3
                  S     34 52.28
ROB      0.56 129 P      34 46.84  -0.2
                  S     34 53.92
BNI      0.58 314 Pd     34 46.80  -0.5
                  eSg   34 54.40
CKI      0.76 107 P      34 50.70   0.3
                  eSg   35 02.10
FIN      0.81 123 P      34 51.15  -0.1
                  S     35 01.41
IMI      0.87 148 P      34 51.87  -0.4
                  S     35 03.15
LPG      0.92 337 Pg     34 53.00  -0.3
                  Sg    35 04.00
PCP      0.92  96 P      34 53.20   0.0
                  S     35 05.92
FRF      1.18 202 Pg     34 58.00   0.5
                  Sg    35 12.20
LRG      1.36 209 Pg     35 01.20   0.7
                  Sg    35 19.00
LMR      1.43 203 Pg     35 01.50   0.1
                  Sg    35 20.20
      S.D. = 0.4  on  17 of  17 obs.
-----------------------------------------
?  JUL  10, 1991  21h 23m 18.67± 0.94s
   44.349 N ±10.2km    7.318 E ± 9.6km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                     (545)
      ML 1.8 (GEN).

STV      0.10 178 P      23 21.56   0.0
                  S     23 22.89
ENR      0.14 149 P      23 22.07   0.0
                  S     23 24.12
PZZ      0.22 315 P      23 23.51   0.0
                  S     23 26.89
ROB      0.40  98 P      23 26.89   0.0
                  S     23 32.22
      S.D. = 0.0  on   4 of   4 obs.
-----------------------------------------
   JUL  10, 1991  22h 58m 26.31± 0.57s
   43.626 N ± 3.9km    8.157 E ± 4.2km
   DEPTH =  10.0km  (geophysicist)
 CORSICA                            (380)
      ML 3.1 (GEN), 2.9 (LDG).

IMI      0.34 326 P      58 33.30  -0.1
                  S     58 37.15
SAOF     0.57 310 Pg     58 37.66  -0.1
SBF      0.57 295 Pg     58 38.30   0.3
FIN      0.58   4 P      58 37.56  -0.6
                  S     58 44.53
AUTN     0.64 305 Pg     58 39.23  -0.2
                  Sg    58 48.83
AURF     0.66 294 Pg     58 39.81   0.4
ROB      0.70 343 P      58 39.68  -0.5
                  S     58 48.43
TOUF     0.76 301 Pg     58 41.50   0.1
MVIF     0.78 291 Pg     58 42.09   0.5
                  Sg    58 52.58
ENR      0.80 319 P      58 41.59  -0.4
                  S     58 51.71
CKI      0.80   6 P      58 41.40  -0.5
                  eSg   58 50.90
STV      0.86 316 P      58 42.67  -0.3
                  S     58 53.55
CALN     0.93 278 Pg     58 44.47   0.3
                  Sg    58 56.46
PCP      0.96  17 P      58 44.12  -0.5
                  S     58 56.56
DOI      1.10 323 P      58 47.00   0.0
                  eSg   59 01.60
FRF      1.10 267 Pn     58 46.70  -0.2
                  Sn    58 59.80
PZZ      1.16 319 P      58 48.09   0.0
                  S     59 02.27
LMR      1.23 257 Pn     58 48.60  -0.6
                  Sn    59 03.00
PGF      1.24 150 Pg     58 49.80   0.3
                  Sg    59 06.66
LRG      1.32 263 Pn     58 50.40  -0.2
                  Sn    59 06.40
BHB      1.37 332 P      58 51.15  -0.4
                  S     59 08.73
RRL      1.63 323 P      58 55.71   0.4
                  S     59 16.21
RSP      1.66 337 P      58 55.51  -0.1
                  S     59 14.16
CDR      1.74 272 eP     58 56.00  -0.7
                  e     59 14.90
                  e     59 19.90
BNI      1.78 324 P      58 58.60   1.2
                  eSn   59 19.50
LPG      2.12 332 Pn     59 04.10   1.5
                  Sn    59 30.30
LPL      2.15 332 Pn     59 04.60   1.8
                  Sn    59 30.30
BGF      4.77 310 Pn     59 38.60  -1.3
      S.D. = 0.7  on  28 of  28 obs.
-----------------------------------------
*  JUL  10, 1991  23h 09m 05.33± 2.78s
   23.280 N ± 7.9km  120.134 E ±21.1km
   DEPTH =  10.0km  (geophysicist)
 TAIWAN                             (244)

TWK      0.33  92 iPd    09 12.40   0.3
                  eS    09 18.00
TWM1     0.53 149 ePd    09 16.10   0.1
TWG      0.98 118 ePc    09 23.60  -0.3
```

10d 23h

```
TWF1     1.07  86 ePc   09 25.30  -0.2
TWO      1.18  33 ePc   09 27.40   0.0
ANP      2.28  33 eP    10 09.50  25.8X
WRA     45.14 161 P     17 04.00 -20.0X
         1.1s      0.90nm
      S.D. = 0.3  on   5 of   7 obs.
-----------------------------------
   JUL  10, 1991  23h 41m 02.44± 1.24s
   17.413 S ± 6.9km  179.513 W ± 8.2km
   DEPTH = 438.6 ± 12.7 km
   5.1mb ( 30 obs.)
 FIJI ISLANDS REGION                (181)

AFI      8.22  66 iPd   43 03.00   1.4
DZM     14.01 248 iPd   44 14.10   9.0X
HBZ     20.20 185 eP    45 04.90  -1.9
PUZ     20.68 185 eP    45 11.00  -0.4
NOZ     21.24 185 eP    45 16.80   0.2
MNG     23.53 190 eP    45 35.60  -2.1
THZ     25.13 193 eP    45 52.20   0.0
KHZ     25.62 192 eP    45 55.30  -1.3
LTZ     26.24 194 P     46 01.50  -0.7
MMCZ    29.11 197 P     46 27.00  -0.4
MHZ     29.12 196 P     46 27.10  -0.4
COO     29.13 238 iPd   46 31.10   3.4X
         0.7s    46.00nm          5.0mb
TLC     29.30 197 P     46 29.30   0.2
RMO     30.72 247 iPd   46 46.20   4.7X
         0.5s    81.00nm          5.4mb
PMG     33.34 279 iPd   47 08.10   4.3X
CMS     34.36 239 iPd   47 16.10   3.8X
         0.7s    59.00nm          5.1mb
LAT     34.39 284 eP    47 17.60   5.0X
OLP     34.73 248 iPd   47 19.20   3.8X
         0.4s   190.00nm          5.9mb
TOO     36.68 230 iPd   47 35.30   3.7X
         0.2s    72.00nm          5.7mb
TAU     37.91 221 eP    47 44.00   2.4
STK     37.96 240 iPd   47 46.00   3.9X
         0.8s    27.50nm          4.7mb
BFD     38.71 232 iPd   47 49.00   0.8
         0.8s    43.00nm          4.9mb
OIS     38.72 259 iPd   47 50.80   2.4
WR2     43.66 259 iPc   48 30.10   1.8
         0.3s   148.90nm          5.9mb
                  eS    54 19.90
                  i     55 40.30
WRA     43.69 259 P     48 29.00   0.5
         0.9s    87.40nm          5.2mb
ASPA    43.92 254 iPd   48 32.80   2.5
         0.6s   639.40nm          6.2mb X
                  iScP  53 06.50
                  iS    54 24.90
                  iScS  57 30.50
GUA     46.68 309 eP    48 53.50   1.7
         0.7s   180.82nm          5.6mb
PJG     46.75 309 eP    48 53.40   1.2
MTN     47.76 268 eP    49 01.00   0.9
         0.4s    69.00nm          5.4mb
FORR    49.24 244 iPd   49 12.10   1.0
         0.3s   103.00nm          5.8mb
KNA     49.48 264 eP    49 12.00  -1.0
         0.5s    81.00nm          5.4mb
WARB    50.46 250 iPd   49 21.70   1.4
         0.3s    37.00nm          5.2mb
NWAO    58.52 242 iPd   50 17.30   0.0
RKG     58.68 240 eP    50 18.00  -0.5
BAL     59.05 244 iPd   50 20.50  -0.5
         0.6s    45.00nm          5.1mb
MUN     59.41 243 iPc   50 23.50   0.0
MRWA    59.74 246 iPd   50 25.10  -0.6
         0.5s    19.00nm          4.8mb
NANU    60.85 254 eP    50 33.00  -0.1
         0.3s    22.00nm          5.2mb
KAKJ    65.55 325 eP    51 01.40  -1.6
CHJJ    66.09 324 P     51 05.10  -1.3
IIDJ    66.30 323 P     51 06.40  -1.4
MAT     66.88 324 eP    51 09.00  -2.3
         0.6s    23.33nm          5.0mb
MTMJ    67.14 324 P     51 11.50  -1.5
TSRJ    67.46 322 P     51 13.60  -1.3
SPA     72.70 180 iPc   51 43.60  -2.2
         1.0s    35.00nm          4.9mb
SSE     74.62 310 Pd    51 56.00  -1.0
         0.8s    12.00nm          4.6mb
NJ2     76.81 310 Pc    52 08.10  -1.0
MDJ     77.18 325 Pd    52 10.00  -0.9
         0.9s    40.00nm          5.1mb
CN2     78.99 323 P     52 19.00  -1.6
         1.0s    30.00nm          4.9mb
                 PcP     52 24.80
WHN     79.46 307 Pc    52 26.00   2.6
BJI     82.70 316 eP    52 38.00  -1.7
         1.0s    20.00nm          4.8mb
TIY     84.16 312 Pd    52 45.00  -2.2
         1.0s    30.00nm          5.0mb
XAN     85.12 308 iPd   52 51.20  -0.9
         1.0s    50.00nm          5.2mb
HHC     86.18 315 eP    52 56.00  -1.1
         1.0s    20.00nm          4.8mb
CHG     87.84 290 ePd   53 05.00  -0.3
         1.0s    19.00nm          4.9mb
CHTO    87.84 290 iP    53 05.00  -0.3
         0.7s     1.27nm          3.8mb X
LZH     89.76 308 iPd   53 13.00  -1.0
         1.0s    52.00nm          5.4mb
INK     91.69  16 eP    53 14.00  -8.0X
GTA     93.91 310 eP    53 31.60  -1.4
         1.0s    10.00nm          4.9mb
YKA     94.33  25 eP    53 28.20  -6.0X
         0.6s     2.10nm          4.4mb
MBC    100.08  12 ePdiff53 54.50  -5.5X
NB2    135.76 353 PKP   59 17.60 -15.5X
         0.7s     1.20nm
HFS    136.28 350 ePKP  59 15.70 -18.3X
         0.3s     0.70nm
EKA    142.05   3 PKP   59 36.00  -8.6X
         0.6s     2.30nm
DMU    143.14   7 ePKP  59 38.50  -8.0X
PPE    143.52 328 iPKPc 59 41.00  -6.4X
DCN    143.63   8 ePKP  59 40.30  -7.1X
DLF    143.77   7 ePKP  59 40.80  -6.8X
KRA    143.87 339 iPKP  59 42.30  -5.6X
CFR    143.93 326 ePKP  59 43.00  -5.1X
VRI    144.21 328 ePKPd 59 43.00  -5.6X
KSP    144.33 343 iPKPd 59 44.10  -4.6X
         1.0s    68.00nm
BHL    144.52 304 PKP   59 46.50  -3.2X
HRI    144.64 303 iPKPd 59 46.80  -3.1X
CLL    144.74 346 iPKP  59 44.70  -4.6X
         1.2s    82.00nm
BRG    144.93 345 iPKP  59 45.80  -3.9X
         1.0s    40.00nm
WTS    145.13 353 iPKPd 59 45.50  -4.4X
         1.1s    52.00nm
JVI    145.35 301 iPKPd 59 48.70  -2.4X
TNR    145.57 330 ePKP  59 45.50  -5.5X
PRU    145.59 344 PKPd  59 47.70  -3.1X
         0.7s    14.10nm
                  e     00 33.00
                  e     59 49.50
BNS    146.10 352 iPKPd 59 48.70  -2.9X
RMN    146.33 299 iPKPd 59 51.30  -1.5
SRO    146.34 338 ePKP  59 50.20  -1.9
ENN    146.44 354 iPKPd 59 49.80  -2.3X
         0.8s    18.00nm
MEM    146.59 354 PKPd  59 50.10  -2.2X
KHC    146.63 344 PKP   59 49.00  -3.6X
TNS    146.65 351 ePKPd 59 50.10  -2.5X
DOU    147.23 355 PKPd  59 52.00  -1.4
         0.4s    23.60nm
DIM    147.43 324 ePKP  59 53.00  -1.0
WLF    147.50 353 iPKPd 59 53.15  -0.7
KDZ    147.75 324 iPKP  59 54.00  -0.6
BEO    147.95 333 ePKP  59 53.00  -1.7
GWF    147.99 351 PKP   59 53.77  -1.0
FUR    148.08 346 iPKPd 59 54.50  -0.4
         0.9s    41.00nm
RZN    148.12 324 iPKPd 59 55.00  -0.4
CDF    148.59 351 ePKP  59 55.10  -0.7
         0.6s    25.25nm
FLN    148.72   1 ePKP  59 55.00  -0.8
         0.8s    57.75nm
ECH    148.80 351 PKP   59 55.54  -0.5
WTTA   148.84 345 iPKP  59 56.20  -0.1
         0.4s    34.00nm
LDF    148.90   1 ePKP  59 55.40  -0.7
         0.6s    26.15nm
VITF   148.95 353 PKP   59 56.22   0.0
FEL    149.00 350 PKP   59 56.26  -0.2
GRR    149.09   2 ePKP  59 56.20  -0.2
         0.7s    37.50nm
HAU    149.11 352 ePKP  59 56.30  -0.2
         0.4s    11.45nm
LJU    149.15 341 ePKP  59 57.00   0.4
MOF    149.16 351 PKP   59 56.28  -0.4
FVI    149.17 343 PKP   59 56.40  -0.1
BSF    149.22 352 ePKP  59 56.60  -0.2
         0.7s    15.45nm
VOY    149.36 342 iPKPd 59 56.90  -0.1
VBY    149.39 339 ePKPd 59 57.60   0.6
LPF    149.44   2 ePKP  59 57.00   0.1
         0.8s    64.50nm
CEY    149.46 341 ePKPd 59 57.40   0.3
BBS    149.48 351 PKP   59 56.22  -0.9
VAY    149.54 326 ePKP  59 57.40   0.1
SKO    149.66 328 ePKP  59 58.20   0.7
                  e     00 07.10
                  e     00 11.60
LOMF   149.69 351 PKP   59 57.79   0.3
TRI    149.69 341 PKP   59 57.80   0.4
RIY    149.82 340 ePKPd 59 58.10   0.5
LOR    150.10 355 ePKP  59 58.90   0.9
SSF    150.33 356 ePKP  59 59.40   1.1
LBF    150.37 355 ePKP  59 59.40   0.9
         0.8s    24.20nm
AVF    150.61 356 ePKP  59 59.60   0.9
         0.6s    11.25nm
SAL    150.66 346 PKP   00 00.00   1.2
MDI    150.69 347 PKP   59 59.50   0.6
BGF    150.87 357 ePKP  00 00.60   1.4
MFF    150.89   1 ePKP  00 00.40   1.2
         0.8s    26.85nm
HVAR   150.96 336 iPKP  00 00.40   1.0
TCF    151.17 358 ePKP  00 01.10   1.4
         0.6s    11.70nm
ORX    151.18 349 PKP   00 01.06   1.3
MAF    151.22 357 ePKP  00 01.60   1.9
         0.6s    11.70nm
LSF    151.23 358 ePKP  00 01.00   1.3
         0.8s    28.20nm
LPL    151.50 351 ePKP  00 02.80   2.4X
         0.6s     9.00nm
LPG    151.51 351 ePKP  00 03.10   2.6X
         0.6s     9.00nm
RSP    151.77 350 PKP   00 01.78   1.1
BNI    151.96 351 PKP   00 03.30   2.3X
BHB    152.07 350 PKP   00 02.08   1.1
RRL    152.07 350 PKP   00 04.34   3.1X
PCP    152.12 348 PKP   00 02.80   1.7
RJF    152.18 358 ePKP  00 03.30   2.2X
         0.6s     8.10nm
PZZ    152.42 350 PKP   00 03.73   2.1
ROB    152.49 348 PKP   00 03.73   2.1
CAF    152.54 358 ePKP  00 04.40   2.7X
         0.6s     7.65nm
LFF    152.56 360 ePKP  00 03.90   2.3X
         0.6s     4.50nm
ENR    152.64 349 PKP   00 03.32   1.4
STV    152.64 349 PKP   00 03.42   1.5
LPO    152 81 359 ePKP  00 04.80   2.8X
         0.4s     4.60nm
IMI    152.85 348 PKP   00 04.65   2.5X
      S.D. = 1.2  on 102 of 147 obs.
-----------------------------------
?  JUL  10, 1991  23h 56m 15.70±11.68s
   43.113 N ±31.1km  146.644 E ±97.4km
   DEPTH =  33.0km  (normal)
 KURIL ISLANDS                      (221)

KUSJ     1.42 270 iP+   56 37.90  -1.4
                  S     56 54.10
HOOJ     2.58 255 eP    56 57.30   1.3
                  eS    57 29.10
ASAJ     3.07 290 P     57 03.50   0.4
OFUJ     5.51 225 P     57 37.90   0.4
                  S     58 41.10
YAMJ     7.04 228 eP    57 58.40  -0.7
                  eS    59 20.20
      S.D. = 1.5  on   5 of   5 obs.
-----------------------------------
•  JUL  10, 1991  23h 57m 26.41± 1.60s
   51.145 N ±17.4km   15.720 E ± 6.0km
   DEPTH =   5.0km  (geophysicist)
 POLAND                             (548)
      ML 3.3 (GRF), 2.6 (KRA).

KSP      0.47 130 iPd   57 34.30  -1.6
         0.6s    66.00nm
                  iS    57 42.40
BRG      1.15 257 ePn   57 48.20  -0.2
```

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                iPg   57 49.80
                iSg   58 09.00
PRU     1.38 213 Pn   57 52.80    0.5
      0.4s    24.90nm
                Pg    57 55.00
                iSn   58 12.00
                Sg    58 20.30
                e     58 26.30
CLL     1.72 277 iPn  57 54.50   -2.6X
                ePg   57 57.00
                iSg   58 23.60
KHC     2.44 215 Pn   58 08.00    0.4
                Pg    58 14.00
                e     58 36.00
                eSg   58 55.50
HOF     2.58 253 ePn  58 08.60   -0.9
MOX     2.65 261 iPg  58 17.00    6.5X
                iSg   58 57.00
WET     2.71 223 iPnc 58 12.00    0.6
KRA     2.90 110 eP   58 15.40    1.3
                eS    58 51.90
VKA     2.91 172 iPc  58 22.00    7.8X
      0.5s    29.90nm
                e     59 08.40
                i     59 51.30
ZST     3.09 163 eP   58 44.40   27.7X
                i     59 50.30
GRF     3.22 245 iPn  58 18.20   -0.5
                ePg   58 29.80
                eSg   59 16.50
SPC     3.51 122 e(P) 58 30.40    7.6X
KBA     4.36 202 iPnc 58 35.00    0.0
      0.4s     3.00nm
                i     59 54.90
OGA     5.28 218 eP   58 48.50    0.5
    S.D. = 0.9  on  10 of  15 obs.
-----------------------------------
*  JUL  11, 1991  00h 29m 47.07± 0.33s
   17.790 S ±20.3km  178.708 W ±14.3km
   DEPTH = 577.7km  (  8 depth phases)
   4.6mb ( 12 obs.)
 FIJI ISLANDS REGION                (181)

AFI     7.70  61 iPd  31 40.80   -2.8
COO    29.59 239 ePd  35 08.00   -0.1
PMG    34.16 280 eP   35 58.50   11.9X
CMS    34.83 240 iPd  35 52.90    0.8
QLP    35.31 249 iPd  35 56.60    0.6
TOO    37.02 231 iPd  36 11.10    1.1
      1.0s    98.00nm          5.4mb
                i     36 21.20  34kmX
TAU    38.14 222 eP   36 19.00    0.0
STK    38.44 241 iPd  36 22.80    1.2
      0.7s    18.70nm          4.8mb
                ic    36 30.20  25kmX
BFD    39.08 232 iPc  36 25.30   -1.5
WR2    44.35 259 eP   37 08.20   -0.4
WRA    44.37 259 P    37 08.00   -0.8
      0.7s    28.90nm          4.9mb
ASPA   44.55 254 iPd  37 10.50    0.3
      0.7s   175.30nm          5.7mb X
                iS    43 03.00
WARB   51.05 250 eP   37 58.50   -0.5
KLB    58.62 243 eP   38 50.00   -1.7
      0.4s     4.00nm          4.0mb
NWAO   59.01 242 eP   38 53.00   -1.3
      0.6s     3.00nm          3.7mb
    Z  20s     0.60um          4.7Msz
    N  20s     0.40um
    E  20s     0.40um
BAL    59.58 245 eP   38 57.00   -1.0
MUN    59.92 243 eP   39 00.00   -0.3
PRS    76.34  44 ePc  40 39.60    0.7
SAO    76.54  44 eP   40 39.90    0.0
PRI    76.71  45 ePc  40 41.70    0.7
MHC    76.74  43 ePc  40 41.70    0.6
MWC    77.47  48 eP   40 45.00   -0.2
FRI    77.82  45 ePc  40 46.80    0.1
RVR    77.83  48 eP   40 47.00    0.1
PLM    77.87  49 eP   40 47.00   -0.4
SBB    77.88  47 eP   40 47.00   -0.2
PEC    77.93  48 P    40 46.70   -0.8
ISA    77.94  46 eP   40 48.00    0.5
CMB    77.95  43 ePc  40 47.70    0.2
                epP   42 50.20 579km
WDC    78.04  40 ePc  40 48.20    0.4
                epP   42 50.90 580km
CLC    78.63  47 iP+  40 51.00   -0.1
TPC    78.84  49 eP   40 53.00    0.7
GSC    78.91  47 eP   40 53.00    0.3
GLA    79.20  50 eP   40 55.00    0.9
TNP    80.07  45 P    40 58.50   -0.3
                pP    43 01.10 575km
SLKM   81.34  14 P    41 04.10   -0.5
                pP    43 08.90 586km
PMR    82.55  14 P    41 09.50   -1.1
      1.3s    33.96nm          4.7mb
BALM   83.79  17 P    41 16.10   -0.8
PNT    84.80  34 ePc  41 22.00    0.0
NEW    85.58  36 P    41 25.00   -0.8
PV09   85.83  48 P    41 28.00    0.4
ALQ    86.25  52 eP   41 29.20   -0.3
      1.2s     8.59nm          4.4mb
                e     43 34.00 576km
ANMO   86.25  52 P    41 29.40   -0.1
      1.0s     6.25nm          4.3mb
                pP    43 33.20 570km
BW06   87.47  44 P    41 34.50   -0.7
      1.2s     8.68nm          4.4mb
                pP    43 40.00 578km
GOL    88.99  48 P    41 42.30    0.0
      1.1s     5.45nm          4.4mb
GLD    89.12  48 P    41 43.70    0.9
      1.0s    28.00nm          5.1mb
                pP    43 54.50 606kmX
RSSD   91.68  44 P    41 53.70   -0.8
      0.7s     5.19nm          4.7mb
                pP    44 00.10 577km
INK    91.85  15 eP   41 54.00   -0.4
KSP   144.92 343 ePKP 48 22.00    1.9
                e     48 28.50
SPC   145.12 338 e(PKP)48 29.50   8.7X
CLL   145.28 347 ePKP 48 22.00    1.3
      1.1s    11.00nm
                i     48 29.10
                e     50 48.00
BRG   145.48 346 ePKP 48 23.00    2.0
      1.2s    11.00nm
WTS   145.59 354 ePKP 48 23.50    2.4
PRU   146.16 345 ePKP 48 31.70    9.5X
                e     50 40.00
MOX   146.20 348 e(PKP)48 26.00   3.8X
ENN   146.89 355 ePKP 48 32.00    8.7X
      0.6s     6.00nm
ZST   147.04 340 ePKP 48 28.00    4.4X
GRF   147.18 348 ePKP 48 29.90    6.1X
                e     48 35.00
KHC   147.19 345 PKP  48 27.50    3.6X
                e     48 34.50
CDF   149.07 352 ePKP 48 32.30    5.4X
GRR   149.43   3 ePKP 48 32.90    5.6X
      1.0s    12.00nm
HAU   149.58 353 ePKP 48 33.70    6.1X
    Z  20s     0.20um          4.9Msz
BSF   149.70 353 ePKP 48 33.90    6.0X
LPF   149.78   3 ePKP 48 33.90    6.1X
      1.0s    12.00nm
LOR   150.53 356 ePKP 48 35.80    6.7X
      0.8s     4.05nm
    Z  20s     0.15um          4.8Msz
SSF   150.75 357 ePKP 48 36.50    7.1X
      0.8s     4.05nm
LBF   150.80 356 ePKP 48 36.60    7.1X
      0.8s     2.70nm
MFF   151.24   2 ePKP 48 36.50    6.4X
      0.8s     5.35nm
BGF   151.28 358 ePKP 48 37.60    7.4X
      1.0s     8.00nm
TCF   151.57 359 ePKP 48 38.10    7.5X
      0.9s     3.30nm
LSF   151.62 360 ePKP 48 37.90    7.2X
      1.0s     8.00nm
MAF   151.63 358 ePKP 48 38.50    7.8X
      1.0s     6.00nm
    S.D. = 1.0  on  51 of  72 obs.
-----------------------------------
*  JUL  11, 1991  00h 41m 59.18± 0.79s
   45.970 N ± 7.5km   27.022 E ±10.4km
   DEPTH =  27.3 ±  7.9 km
 ROMANIA                            (358)

VRI     0.23 244 iPd  42 03.00   -2.5
BRD     0.45 178 iP   42 10.50    1.7
PPE     0.48  59 iPd  42 10.50    1.3
PTT     1.06 336 iPd  42 18.50    0.3
CFR     1.12 134 iPc  42 18.00   -1.0
IAS     1.28  17 iPc  42 21.00   -0.3
CMP     1.56 244 ePc  42 28.00    2.6X
BUC     1.69 203 eP   42 29.00    1.8
BUC1    1.77 204 eP   42 30.00    1.6
DMK     4.18 172 ePn  43 00.30   -2.5
VTS     4.35 220 eP   43 05.00   -0.2
KDZ     4.47 196 iP   43 08.00    1.1
RZN     4.59 202 iP   43 09.00    0.2
HRT     5.50 159 ePn  43 20.00   -1.4
VAY     5.66 216 ePn  43 23.50   -0.1
    S.D. = 1.6  on  14 of  15 obs.
-----------------------------------
*  JUL  11, 1991  00h 55m 28.83± 0.45s
   1.150 N ± 8.5km  122.586 E ±12.2km
   DEPTH =  39.3km  (  2 depth phases)
   4.7mb (  6 obs.)  4.4Msz (  6 obs.)
 MINAHASSA PENINSULA                (265)

TSM     5.65 304 ePd  56 50.90   -1.7
DAV     6.61  27 eP   57 04.10   -2.0
AAI     7.38 131 eP   57 20.80    3.9X
                eS    58 59.00
KKM     8.00 308 ePc  57 24.80   -0.9
QIZ    21.72 326 eP   00 19.00    0.3
IPM    21.80 279 ePc  00 26.90    7.4X
      1.0s    34.60nm          4.7mb
GZH    23.58 338 eP   00 38.00    1.1
PSI    23.70 274 ePc  00 49.50   11.4X
                e     02 50.00
WR2    23.94 152 eP   00 40.00   -0.5
QZH    23.97 351 eP   00 40.00   -0.6
    Z  20s     0.87um          4.2Msz
PMG    26.62 114 eP   01 05.00   -0.8
ASPA   27.01 157 eP   01 08.50   -0.8
      0.7s    15.90nm          4.8mb
QIS    27.26 143 iPc  01 11.30   -0.3
CHG    29.08 309 eP   01 38.00    9.9X
KMI    30.58 323 eP   01 50.00    8.4X
BAL    32.07 190 eP   01 52.00   -2.4
      0.4s     3.00nm          4.5mb
XAN    35.13 340 P    02 21.00    0.1
TIA    35.25 352 eP   02 26.40    4.6X
    Z  20s     0.70um          4.4Msz
STK    37.47 153 iPd  02 40.70    0.2
      1.0s    13.60nm          4.8mb
TIY    37.57 347 eP   02 45.00    3.6X
    N  18s     0.67um
                S     08 17.00
MAT    38.07  21 eP   02 50.00    4.4X
      2.3s   118.18nm          5.4mb
                eS    08 46.00
SHL    38.28 312 eP   02 49.00    1.3
LZH    38.87 335 eP   03 05.00   12.6X
      2.0s    42.00nm
    Z  22s     0.64um          4.4Msz
    E  15s     0.49um
                sP    03 11.00
                eS    08 36.00
ADE    38.97 159 e(P) 02 54.00    0.8
BJI    39.15 352 eP   03 00.00    5.5X
    Z  22s     0.55um          4.3Msz
                eS    08 40.00
SNY    40.50   1 eP   03 06.00    0.4
    Z  19s     0.90um          4.6Msz
HHC    40.76 347 eP   03 11.40    3.5X
    Z  18s     0.60um          4.5Msz
    N  18s     0.50um
    E  17s     0.45um
                sP    03 30.00
                PP    04 47.00
                PcP   05 25.00
BTO    40.89 345 eP   03 15.00    6.0X
    N  15s     0.40um
    E  15s     0.30um
LSA    41.23 316 eP   03 25.20   12.8X
BFD    42.39 156 iPd  03 19.80   -1.4
CN2    42.54   3 eP   03 30.00    7.7X
                sP    03 45.00
GTA    43.38 334 eP   03 31.40    2.0
      1.0s    10.00nm          4.5mb
    Z  17s     0.60um          4.6MszX
    E  15s     0.60um
                pP    03 42.60   40km
                sP    03 48.00
TOO    43.97 154 eP   03 36.00    1.9
```

11d 01h

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QUE     60.09 304 e(P)  05 43.40   8.3X
MAIO    67.84 309 eP    06 25.00  -0.6
OBN     86.76 325 eP    08 09.00  -1.0
         2.0s   140.00nm          5.8mb X
                e       08 21.00  39km
PEL    145.82 160 ePKP  15 06.00   0.4
MDZ    146.65 162 i(PKP)15 09.30   2.3
CNCB   161.28 147 PKP   15 32.00   4.2X
ZOBO   161.64 145 PKP   15 30.30   2.2
      Z  25s      0.13um
                 i     16 16.00
                 eLR   11 20.00
      S.D. = 1.4  on  24 of  40 obs.
-----------------------------------
*  JUL  11, 1991  01h 12m 37.83± 0.48s
   1.142 N ± 9.8km  122.630 E ±11.2km
   DEPTH =  33.0km  (normol)
   5.0mb (  8 obs.)
 MINAHASSA PENINSULA                (265)

TSM      5.69 303 ePd   14 01.00  -1.3
         0.5s   198.70nm          5.9mb
DAV      6.60  26 eP    14 13.80  -1.2
MKS      7.06 207 iPd   14 28.40   6.8X
AAI      7.34 131 eP    14 27.90   2.4
KKM      8.04 307 ePc   14 34.00  -1.4
         0.5s   44.90nm          5.8mb
IPM     21.84 279 ePc   17 30.70   1.1
PSI     23.74 274 eP    17 59.00  10.8X
                e       19 00.00
WR2     23.91 152 iP    17 49.60  -0.2
ASPA    26.99 157 iPc   18 17.90  -0.8
         0.7s   13.90nm          4.7mb
QIS     27.23 143 eP    18 20.00  -1.0
                i       20 31.00
CHTO    29.12 309 (P)   18 39.80   1.7
                e       18 46.00
BAL     32.07 190 eP    19 02.00  -2.0
         0.8s   28.00nm          5.2mb
STK     37.44 153 iPc   19 49.90   0.0
         0.6s   16.20nm          5.1mb
LZH     38.89 335 eP    20 16.00  13.7X
         1.5s   20.00nm
BJI     39.16 352 eP    20 03.00  -1.2
BFD     42.36 156 iPd   20 29.00  -1.6
         0.6s   24.00nm          5.1mb
TOO     43.95 154 eP    20 45.00   1.4
GUN     44.10 310 P     20 46.22   0.9
PKI     44.29 310 P     20 47.60   0.7
KKN     44.49 310 P     20 48.68   0.3
DMN     44.54 310 P     20 49.20   0.4
GKN     45.09 310 P     20 53.62   0.5
HYB     46.24 293 eP    21 17.00  14.8X
SLR     94.41 244 eP    25 52.00  -4.4X
HFS     98.35 331 eP    26 15.70   2.3
         0.5s    1.60nm          4.8mb
NB2     99.23 333 P     26 26.60   9.2X
         0.8s    1.70nm          4.6mb
LKO    127.36 283 PKP   31 40.68  -1.3
CNCB   161.25 147 ePKP  32 38.00   0.5
LPB    161.41 146 (PKP) 32 45.00   7.5X
ZOBO   161.61 145 ePKP  32 46.00   8.1X
                e       33 24.00
      S.D. = 1.4  on  22 of  30 obs.
-----------------------------------
%  JUL  11, 1991  01h 12m 49.42± 0.68s
   39.369 N ± 5.1km   16.292 E ± 8.3km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN ITALY                     (390)

ACI      0.07 255 P     12 52.00   0.2
CZI      0.19 219 P     12 53.60  -0.1
                eSg     12 57.20
TDS      0.29   7 P     12 54.60  -0.9
                eSg     12 59.60
ROI      0.30  47 P     12 55.40  -0.2
CSI      0.41 360 P     12 58.20   0.5
ORI      0.70  10 P     13 04.30   1.0
MGR      0.95 324 P     13 07.20  -0.4
                eSg     13 22.20
SOI      1.31 188 P     13 13.60   0.0
      S.D. = 0.7  on   8 of   8 obs.
-----------------------------------
   JUL  11, 1991  01h 21m 19.08± 0.65s
   38.259 N ± 7.0km   21.255 E ± 4.7km
   DEPTH =  10.6 ±  3.4 km
   3.9mb (  1 obs.)

 GREECE                             (364)
      MD 3.6 (ATH).

KEK      1.84 322 ePn   21 51.50   0.6
ATH      1.96  98 ePn   21 52.10  -0.5
VLI      2.04 138 ePn   21 54.80   1.0
KZN      2.08  11 ePn   21 55.80   1.3
TPE      2.25 335 iPnc  22 00.00   3.2
VAY      3.22  18 ePn   22 11.00   0.4
TIR      3.26 341 ePn   22 12.00   0.8
LCI      3.29 310 P     22 10.50  -1.1
PHP      3.48 350 ePn   22 13.60  -0.6
LACI     3.58 341 ePn   22 14.90  -0.7
SKO      3.71   2 ePn   22 17.00  -0.6
                e       22 27.50
MMB      3.83  29 iPd   22 14.00  -5.3X
KKB      3.87  21 iP    22 20.00   0.2
SDA      3.99 341 ePn   22 37.40  16.0X
BRT      4.08 311 P     22 23.00   0.2
TDS      4.08 292 P     22 23.90   1.1
SOI      4.10 269 P     22 22.00  -1.1
                eSn     23 15.80
CZI      4.12 285 P     22 23.00  -0.3
                eSn     23 12.60
ORI      4.15 297 P     22 24.30   0.6
CSI      4.15 293 P     22 23.50  -0.4
RDO      4.38  48 ePn   22 27.00  -0.1
VTS      4.58  18 eP    22 30.00   0.0
MGR      4.81 295 P     22 33.10  -0.1
SGO      5.15 298 P     22 38.50   0.6
HVAR     6.12 325 ePn   22 48.30  -3.3X
DUI      6.23 305 P     22 53.70   0.4
SDI      6.67 303 P     23 00.80   1.3
ASS      8.11 309 P     23 18.50  -1.1
ARV      8.19 312 P     23 18.30  -2.4X
VRI      8.62  26 eP    23 25.00  -1.7
CRE      8.85 310 P     23 29.50  -0.4
SFI      9.07 312 P     23 31.50  -1.4
PGD      9.12 311 P     23 32.70  -1.1
FVI     10.41 326 P     23 49.00  -2.3X
EKA     23.70 324 P     26 39.00   7.6X
         1.0s    3.80nm          3.9mb
      S.D. = 1.1  on  29 of  35 obs.
-----------------------------------
?  JUL  11, 1991  01h 43m 28.41± 2.60s
   59.468 N ±13.7km    5.740 E ±31.8km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN NORWAY                    (535)
      MD 1.7 (BER).

KMY      0.36 225 iP    43 35.81   0.0
                iSg     43 41.05
EGD      0.85 342 iP    43 44.81   0.1
                eSg     43 56.13
ASK      1.05 345 eP    43 48.15  -0.1
                eSg     44 02.14
HYA      1.72   7 eP    43 58.49   0.0
      S.D. = 0.1  on   4 of   4 obs.
-----------------------------------
%  JUL  11, 1991  01h 46m 36.22± 1.33s
   42.161 N ± 8.5km   19.680 E ± 7.9km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                         (383)
      ML 1.4 (TTG).

ULC      0.38 239 iPgc  46 44.09   0.1
                iSg     46 49.59
TTG      0.41 311 iPgd  46 44.72   0.1
                iSg     46 50.74
PVY      0.49  27 iPgc  46 45.92  -0.2
                iSg     46 53.47
BDV      0.64 281 iPgd  46 48.72  -0.4
                iSg     46 58.40
IVA      0.73  13 iPgd  46 50.77   0.2
                iSg     47 01.22
NKY      0.82 323 iPgd  46 51.79  -0.4
                iSg     47 04.35
HCY      0.92 289 iPgc  46 53.82   0.0
                iSg     47 07.34
BRY      1.12 312 ePg   46 57.80   0.5
                iSg     47 13.84
PLE      1.19 350 iPgd  46 58.55   0.1
      S.D. = 0.4  on   9 of   9 obs.
-----------------------------------
   JUL  11, 1991  02h 02m 28.21± 0.30s
   16.767 S ± 6.7km  167.438 E ± 7.0km
   DEPTH =  28.0km  (  4 depth phases)

   5.1mb ( 10 obs.)  4.7Msz (  5 obs.)
 VANUATU ISLANDS                    (186)

BKM      1.18 139 iPc   02 49.20   0.3
                iS      03 06.50
PVC      1.28 139 iPc   02 50.20  -0.1
                iS      03 09.00
DZM      5.36 190 iPd   03 47.90  -0.6
                iS      04 49.00
HNR     10.31 314 eP    04 58.00   0.5
                eS      06 52.00
CTAO    20.36 257 iPd   07 06.50   1.0
         0.7s   49.37nm          5.0mb
                iS      11 09.00
QLP     23.64 242 eP    07 39.90   1.8
CMS     24.50 229 iPc   07 48.00   1.6
QIS     26.62 258 eP    08 07.00   0.6
STK     27.85 233 iPd   08 18.20   0.7
         0.8s   33.80nm          5.1mb
BFD     29.93 222 iPc   08 34.60  -1.6
WR2     31.52 259 eP    08 49.50  -0.9
ASPA    32.16 252 iPd   08 55.20  -0.7
         0.7s  136.10nm          6.0mb
      Z  22s     2.00um          4.8Msz
                 i      09 02.90  27km
FORR    38.41 241 eP    09 49.30   0.1
WARB    38.97 249 eP    09 54.10   0.2
COOL    44.31 243 eP    10 37.00  -0.7
         0.7s   27.00nm          5.2mb
NWAO    47.87 241 iPc   11 05.80  -0.1
         0.8s   56.00nm          5.6mb
      Z  20s     0.70um          4.6Msz
      N  20s     0.50um
      E  20s     0.50um
BAL     48.08 244 iPc   11 07.10  -0.4
         0.9s   19.00nm          5.1mb
MRWA    48.61 246 eP    11 11.00  -0.6
MUN     48.63 242 eP    11 11.00  -0.7
WHN     69.43 313 eP    13 42.50   6.5X
CN2     71.47 329 P     13 50.00   1.9
         0.8s   10.00nm          4.9mb
SPA     73.34 180 eP    14 05.00   5.8X
         1.0s   12.50nm          4.9mb
BJI     73.95 321 eP    14 01.50  -1.3
TIY     74.86 318 eP    14 07.00  -1.3
XAN     75.18 313 P     14 08.50  -1.7
KMI     75.52 302 Pd    14 12.50   0.0
                pP      14 21.00  27km
LZH     79.81 313 eP    14 36.00   0.1
         1.5s   20.00nm          4.9mb
      Z  25s     0.27um          4.5MszX
                 pP      14 45.00  29km
                 sP      14 49.50
GTA     84.19 314 P     14 58.00  -0.5
         1.0s   10.00nm          5.0mb
                 pP      15 07.40  30km
SOB1   141.90 131 ePKP  21 56.30  -3.9X
HAU    145.19 338 ePKP  22 02.10  -2.7
         1.0s   16.00nm
      Z  20s     0.08um          4.5Msz
ARV    145.68 326 PKP   22 05.10  -0.7
SFI    145.95 328 PKP   22 05.20  -1.0
ROI    145.97 318 PKP   22 05.60  -0.9
CSI    146.03 318 PKP   22 05.40  -1.1
PGD    146.05 328 PKP   22 04.80  -1.8
CRE    146.11 327 PKP   22 07.90   1.3
ASS    146.12 326 PKP   22 10.00   3.4X
MME    146.33 329 PKP   22 10.90   3.7X
SDI    146.38 323 PKP   22 08.10   1.0
BOB    146.50 331 PKP   22 05.40  -1.8
MNS    146.57 325 PKP   22 06.60  -0.7
FLN    146.60 345 ePKP  22 05.80  -1.3
         1.0s   14.00nm
      Z  20s     0.10um          4.6Msz
LDF    146.67 345 ePKP  22 06.20  -1.0
         1.2s   23.80nm
LOR    146.70 339 ePKP  22 06.70  -0.6
         0.8s   12.10nm
      Z  20s     0.15um          4.8Msz
LBF    146.90 339 ePKP  22 07.70   0.0
         1.0s   10.00nm
SSF    146.99 340 ePKP  22 07.70  -0.1
         0.8s   16.80nm
GRR    147.04 346 ePKP  22 07.60  -0.2
         1.0s   16.00nm
LPL    147.10 335 ePKP  22 08.80   0.5
         0.6s    4.50nm
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LPG    147.11 335 ePKP  22 08.70    0.3
        0.8s      8.05nm
SOI    147.12 316 PKP   22 08.70    0.5
SMF    147.24 339 ePKP  22 08.40    0.2
        0.8s      4.05nm
AVF    147.28 340 ePKP  22 08.20    0.0
        1.0s      8.00nm
LPF    147.42 346 ePKP  22 08.60    0.2
        1.0s     16.00nm
BGF    147.65 340 ePKP  22 09.50    0.6
        0.8s     13.45nm
MAF    148.04 340 ePKP  22 10.60    1.1
        0.8s      3.35nm
TCF    148.10 340 ePKP  22 10.80    1.2
        0.8s      9.40nm
SBF    148.12 332 ePKP  22 10.60    0.8
        0.8s     14.80nm
LSF    148.35 341 ePKP  22 11.10    1.1
        0.8s      9.40nm
PGF    148.38 329 ePKP  22 11.40    1.1
        0.8s     16.10nm
MFF    148.51 344 ePKP  22 12.80    2.6
        0.8s      8.05nm
FRF    148.71 333 ePKP  22 12.40    1.7
        0.8s      5.35nm
LMR    148.95 332 ePKP  22 13.00    2.0
        0.8s      5.35nm
      S.D. = 1.1  on  57 of  62 obs.
-----------------------------------
    JUL  11, 1991  03h 16m 00.05± 0.23s
    57.920 S ± 6.8km   25.449 W ± 8.2km
    DEPTH =  33.0km  (normol)
    5.4mb (  8 obs.)
 SOUTH SANDWICH ISLANDS REGION    (153)
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 15S, 31C
      Centroid Location:
      Origin Time        03:16: 7.2 0.5
      Lat 57.99S 0.09 Lon  24.53W 0.12
      Dep  32.9 5.9 Half-duration  1.6
      Moment Tensor;    Scale 10**16 Nm
        Mrr= 7.76 0.63  Mtt=-2.54 0.89
        Mff=-5.22 0.55  Mrt=-3.07 1.13
        Mrf=-2.26 1.32  Mtf= 3.83 0.70
       Principal Axes:
        T  Val=  9.34  Plg=67  Azm=145
        N       -1.41      23       325
        P       -7.93       0        55
      Best Double Couple:Mo=8.6*10**16
       NP1:Strike=166 Dip=49 Slip= 120
       NP2:        304     49        60
AIA    19.58 232 eP     20 28.70    0.9
NVL    20.18 144 ePc    20 34.00    0.0
                 e      20 47.00
                 e      20 52.00
                 ePP    20 58.00
                 ePPP   21 18.00
                 (S)    24 18.00
                 e      24 29.00
                 ePcP   24 40.00
SPA    32.25 180 iPc    22 28.50    1.2
       1.3s    68.33nm          5.4mb
BMA    37.70 331 eP     23 15.90    1.9
                 e      23 18.60
VAO    38.18 327 iPd    23 20.30    2.2
                 e      23 24.20
SBA    44.27 184 iPc    24 09.30    1.9
BAO    45.46 329 ePc    24 19.20    1.5
SIV    49.55 313 iPc    24 48.20   -1.4
SOB1   50.04 340 eP     24 53.30    0.0
                 e      24 55.50
                 e      24 59.80
                 i      25 08.10
CCH    50.40 306 (P)    24 56.00   -0.4
CNCB   51.70 304 P      25 06.20   -0.4
                 i      26 21.00
LPB    52.00 304 P      25 08.00   -0.7
ARE    53.59 301 eP     25 20.00   -0.3
BUL    54.28  70 iPd    25 25.30    0.1
KRI    57.59  68 eP     25 48.20   -0.8
LSZ    58.21  66 iPd    25 53.50    0.1
MTD    58.61  70 iPd    25 55.40   -0.7
LIC    66.04  22 Pc     26 46.08    0.7
       0.5s     22.00nm          5.5mb
     Z  20s      0.13um          4.1MszX
KIC    66.23  23 Pc     26 47.04    0.4
       0.6s     16.00nm          5.3mb
TIC    66.45  22 Pc     26 48.68    0.6
       0.5s     21.00nm          5.5mb
LKO    69.16  21 Pc     27 05.48    0.4
       0.6s     26.00nm          5.5mb
LTZ    78.58 193 eP     27 59.90    0.5
TAU    79.36 175 eP     28 03.00   -0.6
THZ    79.50 194 P      28 04.60    0.1
BFD    84.73 170 eP     28 29.50   -2.1
FORR   88.82 157 eP     28 52.20    0.5
STK    89.88 169 iPd    28 57.20    0.5
       0.7s      3.40nm          4.7mb
ASPA   96.91 161 iPd    29 28.80   -0.3
       0.8s     11.20nm          5.4mb
WRA   100.63 161 Pdiff  29 45.00   -0.8
       0.5s      1.70nm          4.9mb
ALQ   114.43 297 ePKP   34 36.00   -1.8
       1.0s      1.75nm
ANMO  114.44 297 PKP    34 37.00   -0.8
SCH   117.24 335 ePKP   34 41.00   -1.2
GOL   117.77 301 PKP    34 43.20   -0.8
PV09  118.57 297 PKP    34 44.80   -0.8
PEC   118.86 288 PKP    34 45.50   -0.5
RVR   119.05 288 ePKP   34 46.00   -0.3
GSC   119.79 290 ePKP   34 48.00    0.2
SBB   119.82 288 ePKP   34 48.00    0.2
CLC   120.59 289 ePKP   34 49.00   -0.2
RSSD  120.71 305 PKP    34 47.80   -1.6
ISA   120.92 289 ePKP   34 50.00    0.1
HFS   121.67  22 ePKP   34 48.30   -2.1
       0.4s      0.90nm
NB2   122.03  20 PKP    34 50.20   -1.0
       1.0s      3.50nm
BW06  122.14 300 PKP    34 50.30   -1.9
TNP   122.17 291 PKP    34 52.00   -0.4
PRI   122.40 287 ePKPc  34 53.10    0.4
FRI   122.57 289 ePKP   34 53.30    0.5
PRS   122.91 287 ePKPc  34 54.70    1.2
CMB   123.72 289 ePKPc  34 55.80    0.6
MHC   123.83 287 ePKPc  34 56.70    1.2
NUR   124.44  27 ePKP   34 58.00    2.3
BKS   124.54 287 iPKPc  34 57.40    0.7
       0.7s     47.00nm
BGMT  125.17 300 ePKPc  34 58.80    0.8
ORV   125.44 289 ePKP   34 56.70   -1.7
FRB   125.74 338 ePKP   34 57.00   -1.2
MIN   126.09 290 ePKP   35 00.00    0.1
KAF   126.23  27 iPKP   34 58.50   -0.7
       0.4s      2.40nm
WDC   126.74 289 ePKPc  35 00.40   -0.5
FFC   128.08 314 ePKP   35 03.00    0.0
       0.9s     10.00nm
SES   128.57 305 ePKP   35 04.00   -0.1
NEW   129.76 300 PKP    35 05.00   -1.4
PNT   131.67 299 ePKPc  35 10.00    0.0
YKA   138.19 316 ePKP   35 09.90  -12.0X
       0.4s      1.30nm
GTA   140.66  94 ePKP   35 29.60    2.3
NJ2   144.55 121 PKPc   35 33.00   -1.0
                 pPKP   35 46.40
SSE   144.78 125 PKPd   35 31.50   -2.9X
TIY   146.00 108 PKPc   35 36.00   -0.5
MBC   146.08 335 iPKPc  35 36.40    1.1
       0.6s     42.00nm
BTO   146.92 102 PKP    35 40.00    2.1
TIA   147.16 115 ePKP   35 40.30    2.0
INK   147.85 318 ePKP   35 41.00    2.7X
       0.7s     61.00nm
HHC   147.90 103 ePKP   35 42.80    3.3X
BALM  148.90 303 PKP    35 39.70   -0.7
BJI   149.67 109 ePKP   35 47.00    5.0X
TOA   150.99 304 ePKPc  35 50.90    7.4X
DL2   151.46 117 ePKP   35 51.20    6.4X
PMR   152.16 302 ePKPc  35 52.80    7.7X
       0.5s     24.50nm
SLKM  152.31 299 PKP    35 52.00    6.6X
KDC   152.40 293 ePKPc  35 53.50    8.0X
FBA   152.46 309 ePKPc  35 52.80    7.4X
       0.4s     27.60nm
SVW   155.02 299 ePKP   35 58.10    9.0X
IMA   155.07 311 ePKP   35 58.90    9.8X
TTA   155.61 303 ePKPc  36 00.60   10.7X
       0.9s     19.40nm
      S.D. = 1.1  on  69 of  83 obs.
-----------------------------------
?  JUL  11, 1991  03h 48m 04.47± 0.65s
    14.219 S ±10.2km  166.850 E ±17.6km
    DEPTH =  33.0km  (normol)
    4.4mb (  2 obs.)
  VANUATU ISLANDS                  (186)
BKM      3.68 159 iP     49 01.30    0.8
DZM      7.82 183 iPd    49 57.90   -1.0
                  iS     51 16.90
STK     29.02 228 eP     54 03.70    0.0
        0.4s      4.50nm          4.5mb
ASPA    32.48 248 eP     54 35.00    0.6
        1.1s      4.20nm          4.2mb
SSF    144.42 340 ePKP   07 38.00   -1.1
        0.9s      9.85nm
LPL    144.56 336 ePKP   07 38.90   -0.8
        0.8s      3.35nm
LPG    144.57 336 ePKP   07 39.30   -0.5
        0.8s      4.70nm
SBF    145.61 333 ePKP   07 41.10   -0.2
        0.9s      9.85nm
PGF    145.91 330 ePKP   07 43.20    1.3
        0.8s      5.35nm
MFF    145.92 344 ePKP   07 42.30    0.7
        0.8s      5.35nm
      S.D. = 0.9  on  10 of  10 obs.
-----------------------------------
&  JUL  11, 1991  04h 01m 11.95s
    61.928 N          151.480 W
    DEPTH =  83.7km
  SOUTHERN ALASKA                  (  2)
      <AEIC>.
SKT      0.06 336 iPd    01 23.29    1.0
                  eS     01 32.38
SUA      0.58 143 iPc    01 26.97   -0.2
                  iS     01 39.16
NCG      0.62 212 iPd    01 26.79   -0.6
                  S      01 39.02
CGLM     0.67 202 iPd    01 27.14   -0.8
                  S      01 40.27
CUT      0.74  49 iPc    01 27.79   -0.7
BGL      0.80 214 iPd    01 28.83   -0.4
SPU      0.80 200 iPd    01 28.35   -0.9
                  eS     01 41.32
PWA      0.81 109 iPc    01 29.40    0.1
CKL      0.84 210 iPd    01 29.04   -0.7
PMS      1.15 126 eP     01 32.76   -0.6
                  S      01 49.06
PLRM     1.17 106 eP     01 32.32   -1.2
                  S      01 49.60
PMR      1.17 106 eP     01 33.10   -0.4
NKA      1.19 174 eP     01 35.34    1.5
GHO      1.22  96 ePc    01 33.53   -0.8
                  eS     01 51.23
HUR      1.36  38 iPc    01 35.05   -0.9
                  eS     01 52.56
RDT      1.43 199 ePd    01 36.25   -0.7
                  eS     01 55.86
DFR      1.46 204 ePd    01 36.81   -0.6
KNK      1.53 108 ePc    01 37.17   -1.1
RDN      1.55 204 ePd    01 38.03   -0.6
                  eS     01 58.22
SLKM     1.55 156 eP     01 37.72   -0.8
REF      1.56 203 iPd    01 38.41   -0.4
                  eS     01 59.56
RDW      1.59 205 iPd    01 38.82   -0.3
                  eS     01 59.12
TRF      1.62  19 iPc    01 38.61   -1.0
                  eS     01 59.21
RED      1.64 203 iPd    01 39.26   -0.5
                  S      02 00.19
                  eS     02 01.12
KTH      1.65   9 ePd    01 38.80   -1.1
                  S      01 58.96
NNL      1.89 177 ePc    01 43.84    0.8
RND      1.92  38 eP     01 42.20   -1.2
                  eS     02 05.72
IVS      2.08 203 eP     01 45.21   -0.6
SEW      2.08 151 eP     01 46.76    1.2
SVW      2.15 249 ePd    01 45.60   -1.0
MCK      2.16  32 eP     01 45.80   -0.8
BRLK     2.19 172 eP     01 47.20    0.1
TTA      2.34 297 ePc    01 47.60   -1.5
GLI      2.36 115 eP     01 46.55   -2.8
KNIM     2.41 129 eP     01 46.91   -3.2
CNPM     2.41 177 eP     01 49.85   -0.3
TOA      2.51  84 eP     01 50.80   -0.7
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11d 04h

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VZW      2.52 108 eP     01 49.81  -1.8
PDB      2.52 213 iPd    01 51.05  -0.6
                  eS     02 21.88
LTI      2.59 135 eP     01 49.63  -2.9
VLZ      2.59 106 eP     01 50.23  -2.3
KLU      2.68  97 eP     01 51.66  -2.3
SDG      2.84  75 eP     01 54.90  -1.2
TZL      2.86  85 eP     01 55.75  -0.5
NEA      2.87  21 ePc    01 54.30  -2.1
WRH      2.98  30 eP     01 55.86  -2.0
PAX      2.98  67 ePd    01 56.50  -1.6
CCB      3.19  30 eP     01 58.42  -2.4
CDD      3.19 201 eP     02 00.33  -0.6
RDS      3.27  26 eP     02 00.12  -1.9
MDM      3.37  24 ePc    02 01.25  -2.2
FBA      3.41  27 eP     02 01.60  -2.3
GLM      3.58  29 eP     02 04.55  -1.7
GLB      3.69  94 eP     02 05.19  -2.6
CROM     4.19 103 eP     02 13.26  -1.6
IMA      4.27 348 eP     02 13.67  -2.3
BALM     4.47  98 eP     02 15.67  -3.1
        57 obs. associated
-----------------------------------------
*  JUL  11, 1991  05h 58m 18.82± 1.19s
   41.955 N ±12.4km   43.578 E ±17.0km
   DEPTH =  33.0km  (normal)
   4.0mb (  3 obs.)
 TURKEY-USSR BORDER REGION          (367)

MSL      5.58 184 eP     59 41.00  -0.6
                  e      00 27.00
KVT      5.72 264 ePn    59 45.60   1.9
VRI     12.77 294 eP     01 26.00   5.3X
MLR     13.23 291 ePd    01 25.00  -2.0
OBN     13.93 343 eP     01 50.50  14.6X
        0.9s  *******nm
CLL     22.84 305 e(P)   03 20.00   0.1
HFS     25.80 325 eP     03 47.00  -1.2
        0.6s      6.60nm          4.4mb
      Z  17s      0.06um          3.2MszX
                LR     13 30.00
NB2     27.32 325 P      04 03.20   1.0
        0.9s      3.00nm          3.9mb
FBA     73.11   5 (P)    09 48.20   1.0
YKA     74.43 350 eP     09 54.70  -0.2
        0.8s      0.70nm          3.7mb
      S.D. = 1.5  on   8 of  10 obs.
-----------------------------------------
%  JUL  11, 1991  06h 50m 44.85± 1.55s
   40.025 N ±12.3km   24.236 E ± 9.0km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                         (365)

OUR      0.37 328 ePd    50 51.60  -0.8
PAIG     0.44 257 iPd    50 53.01  -0.8
                  eS     50 59.84
SOH      1.04 320 ePc    51 04.92   0.4
                  eS     51 19.24
SRS      1.20 336 ePd    51 06.16  -1.0
                  eS     51 22.60
KNT      1.53 319 ePd    51 13.00   0.8
                  eS     51 33.48
ALN      1.63  57 ePc    51 13.60  -0.1
                  eS     51 36.56
GRG      1.68 304 ePc    51 15.84   1.4
                  eS     51 41.12
      S.D. = 1.1  on   7 of   7 obs.
-----------------------------------------
*  JUL  11, 1991  09h 06m 24.46± 0.69s
   53.313 N ±11.8km  170.171 E ± 8.0km
   DEPTH =  33.0km  (normal)
   4.2mb (  5 obs.)
 NEAR ISLANDS, ALEUTIAN ISLANDS  (  5)

SMY      2.45 102 eP     07 02.50  -0.4
TTA     20.05  48 eP     10 57.00  -0.3
YAK     22.96 308 eP     11 26.60   0.1
FBA     23.99  45 eP     11 37.00   0.6
MBC     34.44  24 eP     13 10.50   0.2
        0.6s      3.00nm          4.4mb
YKA     38.78  46 eP     13 47.00  -0.1
        0.4s      0.50nm          3.7mb
PNT     42.45  66 eP     14 18.00   0.5
NAO     65.02 349 P      17 02.60  -0.4
        0.5s      1.90nm          4.4mb
HFS     65.34 347 eP     17 04.50  -0.5
        0.5s      2.20nm          4.5mb
WRA     79.26 214 P      18 28.00   0.2
        1.0s      1.20nm          3.8mb
      S.D. = 0.4  on  10 of  10 obs.
-----------------------------------------
&  JUL  11, 1991  09h 08m 45.83s
   58.763 N          143.533 W
   DEPTH =  10.0km  (geophysicist)
 GULF OF ALASKA                     ( 15)
      <AEIC>. ML 2.6 (AEIC).

MID      1.59 296 eP     09 09.75  -4.3
                  eS     09 28.17
HMT      1.62 347 iP     09 09.97  -4.6
                  iS     09 30.23
WAX      1.73  11 eP     09 11.14  -5.0
                  eS     09 31.52
RAGM     1.73 341 eP     09 11.41  -4.7
                  S      09 32.58
SGAM     1.94 335 eP     09 14.70  -4.5
                  eS     09 38.68
CROM     2.01   6 iP     09 15.24  -5.1
                  eS     09 39.27
TGL      2.03  10 iP     09 15.33  -5.2
                  S      09 39.96
CVA      2.11 329 eP     09 16.25  -5.4
                  S      09 41.87
YKU      2.11  66 eP     09 17.31  -4.3
                  eS     09 40.58
HIN      2.23 319 iP     09 18.53  -4.8
PNL      2.31  65 eP     09 18.23  -6.3
BCPM     2.33  57 eP     09 18.81  -5.9
BALM     2.36  14 iP     09 19.94  -5.4
                  eS     09 46.86
MTU      2.44 302 eP     09 20.76  -5.6
CTGM     2.47  26 eP     09 21.52  -5.4
                  S      09 49.23
HON      2.50  72 eP     09 20.61  -6.6
                  S      09 49.12
LTI      2.55 302 iP     09 22.23  -5.7
KNIM     2.67 308 eP     09 23.73  -5.9
                  eS     09 54.33
GLB      2.69 357 eP     09 24.61  -5.4
                  eS     09 55.21
VZW      2.76 328 eP     09 25.30  -5.7
VLZ      2.76 331 eP     09 25.11  -5.8
GLI      2.78 321 eP     09 25.38  -5.9
KLU      2.99 337 iP     09 28.64  -5.5
SEW      3.31 297 eP     09 33.48  -5.2
TZL      3.42 345 eP     09 35.66  -4.6
TOA      3.60 340 eP     09 37.94  -4.9
KNK      3.63 319 eP     09 38.00  -5.2
SLKM     3.82 300 eP     09 39.89  -6.1
SDG      3.90 346 eP     09 42.68  -4.5
PMS      3.92 312 eP     09 42.69  -4.7
PLRM     3.98 318 eP     09 42.86  -5.3
GHO      4.04 321 eP     09 45.77  -3.3
CNPM     4.04 284 eP     09 44.02  -5.0
PAX      4.33 348 eP     09 48.58  -4.7
SYI      4.63 272 eP     09 52.45  -4.9
KDC      4.84 262 eP     09 56.33  -4.1
SPU      4.92 303 eP     09 57.19  -4.4
IVS      5.04 288 eP     09 58.11  -5.3
NCG      5.06 305 eP     09 59.19  -4.5
SKT      5.11 313 eP     09 58.22  -6.1
CDD      5.25 276 eP     10 01.42  -4.9
        41 obs. associated
-----------------------------------------
%  JUL  11, 1991  11h 01m 18.43± 0.87s
   42.226 N ± 7.7km   13.660 E ± 9.2km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                      (381)

AQU      0.23 304 P      01 22.20  -1.2
                  eSg    01 27.40
SDI      0.53 167 P      01 28.30  -0.9
                  eSg    01 37.50
MNS      0.74 283 P      01 32.70  -0.3
                  eSg    01 45.00
DUI      0.82 133 P      01 34.80   0.4
RDP      0.84 237 P      01 35.90   1.1
ASS      1.12 319 P      01 40.00   0.5
                  eSg    01 58.00
ARV      1.38 338 P      01 44.00   0.3
                  eSn    02 03.50
      S.D. = 1.0  on   7 of   7 obs.
-----------------------------------------
%  JUL  11, 1991  12h 49m 10.01± 0.53s
   42.895 N ± 4.5km   13.037 E ± 7.1km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                      (381)

ASS      0 33 303 Pd     49 16.10  -0.7
                  eSg    49 21.40
MNS      0.57 207 Pc     49 20.40  -1.3
                  eSg    49 30.20
AQU      0.61 153 P      49 21.50  -0.8
                  eSg    49 33.00
ARV      0.61 353 Pd     49 21.40  -0.9
                  eSg    49 31.70
CRE      1.08 313 P      49 30.40   0.0
                  eSn    49 46.90
RSM      1.12 338 P      49 32.30   1.4
RDP      1.16 192 P      49 32.40   0.7
                  eSn    49 50.90
SDI      1.32 154 P      49 34.00  -0.5
SFI      1.34 320 P      49 34.80   0.1
PGD      1.37 316 Pc     49 34.90  -0.4
MAO      1.47 252 P      49 37.20   0.7
DUI      1.62 139 P      49 40.40   1.6
8DI      2.12 304 P      49 47.00   0.9
MME      2.14 308 P      49 46.50   0.1
FVI      3.70 357 P      50 07.50  -0.9
      S.D. = 1.0  on  15 of  15 obs.
-----------------------------------------
%  JUL  11, 1991  14h 08m 22.99± 0.82s
   44.968 N ± 8.6km    8.856 E ± 5.9km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                     (545)

BOB      0.47 115 P      08 32.70   0.2
                  eSg    08 40.40
CKI      0.68 217 P      08 36.40  -0.1
                  eSg    08 45.70
MDI      1.01  36 P      08 42.00  -0.1
                  eSg    08 57.00
DOI      1.24 249 P      08 46.20   0.1
                  eSg    09 02.90
MME      1.53 120 P      08 51.00   0.4
                  eSn    09 10.00
BDI      1.54 125 P      08 50.00  -0.6
                  eSn    09 09.80
      S.D. = 0.4  on   6 of   6 obs.
-----------------------------------------
?  JUL  11, 1991  14h 25m 52.91± 0.96s
   39.149 N ± 7.9km   27.639 E ± 9.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)
      MD 2.7 (ISK).

IZM      0.81 202 iPg    26 08.60   0.0
                  eSg    26 21.10
DST      0.89  59 ePn    26 10.00  -0.1
EZN      1.22 304 ePn    26 15.50  -0.1
KGT      1.33 349 iPn    26 17.50   0.1
      S.D. = 0.2  on   4 of   4 obs.
-----------------------------------------
?  JUL  11, 1991  14h 36m 24.79± 0.91s
   41.205 N ±13.1km   28.540 E ± 7.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)
      MD 2.6 (ISK).

CTT      0.10 235 iPg    36 27.50   0.0
                  iSg    36 30.00
ISK      0.42 109 ePg    36 33.00  -0.3
DMK      0.85 317 ePn    36 41.20   0.0
HRT      0.94 114 ePn    36 43.00   0.3
      S.D. = 0.4  on   4 of   4 obs.
-----------------------------------------
?  JUL  11, 1991  14h 55m 49.45± 0.92s
   41.150 N ±17.5km   28.489 E ± 8.5km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)
      MD 2.6 (ISK).

CTT      0.05 266 iPg    55 51.50  -0.1
                  iSg    55 54.00
ISK      0.44 101 iPg    55 58.00  -0.4
DMK      0.87 321 iPn    56 06.20   0.1
HRT      0.95 110 ePn    56 08.00   0.4
      S.D. = 0.6  on   4 of   4 obs.
-----------------------------------------
   JUL  11, 1991  15h 19m 14.51± 0.70s
   26.364 S ± 5.3km   27.185 E ±10.3km
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   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA          (584)
      mbLg 3.3 (BUL).

PRY      0.62 155 iPc    19 28.00    1.1
       0.5s   162.16nm
                 S      19 33.00
SLR      1.17  5B eP     19 37.00    0.1
                 S      19 49.40
FRS      3.75 206 iPc    20 13.30   -1.0
                 S      20 54.40
HVD      4.48 199 eP     20 25.00    0.2
                 S      21 12.70
JOZ      4.50 105 eP     20 24.20   -0.7
                 S      21 11.50
BUL      6.33  12 iPn    20 52.00    1.0
                 iSn    22 00.00
                 iSg    22 32.00
KRI      9.75  14 iPn    21 39.00    0.3
                 iSn    23 23.80
                 iSg    24 19.90
CER      9.77 223 eP     21 15.00 -23.8X
                 S      22 57.50
MTD     10.38  24 iPn    21 46.20   -1.0
                 iSn    23 36.50
                 iLg    24 41.00
LSZ     11.07   5 iPn    21 58.00    1.3
                 eSn    23 57.00
                 iSg    25 10.20
PTZ     12.67  19 ePn    22 17.00   -1.3
                 eSn    24 30.00
                 iSg    25 47.40
     S.D. = 1.1  on  10 of  11 obs.
-----------------------------------
?  JUL  11, 1991  16h 39m 49.70± 1.07s
   14.334 N ±13.7km  121.069 E ±21.3km
   DEPTH =  33.0km  (normal)
   4.8mb (  3 abs.)
 LUZON, PHILIPPINE ISLANDS         (249)

WHN     17.28 340 eP     43 50.00    0.0
KMI     20.29 305 eP     44 24.00   -1.8
CHG     21.66 285 eP     44 40.00    0.4
XAN     22.49 333 P      44 46.30   -1.5
TIY     24.52 343 eP     45 07.60    0.1
     N  12s      0.48um
BJI     25.97 351 eP     45 21.50    0.5
LZH     26.60 328 eP     45 27.50    0.4
        2.0s     60.00nm          4.9mb
     Z  15s      0.24um          3.9MszX
                 pP       45 40.00  49kmX
HHC     27.69 344 eP     45 37.00    0.1
GTA     31.20 327 eP     46 08.20   -0.1
        2.0s     20.00nm          4.6mb
WR2     36.49 159 eP     46 53.40   -0.5
        0.3s      4.00nm          4.8mb
MAIO    58.82 304 eP     49 50.00    2.4
     S.D. = 1.2  on  11 of  11 obs.
-----------------------------------
   JUL  11, 1991  16h 41m 45.67± 0.38s
   41.366 N ± 4.1km   20.958 E ± 3.6km
   DEPTH =   4.0 ±  3.4 km
 ALBANIA                           (391)
      ML 3.4 (SKO). Felt (IV) in the
      Kicevo-Krusevo area, Yugoslavia.

OHR      0.28 205 iPg     41 51.30   -0.1
PHP      0.50 310 ePg     41 53.90   -1.9
FNA      0.66 151 iPc     41 58.56   -0.4
                 eS       42 09.04
SKO      0.70  31 iPg     41 59.00   -0.7
                 iSg      42 08.40
TIR      0.82 269 ePg     42 02.00   -0.1
LACI     0.98 286 ePg     42 02.80   -1.9
GRG      1.16 110 ePc     42 07.56   -0.4
                 eS       42 23.92
VAY      1.21  92 iPn     42 08.40   -0.4
                 iSn      42 23.60
SDA      1.27 301 ePn     42 09.40   -0.4
TPE      1.29 214 ePg     42 11.50    1.4
ULC      1.41 296 iPgd    42 11.50   -0.7
                 iSg      42 31.38
PVY      1.43 329 iPgd    42 11.93   -0.6
                 iSg      42 30.65
KNT      1.48  97 iPc     42 13.33    0.3
                 eS       42 33.00
TTG      1.65 311 iPgc    42 16.45    0.9
                 iSg      42 38.00
IVA      1.70 333 iPgd    42 17.16    0.9
                 iSg      42 39.83
LIT      1.72 137 ePc     42 16.60    0.1
                 eS       42 40.32
BDV      1.84 301 iPnd    42 19.46    1.2
                 iSn      42 43.78
SOH      1.89 106 ePc     42 19.32    0.2
                 eS       42 45.32
IGT      1.89 195 ePc     42 20.68    1.6
                 eS       42 48.52
SRS      2.00  96 ePc     42 20.08   -0.6
                 eS       42 51.00
NKY      2.05 315 iPnc    42 22.58    1.1
                 iSn      42 49.28
HCY      2.13 301 iPnc    42 23.46    1.0
                 iSn      42 50.18
PLE      2.28 330 iPnd    42 25.91    1.2
                 iSn      42 54.66
BRY      2.36 311 iPnc    42 27.91    1.9
                 iSn      42 56.53
LCI      2.50 247 P       42 26.00   -1.8
AGG      2.57 155 ePd     42 28.64   -0.1
                 eS       43 00.44
MGR      4.28 255 P       42 53.00   -0.1
                 eSn      43 41.50
SGO      4.35 261 P       42 52.50   -1.6
                 eSn      43 40.80
     S.D. = 1.1  on  28 of  28 obs.
-----------------------------------
%  JUL  11, 1991  16h 52m 27.75± 0.60s
   42.948 N ± 5.4km   19.227 E ± 4.5km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                        (383)
      ML 1.2 (TTG).

NKY      0.22 231 iPgd    52 33.25    0.8
                 iSg      52 36.46
PLE      0.40  18 iPgd    52 35.95    0.0
                 iSg      52 42.11
IVA      0.50  99 iPgc    52 37.93    0.0
                 iSg      52 45.03
BRY      0.50 265 iPgd    52 37.86   -0.2
                 iSg      52 45.36
TTG      0.52 177 ePg     52 38.03   -0.2
                 iSg      52 46.06
PVY      0.65 122 iPgc    52 40.96    0.1
                 iSg      52 50.16
BDV      0.73 204 iPgc    52 42.03    0.0
                 iSg      52 53.00
HCY      0.73 227 iPgd    52 41.70   -0.5
                 iSg      52 52.93
     S.D. = 0.4  on   8 of   8 obs.
-----------------------------------
&  JUL  11, 1991  16h 59m 08.22s
   63.409 N          151.461 W
   DEPTH =   9.8km
 CENTRAL ALASKA                    (  1)
      <AEIC>. ML 2.6 (AEIC).

KTH      0.28  59 eP      59 13.68   -0.5
                 eS       59 18.44
TRF      0.53  85 eP      59 18.45   -0.5
                 eS       59 26.82
HUR      0.93 117 eP      59 26.51    0.4
                 S        59 39.99
CUT      1.15 151 iP      59 30.07    0.4
BWN      1.17  48 eP      59 30.16    0.1
RND      1.17  89 eP      59 30.42    0.2
                 eS       59 45.81
MCK      1.18  73 eP      59 30.05   -0.2
SKT      1.43 181 eP      59 34.04   -0.3
                 eS       59 53.04
NEA      1.57  41 eP      59 37.10    0.8
                 eS       59 57.07
WRH      1.83  53 eP      59 39.57   -0.4
PWA      1.91 157 eP      59 41.76    0.6
                 eS       00 07.66
SUA      1.98 170 eP      59 42.68    0.4
GHO      2.02 143 eP      59 43.03    0.2
                 eS       00 08.78
CCB      2.03  51 eP      59 43.42    0.5
RDS      2.04  44 eP      59 44.58    1.6
NCG      2.04 189 eP      59 43.16    0.0
MDM      2.10  41 eP      59 42.62   -1.3
PLRM     2.12 14B eP      59 44.43    0.3
TTA      2.12 259 eP      59 43.15   -1.1
CGLM     2.12 187 eP      59 44.30    0.0
BGL      2.20 192 eP      59 45.72    0.3
SPU      2.25 187 eP      59 46.08   -0.1
CKL      2.26 191 eP      59 47.19    0.9
PMS      2.35 157 eP      59 48.52    1.0
KNK      2.44 144 eP      59 49.62    0.8
TOA      2.76 116 eP      59 54.55    1.1
IMA      2.83 341 eP      59 54.18   -0.3
SLKM     2.97 168 eP      59 58.08    1.8
KLU      3.21 124 eP      00 00.50    0.7
GLI      3.26 139 eP      00 01.01    0.6
     30 obs. associated
-----------------------------------
%  JUL  11, 1991  17h 52m 09.05± 1.28s
   43.016 N ±10.3km   18.731 E ± 9.3km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                        (383)
      ML 1.2 (TTG).

BRY      0.18 230 iPgd    52 13.65    0.5
                 iSg      52 16.00
NKY      0.28 136 iPgc    52 15.67    0.7
                 iSg      52 22.14
PLE      0.58  57 iPgc    52 20.67   -0.2
                 iSg      52 29.92
HCY      0.59 197 iPgd    52 20.70   -0.3
                 iSg      52 30.17
BDV      0.74 174 iPgc    52 22.85   -0.6
                 iSg      52 37.00
     S.D. = 0.8  on   5 of   5 obs.
-----------------------------------
*  JUL  11, 1991  18h 27m 17.66± 1.72s
   40.220 N ± 9.5km   20.407 E ±18.6km
   DEPTH =  10.0km  (geophysicist)
 GREECE-ALBANIA BORDER REGION      (392)

IGT      0.69 185 ePd     27 30.58   -0.7
                 eS       27 40.90
FNA      0.93  52 ePd     27 34.30   -1.1
                 eS       27 47.58
LIT      1.60  94 ePc     27 46.50    0.4
                 eS       28 10.30
GRG      1.69  64 iPd     27 47.58    0.2
                 eS       28 10.70
AGG      1.91 128 ePc     27 51.66    1.1
                 eS       28 17.66
SKO      1.92  24 ePn     27 52.00    1.4
VAY      1.98  56 ePn     27 50.30   -1.2
     S.D. = 1.3  on   7 of   7 obs.
-----------------------------------
%  JUL  11, 1991  18h 41m 46.19± 0.41s
   38.990 N ± 2.9km   29.827 E ± 5.5km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      MD 3.5 (ISK).

KHL      0.71 200 iPg     41 59.40   -0.8
                 eSg      42 09.40
DST      1.11 304 iPn     42 07.30    0.2
GPA      1.35  16 iPn     42 11.60    0.6
IZI      1.37 349 ePn     42 11.50    0.1
EYL      1.59   9 ePn     42 14.50   -0.1
YLV      1.61 348 iPn     42 14.50   -0.3
BCK      1.64 158 ePn     42 15.50    0.3
GBZT     1.82 351 ePn     42 17.50   -0.3
HRT      1.83 356 ePn     42 17.50   -0.5
EDC      2.03 312 iPn     42 21.50    0.6
IZM      2.09 254 ePn     42 21.00   -0.8
ISK      2.16 344 ePn     42 22.00   -0.6
YER      2.22 214 ePn     42 24.00    0.4
ELL      2.24 178 ePn     42 24.40    0.4
CTT      2.41 334 ePn     42 26.00   -0.2
KGT      2.43 308 ePn     42 27.50    0.9
EZN      2.84 288 ePn     42 32.50    0.1
DMK      3.24 331 ePn     42 38.00    0.0
     S.D. = 0.5  on  18 of  18 obs.
-----------------------------------
%  JUL  11, 1991  18h 53m 54.71± 1.03s
   40.512 N ± 6.9km   23.574 E ±11.3km
   DEPTH =  10.0km  (geophysicist)
 GREECE                            (364)

SOH      0.35 332 ePd     54 02.26    0.3
                 eS       54 06.78
THE      0.48 285 ePc     54 04.10   -0.3
                 eS       54 11.58
PAIG     0.59 172 ePc     54 06.70    0.1
```

11d 18h

```
                    eS    54 14.98
SRS      0.61   1 ePc    54 06.54   -0.4
                    eS    54 14.98
KNT      0.83 322 ePc    54 11.06    0.3
                    eS    54 21.98
     S.D. = 0.5  on   5 of   5 obs.
-----------------------------------------
%  JUL  11, 1991  18h 54m 20.37± 0.38s
   39.002 N ± 2.7km   29.794 E ± 5.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 3.5 (ISK).

KHL      0.71 197 iPg    54 33.90   -0.5
                    iSg   54 43.40
DST      1.09 304 iPn    54 41.30    0.5
GPA      1.35  17 iPn    54 45.60    0.4
IZI      1.36 350 ePn    54 45.50    0.1
EYL      1.59  10 iPn    54 48.50   -0.2
YLV      1.60 348 iPn    54 48.50   -0.3
BCK      1.66 158 ePn    54 50.00    0.3
GBZT     1.80 352 ePn    54 51.80    0.1
HRT      1.82 357 iPn    54 51.50   -0.5
EDC      2.01 313 ePn    54 55.00    0.3
IZM      2.07 254 ePn    54 55.00   -0.6
YER      2.21 213 ePn    54 58.00    0.3
ELL      2.25 178 ePn    54 58.60    0.2
CTT      2.38 334 ePn    54 59.50   -0.6
KGT      2.41 308 ePn    55 00.50    0.1
MFT      2.63 313 ePn    55 04.00    0.3
EZN      2.81 288 ePn    55 06.50    0.4
DMK      3.22 332 ePn    55 11.60   -0.3
     S.D. = 0.4  on  18 of  18 obs.
-----------------------------------------
%  JUL  11, 1991  19h 40m 21.21± 0.75s
   44.042 N ± 9.7km   10.938 E ± 5.3km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                      (545)

MME      0.23 312 Pd     40 26.20   -0.1
                    eSg   40 29.50
BDI      0.25 275 Pc     40 26.60    0.1
                    eSg   40 30.60
PII      0.44 223 Pd     40 30.10    0.0
                    eSg   40 38.60
PGD      0.59 106 P      40 33.30    0.0
                    eSg   40 41.80
SFI      0.67 100 P      40 34.50    0.0
                    eSg   40 45.00
     S.D. = 0.1  on   5 of   5 obs.
-----------------------------------------
*  JUL  11, 1991  19h 45m 44.70± 0.66s
   6.005 N ±10.3km   82.458 W ±13.8km
   DEPTH =  10.0km  (geophysicist)
   4.5mb (  8 obs.)  4.5Msz (  1 obs.)
 SOUTH OF PANAMA                     ( 83)

UPA      4.14  44 eP     46 47.60   -1.8
                    S     47 32.00
PSO      7.01 133 eP     47 31.00    0.7
BOG      8.47  99 eP     47 53.00    2.3
                    eS    49 36.00
NNA     18.73 163 eP     50 06.00    0.2
        0.9s     8.40nm          3.9mb
ARE     24.82 154 eP     51 10.00    1.1
LPB     26.52 148 (P)    51 22.00   -2.9
      Z  20s     1.42um          4.5Msz
                    eLR   00 52.00
CNCB    26.81 148 P      51 29.00    1.2
SIV     30.43 136 P      51 57.50   -2.3
ALQ     36.32 326 eP     52 52.00    1.1
        1.0s     9.00nm          4.6mb
ANMO    36.32 326 ePd    52 52.50    1.6
        1.1s    11.08nm          4.6mb
GOL     39.38 332 ePd    53 20.00    3.4X
        0.9s     8.71nm          4.4mb
BW06    43.76 331 e(P)   53 52.00   -0.4
        1.0s     6.25nm          4.4mb
FFC     51.06 346 eP     54 48.00   -1.1
        1.0s    10.00nm          4.7mb
YKA     61.12 344 eP     56 00.90   -0.3
        1.0s     3.00nm          4.4mb
INK     70.80 342 eP     57 03.50    0.4
NB2     86.57  29 P      58 29.50    0.2
        1.2s     6.90nm          4.7mb
CLL     88.77  39 e(P)   58 41.00    1.0
WRA    141.67 245 PKP    05 18.00   -1.1
        1.6s     1.30nm
     S.D. = 1.5  on  17 of  18 obs.
-----------------------------------------
   JUL  11, 1991  20h 38m 57.91± 1.06s
   40.567 N ± 6.0km   23.866 E ±10.9km
   DEPTH =   5.0km  (geophysicist)
 GREECE                              (364)

OUR      0.25 159 ePc    39 03.28    0.3
                    eS    39 06.84
SOH      0.47 303 ePc    39 07.28    0.0
                    eS    39 13.80
SRS      0.59 339 ePd    39 09.28   -0.4
                    iS    39 17.80
PAIG     0.65 193 ePd    39 10.56   -0.5
                    eS    39 19.52
KNT      0.94 309 ePd    39 16.80    0.4
                    eS    39 29.56
LIT      1.15 247 ePc    39 19.96    0.0
                    eS    39 36.08
     S.D. = 0.5  on   6 of   6 obs.
-----------------------------------------
&  JUL  11, 1991  21h 12m 13.20s
   39.505 N          123.033 W
   DEPTH =   2.0km
 NEAR COAST OF NORTHERN CALIF.       ( 35)
      <BRK>. ML 3.3 (BRK).

LTCM     0.99  45 eP     12 31.40   -1.3
NWRM     1.05 174 eP     12 32.80   -1.0
WDC      1.14  19 iPd    12 34.10   -1.1
ORV      1.19  87 iPc    12 33.97   -2.1
FOX      1.25 324 ePc    12 36.08   -1.1
                    iS    12 55.16
MIN      1.38  52 eP     12 38.12   -1.4
FHC      1.49 331 iPc    12 43.87    2.9
                    e     13 13.38
ZSP      1.67 158 ePc    12 41.90   -1.7
BRK      1.74 159 e(P)   12 46.40    1.8
BKS      1.74 159 ePc    12 42.00   -2.6
PCC      2.07 165 ePc    12 47.28   -2.0
MHC      2.42 153 eP     12 52.20   -2.4
ARN      2.45 151 eP     12 53.00   -2.0
CMB      2.54 125 eP     12 55.23   -0.9
                    eSg   13 30.06
GCC      2.60 161 iPd    12 54.18   -2.8
SAO      3.01 155 iPc    13 00.14   -2.7
PRS      3.43 157 eP     13 06.19   -2.6
FRI      3.63 133 eP     13 10.98   -0.6
KVN      3.86  95 eP     13 13.50   -1.6
BONR     4.01 111 eP     13 16.00   -1.3
TNP      4.76 106 eP     13 26.00   -1.9
ISA      5.27 135 eP     13 30.00   -5.0
                    e     14 50.00
CLC      5.67 129 eP     13 48.00    7.4
                    e     15 05.00
SBB      6.36 138 eP     13 49.00   -1.3
                    e     15 39.00
GSC      6.49 128 eP     14 11.00   18.7
                    e     16 12.00
        25 obs. associated
-----------------------------------------
%  JUL  11, 1991  21h 43m 27.97± 0.77s
   37.580 N ± 7.5km   12.955 E ± 5.0km
   DEPTH =  10.0km  (geophysicist)
 SICILY                              (398)

CVT      0.16 307 P      43 31.20   -0.5
                    eSg   43 32.70
ERC      0.54 328 P      43 39.70    0.8
                    eSg   43 45.30
LVI      0.63 310 P      43 40.70    0.0
GIB      0.94  64 Pc     43 46.80    0.8
                    eSg   44 03.00
PTS      1.09 225 P      43 48.40    0.0
                    eSg   44 02.20
USI      1.14   9 P      43 49.70    0.4
                    eSg   44 05.00
SOI      2.50  78 P      44 10.50    1.2
CZI      2.99  56 P      44 14.90   -1.3
TDS      3.37  51 P      44 20.90   -0.7
SGO      3.49  31 P      44 22.70   -0.7
     S.D. = 0.9  on  10 of  10 obs.
-----------------------------------------
%  JUL  11, 1991  22h 38m 48.62± 0.91s
   39.197 N ± 7.7km   27.897 E ± 6.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 3.2 (ISK).

DST      0.70  54 iPg    39 02.50    0.1
                    iSg   39 14.00
EDC      1.15 359 iPg    39 09.50   -0.6
KGT      1.33 340 ePn    39 13.50    0.3
EZN      1.37 298 iPn    39 14.00    0.3
KHL      1.54 124 ePn    39 16.00   -0.3
MFT      1.66 344 iPn    39 17.50   -0.4
IZI      1.66  46 iPn    39 18.70    0.7
YLV      1.78  39 iPn    39 19.50   -0.2
CTT      1.99  12 ePn    39 23.00    0.3
DMK      2.62 358 ePn    39 31.50   -0.2
     S.D. = 0.5  on  10 of  10 obs.
-----------------------------------------
   JUL  11, 1991  23h 05m 39.79± 0.77s
   26.351 S ± 6.4km   27.139 E ±10.6km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA            (584)
      mbLg 3.6 (BUL).

PRY      0.65 153 eP     05 53.50    0.7
        1.0s   810.00nm
                    S     05 58.00
SLR      1.20  59 iPc    06 03.20    0.5
                    S     06 17.60
SEK      2.01 168 iPd    06 19.40    4.5X
                    S     06 43.20
FRS      3.75 205 iPc    06 39.20   -0.3
                    S     07 21.60
HVD      4.48 198 eP     07 01.20   11.2X
                    S     07 40.20
JOZ      4.54 105 eP     06 50.00   -0.8
                    S     07 38.00
BUL      6.33  13 iPn    07 18.00    1.8
                    iSn   08 26.00
                    iSg   09 00.00
KRI      9.75  14 iPn    08 05.20    1.3
                    iSn   09 48.00
                    iSg   10 45.40
CER      9.75 222 eP     08 03.80    0.0
                    S     09 49.50
MTD     10.38  24 iPn    08 11.80   -0.7
                    iSn   10 02.50
                    iLg   11 02.00
LSZ     11.06   5 iPn    08 22.00    0.1
                    iSn   10 13.10
                    iSg   11 29.10
PTZ     12.67  19 ePn    08 41.00   -2.6
                    eSn   10 59.00
                    iSg   13 12.20
     S.D. = 1.4  on  10 of  12 obs.
-----------------------------------------
   JUL  12, 1991  00h 40m 55.04± 0.29s
   5.429 N ± 6.0km   82.531 W ± 6.9km
   DEPTH =  10.0km  (geophysicist)
   4.7mb ( 16 obs.)  4.1Msz (  2 obs.)
 SOUTH OF PANAMA                     ( 83)

UPA      4.61  40 iPd-   42 06.80    0.3
                    LR    43 30.00
PSO      6.69 129 eP     42 36.00   -0.1
QUR      6.85 144 eP     42 37.10   -1.4
QTO      6.88 144 eP     42 39.80    1.0
BOG      8.47  95 eP     43 04.00    2.9
                    eS    44 40.00
BMG      9.54  80 iPd    43 18.00    2.4
OXX     18.09 311 (P)    45 11.20    2.8
NNA     18.20 162 iPd    45 09.50   -0.2
        1.0s    46.00nm          4.6mb
PT10    18.25 162 eP     45 09.00   -1.2
PPM     20.73 312 (P)    45 40.70    1.6
III     20.95 309 (P)    45 40.50   -0.5
ARE     24.34 154 eP     46 17.00    2.4
ZOBO    25.85 147 iPc    46 29.20    0.0
        1.0s    33.75nm          5.0mb
      Z  22s     1.17um          4.4Msz
                    S     51 12.00
                    LR    54 50.00
LPB     26.08 147 P      46 31.70    0.5
      Z  16s     2.02um          4.8MszX
                    LR    54 50.00
CNCB    26.37 147 P      46 34.20    0.2
CCH     27.85 145 P      46 48.00    0.7
JSC     28.73   2 P      46 54.00   -0.7
SIV     30.07 135 iPc    47 06.00   -1.0
```

BLA	31.69	3	P	47 20.50	-0.6
	1.0s	18.00nm			4.9mb
TUL	32.70	340	eP	47 27.10	-2.7
	0.6s	4.30nm			4.6mb
	Z 22s	0.19um			3.8Msz
		LR		57 47.00	
MEO	32.77	335	iPc	47 29.30	-1.2
FVM	33.19	349	P	47 32.00	-2.1
ALO	36.75	326	ePc	48 05.60	0.7
	1.0s	17.00nm			4.8mb
ANMO	36.76	326	P	48 05.00	0.1
	1.0s	17.50nm			4.8mb
GLD	39.83	332	P	48 30.50	0.0
GOL	39.86	332	P	48 30.60	-0.2
	1.0s	10.00nm			4.4mb
PEL	39.97	164	iPc	48 31.30	-0.3
BAO	40.10	122	ePc	48 32.00	-0.9
GLA	40.73	317	eP	48 39.00	1.2
PV09	40.82	327	P	48 39.00	0.2
TPC	42.17	317	eP	48 50.00	0.4
PLM	42.31	315	eP	48 51.00	0.0
RSSD	42.92	337	P	48 55.80	-0.1
	1.0s	5.15nm			4.2mb
RVR	43.02	316	eP	48 57.00	0.5
GSC	43.36	318	eP	49 03.00	3.5X
PAS	43.65	316	eP	49 02.00	0.3
SBB	43.71	316	eP	49 02.00	-0.2
SOB1	43.97	109	eP	49 03.50	-1.1
CLC	44.19	318	eP	49 06.00	-0.1
BW06	44.23	331	P	49 05.50	-1.0
	0.9s	8.19nm			4.6mb
ISA	44.69	317	eP	49 11.00	0.8
VAO	44.79	130	(P)	49 09.00	-2.1
TNP	45.27	321	P	49 14.90	-0.1
	0.7s	6.11nm			4.7mb
FRI	46.26	318	eP	49 24.70	2.2
PRI	46.44	316	eP	49 26.30	2.2
PRS	47.03	316	eP	49 28.30	-0.3
CMB	47.28	319	eP	49 31.20	0.5
MHC	47.74	317	eP	49 34.50	0.1
LRM	47.89	332	eP	49 35.30	-0.3
ORV	48.85	320	eP	49 43.50	0.7
SES	50.79	337	eP	49 57.00	-0.5
FFC	51.60	346	eP	50 03.00	-0.6
	1.0s	8.00nm			4.6mb
NEW	51.86	331	P	50 04.50	-1.2
PNT	53.79	331	ePc	50 20.00	0.1
FRB	59.08	7	eP	50 57.00	-0.5
YKA	61.64	344	eP	51 13.60	-1.5
	0.7s	10.50nm			5.1mb
INK	71.32	342	ePc	52 16.60	0.1
MBC	73.62	351	eP	52 30.00	0.0
	0.7s	45.00nm			5.6mb
FBA	74.77	336	P	52 34.00	-2.9
LKO	76.27	82	P	52 45.90	-0.5
	0.8s	6.00nm			4.7mb
KIC	77.31	85	P	52 52.08	-0.1
	0.7s	4.00nm			4.6mb
NB2	87.11	29	P	53 43.30	1.1
	1.1s	7.10nm			4.8mb
CLL	89.26	39	eP	53 57.00	4.3X
WRA	141.36	245	PKP	00 38.00	9.1X
	0.7s	1.80nm			
KMI	149.20	351	ePKP	00 52.00	9.9X
	S.D. = 1.2	on	61 af	65 abs.	

% JUL 12, 1991 01h 04m 22.20± 2.03s
38.233 N ±15.7km 142.322 E ±17.6km
DEPTH = 33.0km (normal)
NEAR EAST COAST OF HONSHU, JAPAN(228)

OFUJ	0.99	329	iP+	04 40.30	0.6
			S	04 50.50	
YAMJ	1.80	269	P	04 50.30	-1.1
			S	05 09.30	
AOMJ	2.77	328	P	05 05.20	0.0
MAT	3.68	244	iPd	05 19.00	0.8
			(S)	06 02.00	
HOOJ	4.21	10	eP	05 26.40	0.8
			eS	06 10.50	
MRRJ	4.29	348	eP	05 27.50	0.7
			eS	06 13.30	
KUSJ	5.19	20	eP	05 39.20	-0.3
			eS	06 35.00	
ASAJ	5.88	2	eP	05 48.00	-1.3
	S.D. = 1.0	on	8 af	8 obs.	

JUL 12, 1991 01h 41m 55.74± 0.25s
41.404 N ± 2.7km 20.919 E ± 2.3km
DEPTH = 10.0km (geophysicist)
4.0mb (5 obs.)
ALBANIA (391)
ML 4.2 (ATH), 4.0 (TRI). MD 3.9 (TTG). Felt (VI) in the Kicevo-Krusevo area, Yugoslavia and (IV) at Peshkapi, Albania.

OHR	0.31	197	iPg	42 01.70	-0.4
PHP	0.46	309	iPgc	42 04.80	-0.2
SKO	0.69	34	ePg	42 09.20	-0.2
			i	42 09.60	
			iSg	42 18.80	
TIR	0.79	266	iPgc	42 11.00	-0.2
LACI	0.94	285	iPgc	42 13.60	0.0
SDA	1.23	300	iPgc	42 19.50	1.0
VAY	1.25	93	iPnc	42 19.20	0.3
			iSn	42 33.40	
KZN	1.27	149	ePb	42 19.00	-0.4
TPE	1.30	212	ePn	42 22.50	2.6X
ULC	1.37	295	iPgc	42 21.50	0.6
			iSg	42 40.88	
PVY	1.38	330	iPgd	42 22.05	0.9
			iSg	42 42.20	
VLO	1.43	230	iPnc	42 24.10	2.5
TTG	1.61	310	iPgd	42 25.48	1.3
			iSg	42 48.55	
IVA	1.65	333	iPnd	42 26.91	2.0
			iSn	42 50.60	
SRN	1.68	205	iPnc	42 28.40	3.2X
BDV	1.79	300	iPnd	42 29.25	2.3
			iSn	42 53.21	
KEK	1.89	207	ePn	42 30.00	1.6
NKY	2.01	315	iPnc	42 33.06	2.9X
			iSn	42 59.03	
HCY	2.09	301	iPnc	42 33.86	2.7X
			iSn	43 00.28	
PLE	2.23	330	iPnc	42 35.40	2.0
			iSn	43 04.30	
BRY	2.31	311	iPnc	42 37.11	2.5
			iSn	43 06.35	
LCI	2.49	246	Pc	42 36.40	-0.5
			eSn	43 06.60	
BRT	2.85	261	P	42 43.00	0.8
BAI	3.07	266	P	42 45.50	0.4
BEO	3.43	354	ePn	42 50.00	-0.3
RDO	3.49	93	ePn	42 50.00	-1.1
ORI	3.65	250	P	42 52.40	-1.1
HVAR	3.76	300	iPn	42 55.80	0.8
			iPg	43 07.30	
			iSg	43 55.10	
ROI	3.79	243	P	42 56.20	0.7
CSI	3.88	247	P	42 56.50	-0.3
TDS	3.90	245	P	42 56.90	-0.1
MMN	4.04	250	P	43 00.60	1.7
			eSn	43 50.50	
ATH	4.05	147	ePn	43 01.50	2.4
GZR	4.21	18	ePd	43 01.00	-0.4
CZI	4.26	241	P	43 02.80	0.7
			eSn	43 51.60	
MGR	4.27	255	P	43 03.00	0.8
GRI	4.31	235	P	43 02.53	-0.3
BLY	4.32	322	eP	43 16.50	13.6X
			eS	44 16.50	
SGO	4.33	261	P	43 03.70	0.6
EZN	4.41	109	eP	43 04.50	0.4
PRK	4.62	116	ePn	43 08.50	1.2
DEV	4.70	17	ePd	43 15.00	6.6X
MFT	4.85	95	eP	43 09.50	-1.0
DUI	4.86	275	P	43 10.20	-0.5
TNR	4.90	29	ePc	43 11.00	-0.1
KGT	4.93	99	eP	43 11.00	-0.6
VLI	4.94	161	ePn	43 12.00	0.3
SOI	5.01	230	P	43 11.70	-1.0
			eSn	44 07.00	
DMK	5.14	B3	eP	43 14.00	-0.6
RFI	5.22	271	P	43 16.81	1.1
ATN	5.31	234	P	43 15.70	-1.3
			eSn	44 14.60	
SDI	5.34	276	P	43 18.10	0.6
			eSn	44 21.10	
UZD	5.45	343	e(Pn)	43 19.00	0.0
MLR	5.48	40	ePd	43 21.00	1.4
ZAG	5.68	323	ePn	43 23.70	1.5
			iPg	43 45.20	
			iSn	44 28.50	
			iSg	45 01.00	
AQU	5.69	282	P	43 22.50	0.1
PTJ	5.76	323	iPnc	43 24.10	0.8
			eSn	44 31.00	
VBY	5.81	317	ePn	43 25.80	1.8
			e	43 45.00	
			eSn	44 32.40	
VRI	6.14	41	ePc	43 28.00	-0.6
DST	6.14	104	eP	43 27.00	-1.8
RDP	6.16	276	P	43 28.20	-0.8
RIY	6.18	312	ePn	43 29.20	0.1
MNS	6.23	282	P	43 30.80	0.9
ARV	6.26	292	Pc	43 29.80	-0.6
			eSn	44 41.10	
GIB	6.31	240	P	43 30.00	-1.2
ASS	6.35	288	P	43 31.80	0.0
			eSn	44 44.00	
CEY	6.40	315	ePn	43 34.40	2.0
			eSn	44 46.00	
LJU	6.55	317	ePn	43 34.70	0.2
			e	43 36.50	
			i	43 41.00	
			eSn	44 50.00	
			e	45 01.30	
			eSg	45 38.00	
PSZ	6.56	354	eP	43 33.10	-1.5
HRT	6.63	92	eP	43 35.00	-0.7
RSM	6.73	295	P	43 36.10	-0.9
			eSn	44 52.90	
TRI	6.75	312	P	43 35.30	-1.9
VOY	6.88	315	ePn	43 39.00	-0.1
			eSn	44 55.30	
CRE	6.99	292	P	43 39.90	-0.8
			eSn	44 59.00	
SFI	7.14	294	P	43 41.20	-1.5
			eSn	45 01.10	
PGD	7.22	293	P	43 43.00	-1.0
			eSn	45 03.50	
ZST	7.31	340	e(P)	43 44.70	-0.4
			i	44 09.80	
			e	01 42.50	
MAO	7.36	281	P	43 46.10	0.3
VVI	7.67	309	P	43 49.50	-0.7
SPC	7.80	357	e(P)	43 53.60	1.5
FVI	7.83	314	P	43 51.00	-1.3
KBA	7.86	319	iPnc	43 52.10	-0.8
			i	44 06.00	
			iSn	45 27.70	
			i	45 41.30	
MME	8.01	294	P	43 53.80	-1.4
PII	8.02	290	P	43 54.60	-0.4
BDI	8.05	293	P	43 54.40	-1.2
CTI	8.16	308	P	43 54.80	-2.3X
			eSn	45 23.90	
BHG	8.53	320	eP	44 02.80	0.6
SAL	8.64	303	P	44 03.50	-0.2
WTTA	8.86	314	iPnc	44 05.90	-1.0
			i	44 16.40	
			iSn	45 45.90	
PGF	8.95	281	eP	44 07.30	-0.8
	1.0s	24.00nm			5.5mb X
OGA	8.97	311	eP	44 08.80	0.4
BOB	9.04	296	P	44 09.10	-0.2
			eSn	45 47.50	
MDI	9.23	302	P	44 10.00	-1.8
KHC	9.30	329	eP	44 08.50	-4.2X
			e	44 15.00	
			e	44 18.00	
			eS	47 04.00	
OSS	9.38	308	ePc	44 13.90	-0.2
PRU	9.67	335	eP	44 24.00	6.2X
			e	44 35.80	
			e	45 06.70	
			eS	47 16.00	
CKI	9.75	292	P	44 16.10	-3.0X
TMA	9.90	302	ePd	44 19.40	-1.9
LLS	10.16	307	ePc	44 25.00	0.2
SBF	10.24	288	eP	44 23.70	-2.1
	0.5s	11.65nm			5.6mb X
MMK	10.46	301	ePd	44 27.30	-1.7
FRF	10.76	286	eP	44 30.00	-2.9X
	0.6s	8.10nm			5.3mb X
DIX	10.83	300	ePd	44 33.30	-0.8
LMR	10.84	285	eP	44 30.70	-3.2X
LRG	10.96	286	eP	44 32.00	-3.5X
	0.7s	8.80nm			5.2mb X

12d 01h

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BNI     11.01 294 P      44 35.40  -1.1
LPG     11.08 296 eP     44 33.20  -4.3X
        0.4s     10.05nm          5.5mb X
LPL     11.10 296 eP     44 33.60  -4.1X
        0.5s      8.00nm          5.3mb X
MOX     11.27 328 e(P)   44 51.00  11.2X
BSF     11.93 307 eP     44 46.20  -2.7X
        0.5s      5.10nm          5.1mb X
CDF     11.93 311 eP     44 46.10  -2.8X
HAU     12.28 307 eP     44 50.60  -2.9X
SMF     13.35 299 eP     45 04.60  -3.2X
LBF     13.37 300 eP     45 05.10  -2.9X
        0.6s      8.10nm          4.9mb
LOR     13.54 301 eP     45 07.40  -2.8X
        0.7s      8.80nm          4.8mb X
SSF     13.70 300 eP     45 09.40  -2.9X
        0.7s      4.40nm          4.5mb X
AVF     13.72 299 eP     45 10.10  -2.4X
NUR     19.27   6 eP     46 23.80   0.8
HFS     19.28 349 eP     46 23.00  -0.1
        1.5s     27.40nm          4.3mb
NB2     20.54 346 P      46 34.00  -2.7X
        0.6s      2.00nm          3.6mb
KAF     20.99   7 iP     46 42.00   0.7
        0.6s      2.40nm          3.7mb
EKA     21.07 320 P      46 47.00   4.9X
        0.7s      5.40nm          4.0mb
      S.D. = 1.1  on  96 of 122 obs.
-----------------------------------------
?  JUL  12, 1991  01h 43m 16.14± 3.85s
   43.489 N ±28.4km    7.298 E ±25.4km
   DEPTH =  10.0km  (geophysicist)
 NEAR SOUTH COAST OF FRANCE        (379)
      ML 2.1 (LDG).

SBF      0.39  15 Pg     43 24.00  -0.1
                  Sg     43 29.80
FRF      0.48 279 Pg     43 25.60  -0.3
                  Sg     43 33.10
LMR      0.60 255 Pg     43 27.80  -0.4
                  Sg     43 36.40
LRG      0.68 267 Pg     43 30.20   0.5
                  Sg     43 39.60
      S.D. = 0.7  on   4 of   4 obs.
-----------------------------------------
*  JUL  12, 1991  01h 53m 17.42± 0.59s
   22.416 N ±12.6km  144.692 E ±20.4km
   DEPTH =  33.0km  (normal)
   4.7mb (  5 obs.)
 VOLCANO ISLANDS REGION            (213)

SSE     22.67 297 eP     58 16.50  -0.6
                  i      58 24.00
WR2     43.30 194 eP     01 18.60   0.7
WRA     43.30 194 P      01 17.00  -0.9
        0.5s      4.00nm          4.4mb
ASPA    46.99 194 eP     01 46.90  -0.5
        0.6s      5.90nm          4.8mb
WARB    51.38 201 eP     02 22.00   0.8
INK     66.35  24 eP     04 04.00  -0.7
MBC     69.81  15 eP     04 27.50   1.4
        0.6s     13.00nm          5.2mb
YKA     75.17  28 eP     04 58.00   0.0
        0.6s      2.80nm          4.4mb
SES     81.64  39 eP     05 34.00   0.4
TNP     82.52  52 (P)    05 36.00  -2.7
FFC     84.48  32 iPd    05 49.20   1.2
        0.8s     10.00nm          5.0mb
ZOBO   148.48  85 PKP    13 01.20   1.1
LPB    148.58  85 ePKP   13 03.00   2.9X
CNCB   148.76  86 PKP    13 04.40   3.9X
      S.D. = 1.3  on  12 of  14 obs.
-----------------------------------------
   JUL  12, 1991  03h 44m 34.27± 0.54s
   46.629 N ± 6.7km   10.512 E ± 4.7km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                    (545)
      ML 2.6 (KBA).

OGA      0.43  56 iPgc   44 41.90  -1.1
VDL      0.73 259 ePd    44 47.00  -1.8
SCE      0.92  63 iPgd   44 50.90  -1.1
CTI      0.98 126 P      44 53.00   0.0
                  eSg    45 06.20
WTTA     1.00  50 iPgd   44 52.40  -0.9
                  iSg    45 07.50
MDI      1.02 213 P      44 53.30  -0.2
                  eSg    45 05.50
SAL      1.02 179 P      44 53.80   0.2
                  eSg    45 06.90
TMA      1.25 246 ePc    44 56.80  -0.8
FVI      1.56  90 P      45 03.00   0.9
                  eSg    45 22.60
ZLA      1.68 301 ePc    45 05.30   1.4
SLE      1.79 310 ePc    45 06.30   0.9
MMK      1.86 253 ePc    45 07.30   0.7
KBA      2.00  76 iPgc   45 10.30   1.7
                  iSg    45 38.10
TRI      2.44 111 e(P)   45 20.40   5.6X
                  e      45 51.10
KHC      3.24  38 Pg     45 35.30   9.1X
                  Sg     46 19.50
      S.D. = 1.2  on  13 of  15 obs.
-----------------------------------------
   JUL  12, 1991  04h 13m 47.05± 0.64s
   49.134 N ± 5.9km    6.910 E ± 8.5km
   DEPTH =  10.0km  (geophysicist)
 GERMANY                           (543)
      ML 2.4 (STR). MD 2.1 (UCC).

GWF      0.49 108 Pg     13 56.42  -0.7
WLF      0.73 317 iPd    13 59.76  -1.5
                  iS     14 09.21
CDF      0.76 161 Pg     14 01.04  -1.0
ECH      0.93 170 Pg     14 04.77  -0.1
                  Sg     14 18.03
VITF     1.10 214 Pg     14 06.71  -1.1
                  Sg     14 21.54
MOF      1.29 173 Pg     14 10.88  -0.2
                  Sg     14 29.06
FEL      1.46 149 Pg     14 14.19   0.7
MEM      1.59 339 iP     14 15.30   0.1
ENN      1.75 339 ePn    14 18.50   0.8
        0.5s      9.00nm
                  eSn    14 39.00
LOMF     1.79 182 Pg     14 20.37   2.1
DOU      1.79 303 iP     14 18.90   0.7
                  iS     14 42.00
      S.D. = 1.2  on  11 of  11 obs.
-----------------------------------------
   JUL  12, 1991  04h 42m 23.62± 0.29s
   39.368 S ± 3.7km  175.902 E ± 4.5km
   DEPTH =  67.2 ±  3.0 km
   5.3mb ( 16 obs.)
 NORTH ISLAND, NEW ZEALAND         (159)
      Felt throughout central New
      Zealand.
      CENTROID, MOMENT TENSOR      (HRV)
      Data Used: GDSN
      L.P.B.: 18S, 30C
      Centroid Location:
      Origin Time        04:42:27.6 0.5
      Lat 39.25S 0.09 Lon 175.91E 0.06
      Dep  49.1 6.2 Half-duration  1.8
      Moment Tensor;   Scale 10**16 Nm
        Mrr= 2.55 0.38  Mtt= 5.00 0.73
        Mff=-7.55 0.57  Mrt= 7.64 0.83
        Mrf= 2.10 0.63  Mtf= 2.18 0.49
       Principal Axes:
        T  Val= 11.98  Plg=40  Azm=349
        N       -3.95     49       184
        P       -8.03      8        85
      Best Double Couple:Mo=1.0*10**17
       NP1:Strike=135 Dip=57 Slip=  25
       NP2:        30     69       144

DRZ      0.28 289 Pc     42 35.80   0.9
NGZ      0.30 309 iPd    42 35.70   0.9
CNZ      0.32 301 iPc    42 35.90   1.0
WHH      0.67  44 iPc    42 37.60  -0.6
TTH      0.74 104 Pc     42 39.70   0.8
UTU      1.21  11 Pc     42 44.80  -0.2
TAZ      1.23  23 Pd     42 45.10  -0.1
PGZ      1.28 167 iPc    42 46.90   1.0
MNG      1.29 194 iPc    42 47.50   1.4
WLZ      1.54 351 Pc     42 49.30  -0.2
                  S      43 08.80
KIW      1.68 207 iPc    42 52.50   1.2
NOZ      1.82  66 P      42 52.10  -1.2
CAW      1.85 200 iPc    42 54.20   0.4
WDW      2.02 200 Pc     42 56.00  -0.1
BLW      2.03 189 P      42 56.00  -0.1
MRW      2.08 206 Pc     42 57.00   0.2
DIW      2.09 226 Pc     42 58.10   1.1
WEL      2.10 204 P      42 57.60   0.4
MOW      2.11 193 iPc    42 57.00  -0.3
TCW      2.22 213 Pc     42 59.10   0.2
PUZ      2.25  56 Pd     42 57.50  -1.8
HBZ      2.58  48 Pd     43 02.30  -1.6
CCW      2.70 208 P      43 05.50  -0.1
THZ      3 31 223 Pd     43 13.60  -0.6
KHZ      3.53 210 Pc     43 15.50  -1.7
LTZ      4.38 218 Pd     43 26.80  -2.4
MQZ      4.97 208 P      43 33.30  -4.2X
                  S      44 26.90
MHZ      7.52 219 P      44 08.00  -4.9X
MMCZ     7.55 220 P      44 08.10  -5.3X
TLC      7.71 219 P      44 11.30  -4.4X
MSZ      7.96 226 eP     44 16.10  -2.8
DZM     19.04 332 iPd    46 43.20  -0.1
CNB     21.45 273 eP     47 11.00   2.9X
                  e      47 18.00  25kmX
COO     21.49 287 eP     47 13.00   4.5X
        1.0s     57.00nm          4.9mb
CAN     21.74 272 eP     47 20.50   9.6X
                  e      47 28.30  28kmX
TAU     21.77 251 eP     47 14.00   2.9X
                  e      47 27.00
BWA     22.49 274 eP     47 18.60   0.3
                  e      47 31.20
PVC     22.54 341 iPd    47 19.70   0.9
BKM     22.62 341 iPd    47 21.70   2.0
TOO     23.83 265 eP     47 33.00   1.7
        0.9s     55.00nm          5.0mb
                  e      47 58.00
CMS     25.65 279 eP     47 50.00   1.4
BFD     26.20 264 eP     47 52.50  -1.1
        0.9s    110.00nm          5.4mb
                  i      48 47.00
QLP     29.31 286 eP     48 23.00   1.1
ADE     29.82 267 eP     48 27.50   1.1
CTAO    31.91 298 iPc    48 45.00   0.2
                  e(S)   54 09.00
HNR     33.05 330 eP     48 55.00   0.3
QIS     36.29 290 iPd    49 23.00   0.5
ASPA    38.71 281 iPc    49 42.80   0.0
        0.9s     46.20nm          5.4mb
      Z  23s      0.70um          4.4MszX
                  eS     55 30.50
SBA     38.78 183 P      49 46.80   4.1X
PMG     39.36 312 eP     49 50.00   1.9
FORR    39.63 267 eP     49 50.30   0.0
        0.3s     10.00nm          5.2mb
WR2     40.53 286 eP     49 56.80  -1.0
                  eS     55 37.90
WRA     40.55 286 P      49 57.00  -0.9
        0.8s     23.00nm          5.1mb
WARB    42.96 273 eP     50 17.00  -0.7
CSY     44.89 211 iPc    50 33.00   0.3
        0.7s     60.60nm          5.5mb
                  ipP    50 49.00  63kmX
COOL    44.99 263 eP     50 32.00  -2.0
        1.0s     69.00nm          5.4mb
KLB     47.27 261 eP     50 51.00  -1.0
        0.3s      9.00nm          5.2mb
MTN     47.45 291 eP     50 53.00  -0.5
MUN     48.29 259 eP     50 59.00  -0.9
        0.8s     28.00nm          5.3mb
BAL     48.52 261 eP     50 59.00  -2.7
        0.4s      7.00nm          5.0mb
MRWA    49.72 263 eP     51 07.80  -3.1X
TRT     64.55 281 ePc    52 55.70  -0.2
NVL     69.57 186 (P)c   53 28.50   1.7
                  e      53 38.00  30kmX
                  e      53 57.50
                  e      54 25.00
                  e      54 31.00
MAT     83.14 330 eP     54 42.00  -1.2
        1.4s     72.09nm          5.5mb
QZH     83.39 310 P      54 44.80   0.1
NJ2     88.60 315 Pd     55 10.00  -0.2
WHN     90.05 311 Pc     55 17.40   0.4
        1.2s     40.00nm          5.6mb
                  sP     55 38.00
CHG     92.11 293 ePd    55 17.00  -9.8X
        1.3s     20.19nm          5.4mb
CHTO    92.11 293 P      55 27.00   0.2
TIA     92.67 316 eP     55 28.00  -1.0
MDJ     93.43 329 eP     55 32.00  -0.2
        1.1s     30.00nm          5.6mb
CN2     94.49 326 eP     55 36.00  -1.2
```

1.0s 8.00nm 5.1mb
BAR 95.08 51 eP 55 41.00 0.8
PLM 95.43 51 eP 55 43.00 1.0
XAN 95.75 310 P 55 43.50 0.2
SBB 95.79 49 eP 55 44.00 0.6
ISA 96.09 48 eP 55 45.00 0.2
TPC 96.44 51 eP 55 47.00 0.6
GLA 96.46 52 eP 55 48.00 1.5
CLC 96.71 49 eP 55 48.00 0.4
GSC 96.82 49 eP 55 48.00 -0.1
TNP 98.50 47 P 55 55.00 -0.8
INK 113.79 18 ePKP 00 49.00 -6.0X
YKA 115.68 29 ePKP 00 57.50 -1.3
1.0s 1.50nm
MBC 122.29 15 ePKP 01 08.50 -2.5
1.0s 13.00nm
KTK1 146.87 342 iPKP 01 55.76 -0.9
PRNI 146.89 266 ePKP 01 59.00 1.1
LIC 146.99 178 PKP 01 59.66 1.2
KIC 147.13 179 PKP 01 58.68 0.0
SOD 147.18 339 iPKP 01 57.00 -0.1
RMN 147.25 266 ePKP 01 58.00 -0.5
TRO 147.30 345 iPKP 01 56.96 -0.3
GLH 147.37 271 ePKP 02 01.00 2.5X
TIC 147.41 178 PKP 02 00.64 1.5
OBN 148.73 314 ePKP 02 01.00 1.0
1.6s *******nm
Z 26s 0.50um 5.2MszX
i 02 05.60
i 02 30.00
e 04 21.00
LOF 149.60 347 ePKP 02 02.34 1.4
LKO 150.27 177 PKP 02 08.34 4.8X
KAF 150.68 331 iPKP 02 05.30 2.6X
0.8s 18.80nm
MOR7 150.99 344 iPKPc 02 06.62 3.5X
NUR 152.28 329 ePKP 02 09.50 4.4X
AKU 152.43 13 iPKP 02 12.00 6.8X
1.0s 20.00nm
NSS 153.09 345 ePKP 02 11.04 4.9X
NB2 156.31 341 PKP 02 18.80 8.1X
0.8s 2.00nm
HFS 156.40 338 ePKP 02 20.30 9.5X
0.5s 0.60nm
S.D. = 1.1 on 83 of 104 obs.

? JUL 12, 1991 04h 51m 03.73±12.80s
41.961 N ±79.4km 126.105 W ±63.9km
DEPTH = 10.0km (geophysicist)
OFF COAST OF NORTHERN CALIFORNIA(34)

KMOR 4.13 26 P 52 08.20 -0.1
GT2 4.24 40 P 52 09.94 0.1
PGO 4.39 36 P 52 12.64 0.7
VBEM 4.52 45 P 52 14.52 0.7
TDH 4.57 42 P 52 14.76 0.1
VLMM 4.63 38 P 52 15.86 0.4
S 53 07.74
VIPM 4.75 56 P 52 17.44 0.2
CROR 4.79 49 P 52 17.62 -0.2
RVW 4.84 29 P 52 18.44 0.1
LVP 4.90 32 P 52 18.83 -0.4
MTMW 4.94 33 Pc 52 19.28 -0.5
APM 4.95 39 P 52 20.31 0.4
FL2 5.02 31 P 52 21.31 0.3
SHW 5.07 32 P 52 21.81 0.2
CDFW 5.08 34 P 52 21.52 -0.2
STD 5.11 32 P 52 22.51 0.3
ERK 5.12 31 P 52 22.04 -0.3
GULW 5.13 38 P 52 22.53 0.1
SOSW 5.14 32 P 52 22.29 -0.4
VTHM 5.16 50 P 52 23.30 0.5
CZM 5.17 29 P 52 22.83 -0.1
TDL 5.20 31 P 52 24.31 0.7
VGB 5.25 46 P 52 24.37 0.3
ASR 5.30 36 P 52 24.84 -0.1
KOSW 5.31 31 P 52 24.89 -0.1
LMW 5.44 29 P 52 27.32 0.4
GL2 5.52 42 P 52 27.82 -0.3
GLK 5.62 34 P 52 29.29 -0.2
LON 5.69 31 P 52 30.07 -0.3
JBO 5.73 50 P 52 31.27 0.3
WPW 5.75 33 P 52 30.97 -0.3
GHW 5.77 27 P 52 31.72 0.3
FMW 5.90 31 P 52 33.37 0.0
GSM 6.08 29 P 52 35.90 0.1
NAC 6.09 37 P 52 35.66 -0.3
MXC 6.22 40 P 52 37.42 -0.4
EBG 6.34 37 P 52 39.46 -0.1
RSW 6.45 44 P 52 40.54 -0.5
MDW 6.51 42 P 52 41.60 -0.3
HTW 6.60 26 P 52 43.23 0.0
WG3 6.62 50 P 52 42.93 -0.6
WIW 6.63 45 P 52 43.23 -0.3
JCW 6.90 24 P 52 47.51 0.2
WTV 7.21 35 P 52 51.41 -0.4
S.D. = 0.3 on 44 of 44 obs.

& JUL 12, 1991 04h 53m 38.23s
57.324 N 153.113 W
DEPTH = 49.2km
KODIAK ISLAND REGION (13)
<AEIC>. ML 2.9 (AEIC).

KDC 0.54 38 iP 53 49.30 -0.7
eS 53 57.97
SYI 1.35 16 iP 53 59.78 -1.2
CDD 1.63 350 eP 54 04.03 -1.0
MCNL 1.98 341 eP 54 08.28 -1.6
AUE 2.05 356 eP 54 10.15 -0.7
AUH 2.05 355 eP 54 09.98 -1.0
XLV 2.26 18 iP 54 13.00 -0.9
BGM 2.36 333 eP 54 13.11 -2.1
CNPM 2.42 23 iP 54 14.75 -1.4
S 54 42.38
PDB 2.54 348 eP 54 15.67 -2.1
IVS 2.69 0 eP 54 18.26 -2.0
NNL 2.89 18 eP 54 21.31 -1.5
RED 3.11 3 eP 54 23.66 -2.4
RDW 3.17 3 eP 54 24.83 -2.2
REF 3.18 4 eP 54 24.79 -2.4
RDN 3.20 3 eP 54 24.60 -2.9
NCT 3.25 2 eP 54 24.71 -3.4
RDT 3.28 6 iP 54 26.02 -2.5
DFR 3.29 4 eP 54 25.75 -2.8
SEW 3.38 33 eP 54 26.41 -3.4
SLKM 3.53 24 eP 54 28.80 -3.1
LTI 3.87 43 eP 54 32.94 -3.7
CKL 3.91 6 eP 54 34.68 -2.6
MTU 3.91 45 eP 54 33.75 -3.5
SPU 3.91 8 eP 54 34.37 -2.9
BGL 3.97 5 eP 54 35.33 -2.9
CGLM 4.04 8 eP 54 36.21 -2.9
NCG 4.12 6 eP 54 38.26 -2.1
KNIM 4.12 40 eP 54 36.27 -4.0
PMS 4.33 23 eP 54 39.99 -3.3
GLI 4.73 39 eP 54 45.02 -3.7
31 obs. associated

JUL 12, 1991 05h 14m 35.92± 0.25s
14.012 N ± 6.1km 90.063 W ± 5.0km
DEPTH = 82.5km (4 depth phases)
4.6mb (16 obs.)
GUATEMALA (70)
Felt (III) at San Salvador, El
Salvador.

LPS 0.92 72 iPc 15 01.20 6.7X
eS 15 20.20
TPX 2.31 293 iPc 15 10.80 -1.8
iS 15 33.00
SCX 3.67 318 iPd 15 33.50 2.0
iS 16 14.50
PBJ 5.69 296 (P) 15 55.50 -4.3X
OXX 7.11 296 iP 16 19.70 0.2
iS 17 35.00
VHO 7.11 296 (P) 16 19.50 0.0
IISM 8.58 306 (P) 16 39.00 -0.5
IIT 9.34 303 iP 16 49.80 -0.4
PPM 9.63 303 iP 16 54.00 -0.3
(S) 18 49.50
ACX 9.86 288 (P) 16 55.70 -1.3
III 10.02 297 iP 16 58.70 -0.7
UNM 10.21 302 (P) 17 02.50 0.5
TAC 10.26 303 (P) 17 02.00 -0.6
CRX 10.66 302 eP 17 24.00 15.9X
UPA 11.46 115 ePd 17 22.00 3.5X
MRX 12.06 300 (P) 17 27.00 0.6
CGX 14.01 296 (P) 17 51.50 -0.7
MEO 22.07 341 iPd 19 24.90 -0.3
TUL 22.40 348 iPd 19 28.00 -0.5
0.8s 92.60nm 5.2mb
Z 22s 0.34um 3.7Msz
i 19 53.10 123kmX
eS 23 53.00
LR 26 19.00
FVM 23.88 359 P 19 41.50 -1.3
1.0s 33.00nm 4.7mb
BLA 24.65 19 ePc 19 53.00 2.7
1.0s 35.00nm 4.7mb
ALQ 25.56 327 eP 19 59.00 0.0
0.9s 5.04nm 4.0mb
ANMO 25.56 327 e(P) 20 00.00 1.0
1.2s 8.98nm 4.1mb
CBN 26.60 23 eP 20 10.80 2.6
e 20 31.00 90km
GOL 28.91 335 ePd 20 30.00 0.5
0.9s 6.44nm 4.3mb
NNA 28.97 152 eP 20 29.70 -0.2
1.0s 14.00nm 4.5mb
GLA 29.45 314 eP 20 34.00 -0.1
BAR 30.55 312 eP 20 43.00 -0.9
TPC 30.88 315 eP 20 46.00 -0.8
PLM 31.04 313 eP 20 49.00 0.7
PEC 31.54 314 e(P) 20 52.70 0.2
RVR 31.74 314 eP 20 54.00 -0.2
GSC 32.07 316 eP 20 57.00 -0.2
SBB 32.43 314 eP 21 01.00 0.7
CLC 32.89 316 eP 21 04.00 -0.3
BW06 33.23 333 e(P) 21 06.80 -0.6
ISA 33.40 315 eP 21 09.00 0.3
TNP 33.97 320 P 21 14.00 0.2
0.9s 9.77nm 4.7mb
FRI 34.96 316 eP 21 21.90 -0.1
PRI 35.16 314 eP 21 24.50 0.6
ARE 35.40 148 iPc 21 28.00 1.7
PRS 35.75 314 eP 21 29.00 0.3
CMB 35.98 317 ePd 21 31.30 0.6
SAO 36.02 315 eP 21 31.30 0.3
MHC 36.45 315 ePd 21 35.90 1.1
LRM 36.91 334 eP 21 38.80 0.2
ZOBO 37.08 143 P 21 41.00 0.3
Z 24s 0.23um 3.9MszX
LR 33 44.00
LPB 37.31 144 P 21 43.20 0.8
ORV 37.55 319 ePd 21 45.30 1.5
CNCB 37.60 144 P 21 45.50 0.5
i 22 09.80 105kmX
MIN 38.06 320 eP 21 48.70 0.5
WDC 38.78 319 eP 21 52.30 -1.8
CCH 39.12 142 P 21 58.00 0.5
FHC 39.82 319 e(P) 22 03.80 1.0
SES 40.10 339 eP 22 06.00 1.1
pP 22 24.00 73km
SIV 41.35 135 P 22 15.00 -0.5
FFC 41.68 350 iPc 22 18.00 0.3
0.4s 6.00nm 4.8mb
PNT 42.74 332 eP 22 28.00 1.5
0.7s 15.00nm 4.9mb
YKA 51.46 346 eP 23 33.20 -1.4
0.5s 4.30nm 4.7mb
FRB 51.90 12 eP 23 37.00 -0.8
pP 23 58.00 85km
SOB1 53.96 113 eP 23 52.40 -1.4
VAO 55.97 131 eP 24 08.80 0.4
INK 60.97 343 eP 24 41.00 -1.4
pP 25 02.00 82km
MBC 64.14 353 ePc 25 01.50 -1.8
0.7s 10.00nm 4.9mb
EKA 76.86 36 P 26 19.00 -1.4
0.7s 4.20nm 4.4mb
LKO 82.42 82 P 26 49.38 -1.7
0.6s 5.00nm 4.6mb
NB2 83.24 29 P 26 54.30 -0.1
0.9s 2.80nm 4.2mb
TIC 83.63 85 P 26 55.20 -2.0
LIC 83.72 85 P 26 56.30 -1.3
KIC 83.96 85 P 26 57.60 -1.3
HFS 84.68 29 eP 27 00.50 -1.0
0.8s 6.00nm 4.6mb
Z 22s 0.09um 4.1Msz
LR 59 00.00
KRI 121.97 101 iPKPc 33 24.00 0.7
MTD 123.84 101 iPKPc 33 27.50 0.6
TIY 124.38 338 ePKP 33 27.70 0.3
SSE 126.03 327 PKP 33 30.50 -0.1
GTA 126.06 351 ePKP 33 30.60 -0.1
LZH 128.47 346 ePKP 33 35.00 -0.4
WR2 137.20 256 ePKP 33 46.30 -5.9X
i 33 53.40
WRA 137.22 256 PKP 33 53.00 0.7

12d 05h

```
        0.6s      8.30nm
ASPA  137.44 250 ePKP  33 53.90   1.3
        0.8s      4.90nm
CHG   146.20 345 ePKP  34 08.00  -0.1
HYB   146.81  20 ePKP  34 10.00   0.9
BDT   147.68 344 ePKP  34 11.20   0.8
        0.8s     62.30nm
NST   148.83 341 iPKPd 34 16.60   4.3X
GBA   149.90  25 PKPd  34 13.70  -0.2
        0.8s      8.70nm
      S.D. = 1.0  on  79 of  85 obs.
-----------------------------------------
%  JUL  12, 1991  05h 24m 51.08± 1.47s
   39.576 N ± 8.2km   26.426 E ±16.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 3.4 (ISK).

EZN     0.26 343 iPg   24 57.00   0.4
                eSg    25 02.50
KGT     1.10  37 ePn   25 13.00   1.2
IZM     1.35 151 ePn   25 16.00   0.1
MFT     1.37  28 iPn   25 15.50  -0.8
CTT     2.19  44 ePn   25 28.00  -0.1
DMK     2.46  24 ePn   25 31.00  -0.9
      S.D. = 1.0  on   6 of   6 obs.
-----------------------------------------
%  JUL  12, 1991  05h 37m 41.07± 0.74s
   40.431 N ± 5.5km   23.011 E ± 7.6km
   DEPTH =  10.0km  (geophysicist)
 GREECE                              (364)

THE     0.20 350 ePc   37 45.46  -0.1
                eS     37 48.74
SOH     0.47  34 iPc   37 50.02  -0.6
                eS     37 57.06
LIT     0.52 231 ePc   37 51.50  -0.1
PAIG    0.72 134 ePc   37 55.22   0.0
                eS     38 05.78
KNT     0.74 353 iPc   37 55.62   0.1
                eS     38 07.58
SRS     0.82  33 ePc   37 57.46   0.6
                eS     38 09.30
      S.D. = 0.5  on   6 of   6 obs.
-----------------------------------------
%  JUL  12, 1991  07h 44m 40.86± 0.96s
   38.276 N ±10.5km   14.918 E ± 7.0km
   DEPTH =  10.0km  (geophysicist)
 SICILY                              (398)

MNO     0.39 207 P     44 48.40  -0.5
                eSg    44 53.10
ATN     0.44 105 P     44 50.50   0.6
                eSg    44 57.50
GIB     0.76 248 P     44 56.20   0.4
                eSg    45 05.30
SOI     0.92 102 P     44 58.10  -0.3
CZI     1.34  45 P     45 05.20  -0.3
      S.D. = 0.7  on   5 of   5 obs.
-----------------------------------------
*  JUL  12, 1991  08h 13m 43.35± 0.67s
   36.278 S ±17.6km   17.658 W ± 8.4km
   DEPTH =  10.0km  (geophysicist)
   4.9mb (  4 obs.)  4.6Msz (  2 obs.)
 SOUTH ATLANTIC RIDGE                (410)

VAO    28.58 289 (P)   19 46.00   4.3X
SOB1   34.24 316 eP    20 31.00  -0.5
BUL    43.41  81 iPd   21 47.80  -0.3
        1.2s     22.66nm          4.8mb
SIV    43.46 286 iPc   21 49.80   1.4
LIC    43.91  18 P     21 51.18  -0.7
      Z  20s     0.32um          4.2Msz
KIC    44.11  19 P     21 53.04  -0.5
        1.2s     25.50nm          4.9mb
TIC    44.31  18 P     21 54.66  -0.6
LSZ    45.77  75 eP    22 07.00  -0.1
KRI    46.01  78 iPd   22 09.40   0.4
LKO    46.97  16 P     22 15.58  -0.8
        1.4s     32.50nm          5.2mb
MTD    47.59  79 iPd   22 22.20   0.7
CNCB   48.44 280 P     22 28.00  -0.6
LPB    48.68 280 P     22 30.00  -0.3
      Z  20s     1.42um          5.0Msz
                LR     37 08.00
PTZ    48.84  76 eP    22 30.00  -1.2
ZOBO   48.85 280 P     22 31.00  -0.8
        1.3s     12.62nm          4.8mb
                S      29 36.00
                LR     37 08.20
KHC    89.45  20 eP    26 43.00   1.6
PRU    90.49  20 eP    26 47.50   1.4
CLL    91.28  19 ePd   26 52.00   2.3
MBC   127.68 343 ePKP  32 50.00   0.7
        1.5s     36.00nm
BJI   143.82  70 ePKP  33 18.50  -1.7
SSE   145.56  86 PKP   33 23.00  -0.4
        1.0s     15.00nm
      Z  16s     0.40um          5.3MszX
      S.D. = 1.1  on  20 of  21 obs.
-----------------------------------------
%  JUL  12, 1991  08h 20m 51.37± 0.73s
   40.373 N ± 6.1km   23.274 E ± 6.2km
   DEPTH =  10.0km  (geophysicist)
 GREECE                              (364)

THE     0.35 318 ePd   20 57.90  -0.7
                eS     21 02.38
SOH     0.45   8 iPc   20 59.61  -1.0
                eS     21 05.93
OUR     0.54  94 ePc   21 02.33   0.0
                eS     21 10.26
PAIG    0.54 145 ePd   21 02.22  -0.1
                eS     21 10.22
LIT     0.66 246 ePd   21 04.34  -0.2
SRS     0.78  18 ePd   21 07.90   1.3
                eS     21 17.58
KNT     0.84 340 ePc   21 06.82  -0.7
                eS     21 19.58
GRG     0.88 312 iPd   21 09.78   1.4
                eS     21 22.94
      S.D. = 1.1  on   8 of   8 obs.
-----------------------------------------
?  JUL  12, 1991  08h 29m 59.13± 1.01s
   39.095 N ± 8.8km   27.688 E ± 9.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 2.9 (ISK).

IZM     0.77 206 ePg   30 14.30   0.1
                eSg    30 26.80
DST     0.89  55 ePn   30 16.00  -0.2
EZN     1.28 305 ePn   30 22.50  -0.4
KGT     1.39 348 iPn   30 25.00   0.5
      S.D. = 0.7  on   4 of   4 obs.
-----------------------------------------
?  JUL  12, 1991  09h 35m 20.07± 1.30s
   27.971 S ± 8.4km   70.679 W ±18.6km
   DEPTH =  87.1 ± 14.3 km
 NEAR COAST OF NORTHERN CHILE        (122)

RTBS    3.83 164 eP    36 19.60   1.8
RTLL    3.86 151 iPc   36 18.50   0.2
ANT     4.26   3 iPd   36 24.30   0.5
CYA     4.34  97 ePd   36 24.80  -0.2
IHA     5.11 189 e(P)  36 44.00   8.4X
                eS     37 55.00
PEL     5.16 180 eP    36 34.50  -1.9
                eS     37 34.50
CNCB   11.38  13 eP    38 07.00   5.1X
ARE    11.48 356 e(P)  38 30.00  27.1X
LPB    11.63  12 eP    38 11.00   5.9X
ZOBO   11.88  12 P     38 14.00   5.5X
SIV    14.87  39 P     38 46.20  -0.9
VAO    21.96  82 eP    40 07.60  -0.3
TIC    72.03  72 P     46 37.60   0.8
KIC    72.12  72 P     46 37.40   0.1
      S.D. = 1.3  on   9 of  14 obs.
-----------------------------------------
   JUL  12, 1991  10h 00m 42.27± 0.32s
   33.632 S ± 6.7km  179.536 W ± 7.9km
   DEPTH =  51.5km  (  2 depth phases)
   5.1mb ( 12 obs.)
 SOUTH OF KERMADEC ISLANDS           (179)

HBZ     4.33 203 P     01 45.60  -1.6
PUZ     4.78 201 P     01 51.90  -1.7
NOZ     5.35 201 P     02 00.70  -0.8
TAZ     5.60 214 eP    02 06.40   1.3
UTU     5.71 216 eP    02 09.50   2.9
WLZ     5.78 222 P     02 09.90   2.4
                S      03 31.80
TTH     6.58 205 P     02 18.40  -0.4
NGZ     6.78 214 eP    02 21.50  -0.3
CNZ     6.82 214 P     02 23.20   0.9
MNG     8.03 208 P     02 34.00  -4.9X
                eS     04 01.90
KIW     8.47 210 P     02 39.60  -5.4X
CAW     8.61 208 eP    02 40.30  -6.6X
DIW     8.85 214 eP    02 46.50  -3.8X
MRW     8.86 209 eP    02 45.30  -5.1X
                S      04 22.50
WEL     8.88 209 eP    02 49.00  -1.6
                S      04 21.00
TCW     9.02 211 eP    02 47.10  -5.5X
THZ    10.08 214 eP    03 02.10  -5.1X
                S      04 52.00
KHZ    10.33 210 eP    03 04.20  -6.3X
                S      04 53.90
LTZ    11.17 213 eP    03 14.00  -8.0X
                S      05 14.70
MQZ    11.76 209 eP    03 21.40  -8.4X
                S      05 24.70
MSZ    14.69 218 P     04 07.90  -0.4
DZM    16.90 309 iPc   04 42.00   5.2X
TAU    27.47 241 eP    06 27.00   1.6
RMO    28.28 276 iPd   06 37.40   4.6X
        0.9s     52.00nm          5.2mb
CMS    29.19 265 iPd   06 43.70   2.7
HNR    30.60 317 eP    06 54.00   0.4
BFD    30.97 253 eP    06 57.90   1.2
CTAO   33.20 285 iPd   07 13.90  -2.5
        0.9s     25.95nm          5.1mb
                i(pP)  07 35.00  91kmX
QIS    38.39 279 iPd   08 02.00   1.6
ASPA   41.75 271 iPd   08 28.90   0.7
        0.7s     33.70nm          5.2mb
      Z  22s     0.40um          4.2MszX
                iS     14 42.60
                eScS   18 21.00
WR2    43.01 276 iPd   08 38.70   0.2
WRA    43.03 276 P     08 38.00  -0.7
        0.6s     30.60nm          5.2mb
FORR   43.99 259 eP    08 46.50   0.2
WARB   46.81 264 eP    09 08.00  -0.8
JAY    48.33 301 ePd   09 21.50   0.7
MTN    49.30 283 eP    09 28.50   0.3
COOL   49.64 256 eP    09 29.50  -1.3
        0.6s     12.00nm          5.1mb
CSY    51.69 209 iPc   09 45.40  -0.4
        0.4s     10.60nm          5.2mb
NWAO   52.10 252 eP    09 48.00  -1.4
        0.4s      3.00nm          4.7mb
KLB    52.13 254 iPd   09 48.20  -1.4
        0.6s     12.00nm          5.1mb
MUN    53.24 253 eP    09 56.00  -1.8
        0.6s     12.00nm          5.1mb
SPA    56.55 180 iPc   10 23.90   2.2
        1.0s     30.00nm          5.3mb
NANU   57.52 263 eP    10 27.00  -1.8
MAW    68.83 201 eP    11 42.60  -0.2
        1.0s     19.00nm          5.0mb
NVL    75.58 184 (P)c  12 26.50   3.8X
PRS    88.27  43 eP    13 28.90  -0.3
PRI    88.54  44 eP    13 31.90   1.2
BAR    88.59  49 eP    13 31.00   0.2
PAS    88.65  47 eP    13 32.00   0.9
LLA    88.71  43 eP    13 29.50  -1.8
MHC    88.83  42 eP    13 32.80   0.8
BKS    88.87  42 ePc   13 33.10   1.1
        0.7s     19.00nm          5.5mb
PLM    88.92  48 eP    13 32.00  -0.6
RVR    89.03  47 eP    13 33.00   0.1
SBB    89.22  47 eP    13 33.00  -0.9
ISA    89.50  45 eP    13 35.00  -0.1
FRI    89.69  44 eP    13 36.30   0.4
TPC    89.92  48 eP    13 38.00   0.9
CMB    90.02  43 eP    13 37.80   0.3
CLC    90.12  46 eP    13 38.00   0.0
GSC    90.26  47 eP    13 39.00   0.3
ORV    90.47  41 eP    13 39.60   0.1
WDC    90.63  40 eP    13 40.80   0.6
TNP    91.88  44 P     13 46.20   0.0
                pP     14 01.30  52km
SLKM   96.84  14 (P)   14 08.90   0.7
                pP     14 24.00  52km
FBA   101.30  13 Pdiff 14 27.50  -0.8
MBC   115.84  13 ePKPc 19 17.50  -2.1
        0.9s     17.00nm
SOB1  122.05 130 ePKP  19 37.90   4.7X
MSL   145.13 287 ePKP  20 12.50  -3.1X
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                    e      20 27.50
AKU   146.02  14 iPKPc 20 17.50   1.4
       0.9s    57.14nm
                    i      20 32.70
OBN   146.97 322 ePKP  20 15.30  -2.7
                    i      20 19.00
                    i      20 33.00
                    e      20 47.00
                    e      20 53.00
KAF   147.10 338 iPKP  20 18.50   0.5
       0.5s    13.00nm
NUR   148.83 337 iPKP  20 23.80   3.0X
UPP   151.43 342 iPKP  20 29.00   4.3X
NB2   151.70 349 PKP   20 30.30   5.1X
       0.7s    23.60nm
HFS   152.10 346 ePKP  20 28.30   2.6
       0.8s    34.90nm
LIC   152.26 168 PKP   20 33.72   6.4X
KIC   152.44 169 PKP   20 34.12   6.5X
TIC   152.67 168 PKP   20 34.56   6.6X
LKO   155.39 166 PKP   20 44.84  13.2X
CLL   160.11 336 e(PKP)20 34.00  -2.1
BRG   160.14 334 ePKP  20 35.10  -1.1
       1.6s    17.00nm
                    e      20 50.80
                    e      21 16.00
     S.D. = 1.3  on  60 of  82 obs.
-----------------------------------------
   JUL  12, 1991  10h 42m 21.21± 0.14s
   45.364 N ± 1.9km   21.057 E ± 1.5km
   DEPTH =  10.7km  (  4 depth phases)
   5.3mb ( 50 obs.)  5.7Msz ( 16 obs.)
 ROMANIA                          (358)
      MD 5.3 (TTG), 5.3 (TRI). ML 5.2
      (BRA), 5.0 (KRA). At leost 2
      people killed, 30 injured ond
      some buildings domoged (VIII) in
      the Banloc-Deto-Timisoara orea.
      Slight damage ot Belgrode,
      Yugoslavio. Felt in the
      Subotico-Nis area, Yugoslovia.
      Alsa felt at Sofia, Bulgorio ond
      Szeged, Hungary.
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 18S, 38C
      Centroid Location:
      Origin Time        10:42:25.4 0.5
      Lat 45.18N 0.05 Lon  21.04E 0.04
      Dep  15.0 FIX Half-durotion  2.2
      Moment Tensor;    Scole 10**17 Nm
        Mrr=-0.21 0.06  Mtt= 0.86 0.09
        Mff=-0.65 0.07  Mrt=-0.10 0.22
        Mrf=-0.52 0.19  Mtf= 2.38 0.05
       Principal Axes:
        T  Vol=  2.65  Plg= 8  Azm=143
        N        -0.20       78       15
        P        -2.45        9      235
      Best Double Couple:Mo=2.5*10**17
       NP1:Strike=279 Dip=78 Slip=  -1
       NP2:          9      89     -168

TIM     0.39  17 iP     42 30.00   0.8
                    i      01 31.00
                    i      12 22.00
BEO     0.69 218 iPgc   42 36.20   1.4
                    iSg    43 47.50
SSR     0.70 136 iP     42 33.00  -1.9
GZR     1.21  88 iPc    42 43.50  -0.3
DEV     1.40  67 iPc    42 47.00   0.4
UZD     2.12 306 iPn    42 57.70   0.7
TNR     2.28  82 iPc    42 52.00  -7.4X
PLE     2.36 211 iPnd   43 01.20   0.6
                    iSn    43 31.10
DRA     2.37 106 eP     43 02.00   1.4
BUD     2.54 327 iPn    43 03.00  -0.1
IVA     2.63 199 iPnd   43 05.10   0.7
                    iSn    43 38.20
PSZ     2.68 343 iPn    43 04.10  -1.0
CMP     2.81  91 iPd    43 11.00   4.0X
BLY     2.81 259 Pn     43 07.50   0.6
                    Sn     43 42.50
MTUR    2.83  91 ePc    43 08.50   1.2
                    e      13 50.50
BMR     2.86  35 iPc    43 10.00   2.4
PVY     2.88 196 iPnd   43 08.42   0.5
                    iSn    43 44.92

NKY     2.95 211 iPnd   43 09.20   0.2
                    iSn    43 45.55
BRY     3.06 217 iPnd   43 10.42   0.0
                    iSn    43 49.33
SRO     3.10 323 iPn    43 11.00   0.1
VTS     3.18 150 iPc    43 12.00  -0.2
TTG     3.21 204 iPnd   43 13.10   0.6
                    iSn    43 51.81
SKO     3.40 175 iPg    43 24.80   9.5X
      N  12s    140.02um
      E  10s    210.86um
                    i      43 54.50
                    iSn    43 56.50
                    iSg    44 09.00
                    LR     44 40.00
SKO     3.40 175 ePn    43 15.60   0.3
                    i      43 17.10
                    i      43 19.00
MLR     3.44  86 iPc    43 15.80  -0.2
HCY     3.45 213 iPnd   43 16.99   1.0
                    iSn    43 57.50
BDV     3.48 208 iPnd   43 17.61   1.3
                    iSn    43 58.13
SDA     3.53 199 iPnc   43 17.40   0.3
ZAG     3.59 279 iPn    43 18.00   0.1
                    iSg    44 22.20
PTJ     3.62 280 iPnc   43 18.20  -0.2
                    eSn    44 04.50
ULC     3.64 202 iPnd   43 19.58   0.8
                    iSn    44 02.22
BUC1    3.68 104 eP     43 20.50   1.3
PHP     3.70 187 iPnc   43 19.40  -0.2
BUC     3.71 103 iPc    43 20.10   0.5
PVL     3.75 123 iPd    43 18.00  -2.2
                    eS     44 18.00
KKB     3.79 156 iPd    43 21.00   0.1
LAC1    3.85 195 iPnd   43 24.00   2.3
SPC     3.87 352 iPnc   43 21.60  -0.5
                    e      02 43.00
ISR     3.88  91 eP     43 22.30   0.1
ZST     3.92 318 iPnc   43 22.00  -0.7
                    i(Sn)  44 08.10
                    Lg     44 56.00
HVAR    3.97 238 iPn    43 23.80   0.5
                    iSn    44 10.40
                    iSg    44 28.70
VRI     4.01  81 iPc    43 23.50  -0.4
PTT     4.02  65 ePd    43 27.00   2.9X
VBY     4.09 274 ePn    43 25.30   0.4
TIR     4.11 193 ePn    43 27.50   2.2
VAY     4.19 164 iPn    43 25.70  -0.7
          1.0s  8002.00nm
                    i      43 28.40
                    iSn    44 29.00
                    i      44 39.30
PLD     4.19 140 iPd    43 25.00  -1.5
BRD     4.22  86 ePd    43 31.50   4.6X
                    e      02 35.50
VIE     4.33 314 iPnc   43 28.30  -0.1
VKA     4.36 313 iPnc   43 28.10  -0.8
                    i      43 36.50
                    iSn    44 13.80
KNT     4.41 162 ePd    43 28.82  -0.8
RZN     4.54 143 iPc    43 31.00  -0.6
FNA     4.58 177 ePc    43 32.32   0.2
LJU     4.62 281 iPnc   43 32.30  -0.3
                    i      43 40.10
                    i      43 47.80
                    iSn    44 46.50
                    i      44 48.00
SRS     4.63 156 ePd    43 31.48  -1.3
DIM     4.64 134 iP     43 32.00  -0.8
PPE     4.67  77 eP     43 38.50   5.2X
                    e      02 45.50
                    e      13 42.00
CEY     4.67 277 ePn    43 33.00  -0.4
                    i      43 53.40
RIY     4.70 272 ePn    43 35.80   2.0
                    i(Sn)  44 28.30
KRA     4.76 351 iP     43 34.10  -0.4
      Z  12s     48.00um
                    iS     44 26.00
                    i      44 40.00
SOH     4.84 159 iPc    43 34.84  -1.0
KDZ     4.88 138 iPc    43 35.00  -1.3
THE     4.93 163 ePc    43 36.88  -0.1
TLB     5.01  96 ePd    43 36.50  -1.6

CFR     5.01  90 eP     43 37.00  -1.1
VOY     5.06 280 ePn    43 38.70  -0.2
                    e      44 53.20
                    e(Sn)  45 06.20
KZN     5.08 174 eP     43 47.00   7.8X
TPE     5.12 189 ePn    43 43.10   3.4X
TRI     5.14 276 iPnc   43 40.70   0.9
                    eSn    44 38.70
                    iSg    45 08.90
BAI     5.23 217 P      43 42.00   0.8
BRT     5.30 214 P      43 41.52  -0.7
RDO     5.34 141 eP     43 36.00  -6.7X
LIT     5.36 168 ePc    43 43.62   0.4
PSN     5.37 106 eP     43 42.00  -1.1
KMR     5.47 302 iPn+   43 45.00   0.4
                    iSn    44 45.60
                    i      46 11.20
LCI     5.52 205 P      43 43.90  -1.4
SRN     5.54 188 iPn    43 46.70   1.2
KBA     5.62 291 iPnc   43 47.20   0.3
                    i      44 23.40
                    iSn    44 49.10
KEK     5.72 190 eP     43 48.50   0.3
ALN     5.77 139 iPc    43 47.82  -0.9
PAIG    5.77 159 iPd    43 47.52  -1.2
IGT     5.85 186 ePd    43 51.44   1.4
FVI     5.90 285 P      43 50.60   0.0
DMK     6.02 124 iP     43 50.90  -1.4
DUI     6.06 235 P      43 53.70   0.8
VVI     6.08 279 P      43 53.30   0.1
ARV     6.10 255 P      43 53.40  -0.1
BHG     6.11 296 iPd    43 54.70   1.0
ORI     6.29 214 P      43 56.10  -0.1
AQU     6.30 244 P      43 57.40   1.1
RSM     6.30 260 P      43 56.50   0.2
KHC     6.33 309 iPc    43 55.90  -0.9
                    e      44 32.00
                    e      45 56.00
KSP     6.34 332 iPnc   43 55.40  -1.5
         0.6s    548.00nm          6.6mb X
                    iPg    44 11.40
                    iS     45 15.80
PRU     6.38 319 Pc     43 55.30  -2.2
                    e      44 27.20
                    S      45 08.10
SGO     6.39 223 P      43 57.10  -0.5
AGG     6.41 171 ePd    43 57.88   0.0
SDI     6.41 238 P      43 57.50  -0.4
ASS     6.45 252 P      43 59.00   0.4
RFI     6.56 234 P      44 00.22   0.2
CSI     6.60 214 P      44 00.00  -0.6
MGR     6.61 220 P      44 00.00  -0.7
CTI     6.62 279 P      44 00.10  -0.9
MMN     6.62 216 P      44 01.40   0.6
                    eSn    45 22.60
ROI     6.67 211 P      43 59.80  -1.8
TDS     6.68 213 P      44 00.60  -1.1
KGT     6.72 135 iP     44 00.10  -2.1
SFI     6.72 261 P      44 03.10   0.9
WET     6.73 307 iPc    44 01.20  -1.2
CRE     6.74 258 P      44 04.40   1.8
MNS     6.75 247 P      44 02.50  -0.1
EZN     6.76 143 iP     44 01.30  -1.5
WTTA    6.80 290 iPnd   44 04.30   0.8
                    i      44 47.40
                    iSn    45 21.00
PGD     6.83 261 P      44 04.20   0.3
WATA    6.85 290 iPnd   44 05.30   1.1
RMP     7.03 243 P      44 08.50   2.0
RDP     7.05 242 P      44 08.80   1.9
SQTA    7.07 289 iPnd   44 08.50   1.2
EDC     7.08 133 iP     44 05.50  -1.8
OGA     7.13 286 iPd    44 10.10   1.9
CZI     7.14 212 P      44 06.90  -1.2
ITU     7.20 123 iPc    44 07.00  -1.9
PRK     7.23 146 eP     44 08.00  -1.4
ISK     7.25 124 eP     44 11.00   1.3
FUR     7.28 296 iPd    44 11.20   1.1
BRG     7.28 322 iPn    44 06.60  -3.4X
         1.0s    150.00nm          6.1mb
                    i      44 28.60
                    i      45 29.70
                    i      45 40.00
                    i      45 40.60
                    i      46 03.80
                    i      46 32.00
GRI     7.39 209 P      44 10.02  -1.7
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12d 10h

SAL 7.41 276 P 44 12.50 0.7
MME 7.46 265 P 44 13.70 0.8
BDI 7.56 264 P 44 14.97 0.8
ATH 7.65 164 eP 44 21.00 5.8X
GBZT 7.65 124 ePn 44 13.50 -1.8
PII 7.70 261 P 44 16.00 0.1
OSS 7.71 284 ePd 44 17.50 1.2
MAO 7.74 251 P 44 17.20 0.7
YLV 7.76 125 eP 44 15.60 -1.2
HRT 7.76 123 eP 44 15.60 -1.3
HOF 7.91 312 eP 44 16.60 -2.3
GRFO 7.94 307 P 44 17.00 -2.3
MDI 7.97 277 P 44 19.30 -0.4
CLL 8.01 321 ePn 44 16.00 -4.2X
0.8s 39.00nm 5.7mb
Z 12s 80.00um
N 12s 90.00um
E 12s 50.00um
i 44 34.80
i(Sn) 45 48.00
i 46 58.00
DST 8.02 133 eP 44 18.80 -1.7
VDL 8.16 282 ePc 44 24.50 1.9
GMB 8.17 210 P 44 23.31 0.7
SOI 8.19 209 P 44 20.60 -2.1
EYL 8.22 123 iP 44 21.60 -1.7
MOX 8.24 313 iPc 44 21.00 -2.5
1.6s 250.00nm 6.2mb
Z 12s 53.30um 5.9Msz
N 12s 20.20um
E 11s 44.20um
iPg 45 00.00
ATN 8.32 212 P 44 22.00 -2.6
IZM 8.36 144 eP 44 24.30 -0.9
GPA 8.48 123 iP 44 28.10 1.2
LLS 8.51 284 ePc 44 28.00 0.5
TMA 8.56 279 ePc 44 28.50 0.4
VLI 8.75 170 eP 44 23.00 -7.6X
STU 8.78 297 ePd 44 29.00 -2.0
1.0s 440.00nm 6.7mb X
MNO 8.82 215 P 44 31.10 -0.6
PCP 8.91 269 P 44 32.25 -0.6
SLE 8.98 290 ePd 44 33.10 -0.7
ZLA 9.00 288 ePd 44 33.90 -0.2
GIB 9.05 218 P 44 34.10 -0.7
CKI 9.12 269 P 44 34.40 -1.3
PGF 9.14 256 eP 44 35.80 -0.3
1.1s 95.25nm 6.1mb
MMK 9.19 279 ePc 44 38.00 1.1
ORX 9.19 276 P 44 34.10 -2.7
ALT 9.21 130 iP 44 36.50 -0.5
FIN 9.21 267 P 44 35.22 -1.8
FEL 9.32 290 P 44 37.33 -1.3
CIN 9.38 143 eP 44 38.00 -1.2
ROB 9.43 268 P 44 38.51 -1.5
KHL 9.45 135 iP 44 38.40 -1.9
IMI 9.50 266 P 44 38.40 -2.6
DIX 9.57 279 ePc 44 43.40 1.2
BBS 9.59 287 P 44 41.28 -1.0
RSP 9.74 274 P 44 41.89 -2.4
ENR 9.76 268 P 44 43.53 -1.1
BHB 9.77 272 P 44 41.27 -3.4X
TNS 9.78 304 ePc 44 41.70 -3.1X
i 46 30.50
STV 9.83 268 P 44 43.73 -1.8
DOI 9.84 270 P 44 47.40 1.8
GWF 9.84 296 P 44 44.47 -1.1
YER 9.85 144 eP 44 43.90 -2.0
CVT 9.86 222 P 44 48.00 2.1
MOF 9.90 290 P 44 45.67 -0.9
CDF 9.92 293 eP 44 45.20 -1.5
0.9s 68.80nm 6.1mb
PZZ 9.94 270 P 44 44.14 -2.9X
ECH 9.95 292 P 44 45.68 -1.5
LOMF 10.04 286 P 44 47.11 -1.3
LPG 10.06 276 eP 44 48.90 0.0
0.8s 125.95nm 6.4mb X
LPL 10.07 276 eP 44 48.90 -0.1
KAS 10.08 109 eP 44 49.00 0.1
RRL 10.10 273 P 44 47.43 -2.0
BSF 10.13 289 eP 44 48.20 -1.4
0.8s 65.80nm 6.1mb
BNI 10.16 273 P 44 50.50 0.4
CALN 10.24 266 P 44 52.00 0.7
KOE 10.28 304 ePc 44 52.00 0.4
BGG 10.42 303 ePc 44 53.30 -0.3
HAU 10.45 290 eP 44 52.40 -1.6

0.6s 46.90nm 6.1mb
Z 10s 73.50um
FRF 10.46 265 eP 44 51.10 -3.0X
0.7s 39.70nm 5.9mb
CGL 10.56 240 P 44 57.72 2.1
LMR 10.62 264 eP 44 53.30 -3.0X
0.7s 28.65nm 5.8mb
BCK 10.65 135 eP 44 55.80 -1.0
LRG 10.69 265 eP 44 56.00 -1.2
1.2s 95.20nm 6.0mb
BNS 10.83 306 iPc 44 59.30 0.2
Z 11s 59.30um
i 47 46.50
STB 10.87 304 iPc 45 00.20 0.5
ELL 10.89 139 eP 44 59.30 -0.8
WLF 10.96 298 iP 45 01.75 0.9
CDR 11.05 267 ePd 45 01.40 -0.8
e 47 12.30
e 48 32.20
MEM 11.36 303 iPc 45 05.76 -0.6
ENN 11.47 304 iPc 45 07.50 -0.4
0.9s 180.00nm 6.4mb X
eS 47 11.00
WTS 11.51 310 eP 45 07.00 -1.4
0.8s 35.00nm 5.7mb
eS 47 34.00
KVT 11.74 106 eP 45 09.20 -2.4
LBF 11.95 284 eP 45 12.80 -1.7
0.4s 9.15nm 5.4mb
LOR 12.05 285 eP 45 14.60 -1.1
0.6s 18.05nm 5.5mb
Z 13s 72.50um
DOU 12.05 299 P 45 14.10 -1.6
S 48 17.00
COLF 12.20 277 P 45 15.49 -2.3
SSF 12.28 284 eP 45 17.70 -1.1
0.8s 20.80nm 5.4mb
AVF 12.38 283 eP 45 19.10 -1.1
0.8s 29.55nm 5.6mb
UCC 12.41 302 P 45 20.80 0.3
S 48 18.00
MAF 12.94 280 eP 45 26.20 -1.4
0.7s 24.25nm 5.5mb
TCF 13.18 281 eP 45 30.20 -0.7
0.7s 27.55nm 5.5mb
CAF 13.42 275 eP 45 32.50 -1.5
0.9s 20.45nm 5.1mb
PPCY 13.55 137 eP 45 46.00 10.2X
LSF 13.65 281 eP 45 35.80 -1.3
RJF 13.75 277 eP 45 37.50 -0.8
Z 12s 35.00um
OBN 13.89 40 iPd- 45 33.80 -6.3X
1.0s *******nm 8.5mb X
Z 16s 27.00um 5.2Msz
N 10s 23.50um
E 16s 24.00um
ePP 45 41.00
ePPP 45 50.00
e 46 40.00
eS 48 00.00
i 48 36.00
CSS 13.98 134 eP 45 46.00 4.6X
LFF 14.34 276 eP 45 45.80 -0.3
1.1s 70.80nm 5.2mb
UPP 14.66 353 iP 45 46.50 -3.7X
i 45 50.60
iS 48 20.00
LDF 14.81 290 eP 45 51.40 -0.8
FLN 15.06 291 eP 45 54.40 -1.0
0.9s 45.85nm 4.9mb
Z 11s 40.00um 4.3Msz
GRR 15.28 289 eP 45 57.80 -0.5
1.0s 24.00nm 4.5mb
NUR 15.32 7 iP 45 55.55 -3.2X
eS 48 28.00
LPF 15.39 288 eP 45 59.40 -0.3
BTH 15.40 269 eP 46 02.50 2.6
ePP 46 15.50
PPP 46 21.20
(sPPP) 46 32.50
eSn 48 24.00
SSS 49 09.00
eLg 51 10.00
PcP 51 27.50
ScP 54 30.00
eScS 58 40.00
HFS 15.44 346 eP 45 57.60 -2.7

0.8s 22.00nm 4.5mb
Z 15s 26.65um
LR 50 12.00
EBR 15.68 260 (P) 46 04.00 0.4
(S) 49 00.00
KONO 15.88 338 eP 46 06.00 0.0
BHL 16.01 131 P 46 08.00 0.0
S 49 10.00
ABA 16.03 244 iP 46 10.00 1.9
ADI 16.43 133 eP 46 15.00 1.7
NB2 16.74 343 P 46 13.70 -3.3X
0.7s 56.20nm 4.8mb
SHMJ 16.99 133 P 46 24.06 3.8X
ZNT 17.01 136 eP 46 22.00 1.5
KAF 17.06 8 iP 46 18.10 -2.8X
0.5s 37.30nm 4.8mb
BURJ 17.39 134 P 46 28.34 2.9X
ETOR 17.46 263 eP 46 22.90 -3.4X
HLW 17.47 149 eP+ 46 25.20 -1.1
eS 49 44.00
JARJ 17.47 133 P 46 27.58 1.2
SALJ 17.52 135 P 46 30.27 3.3X
KFNJ 17.63 135 P 46 31.37 3.1X
MASJ 17.76 135 P 46 31.82 1.8
EKA 18.30 312 P 46 38.00 1.5
1.5s 49.90nm 4.5mb
JRDJ 18.55 137 P 46 44.50 4.6X
EVIA 18.72 257 eP 46 43.98 2.2
CSTJ 18.73 134 P 46 41.65 -0.3
MSL 18.92 111 eP 46 48.00 3.9X
e 46 51.00
eS 50 20.50
eLQ 53 28.00
eLR 54 16.00
MBH 18.99 140 eP 46 46.00 0.8
GHZJ 19.00 136 P 46 44.99 -0.3
GUD 19.00 265 eP 46 45.45 0.2
EHUE 19.19 255 eP 46 49.23 1.7
ENIJ 19.37 253 eP 46 50.38 0.7
HOL 19.50 141 ePc 46 50.50 -0.7
DLF 19.56 304 eP 46 53.00 1.3
EBAN 19.83 257 eP 46 58.39 3.6X
DMU 19.92 305 eP 46 56.10 0.6
AFC 20.12 255 eP 46 58.36 0.3
ECOG 20.13 255 eP 46 59.24 1.2
TAB 20.17 102 eP 47 00.00 1.5
EGUA 20.36 254 eP 47 00.88 0.6
EPLA 20.58 265 eP 47 02.64 0.0
MAL 20.99 255 iPd 47 09.50 2.7X
iS 50 54.00
BHD 21.63 116 ePc 47 16.00 2.7X
eS 51 16.00
eSSS 52 36.00
SOD 22.26 6 iP 47 19.70 0.4
KER 22.72 110 ePc 47 28.00 3.6X
ASW 23.31 152 iPd 47 34.00 4.1X
eS 51 45.00
AMAN 23.46 152 iPd 47 36.00 4.6X
AGRW 23.68 152 iPd 47 41.00 7.4X
AGMR 23.69 153 iPd 47 40.50 6.8X
AKSR 23.76 152 iPd 47 39.00 4.7X
AGAL 23.89 152 iPd 47 41.00 5.4X
IR7 24.33 103 ePc 47 43.00 3.0X
TRO 24.36 358 eP 47 40.20 0.4
IR1 24.54 103 ePc 47 45.00 3.0X
IR5 24.57 104 eP 47 46.00 3.6X
KEV 24.64 5 iP 47 40.10 -2.4
eS 52 08.00
IR4 24.78 104 ePc 47 48.00 3.6X
AVE 24.97 251 iP 47 49.50 3.5X
i 48 12.00 104kmX
TIO 26.36 247 iP 48 01.00 1.8
KMSA 31.54 134 ePc 48 49.00 3.3X
ABHA 32.51 139 ePc 48 58.00 3.6X
AAE 39.29 152 eP 49 56.30 4.2X
KSH 40.31 78 P 50 04.00 3.8X
N 10s 9.20um
PP 51 40.00
S 56 14.00
LKO 42.41 221 P 50 17.82 0.4
0.8s 56.00nm 5.4mb
TIC 44.72 218 P 50 36.06 -0.1
0.8s 16.00nm 5.0mb
KIC 44.85 218 P 50 37.84 0.6
0.7s 18.50nm 5.1mb
LIC 45.10 218 P 50 39.80 0.6
0.6s 20.50nm 5.2mb

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      Z  20s      0.52um          4.5MszX
WMO     46.24  67 P      50 51.50   3.4X
      Z  20s      6.70um          5.6Msz
      N  11s      8.60um
      E  10s      5.10um
                   PP     52 40.00
                   sS     57 42.00
                   SS     01 00.00
NDI     46.88  91 iPc     50 57.50   4.3X
NAI     48.49 159 eP      51 10.00   3.8X
      Z  20s      1.24um          4.9Msz
                   ePP    53 06.00
                   eS     58 22.00
                   SS     02 06.00
FRB     50.40 325 iP      51 20.00   0.0
IRK     52.38  50 eP      51 39.80   4.5X
                   eS     59 09.00
                   eSS    02 47.00
                   eSSS   04 13.00
                   e      06 40.00
GKN     52.51  86 P       51 37.04   0.3
        0.8s    108.00nm          5.8mb
DMN     53.08  86 P       51 41.74   0.6
KKN     53.09  86 P       51 40.62  -0.5
PKI     53.32  86 P       51 43.34   0.4
        0.8s     29.00nm          5.3mb
GUN     53.44  86 P       51 41.02  -2.8X
MBC     56.04 349 ePc     52 02.50   0.7
        0.8s     28.00nm          5.3mb
LSA     56.05  80 eP      52 04.00   1.0
GTA     56.29  66 eP      52 06.60   2.4
        1.0s     10.00nm          4.8mb
      Z  19s      8.40um          5.9Msz
      E  10s      3.80um
                   pP     52 14.60  26kmX
YAK     58.74  32 eP      52 25.40   4.5X
                   e      53 54.00 423kmX
                   e      00 33.00
SHL     59.10  84 eP      52 24.50   0.3
                   iS     00 32.00
KOD     59.40 108 eP      52 29.00   2.5
PTZ     60.06 168 eP      52 32.00   1.4
                   i      52 34.10   7km
LSZ     60.70 172 iP      52 37.50   2.5
                   i      52 40.20   9km
LZH     60.82  67 eP      52 37.50   1.7
        2.0s     88.00nm          5.5mb
      Z  18s      7.11um          5.9Msz
      N  14s      4.59um
                   pP     52 42.00  15km
                   S      00 59.00
BTO     62.00  60 eP      52 46.00   2.2
      N  19s      7.20um
      E  16s      2.00um
                   ePP    55 06.00
                   eS     01 10.00
                   eSS    05 16.50
KRI     62.38 171 eP      52 48.20   1.8
                   iSS    06 18.50
NPA     62.39 160 iP      52 50.00   3.7X
MTD     62.58 169 iPc     52 52.00   4.4X
                   iSS    06 23.20
HHC     62.78  59 eP      52 50.00   1.1
      Z  20s      9.30um          6.0Msz
      N  16s      3.00um
      E  12s      3.80um
                   PP     55 14.00
                   S      01 24.50
CD2     63.93  72 eP      52 58.40   1.9
      Z  17s      2.16um          5.4MszX
      E  11s      1.55um
INK     65.06 350 ePd     53 02.40  -0.8
TIY     65.26  61 eP      53 11.00   5.9X
      Z  18s      4.60um          5.7Msz
      N  13s      2.40um
      E  12s      2.08um
                   SS     06 06.00
XAN     65.36  66 P       53 08.00   2.3
      N  16s      6.20um
      E  17s      4.00um
BUL     65.55 172 eP      53 08.00   1.0
                   i      53 11.90  13km
                   i      53 23.90
BJI     66.04  57 eP      53 10.00   0.1
      Z  20s      5.67um          5.8Msz
      N  12s      3.71um
      E  12s      3.15um
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                   ePP    55 40.00
                   eSS    06 20.00
YKA     66.80 339 eP      53 14.10  -0.3
        0.9s      7.70nm          4.9mb
KMI     66.93  77 Pc     53 17.50   1.4
      Z  20s      3.50um          5.6Msz
                   S      02 12.00
CHG     68.44  85 eP      53 26.00   0.6
        1.1s     28.80nm          5.4mb
GYA     68.73  74 P       53 24.00  -3.3X
CN2     68.76  49 eP      53 34.00   7.0X
      Z  16s     12.70um          6.2MszX
      N  14s      2.95um
      E  14s      4.63um
                   ePP    56 02.00
                   eS     02 28.00
                   sS     02 39.00
                   eSS    06 58.00
IMA     68.83 358 eP      53 30.10   2.8X
SNY     69.09  51 eP      53 27.40  -1.6
      N  14s      4.20um
      E  15s      3.70um
                   S      02 41.00
TIA     69.09  59 eP      53 32.60   3.4X
      Z  26s      2.60um          5.4MszX
      N  13s      2.40um
      E  13s      1.90um
FFC     69.22 329 eP      53 29.00  -0.7
        0.8s      9.00nm          5.0mb
FBA     69.73 355 eP      53 33.80   1.2
SLR     71.06 173 eP      53 43.50   2.2
        1.5s     83.33nm          5.6mb
TTA     72.03 359 P       53 48.20   1.6
PRY     72.18 174 eP      53 51.50   3.5X
        0.5s      2.70nm          4.6mb
TOA     72.39 354 eP      53 50.20   1.4
NJ2     72.94  62 eP      53 50.50  -1.9
      Z  18s      1.50um          5.3Msz
      N  15s      2.80um
      E  11s      0.80um
KLU     72.98 354 P       53 53.50   1.2
PMR     73.10 355 eP      53 54.10   1.3
        0.9s     18.40nm          5.2mb
SEK     73.58 174 iPd     54 02.60   6.5X
        1.2s     15.63nm          4.9mb
SVW     73.85 358 eP      53 59.40   2.1
FRS     74.86 176 eP      54 02.20  -1.0
        0.7s      6.85nm          4.8mb
SSE     75.04  61 eP      54 17.00  12.4X
      Z  20s      3.70um          5.7Msz
      N  14s      2.10um
      E  14s      1.80um
                   eS     03 44.00
                   esS    04 02.00
                   SKS    04 12.00
                   SS     08 36.00
PDB     75.14 358 P       54 05.00   0.3
SES     75.97 331 eP      54 10.00   0.4
SIT     76.05 347 P       54 13.20   3.3X
        0.8s     24.14nm          5.3mb
ELC     76.53 310 P       54 14.70   1.7
FVM     76.67 311 P       54 12.50  -1.2
PWLA    77.58 307 P       54 18.50  -0.3
SOB1    77.61 243 eP      54 21.20   2.0
CER     78.37 182 eP      54 33.50  10.6X
RSSD    78.46 323 P       54 33.00   9.2X
      Z  19s      5.03um          5.9Msz
PNT     79.67 335 eP      54 32.00   2.0
        0.8s     10.00nm          4.9mb
IPM     79.71  94 ePc     54 34.00   3.3X
NEW     79.83 333 P       54 32.40   1.5
        0.9s      8.77nm          4.7mb
LRM     80.35 329 eP      54 34.90   0.9
MAT     80.72  47 (PKP)   54 37.00   1.2
      Z  20s      3.90um          5.8Msz
TUL     81.05 313 eP      54 37.70   0.2
        0.8s     30.00nm          5.4mb
      Z  20s      3.50um          5.7Msz
      N  20s      1.41um
      E  20s      2.36um
                   LR     28 21.00
BW06    81.83 326 P       54 42.80   1.0
        1.0s      7.25nm          4.7mb
GMW     82.18 336 P       54 45.70   2.4
GLD     82.53 321 P       54 50.00   4.6X
      Z  18s      2.94um          5.7Msz
GOL     82.63 321 P       54 47.60   1.5
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        1.0s      6.13nm          4.7mb
      Z  19s      1.65um          5.4Msz
MEO     83.35 314 e(P)    54 50.00   0.4
ANMO    87.04 319 P       55 11.40   3.3X
        0.9s      6.93nm          4.9mb
ALO     87.04 319 eP      55 09.00   0.8
        0.9s      2.10nm          4.4mb
      Z  19s      4.17um          5.9Msz
BONR    89.34 329 P       55 24.10   4.8X
CMB     90.01 331 ePc     55 21.00  -1.1
GSC     91.12 327 eP      55 33.00   5.7X
ISA     91.44 328 eP      55 32.00   3.3X
SIV     95.81 253 (P)     55 50.00   1.1
WRA    120.18  88 PKP     01 15.00   1.1
        1.0s      1.50nm
ASPA   122.28  92 ePKP    01 22.60   4.8X
        0.7s      2.90nm
SBA    144.73 168 (PKP)   02 00.30   2.2
      S.D. = 1.3  on 298 of 375 obs.
-----------------------------------
*  JUL  12, 1991  11h 01m 35.83± 0.93s
   45.516 N ± 9.1km   20.588 E ±10.5km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                        (383)

BEO      0.70 188 iPg    01 49.00  -0.7
                  eSg    02 00.00
UZD      1.76 308 e(Pn)  02 05.00  -1.6
BUD      2.25 332 ePn    02 14.30   0.7
PSZ      2.45 349 iPn    02 15.20  -1.4
PTJ      3.27 278 iPc    02 29.60   1.4
ZST      3.59 320 i(Pn)  02 33.50   0.8
MLR      3.77  88 eP     02 36.00   0.7
      S.D. = 1.5  on   7 of   7 obs.
-----------------------------------
*  JUL  12, 1991  11h 12m 15.01± 0.85s
   45.447 N ± 8.5km   21.081 E ± 9.3km
   DEPTH =  10.0km  (geophysicist)
 ROMANIA                           (358)

BEO      0.77 216 iPg    12 31.50   1.5
                  iSg    12 43.00
DEV      1.35  70 iPd    12 41.50   1.7
UZD      2.08 304 e(Pn)  13 01.00  10.6X
BUD      2.48 326 ePn    12 56.20   0.1
PSZ      2.60 342 iPn    12 57.10  -0.8
BMR      2.78  36 iPc    13 15.00  14.6X
MLR      3.42  88 ePd    13 18.00   8.4X
SKO      3.48 176 eP     13 17.00   6.7X
                  i      13 22.00
PTJ      3.62 279 iPnc   13 11.80  -0.6
                  eSn    13 57.40
SPC      3.79 352 ePn    13 15.40   0.6
                  e      13 31.20
                  e      39 01.80
                  e      39 16.60
                  e      40 10.40
ZST      3.88 317 i(Pn)  13 15.50  -0.4
                  i(Sg)  39 07.50
VRI      3.98  82 eP     13 21.00   3.6X
                  e      24 00.00
VAY      4.26 165 eP     13 28.00   6.6X
KGT      6.76 135 ePn    13 54.60  -2.1
      S.D. = 1.5  on   8 of  14 obs.
-----------------------------------
?  JUL  12, 1991  11h 25m 29.83± 5.30s
   35.555 S ±24.8km  178.998 E ±27.0km
   DEPTH =  67.7 ± 37.3 km
   5.2mb ( 10 obs.)
 OFF E. COAST OF N. ISLAND, N.Z. (160)

WEL      6.61 209 P      27 06.00  -0.5
                  S      28 15.00
STK     31.21 266 eP     31 45.90   1.1
        0.6s      7.60nm          4.6mb
CTAO    32.62 289 iP     31 59.00   1.8
ASPA    40.64 274 iPc    33 04.80  -0.1
        0.6s     17.30nm          5.1mb
WR2     42.08 280 eP     33 16.70   0.0
                  i      33 20.10
WRA     42.10 280 P      33 16.00  -0.9
        0.3s     36.20nm          5.7mb
FORR    42.47 261 eP     33 21.00   1.3
        0.4s     26.00nm          5.4mb
COOL    48.03 258 iPd    34 04.30   0.1
        0.4s      6.00nm          4.9mb
CSY     49.42 210 iPd    34 13.30  -1.0
```

12d 11h

```
        0.5s    10.80nm          5.1mb
NWAO   50.39 254 iPd   34 21.70  -0.4
        0.4s     6.00nm          5.0mb
     Z  20s      0.40um          4.4Msz
KLB    50.46 256 iPd   34 22.40  -0.3
        0.6s    19.00nm          5.3mb
MUN    51.54 255 iPd   34 30.70  -0.2
        0.7s    31.00nm          5.4mb
SPA    54.63 180 iPc   34 56.20   2.6
        1.1s    35.71nm          5.3mb
NANU   56.12 265 eP    35 03.00  -1.6
MAW    66.60 202 eP    36 14.00  -0.6
MBC   117.99  14 ePKP  44 08.00  -1.1
        0.6s     5.00nm
KIC   150.74 172 PKP   45 14.40   3.9X
UPP   152.84 339 iPKP  45 30.20  18.1X
      S.D. = 1.3  on  16 of  18 obs.
-----------------------------------------
*  JUL  12, 1991  11h 37m 59.09± 0.53s
   45.344 N ± 5.2km   21.063 E ± 6.2km
   DEPTH =  10.0km  (geophysicist)
 ROMANIA                              (358)

TIM     0.41  16 iPc   38 08.00   0.6
BEO     0.68 220 iPg   38 13.50   1.0
                iSg    38 26.00
DEV     1.40  67 ePd   38 26.00   1.4
UZD     2.13 307 ePn   38 35.50   0.3
BUD     2.56 327 iPn   38 41.20  -0.1
PSZ     2.70 343 iP    38 42.30  -1.1
CMP     2.81  90 ePc   38 54.00   9.1X
BLY     2.81 259 eP    38 57.80  12.9X
                eSn    39 32.80
VTS     3.16 150 iP    38 50.00   0.1
SKO     3.38 175 ePn   38 57.30   4.3X
MLR     3.44  86 ePc   39 01.00   7.1X
                e      00 09.00
PTJ     3.63 281 e(Pn) 38 55.50  -1.0
                eSn    39 40.60
KKB     3.77 156 eP    38 59.00   0.4
HVAR    3.96 238 ePn   39 01.90   0.7
VBY     4.09 274 e(Pn) 39 18.00  15.0X
                eSn    40 16.50
RZN     4.52 143 iP    39 09.00  -0.2
CEY     4.68 277 ePn   39 30.00  18.5X
KDZ     4.86 138 iP    39 12.00  -2.0
VOY     5.07 280 e(Pn) 39 37.80  20.8X
      S.D. = 1.1  on  12 of  19 obs.
-----------------------------------------
%  JUL  12, 1991  12h 05m 30.18± 0.61s
   42.844 N ± 4.3km   13.916 E ± 6.7km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                        (381)

AQU     0.62 218 P     05 42.10  -0.6
                eSg    05 52.00
ASS     0.95 284 P     05 47.80  -0.5
                eSg    06 02.50
ARV     0.97 313 P     05 49.00   0.4
                eSg    06 04.20
MNS     1.02 244 P     05 48.90  -0.6
                eSg    06 03.80
SDI     1.14 184 P     05 51.20  -0.4
                eSg    06 08.50
DUI     1.25 161 P     05 54.00   0.6
RMP     1.37 221 P     05 56.00   0.7
RDP     1.40 220 P     05 56.10   0.3
RSM     1.52 316 P     05 58.10   0.7
CRE     1.64 299 P     05 59.40   0.2
SFI     1.85 306 P     06 03.80   1.6
PGD     1.90 304 P     06 03.70   0.6
MAO     2.08 259 P     06 04.70  -0.9
SGO     2.51 155 P     06 11.90   0.3
BDI     2.71 298 P     06 15.00   0.4
MGR     2.97 155 P     06 18.00  -0.2
CTI     3.59 334 P     06 25.00  -2.1
                eSn    07 06.00
FVI     3.84 348 P     06 30.00  -0.5
      S.D. = 0.9  on  18 of  18 obs.
-----------------------------------------
*  JUL  12, 1991  12h 09m 32.02± 0.79s
   45.435 N ± 7.9km   20.961 E ± 8.1km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                           (383)

BEO     0.71 210 iPg   09 46.00   0.0
                iSg    09 57.00
DEV     1.43  71 ePd   09 57.00  -1.1
TNR     2.34  83 ePc   10 12.00   0.9
PSZ     2.59 344 iP    10 14.60  -0.1
CMP     2.88  92 ePd   10 26.00   7.2X
SKO     3.48 174 eP    10 35.00   7.7X
MLR     3.51  87 ePd   10 35.00   7.2X
PTJ     3.54 279 eP    10 39.00  10.8X
SPC     3.79 353 e(Pn) 10 32.40   0.5
                i      10 48.50
ZST     3.83 318 i(Pn) 10 32.00  -0.2
                i      10 39.10
VAY     4.28 164 ePn   10 48.60  10.0X
      S.D. = 0.9  on   6 of  11 obs.
-----------------------------------------
%  JUL  12, 1991  12h 11m 48.72± 0.89s
   39.138 N ± 7.0km   27.667 E ± 8.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                               (366)
      MD 2.8 (ISK).

IZM     0.80 203 ePg   12 04.30   0.0
                eSg    12 16.90
DST     0.88  58 ePn   12 05.70   0.1
EDC     1.22   7 ePn   12 11.50   0.1
EZN     1.24 304 ePn   12 12.00   0.2
KGT     1.34 348 ePn   12 13.10  -0.3
      S.D. = 0.3  on   5 of   5 obs.
-----------------------------------------
&  JUL  12, 1991  12h 22m 14.03s
   58.663 N          150.648 W
   DEPTH =  52.8km
 GULF OF ALASKA                       ( 15)
      <AEIC>.

SYI     0.91 267 iPd   22 30.22  -0.6
                eS     22 41.92
CNPM    0.92 341 iPc   22 30.10  -0.8
                eS     22 41.98
XLV     0.97 326 iPc   22 30.69  -0.9
HOM     1.12 333 iPc   22 33.26  -0.4
                eS     22 47.85
KDC     1.34 228 iPd   22 35.95  -0.7
                eS     22 51.96
NNL     1.42 347 iPc   22 37.28  -0.6
SEW     1.57  22 ePd   22 38.50  -1.4
AUE     1.57 298 iPd   22 39.58  -0.4
CDD     1.58 281 ePd   22 39.52  -0.6
                eS     22 58.11
AUI     1.59 296 eP    22 39.76  -0.4
                eS     22 58.24
AUH     1.61 297 ePd   22 40.26  -0.3
IVS     1.84 318 iPc   22 42.51  -1.4
                eS     23 04.14
SLKM    1.86   7 iPc   22 42.72  -1.4
MCNL    1.98 287 eP    22 44.49  -1.3
LTI     1.99  45 ePd   22 44.54  -1.3
MTU     2.03  48 eP    22 44.96  -1.5
                S      23 09.23
RED     2.07 329 iPc   22 45.27  -1.7
                S      23 09.91
NKA     2.11 352 eP    22 47.47   0.0
REF     2.11 331 iPc   22 45.90  -1.8
                eS     23 11.18
RDT     2.12 336 iPc   22 45.69  -2.0
                eS     23 11.13
RDW     2.13 330 iPc   22 46.13  -1.9
                S      23 11.99
PDB     2.14 303 iPc   22 46.54  -1.4
                S      23 10.75
RDN     2.15 331 iPc   22 46.28  -1.9
                S      23 11.89
DFR     2.19 333 ePc   22 46.64  -2.2
                eS     23 13.04
NCT     2.23 330 ePc   22 47.42  -1.9
KNIM    2.25  40 ePd   22 47.96  -1.6
                eS     23 13.07
SPU     2.62 345 iPc   22 52.77  -2.1
                eS     23 23.76
PMS     2.65  11 ePc   22 53.77  -1.4
                S      23 23.04
CKL     2.68 342 ePc   22 53.63  -2.1
                S      23 26.31
HIN     2.74  49 eP    22 55.48  -1.0
CGLM    2.74 346 eP    22 54.87  -1.7
                eS     23 26.91
SUA     2.81 359 ePc   22 55.60  -2.0
                eS     23 27.71
NCG     2.85 345 ePc   22 56.50  -1.7
                eS     23 29.33
GLI     2.86  37 iPd   22 56.17  -2.0
KNK     2.97  21 eP    22 58.18  -1.6
PLRM    3.04  14 ePc   22 58.46  -2.2
CVA     3.13  51 iPd   23 00.75  -1.2
                eS     23 34.48
VZW     3.17  39 eP    23 00.94  -1.7
GHO     3.24  15 ePc   23 02.00  -1.6
VLZ     3.30  39 ePd   23 03.02  -1.3
SGAM    3.33  54 eP    23 03.72  -1.1
SKT     3.36 353 eP    23 03.38  -1.9
                eS     23 40.91
RAGM    3.50  58 eP    23 05.85  -1.4
HMT     3.66  60 eP    23 08.37  -1.2
KLU     3.70  38 eP    23 08.46  -1.6
TOA     4.11  31 eP    23 14.96  -0.9
WAX     4.35  62 eP    23 17.47  -1.8
GLB     4.42  48 ePd   23 18.19  -2.0
TGL     4.48  59 eP    23 19.51  -1.6
BALM    4.82  57 iPd   23 24.17  -1.7
PAX     5.01  28 eP    23 27.31  -1.3
PNL     5.88  75 iPd   23 38.70  -2.0
        52 obs. associated
-----------------------------------------
%  JUL  12, 1991  12h 26m 48.60± 1.82s
   16.651 N ±17.8km   97.678 W ± 9.7km
   DEPTH =  33.0km  (normal)
 OAXACA, MEXICO                       ( 60)

OXX     1.01  65 iP    27 06.74   0.1
ACX     2.10 276 iP    27 21.85  -0.3
III     2.42 315 eP    27 28.28   1.4
IIT     2.43 346 iP    27 27.14   0.0
PPM     2.57 340 eP    27 29.31   0.1
IIA     2.65 340 eP    27 30.38   0.4
UNM     3.03 332 eP    27 34.00  -1.6
      S.D. = 1.1  on   7 of   7 obs.
-----------------------------------------
?  JUL  12, 1991  12h 33m 28.32± 1.41s
   45.474 N ±15.3km   20.980 E ±18.1km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                           (383)

TIM     0.31  33 iP    33 35.00   0.2
                e      36 31.00
BEO     0.75 210 iPg   33 43.00   0.0
                iSg    33 54.50
DEV     1.41  72 ePc   33 53.00  -1.0
UZD     2.01 305 e(Pn) 34 26.00  23.4X
TNR     2.32  84 ePc   34 08.00   0.8
MLR     3.49  88 ePd   34 30.50   6.6X
      S.D. = 1.3  on   4 of   6 obs.
-----------------------------------------
   JUL  12, 1991  13h 05m 25.75± 0.84s
   49.151 N ± 7.1km    6.914 E ± 9.4km
   DEPTH =  10.0km  (geophysicist)
 GERMANY                              (543)
      ML 2.5 (STR).

GWF     0.50 110 Pg    05 35.04  -0.8
WLF     0.72 316 iPd   05 38.51  -1.3
                iS     05 48.02
CDF     0.78 162 Pg    05 39.93  -1.0
VITF    1.12 214 Pg    05 45.88  -0.9
MOF     1.31 174 Pg    05 49.85  -0.2
                Sg     06 07.80
BSF     1.32 184 Pg    05 50.36   0.1
FEL     1.47 150 Pg    05 53.08   0.7
                Sg     06 13.01
ENN     1.74 339 ePn   05 57.50   1.4
        0.5s    14.00nm
LOMF    1.80 182 Pg    05 59.23   2.1
      S.D. = 1.3  on   9 of   9 obs.
-----------------------------------------
?  JUL  12, 1991  13h 06m 18.49± 0.98s
   39.099 N ± 8.5km   27.609 E ± 9.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                               (366)
      MD 2.5 (ISK).

IZM     0.75 201 ePg   06 33.30   0.1
                eSg    06 44.80
DST     0.94  57 ePn   06 36.20  -0.2
EZN     1.23 307 ePn   06 41.00  -0.4
KGT     1.37 350 ePn   06 44.10   0.5
      S.D. = 0.6  on   4 of   4 obs.
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---------------------------------------
   JUL  12, 1991  13h 18m 44.30± 0.77s
   45.426 N ± 7.6km   20.772 E ± 7.5km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                        (383)

TIM      0.44  45 eP     18 54.00   0.7
BEO      0.64 200 iPg    18 57.00  -0.2
                  iSg    19 08.50
UZD      1.92 308 e(Pn)  19 26.00   8.7X
BUD      2.39 330 e(Pn)  19 24.00   0.0
TNR      2.47  84 ePc    19 25.00  -0.3
PSZ      2.57 347 eP     19 25.70  -1.0
PTJ      3.41 280 e(Pn)  19 39.40   0.8
SKO      3.49 172 ePn    19 46.00   6.3X
     S.D. = 0.8  on   6 of   8 obs.
---------------------------------------
?  JUL  12, 1991  13h 26m 44.41± 2.48s
   35.930 S ±45.2km   17.817 W ±24.4km
   DEPTH =  10.0km  (geophysicist)
   4.8mb (  1 obs.)
 SOUTH ATLANTIC RIDGE              (410)

SOB1    33.90 316 (P)   33 30.00   0.4
SIV     43.24 286 P     34 49.00   1.3
LIC     43.62  19 P     34 51.02   0.4
KIC     43.82  19 P     34 51.54  -0.8
        1.1s    18.00nm          4.8mb
TIC     44.02  18 P     34 53.48  -0.5
CNCB    48.25 280 P     35 27.00  -1.2
ZOBO    48.66 280 P     35 31.00  -0.4
SKO     85.45  28 eP    39 24.00   0.8
PRU     90.21  20 eP    39 49.50   3.6X
                  e     39 54.20
                  e     56 55.00
                  eSg   57 58.00
                  e     58 02.00
CLL     90.99  19 e(P)  39 58.00   8.6X
IRK    136.56  49 ePKP  45 56.70 -11.2X
SSE    145.66  86 PKPc  46 30.50   5.8X
        1.0s    12.00nm
     S.D. = 1.0  on   8 of  12 obs.
---------------------------------------
   JUL  12, 1991  13h 29m 44.71± 0.67s
   26.887 S ± 7.2km   26.667 E ± 7.3km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA          (584)
      mbLg 3.7 (BUL).

PRY      0.72  93 iPc    29 59.00  -0.1
        1.0s   820.00nm
                  S     30 09.00
SEK      1.66 149 iPd    30 19.60   4.8X
                  S     30 39.60
SLR      1.85  52 iPd    30 21.00   3.5X
                  S     30 44.00
FRS      3.09 202 iPd    30 35.70   0.7
                  S     31 08.70
HVD      3.84 195 eP     30 37.50  -8.5X
                  S     31 24.40
JOZ      4.85  98 iPc    31 00.70   0.5
                  S     31 52.20
BUL      6.95  15 iPnc   31 31.50   1.7
                  iSn   32 45.30
                  iSg   33 20.40
CER      9.07 223 iPd    31 57.80  -1.6
                  S     33 33.20
WIN      9.70 294 eP     32 08.00  -0.2
        0.9s   105.04nm          6.3mb X
     Z  22s     30.74um          3.9MszX
                  S     33 30.00
KRI     10.38  16 iPn    32 17.00  -0.4
                  iSn   34 07.50
                  iLg   35 07.50
MTD     11.04  25 iPn    32 25.60  -0.9
                  iSn   34 17.00
                  iLg   35 25.00
LSZ     11.64   7 iPn    32 34.00  -0.7
                  iSn   34 39.00
                  iSg   35 52.30
PTZ     13.31  20 iPn    32 56.10  -1.0
                  iSn   35 21.00
                  iSg   36 37.00
TIC     45.31 313 P      38 07.60   2.0
PMR    145.19 356 PKP    49 28.00   3.6X
        1.0s     1.80nm
TNP    147.74 299 PKP    49 37.00   7.4X
        1.0s    15.00nm
     S.D. = 1.3  on  11 of  16 obs.
---------------------------------------
*  JUL  12, 1991  13h 51m 23.78± 0.90s
   18.523 S ±10.9km   69.736 W ±10.0km
   DEPTH = 126.2 ± 10.8 km
   4.0mb (  1 obs.)
 NORTHERN CHILE                    (123)

CNCB     2.39  45 P      52 03.30  -0.2
LP8      2.52  39 iPc    52 05.80   0.7
        1.0s   120.00nm
                  i     52 35.00
ARE      2.65 320 iP     52 08.00   1.4
                  iS    52 39.00
ZOBO     2.72  35 iPd    52 07.30  -0.5
CCH      3.60  72 iPc    52 19.20  -0.1
ANT      5.19 187 eP     52 40.50   0.1
SIV      8.65  74 Pc     53 23.30  -4.2X
NNA      9.44 312 eP     53 36.00  -2.2
        0.7s     4.79nm          4.4mb X
                  eS    55 16.50
LIC     68.35  75 P      02 13.40  -0.5
KIC     68.66  75 P      02 15.40  -0.5
YKA     88.13 341 eP     04 02.70   1.8
        0.8s     1.40nm          4.0mb
     S.D. = 1.4  on  10 of  11 obs.
---------------------------------------
*  JUL  12, 1991  13h 55m 15.11± 0.61s
   45.589 N ± 6.9km   20.987 E ± 6.2km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                        (383)

TIM      0.22  48 eP     55 20.00   0.1
BEO      0.85 206 iPg    55 29.50  -2.1
                  iSg    55 38.20
GZR      1.27  98 ePd    55 36.00  -2.8
DEV      1.37  77 ePc    55 40.50   0.2
UZD      1.95 302 e(Pn)  55 50.00   1.4
TNR      2.31  87 ePd    55 55.00   1.2
PSZ      2.45 343 iPn    55 55.50  -0.3
DRA      2.49 110 ePd    56 13.00  16.8X
BMR      2.71  39 iPc    56 10.00  10.5X
BLY      2.82 254 ePn    56 17.00  16.0X
                  eSn    56 53.00
MTUR     2.89  96 eP     56 06.00   3.8X
VTS      3.40 151 iP     56 11.00   1.6
MLR      3.48  90 eP     56 14.00   3.4X
PTJ      3.53 277 iPnc   56 09.70  -1.5
                  eSn    56 55.20
SKO      3.63 175 ePn    56 15.20   2.7X
                  e      56 19.40
SPC      3.64 352 e(Pn)  56 18.60   5.8X
                  e      56 31.90
                  e      57 35.10
ZST      3.73 316 i(Pn)  56 13.50  -0.4
                  i      56 19.50
                  i      56 27.00
                  i      57 03.50
KKB      4.02 157 eP     56 18.00   0.0
VBY      4.03 271 e(Pn)  56 36.50  18.4X
                  e(Sn)  57 39.00
VRI      4.03  84 eP     56 17.00  -1.1
VAY      4.42 164 ePn    56 20.50  -3.2X
MMB      4.47 153 eP     56 26.00   1.6
LJU      4.54 278 e(Pn)  56 47.00  21.6X
                  eSn    57 53.50
RZN      4.75 144 iP     56 23.00  -5.6X
VOY      4.98 278 e(Pn)  56 49.00  17.3X
KDZ      5.08 139 iP     56 34.00   0.9
KHC      6.15 308 eP     56 49.50   1.2
                  eSg    58 20.00
     S.D. = 1.5  on  15 of  27 obs.
---------------------------------------
%  JUL  12, 1991  14h 53m 13.76± 0.79s
   41.143 N ±14.1km   28.467 E ± 8.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      MD 2.8 (ISK).

CTT      0.03 279 iPg    53 15.60  -0.2
                  iSg    53 17.10
ISK      0.45 100 iPg    53 22.60  -0.4
DMK      0.86 322 iPn    53 30.40   0.0
HRT      0.96 109 iPn    53 32.60   0.5
IZI      1.11 136 iPn    53 34.60   0.0
     S.D. = 0.5  on   5 of   5 obs.
---------------------------------------
   JUL  12, 1991  14h 59m 48.27± 1.07s
   10.818 S ± 4.3km  166.103 E ± 4.6km
   DEPTH = 201.7 ± 10.3 km
   5.2mb ( 18 obs.)
 SANTA CRUZ ISLANDS                (184)

HNR      6.22 282 eP     01 19.00  -0.1
BKM      7.12 163 iPc    01 31.00   0.1
DZM     11.19 178 iPc    02 25.20   1.2
                  iS     04 24.90
PMG     18.71 273 eP     03 53.00  -1.0
        1.2s   250.00nm          5.6mb
CTAO    21.21 242 iPd    04 21.00   1.8
        1.0s   140.00nm          5.4mb
                  i(pP)  04 37.50  75kmX
                  isP    04 50.50
                  iS     08 08.00
RMO     22.61 224 iPc    04 35.70   3.0
        0.7s    71.00nm          5.4mb
JAY     26.52 286 ePd    05 08.70  -0.6
OIS     27.25 246 iPd    05 15.60  -0.2
CMS     27.84 219 iPc    05 21.70   0.7
HBZ     28.83 160 P      05 29.10  -0.7
PUZ     29.25 160 P      05 32.20  -1.3
WHH     29.45 163 P      05 36.10   0.8
NGZ     29.48 165 eP     05 36.70   1.0
NOZ     29.67 161 P      05 35.70  -1.4
MNG     30.82 166 P      05 46.10  -1.1
        0.5s   157.00nm          6.0mb
STK     30.85 223 eP     05 48.30   0.7
        0.5s    15.10nm          5.0mb
KIW     30.92 167 eP     05 47.30  -0.8
PGZ     31.01 165 eP     05 47.60  -1.3
TCW     31.12 168 eP     05 49.10  -0.7
CAW     31.19 167 P      05 49.50  -0.9
MRW     31.23 167 eP     05 49.60  -1.1
                  e      05 51.90
WDW     31.32 167 eP     05 50.20  -1.4
THZ     31.40 170 P      05 52.30   0.0
WR2     31.87 250 eP     05 55.70  -0.9
                  e      06 05.50
                  eS     10 51.80
                  eScP   13 20.00
KHZ     32.14 170 eP     05 57.50  -1.2
LTZ     32.29 171 P      06 00.10   0.0
ASPA    33.21 243 iPc    06 06.70  -1.5
        1.0s    81.00nm          5.3mb
     Z  21s     0.10um           3.5Msz
                  eS     11 10.20
                  iScP   12 15.70
                  iScS   16 12.90
MSZ     33.77 178 P      06 12.70   0.1
MHZ     34.23 176 eP     06 16.20  -0.5
MTN     34.27 263 eP     06 16.70  -0.6
TLC     34.35 176 P      06 17.40  -0.4
ADE     34.63 222 eP     06 22.00   1.8
        1.0s    80.00nm          5.3mb
WARB    40.23 242 iPd    07 08.00   1.0
        0.4s    15.00nm          4.9mb
COOL    46.14 237 iPc    07 54.80   0.4
        0.4s     6.00nm          4.4mb
KLB     49.12 237 iPc    08 17.20  -0.3
        0.4s     5.00nm          4.3mb
NWAO    49.88 236 iPc    08 23.60   0.4
        0.8s    28.00nm          4.8mb
MRWA    50.11 241 eP     08 25.00   0.0
MUN     50.50 237 eP     08 28.00   0.1
NJ2     62.11 315 Pc     09 49.00  -1.0
CN2     65.73 329 eP     10 12.40  -0.9
                  sP     10 53.00
CSY     66.72 201 iPd    10 19.80   0.5
        0.4s    36.30nm          5.5mb
SBA     67.02 180 iPc    10 22.20   1.2
TIY     69.63 317 eP     10 38.00   0.2
CHTO    72.45 294 P      10 54.00  -0.9
BTO     72.75 319 eP     10 55.80  -0.5
LZH     74.87 312 eP     11 09.00   0.3
        2.5s    68.00nm          4.9mb
YAK     77.96 343 eP     11 23.50  -1.6
                  e      12 08.00
                  e      13 39.00
GTA     79.15 314 eP     11 33.20   0.9
        1.0s    10.00nm          4.5mb
                  sP     12 15.60
SPA     79.25 180 iPc    11 33.90   1.5
        0.8s    43.75nm          5.2mb
```

12d 15h

PCC	82.26	50	eP	11	48.90	0.5
GCC	82.39	50	eP	11	49.80	0.7
BRK	82.48	49	eP	11	50.40	0.9
BKS	82.50	49	iPd	11	50.30	0.7
	1.0s	83.00nm			5.4mb	
PRS	82.63	51	eP	11	51.30	0.9
SAO	82.72	51	eP	11	51.50	0.7
MHC	82.76	50	eP	11	52.20	1.0
FBA	83.00	18	P	11	51.00	-0.6
PRI	83.11	51	iP	11	54.22	1.2
WDC	83.20	47	ePc	11	53.70	0.5
ORV	83.60	48	iP	11	55.46	0.2
MIN	83.79	47	eP	11	56.50	0.2
CMB	83.93	50	iP	11	57.38	0.4
FRI	84.11	51	iP	11	58.31	0.5
MWC	84.56	54	eP	12	01.00	0.6
ISA	84.66	52	eP	12	01.00	0.3
SBB	84.88	53	iP+	12	02.00	0.2
RVR	85.04	54	eP	12	03.00	0.5
MAW	85.06	202	eP	12	02.00	0.0
BAR	85.24	56	eP	12	09.00	5.4X
PLM	85.27	55	eP	12	04.00	0.1
CLC	85.38	52	iP+	12	04.00	-0.3
GSC	85.86	53	eP	12	07.00	0.3
TPC	86.13	54	eP	12	08.00	0.0
GLA	86.83	56	eP	12	13.00	1.6
PNT	88.10	39	eP	12	17.00	0.0
INK	89.57	19	eP	12	21.00	-2.5
LRM	91.78	44	eP	12	34.80	0.3
BW06	93.14	47	P	12	39.50	-1.4
SES	93.73	40	eP	12	43.00	-0.1
ANMO	94.03	55	P	12	44.70	-0.3
YKA	94.61	27	eP	12	45.00	-1.8
	0.7s	2.50nm			4.5mb	
MBC	96.80	13	ePd	12	56.60	0.1
	0.6s	9.00nm			5.3mb	
NB2	126.58	345	PKP	18	28.40	-0.2
	0.7s	1.40nm				
SOB1	146.58	126	ePKP	19	06.70	0.1
			i	19	08.50	

S.D. = 1.0 on 83 of 84 obs.

& JUL 12, 1991 15h 15m 59.40s
37.842 N 121.783 W
DEPTH = 11.0km
CENTRAL CALIFORNIA (39)
<BRK>. ML 3.5 (BRK).
Mo=3.2*10**14 Nm (BRK). Felt (IV) at Hoyward. Also felt at Berkeley, Livermore, Ookland and Tracy.

BKS	0.36	276	iPc	16	06.40	-0.4
			iS	16	11.90	
BRK	0.38	275	iPc	16	06.70	-0.5
			iS	16	13.00	
ZSP	0.39	285	iPc	16	07.05	-0.4
			eS	16	14.29	
MHC	0.51	167	ePc	16	09.60	-0.2
			i(S)	16	17.10	
PCC	0.59	234	iPc	16	10.37	-0.8
GCC	0.83	192	iP	16	14.40	-0.9
SAO	1.11	166	iP	16	18.40	-1.7
CMB	1.12	80	iPc	16	19.08	-1.3
			iS	16	33.96	
ORV	1.73	7	eP	16	27.79	-1.7
			iS	16	51.05	
FRI	1.86	117	iP	16	29.49	-1.9
			eS	16	53.41	
TNP	3.62	85	P	17	03.00	6.3

11 obs. associated

JUL 12, 1991 15h 48m 58.38± 0.41s
42.835 N ± 3.7km 12.789 E ± 5.2km
DEPTH = 12.1 ± 3.4 km
CENTRAL ITALY (381)
MD 3.3 (ROM).

ASS	0.25	338	Pd	49	03.20	-0.7
			eSg	49	08.40	
MNS	0.46	190	Pc	49	06.90	-0.9
			eSg	49	14.40	
AQU	0.66	136	P	49	10.00	-1.4
			eSg	49	20.30	
ARV	0.67	10	Pd	49	10.30	-1.3
			eSg	49	21.80	
CRE	1.00	323	P	49	17.00	-0.2
			eSn	49	34.00	
RMP	1.02	184	P	49	17.20	-0.4
			eSg	49	34.20	
RDP	1.08	183	P	49	17.70	-0.8
			eSg	49	34.70	
RSM	1.12	347	P	49	20.10	1.0
MAO	1.28	251	P	49	21.90	0.0
SFI	1.28	328	P	49	21.60	-0.3
PGD	1.30	324	P	49	21.90	-0.5
SDI	1.36	146	P	49	23.90	0.7
DUI	1.71	133	P	49	30.94	2.8
RFI	1.77	149	P	49	31.84	2.8
PII	1.88	299	P	49	33.50	3.0
BDI	2.01	308	P	49	32.70	0.1
MME	2.04	313	P	49	34.20	1.1
HVAR	2.71	81	iPn	49	42.30	-0.1
RIY	2.76	24	e(Pn)	49	43.50	0.3
			iSn	50	18.50	
TRI	2.96	13	e(P)	49	42.90	-3.0X
			e(Pn)	49	45.00	
			e(Sn)	50	34.80	
BOB	3.10	310	P	49	47.00	-1.0
CEY	3.13	21	ePn	49	47.50	-1.0
			eSn	50	28.50	
VBY	3.21	33	e(Pn)	49	51.00	1.5
			eSn	50	31.50	
VOY	3.29	14	ePn	49	49.80	-1.0
			eSn	50	35.20	
CTI	3.31	346	P	49	51.50	0.3
LJU	3.44	21	e(Pn)	49	51.90	-0.9
			eSn	50	35.80	
CKI	3.64	297	P	49	56.50	0.8
FVI	3.76	360	P	49	58.00	0.7
PTJ	3.82	35	ePn	50	06.30	8.1X
			eSn	50	51.50	
BRT	3.83	119	P	49	57.00	-1.4
KBA	4.26	5	iPnc	50	04.50	-0.2
			i	50	05.00	
			i	50	20.90	
			i	50	58.80	
WTTA	4.50	350	i(Pn)	50	14.30	6.2X
			i	50	24.20	
			i(Sn)	51	34.00	
			i	51	55.10	
BHG	4.89	1	iPc	50	14.80	1.4
KHC	6.32	5	eP	50	32.50	-1.1
			Sg	51	43.00	
MOX	7.86	355	eP	51	04.00	8.9X

S.D. = 1.3 on 31 of 35 obs.

% JUL 12, 1991 16h 23m 11.12± 0.70s
41.123 N ± 9.8km 28.681 E ± 5.4km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.9 (ISK).

CTT	0.19	277	iPg	23	15.10	-0.3
			iSg	23	17.60	
ISK	0.29	101	iPg	23	17.60	0.4
			eSg	23	21.60	
HRT	0.81	112	iPg	23	26.60	-0.2
DMK	0.98	315	ePn	23	29.80	0.0
IZI	0.99	142	ePn	23	29.60	-0.3
KGT	1.24	238	ePn	23	34.60	0.4

S.D. = 0.4 on 6 of 6 obs.

JUL 12, 1991 16h 29m 08.30± 0.27s
45.446 N ± 2.7km 21.167 E ± 2.9km
DEPTH = 10.0km (geophysicist)
4.1mb (2 obs.)
ROMANIA (358)
ML 4.0 (TTG).

TIM	0.29	7	iPc	29	16.00	1.6
BEO	0.80	219	iPgc	29	23.80	-0.1
			iSg	29	35.30	
GZR	1.13	92	iPc	29	31.00	1.4
DEV	1.29	70	ePc	29	38.00	5.7X
UZD	2.14	303	iPn	29	44.60	0.2
TNR	2.19	84	ePd	29	50.00	4.7X
DRA	2.32	108	ePd	29	55.00	7.9X
PLE	2.47	212	iPnd	29	49.22	-0.1
			iSn	30	22.84	
BUD	2.52	325	iPn	29	50.00	0.1
PSZ	2.62	341	iPn	29	52.00	0.5
IVA	2.73	200	iPnc	29	53.70	0.6
			iSn	30	31.44	
CMP	2.73	92	iPc	30	01.00	7.9X
BMR	2.75	35	iPc	30	01.00	7.8X
MTUR	2.76	93	ePc	29	58.00	4.6X
BLY	2.91	258	Pn	29	55.00	-0.4
			eS	30	40.00	
PVY	2.98	197	iPnc	29	58.52	2.0
			iSn	30	37.60	
NKY	3.06	211	iPnc	29	57.54	-0.2
			iSn	30	36.30	
BRY	3.17	217	iPnc	29	58.07	-1.2
			iSn	30	37.12	
VTS	3.21	152	iP	30	00.00	0.1
			iSg	30	51.00	
TTG	3.32	205	iPnc	30	01.45	0.2
			iSn	30	43.35	
MLR	3.36	88	ePd	30	04.00	2.0
SKO	3.48	177	ePn	30	04.30	0.7
			i	30	06.50	
HCY	3.56	214	iPnc	30	03.35	-1.4
			iSn	30	48.05	
BDV	3.59	209	iPnc	30	05.60	0.5
			iSn	30	49.52	
SDA	3.64	200	ePn	30	08.60	2.8X
ZAG	3.66	278	iPn	30	06.80	0.7
			iS	31	10.00	
PTJ	3.68	279	iPnd	30	05.60	-0.9
			eSn	30	51.30	
PVL	3.73	125	eP	30	06.00	-1.1
PHP	3.79	188	iPnd	30	08.00	0.0
SPC	3.80	351	eP	30	09.50	1.2
			i	30	23.20	
			i	30	25.10	
			i	31	24.10	
KKB	3.84	158	iP	30	08.00	-0.7
ZST	3.92	316	iPd	30	09.20	-0.6
			i	30	16.50	
			e	30	51.00	
			i	31	23.00	
VRI	3.92	82	iPc	30	11.50	1.7
LACI	3.95	196	ePn	30	12.20	1.9
HVAR	4.08	238	iPnc	30	12.20	0.2
VBY	4.16	273	ePn	30	12.70	-0.5
			e	30	26.00	
			e(Sn)	31	11.00	
TIR	4.21	193	ePn	30	16.00	2.1
PLD	4.21	141	iP	30	14.00	0.1
VAY	4.25	166	ePn	30	14.00	-0.5
MMB	4.28	153	eP	30	19.00	4.0X
			iS	31	28.00	
VKA	4.36	312	iPnc	30	15.40	-0.7
			eSn	31	00.00	
KNT	4.46	163	ePc	30	16.54	-1.0
RZN	4.56	144	iPc	30	19.00	0.0
GRG	4.58	168	ePd	30	18.22	-1.0
FNA	4.66	178	ePd	30	21.38	0.9
SRS	4.67	157	iPc	30	19.30	-1.3
LJU	4.68	280	eP	30	20.00	-0.7
			e(Sn)	31	30.00	
KRA	4.69	350	iPd	30	21.50	0.8
	0.5s	59.00nm				
			i	30	24.00	
			i	30	47.50	
CEY	4.74	276	e(Pn)	30	20.50	-1.0
			e	30	26.50	
			e	30	38.00	
			e(Sg)	31	47.60	
RIY	4.78	271	eP	30	35.10	13.1X
SOH	4.89	160	ePd	30	23.26	-0.4
KDZ	4.89	139	iPd	30	23.00	-0.6
VOY	5.13	279	ePn	30	27.30	0.3
			e(Sn)	31	22.70	
TRI	5.20	276	ePn	30	27.50	-0.5
			iSn	31	26.10	
LIT	5.43	169	ePc	30	32.50	1.2
KMR	5.49	301	ePn	30	32.00	-0.2
			iSn	31	34.70	
KBA	5.66	290	iPnc	30	34.80	0.1
			i	30	39.20	
			i	31	38.10	
			i	31	39.10	
ALN	5.78	140	ePc	30	35.58	-0.5
PAIG	5.82	161	ePd	30	34.66	-2.0
FVI	5.95	284	P	30	42.50	4.0X
DMK	6.00	125	eP	30	38.30	-0.9
BHG	6.15	295	eP	30	43.40	2.0
DUI	6.17	235	P	30	51.50	9.8X
ARV	6.20	255	P	30	43.00	0.9

```
KSP      6.31 331 ePn    30 42.50  -1.1
                  iPg    30 56.90
                  iS     31 41.20
KHC      6.34 308 iPn    30 43.20  -0.9
                  e      30 52.50
SDI      6.52 238 P      30 52.30   5.7X
ASS      6.55 252 P      30 48.90   1.8
CTI      6.69 279 P      30 47.80  -1.3
WET      6.74 306 ePn    30 49.10  -0.6
EZN      6.78 144 iP     30 49.40  -0.8
SFI      6.81 260 P      30 52.00   1.3
CTT      6.82 126 iP     30 49.10  -1.7
CRE      6.83 258 P      30 52.00   0.9
WTTA     6.84 289 iPnd   30 51.40   0.1
                  i      30 52.50
                  i      32 14.80
BRG      7.27 321 eP     31 01.60   4.6X
       0.8s      6.00nm          4.8mb X
                  i      32 14.00
MME      7.55 264 P      31 02.00   0.8
BDI      7.65 263 P      31 03.50   1.0
GRF      7.95 306 ePc    31 04.90  -1.8
     Z  19s      0.10um
                  eS     32 56.00
CLL      7.99 320 e(Pg)  31 11.00   3.8X
                  e      32 42.00
                  e(Sg)  33 23.00
MOX      8.24 313 eP     31 09.00  -1.7
       1.2s      8.00nm          4.9mb
     Z  17s      0.10um          4.3Msz
     N  12s      0.10um
     E  11s      0.20um
ATN      8.43 212 P      31 26.40  13.0X
MNO      8.93 215 P      31 17.10  -3.3X
                  eSn    31 30.80
USI      8.98 224 P      31 26.70   5.9X
                  eSn    31 46.60
NB2     16.68 343 P      33 01.80  -1.7
       0.7s      1.60nm          3.3mb
     S.D. = 1.1  on  68 of  85 obs.
-----------------------------------
?  JUL  12, 1991  16h 46m 10.24± 1.00s
   38.068 N ±11.1km   12.555 E ± 8.3km
   DEPTH =  10.0km  (geophysicist)
 SICILY                            (398)

ERC      0.04 140 Pd     46 12.00  -0.4
                  eSg    46 13.80
LVI      0.19 244 Pd     46 14.60   0.2
                  eSg    46 18.70
USI      0.80  37 P      46 25.60  -0.2
                  eSg    46 36.10
GIB      1.16  93 P      46 32.50   0.4
     S.D. = 0.6  on   4 of   4 obs.
-----------------------------------
?  JUL  12, 1991  17h 20m 20.73± 1.49s
   45.382 N ±10.5km   20.789 E ±14.8km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                        (383)

TIM      0.47  40 iP     20 30.00  -0.2
BEO      0.61 203 ePg    20 33.00   0.0
                  eSg    20 50.50
SSR      0.85 127 eP     20 37.00  -0.2
DEV      1.57  71 ePd    20 49.00   0.4
SKO      3.44 172 eP     21 27.50  12.0X
MLR      3.63  86 ePd    21 26.00   7.7X
VRI      4.19  81 eP     21 36.00   9.9X
     S.D. = 0.5  on   4 of   7 obs.
-----------------------------------
   JUL  12, 1991  17h 21m 27.59± 0.80s
   41.026 N ± 7.5km   21.993 E ± 5.8km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                        (383)
     ML 1.7 (SKO).

GRG      0.32 103 ePc    21 34.40   0.2
                  eS     21 38.36
FNA      0.53 243 ePd    21 39.68   1.4
                  eS     21 47.04
VAY      0.53  56 iPg    21 39.40   1.2
                  iSg    21 46.40
KNT      0.70  78 ePd    21 41.80   0.4
                  eS     21 51.36
THE      0.84 118 ePc    21 42.88  -0.8
                  eS     21 53.36
LIT      1.00 158 ePc    21 45.56  -1.0
                  eS     21 57.96
SKO      1.03 336 ePn    21 45.50  -1.6
                  e      21 50.30
SOH      1.05 101 ePd    21 47.08  -0.4
                  eS     22 01.04
SRS      1.21  85 ePc    21 50.72   0.5
                  eS     22 07.52
     S.D. = 1.2  on   9 of   9 obs.
-----------------------------------
?  JUL  12, 1991  18h 35m 58.21± 1.62s
   45.189 N ± 8.3km   21.766 E ±18.6km
   DEPTH =  10.0km  (geophysicist)
 ROMANIA                           (358)

TIM      0.67 325 iP     36 12.00   0.5
BEO      1.00 249 iPg    36 17.00  -0.1
                  iSg    36 28.50
DEV      1.06  49 ePc    36 28.50  10.3X
PSZ      3.02 335 eP     36 46.50  -0.5
SKO      3.22 184 ePn    36 50.00   0.1
     S.D. = 0.8  on   4 of   5 obs.
-----------------------------------
*  JUL  12, 1991  18h 56m 38.81± 1.35s
   34.271 N ±14.2km   26.273 E ± 9.8km
   DEPTH =  60.8 ± 17.6 km
   4.0mb (  2 obs.)
 CRETE                             (370)

YER      3.29  29 eP     57 28.80  -0.3
ELL      3.86  49 eP     57 38.10   1.0
CSS      5.86  81 eP     58 05.50   0.4
                  eS     59 04.50
HRI      7.95  95 eP     58 33.00  -1.2
RMN      8.00 116 eP     58 35.00   0.0
PRNI     8.36 116 eP     58 40.00   0.3
SKO      8.58 335 eP     58 52.00   9.2X
SOI      9.09 298 P      58 51.20   1.4
TDS      9.59 307 P      58 54.50  -2.2
MEM     22.03 324 P      01 31.20   1.9
DOU     22.42 321 P      01 33.60   0.4
NUR     26.27 358 eP     02 11.40   1.6
HFS     27.15 346 eP     02 17.40  -0.5
       0.4s      3.30nm          4.3mb
KAF     27.86   0 eP     02 23.40  -0.9
NB2     28.49 345 P      02 28.20  -1.9
       0.4s      0.80nm          3.7mb
SCH     64.44 320 eP     07 13.00   2.3X
     S.D. = 1.4  on  14 of  16 obs.
-----------------------------------
   JUL  12, 1991  19h 13m 11.41± 0.56s
   45.398 N ± 4.2km   6.601 E ± 5.7km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                            (538)
     ML 2.6 (GEN).

LPG      0.15  47 Pg     13 15.20   0.1
LPL      0.15  38 Pg     13 15.20   0.1
                  Sg     13 18.20
BNI      0.35 171 P      13 18.00  -0.7
                  eSg    13 23.50
RRL      0.50 165 P      13 21.23  -0.3
                  S      13 28.62
RSP      0.53 118 P      13 22.15   0.1
                  S      13 30.16
8HB      0.73 140 P      13 25.54  -0.2
                  S      13 36.31
PZZ      0.96 158 P      13 29.54  -0.3
                  S      13 43.09
ORX      1.00  76 P      13 30.62   0.2
                  S      13 45.09
STV      1.26 156 P      13 34.93   0.0
                  S      13 52.32
ENR      1.31 153 P      13 35.24  -0.4
                  S      13 53.09
ROB      1.43 140 P      13 36.93  -0.5
PCP      1.62 121 P      13 40.01  -0.2
                  S      14 01.09
SBF      1.65 158 Pg     13 44.60   4.1X
                  Sg     14 06.00
FRF      1.84 179 Pg     13 46.00   2.7
LBF      2.42 312 Pn     13 52.00   0.4
BGF      2.86 295 Pn     13 56.90  -1.1
     S.D. = 0.9  on  15 of  16 obs.
-----------------------------------
   JUL  12, 1991  19h 21m 43.68± 0.44s
   45.615 N ± 4.6km   10.384 E ± 4.3km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                    (545)
     ML 2.8 (LDG), 2.7 (VIE). MD 2.7
     (TRI).

SAL      0.10  94 Pc     21 44.60  -1.8
                  eSg    21 46.30
MDI      0.50 289 P      21 53.50  -0.3
                  eSg    22 01.70
CTI      0.99  63 P      22 01.00  -1.5
                  eSg    22 14.00
BOB      1.08 218 P      22 05.10   1.1
                  eSg    22 22.90
VDL      1.08 324 ePc    22 04.50   0.4
OSS      1.08 351 ePd    22 04.40   0.2
OGA      1.33  19 ePg    22 09.00   0.7
MME      1.44 171 P      22 09.80  -0.2
BDI      1.56 174 P      22 11.50  -0.1
                  eSg    22 34.10
LLS      1.58 323 ePd    22 14.00   2.0
ORX      1.69 271 P      22 14.15   0.7
                  S      22 36.16
PCP      1.69 231 P      22 15.69   2.3
                  S      22 38.01
SCE      1.69  32 eP     22 13.60   0.0
MMK      1.75 285 ePc    22 14.50   0.1
WTTA     1.86  27 iPgc   22 17.10   1.0
                  i      22 18.40
                  iSg    22 41.70
PII      1.90 177 P      22 17.50   1.1
                  eSn    22 42.60
CKI      1.91 232 P      22 18.00   1.4
FVI      1.93  59 P      22 15.00  -1.9
SFI      1.99 148 P      22 17.70   0.0
FIN      2.09 228 P      22 22.00   2.8X
DIX      2.13 284 ePc    22 22.20   2.2
ROB      2.22 234 P      22 24.62   3.5X
CRE      2.28 150 P      22 25.10   3.1X
TRI      2.37  87 e(Pn)   22 25.50   2.3
                  iSg    22 54.40
IMI      2.46 227 P      22 23.08  -1.5
                  S      22 51.71
KBA      2.52  53 iPgc   22 26.60   1.1
                  i      22 29.10
                  iSg    22 59.10
ENR      2.52 238 P      22 24.77  -0.7
LPL      2.57 269 Pn     22 25.80  -0.4
                  Sn     22 58.00
STV      2.57 239 P      22 28.31   2.2
SBF      2.74 231 Pn     22 28.00  -0.5
                  Sn     23 02.20
PGF      3.22 199 Pn     22 33.50  -1.9
                  Sn     23 11.00
FRF      3.37 234 Pn     22 36.40  -1.0
                  Sn     23 18.00
LBF      4.65 289 Pn     22 54.20  -1.4
                  Sn     23 46.40
SMF      4.66 285 Pn     22 53.20  -2.6
LOR      4.80 292 Pn     22 56.30  -1.5
                  Sn     23 51.00
AVF      5.02 286 Pn     22 59.00  -1.8
     S.D. = 1.5  on  33 of  36 obs.
-----------------------------------
*  JUL  12, 1991  19h 26m 23.32± 1.56s
   20.752 N ± 8.6km  102.207 E ±18.2km
   DEPTH =  33.0km  (normal)
 SOUTHEAST ASIA                    (299)

LOE      3.36 188 ePn    27 16.00   1.2
                  ePg    27 25.00
                  eSg    28 03.00
CHG      3.63 238 ePn    27 17.00  -1.6
                  ePg    27 25.80
                  iSg    28 15.30
CHTO     3.63 238 Pg     27 26.60   8.0X
                  Sg     28 14.30
KMI      4.38   6 ePn    27 28.60  -0.8
                  Pg     27 42.00
                  Sg     28 39.00
BDT      4.62 222 eP     27 32.30  -0.4
                  eSg    28 48.90
NST      5.42 202 eP     28 03.50  19.5X
KHT      6.86 211 eP     28 04.00  -0.3
GUN     16.49 299 P      30 14.30   0.1
PKI     16.76 297 P      30 20.00   2.5
KKN     16.94 298 P      30 18.70  -1.0
DMN     17.02 297 P      30 22.60   1.8
GKN     17.55 298 P      30 25.80  -1.5
```

12d 19h

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      S.D. = 1.6  on  10 of  12 obs.
-----------------------------------
*  JUL  12, 1991  19h 35m 06.07± 1.51s
   14.241 N ±15.7km   93.932 W ± 8.4km
   DEPTH =  47.5 ± 10.9 km
   4.5mb (  4 obs.)
 NEAR COAST OF CHIAPAS, MEXICO    ( 69)

TPX      1.75  68 iP     35 34.50   0.1
                  iS     35 58.50
PBJ      2.61 327 (P)    35 40.00  -6.7X
SCX      2.78  27 iP     35 49.50   0.4
                  iS     36 21.50
OXX      3.90 317 eP     36 04.00  -1.2
                  iS     36 50.00
IISM     5.76 325 (P)    36 41.00   9.8X
ACX      6.28 295 eP     36 39.50   0.9
IIT      6.34 319 eP     36 40.50   0.9
PPM      6.58 317 (P)    37 18.00  34.8X
III      6.72 308 eP     36 44.50  -0.4
MEO     20.88 349 iPd    39 44.70  -1.9
ANMO    23.51 333 (P)    40 14.00   1.2
GOL     27.28 340 P      40 48.20  -0.2
SIV     44.24 132 (P)    43 12.00  -0.8
YKA     50.38 348 eP     43 59.40  -0.9
        0.7s     3.10nm          4.4mb
INK     59.68 344 eP     45 08.00   0.3
MBC     63.45 353 eP     45 32.50  -0.4
        0.6s     8.00nm          5.0mb
NB2     84.82  28 P      47 38.50   1.8
        0.8s     3.30nm          4.5mb
HFS     86.29  29 eP     47 44.20   0.3
        0.4s     0.50nm          4.1mb
      S.D. = 1.1  on  15 of  18 obs.
-----------------------------------
?  JUL  12, 1991  19h 38m 43.87± 1.03s
   39.839 N ±13.3km  117.776 E ± 9.3km
   DEPTH =  10.0km  (geophysicist)
 NORTHEASTERN CHINA               (658)
      ML 3.3 (BJI).

BJI      1.25 280 Pn     39 06.50  -0.5
                  Pg     39 08.00
                  Sg     39 29.50
TIA      3.66 188 ePn    39 41.30  -0.4
                  Sn     40 27.60
TIY      4.68 245 ePn    39 57.20   0.8
SNY      4.83  64 ePg    39 58.40   0.1
                  Sg     40 56.30
HHC      4.85 284 ePg    40 12.00  13.2X
                  Sg     41 24.60
BTO      5.99 280 ePg    40 34.00  19.3X
      S.D. = 1.1  on   4 of   6 obs.
-----------------------------------
%  JUL  12, 1991  20h 09m 59.64± 0.97s
   40.749 N ± 6.3km   23.507 E ± 9.0km
   DEPTH =  10.0km  (geophysicist)
 GREECE                           (364)

SOH      0.14 302 iPd    10 03.14   0.2
                  eS     10 05.20
SRS      0.37  10 iPc    10 07.25  -0.1
                  iS     10 12.04
THE      0.43 254 ePc    10 08.28  -0.1
                  eS     10 13.80
KNT      0.62 312 ePc    10 12.04  -0.1
PAIG     0.83 171 ePc    10 15.72   0.0
                  eS     10 28.68
      S.D. = 0.2  on   5 of   5 obs.
-----------------------------------
   JUL  12, 1991  20h 42m 07.32± 0.53s
   45.298 N ± 5.2km   21.117 E ± 6.8km
   DEPTH =  10.0km  (geophysicist)
 ROMANIA                          (358)

TIM      0.44   9 iPd    42 17.00   0.6
                  i      13 16.00
BEO      0.67 225 iPg    42 22.50   1.9
                  iSg    42 33.50
DEV      1.38  64 ePd    42 34.00   1.4
TNR      2.25  80 ePc    42 49.00   3.9X
PSZ      2.75 343 iP     42 50.90  -1.5
CMP      2.77  89 ePd    43 04.00  11.4X
VTS      3.10 150 iP     42 58.00   0.7
SKO      3.33 176 ePn    42 59.00  -1.6
MLR      3.41  85 iPc    43 13.50  11.8X
PTJ      3.67 281 ePn    43 05.10  -0.3
                  eSn    43 50.00
PVL      3.67 123 eP     43 05.00  -0.4
KKB      3.72 157 iP     43 06.00   0.0
ZST      4.00 318 e(Pn)  43 09.00  -1.0
                  e      44 05.50
VAY      4.11 165 ePn    43 11.40  -0.2
RZN      4.46 143 iP     43 16.00  -0.6
KHC      6.41 309 ePn    43 45.00   0.9
      S.D. = 1.2  on  13 of  16 obs.
-----------------------------------
   JUL  12, 1991  22h 06m 00.24± 0.20s
   39.421 N ± 5.5km   94.832 E ± 3.6km
   DEPTH =  15.6km  (  2 depth phases)
   4.8mb ( 31 obs.)  4.5Msz (  2 obs.)
 GANSU PROVINCE, CHINA            (322)

GTA      3.86  89 Pn     07 01.20   0.8
      Z  12s     3.10um
      N  10s    10.30um
                  Pg     07 08.00
                  Sn     07 46.00
                  Sg     07 56.00
WMQ      6.92 312 iPnc   07 43.40  -0.2
                  Sn     09 03.60
                  Sg     09 34.50
LZH      7.88 112 eP     07 56.50  -0.5
      Z  12s     3.25um
      N  10s     3.67um
      E  10s     3.51um
BTO     11.71  79 eP     08 45.50  -4.2X
XAN     12.51 111 P      08 59.00  -1.4
HHC     12.89  78 P      09 01.60  -3.9X
TIY     13.88  91 Pc     09 14.50  -4.1X
      Z  12s     1.20um
      N  11s     2.20um
SHL     14.04 191 eP     09 19.50  -1.3
                  eS     13 51.00
IRK     14.43  24 eP     09 30.20   4.6X
                  e      10 13.20
                  e      11 19.10
                  e      12 37.10
                  e      13 22.20
                  eSg    13 27.00
KSH     14.57 276 eP     09 26.00  -1.7
GYA     16.28 139 P      09 52.00   2.1
        1.0s    20.00nm          4.2mb
BJI     16.43  81 eP     09 51.00  -0.6
      N  11s     0.72um
TIA     17.90  93 eP     10 10.90   0.9
CHTO    20.84 169 ePc    10 44.30   0.5
        0.8s    27.27nm          4.7mb
                  pP     10 48.20  14km
SNY     21.91  74 Pc     10 52.30  -2.1
        1.0s    20.00nm          4.5mb
SSE     23.01 103 eP     11 08.50   3.2X
      Z  17s     0.40um          3.9MszX
      N  14s     1.40um
      E  14s     0.40um
CN2     23.23  69 eP     11 08.50   1.0
        0.6s    10.00nm          4.5mb
      Z  12s     1.20um          4.6MszX
                  eS     15 10.00
MDJ     26.21  67 eP     11 36.80   0.9
MAIO    27.96 275 eP     11 54.00   1.9
YAK     30.98  32 eP     12 19.20   0.7
                  e      13 24.00 340kmX
                  e      21 00.00
                  i      22 05.00
                  i      22 30.00
                  i      22 52.00
                  i      23 25.00
OBN     41.24 312 iPd    13 46.50   0.8
        1.2s   *******nm          8.1mb X
      Z  20s     0.68um          4.5Msz
      N  14s     0.30um
      E  20s     0.40um
                  e      13 51.50  17km
                  e      14 37.00
SOD     46.01 330 eP     14 24.00  -0.2
KAF     46.25 323 iP     14 25.70  -0.4
        0.3s     1.50nm          4.5mb
NUR     47.19 321 eP     14 33.10  -0.5
VRI     49.14 301 ePd    14 49.00   0.1
MLR     49.77 301 ePd    14 54.50   0.5
MTUR    50.45 301 eP     15 00.00   0.9
UPP     50.76 321 iP     15 00.50  -0.6
KRA     52.14 308 eP     15 11.70  -0.1
SPC     52.24 307 eP     15 13.60   0.8
HFS     52.61 322 eP     15 14.20  -0.9
        0.4s     1.50nm          4.3mb
      Z  17s     0.26um          4.3MszX
                  LR     36 55.00
NB2     53.53 323 P      15 20.70  -1.3
        0.9s     5.90nm          4.6mb
KSP     54.08 310 eP     15 26.20   0.1
ZST     54.54 307 i(P)   15 30.50   1.0
BRG     55.46 311 eP     15 36.50   0.3
        1.1s    12.00nm          4.8mb
CLL     55.84 311 iPc    15 39.00   0.1
        1.0s    14.00nm          4.9mb
PTJ     56.15 304 eP     15 39.70  -1.6
KHC     56.34 309 eP     15 42.50  -0.1
GRF     57.53 310 iPc    15 51.90   0.9
        0.7s    14.00nm          5.1mb
      Z  18s     0.30um          4.4Msz
WTTA    58.29 307 iPc    15 56.70   0.1
        0.5s     9.30nm          5.1mb
TDS     58.58 298 P      15 59.40   0.9
SGO     58.87 299 P      16 01.30   0.8
SDI     59.35 301 P      16 04.00   0.1
SOI     59.51 296 P      16 04.90   0.0
SFI     59.63 304 P      16 07.00   1.3
CRE     59.70 303 P      16 08.40   2.1
PGD     59.73 304 P      16 07.90   1.2
MME     60.24 304 P      16 11.40   1.2
CDF     60.42 310 eP     16 10.60  -0.6
BOB     60.77 306 P      16 14.60   1.0
BSF     60.98 310 eP     16 14.60  -0.4
HAU     61.16 310 eP     16 15.70  -0.4
PCP     61.45 306 P      16 17.34  -0.8
FIN     61.82 305 P      16 19.39  -1.3
RSP     61.96 307 P      16 21.34  -0.4
ROB     61.99 306 P      16 20.83  -1.0
BHB     62.11 306 P      16 23.19   0.6
LPG     62.11 307 eP     16 23.30   0.4
        0.7s    12.15nm          5.2mb
LPL     62.11 307 eP     16 23.40   0.5
        0.5s     5.10nm          4.9mb
PGF     62.11 304 eP     16 23.00   0.2
        0.6s     9.00nm          5.1mb
IMI     62.16 305 P      16 22.98  -0.1
ENR     62.31 306 P      16 22.57  -1.4
RRL     62.37 307 P      16 24.31  -0.3
BNI     62.37 307 P      16 24.60   0.1
PZZ     62.37 306 P      16 23.19  -1.3
SBF     62.47 305 eP     16 25.00  -0.1
        0.6s    16.25nm          5.4mb
MBC     62.57   9 eP     16 25.00  -0.1
        0.7s     3.00nm          4.6mb
LOR     62.99 310 eP     16 27.60  -0.8
FRF     63.12 305 eP     16 29.00  -0.2
SMF     63.31 310 eP     16 29.90  -0.6
        0.8s     9.40nm          5.0mb
LMR     63.32 305 eP     16 30.50  -0.1
LRG     63.35 305 eP     16 31.30   0.5
        0.9s    11.45nm          5.0mb
AVF     63.53 310 eP     16 31.40  -0.5
BGF     63.95 310 eP     16 34.20  -0.5
MAF     64.28 310 eP     16 37.00   0.1
        1.0s    16.00nm          5.1mb
TCF     64.46 310 eP     16 38.00  -0.1
        0.8s     5.35nm          4.8mb
LDF     64.62 313 eP     16 38.60  -0.4
        0.8s     8.05nm          4.9mb
FLN     64.74 313 eP     16 39.40  -0.4
GRR     65.15 313 eP     16 42.20  -0.2
        0.5s     4.35nm          4.9mb
CAF     65.26 309 eP     16 43.80   0.6
        0.7s     3.30nm          4.6mb
RJF     65.39 309 eP     16 44.20   0.2
LPF     65.44 313 eP     16 43.90  -0.4
MFF     65.69 311 eP     16 46.00   0.1
        0.8s     8.05nm          4.9mb
LPO     65.92 309 eP     16 47.80   0.4
        0.5s     4.35nm          4.9mb
LFF     66.05 309 eP     16 48.70   0.5
        0.5s     8.00nm          5.1mb
EPF     67.32 308 eP     16 56.10  -0.4
        0.7s     2.20nm          4.4mb
WRA     69.65 140 P      17 10.00  -1.0
        0.9s     1.80nm          4.2mb
ASPA    72.61 143 eP     17 28.60  -0.2
        0.8s     4.60nm          4.6mb
YKA     75.70  14 eP     17 45.70  -0.5
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        0.5s      0.70nm          4.0mb
STK     83.16 141 eP     18 26.50  -0.2
        0.8s      1.60nm          4.2mb
PPD    146.38 291 ePKP   25 43.70   2.8X
SIV    148.57 311 PKP    25 45.00   0.4
      S.D. = 0.8  on  86 of  92 obs.
-----------------------------------
%  JUL  12, 1991  22h 12m 20.49± 0.69s
   40.396 N ± 5.8km    27.148 E ± 6.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      MD 2.8 (ISK).

KGT      0.13  65 iPg    12 24.60   1.0
MFT      0.40  15 iPg    12 28.70  -0.1
EDC      0.55  95 iPg    12 31.50  -0.1
                  eSg    12 39.50
EZN      0.85 228 iPg    12 36.90   0.1
                  eSg    12 48.40
CTT      1.23  52 iPn    12 43.20  -0.2
DST      1.38 124 ePn    12 45.80  -0.1
DMK      1.50  18 ePn    12 47.20  -0.2
YLV      1.71  84 ePn    12 50.00  -0.5
IZI      1.78  91 ePn    12 51.70   0.2
      S.D. = 0.5  on   9 of   9 obs.
-----------------------------------
&  JUL  12, 1991  22h 56m 27.50s
   61.763 N          149.441 W
   DEPTH =  31.8km
 SOUTHERN ALASKA                   (  2)
      <AEIC>. ML 2.5 (AEIC).

PLRM     0.23 139 iPd    56 33.77  -0.4
                  eS     56 39.96
PWA      0.24 242 iPd    56 34.47   0.1
                  eS     56 40.51
GHO      0.25  88 iPd    56 34.24  -0.3
                  S      56 39.64
PMS      0.52 186 ePd    56 37.60  -0.9
                  eS     56 45.65
KNK      0.59 126 iPc    56 38.21  -1.3
                  eS     56 47.23
SUA      0.69 245 ePc    56 39.77  -1.3
                  S      56 49.73
CUT      0.75 329 iPc    56 40.60  -1.1
SKT      1.01 283 iPc    56 44.22  -1.3
                  eS     56 58.59
HUR      1.22 356 eP     56 47.68  -0.8
                  eS     57 03.82
CGLM     1.31 251 iPc    56 49.33  -0.5
                  eS     57 06.47
SLKM     1.32 197 ePc    56 48.80  -1.0
NCG      1.35 256 iPc    56 49.81  -0.6
SPU      1.38 246 ePc    56 50.18  -0.7
GLI      1.44 127 ePc    56 50.19  -1.4
                  eS     57 09.49
BGL      1.50 252 eP     56 52.30  -0.3
CKL      1.50 249 eP     56 52.10  -0.5
                  eS     57 12.07
VZW      1.56 116 ePc    56 52.22  -1.1
                  eS     57 12.56
TOA      1.58  76 iPc    56 53.33  -0.4
VLZ      1.62 112 eP     56 52.74  -1.5
                  eS     57 13.59
KNIM     1.64 149 eP     56 52.25  -2.3
SEW      1.67 180 eP     56 54.56  -0.3
RND      1.67   9 eP     56 54.08  -1.0
KLU      1.70  98 iPc    56 53.99  -1.5
TRF      1.74 347 eP     56 55.22  -0.9
RDT      1.87 232 eP     56 56.35  -1.5
                  eS     57 20.81
LTI      1.89 155 ePc    56 55.91  -2.3
TZL      1.92  80 eP     56 58.39  -0.2
KTH      1.92 340 ePc    56 57.85  -0.8
DFR      1.96 235 eP     56 58.35  -0.9
SDG      1.98  66 ePc    56 58.88  -0.7
MTU      1.98 153 eP     56 58.56  -1.0
REF      2.03 233 eP     56 59.57  -0.8
RDN      2.04 234 eP     56 59.09  -1.3
NCT      2.08 236 ePc    56 59.89  -1.0
RDW      2.08 233 eP     57 00.59  -0.4
RED      2.11 232 eP     56 59.98  -1.3
PAX      2.21  55 eP     57 02.37  -0.4
GLB      2.71  94 ePc    57 08.38  -1.4
TGL      3.35 105 eP     57 18.25  -0.7
BALM     3.49  99 eP     57 18.57  -2.4
      40 obs. associated
-----------------------------------
*  JUL  12, 1991  23h 59m 50.95± 1.11s
   36.545 N ±15.1km    1.726 E ± 6.3km
   DEPTH =  10.0km  (geophysicist)
 ALGERIA                           (396)
      mbLg 3.0 (MDD).

ABA      1.08  76 iPg    00 11.50   0.2
                  iSg    00 27.50
ENIJ     3.19 279 eP     00 41.80  -0.3
                  eS     01 18.00
ESEL     3.35  16 eP     00 43.90  -0.4
                  eS     01 23.60
ECHE     3.71 326 eP     00 50.00   0.4
                  eS     01 33.00
EGUA     4.26 275 eP     00 56.90  -0.5
                  eS     01 45.50
AFC      4.28 281 eP     00 58.00   0.2
ECOG     4.30 281 eP     00 58.50   0.4
                  eS     01 46.00
      S.D. = 0.5  on   7 of   7 obs.
-----------------------------------
   JUL  13, 1991  00h 06m 46.00± 0.76s
   45.018 N ± 7.8km    3.058 E ± 5.7km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                            (538)
      ML 3.0 (LDG).

COLF     0.67  42 Pg     06 59.63   0.2
CAF      0.71 263 Pg     07 00.00   0.0
                  Sg     07 09.00
SSB      1.08  75 Pg     07 08.33   1.9
                  Sg     07 22.43
RJF      1.13 285 Pg     07 07.20   0.1
                  Sg     07 21.60
MAF      1.25 344 Pg     07 09.60   0.3
                  Sg     07 24.60
LPO      1.37 257 Pg     07 12.80   1.7
                  Sg     07 31.00
TCF      1.40 335 Pg     07 11.00  -0.6
                  Sg     07 29.60
8GF      1.55 355 Pn     07 13.20  -0.4
                  Pg     07 15.00
                  Sg     07 33.50
LSF      1.63 320 Pg     07 16.00   1.1
                  Sg     07 36.40
LFF      1.65 268 Pg     07 17.40   2.3X
                  Sg     07 38.40
SMF      1.72  18 Pn     07 15.60  -0.5
                  Pg     07 18.00
                  Sg     07 39.20
AVF      1.79   7 Pn     07 16.00  -1.1
                  Pg     07 19.00
                  Sg     07 40.40
SSF      2.07   9 Pg     07 23.80   2.6X
                  Sg     07 49.40
LBF      2.07  18 Pg     07 24.00   2.8X
                  Sg     07 50.00
LOR      2.32  14 Pg     07 29.40   4.6X
                  Sg     07 57.80
LPL      2.64  78 Pn     07 28.50  -1.1
                  Pg     07 35.60
                  Sg     08 09.50
MFF      2.74 306 Pg     07 37.00   6.1X
                  Sg     08 10.60
EPF      2.79 226 Pn     07 30.00  -1.6
                  Pg     07 38.80
                  Sg     08 15.00
      S.D. = 1.2  on  13 of  18 obs.
-----------------------------------
?  JUL  13, 1991  00h 19m 57.57± 3.07s
   39.899 N ±23.0km   29.332 E ±32.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      MD 2.8 (ISK).

IZI      0.45  14 iPg    20 06.70  -0.1
                  iSg    20 13.20
DST      0.62 242 ePg    20 10.00   0.0
YLV      0.67   3 iPg    20 10.20  -0.7
HRT      0.96  15 ePn    20 16.20   0.4
ISK      1.18 350 ePn    20 20.00   0.4
      S.D. = 0.6  on   5 of   5 obs.
-----------------------------------
?  JUL  13, 1991  00h 27m 14.44± 3.19s
   23.940 S ±32.6km  179.561 E ±26.6km
   DEPTH = 638.1 ± 36.0 km
   4.7mb (  7 obs.)
 SOUTH OF FIJI ISLANDS             (171)

DZM     12.22 276 iPc    29 54.20  -1.2
CAN     28.77 240 eP     32 25.60   0.1
BWA     29.02 242 eP     32 26.00  -1.7
CTAO    31.07 271 iPd    32 46.30   1.3
STK     34.34 248 eP     33 12.90   0.8
        0.3s      2.80nm          4.3mb
ASPA    41.63 261 eP     34 12.00   0.8
        0.5s     18.20nm          4.8mb
WR2     41.98 266 eP     34 14.50   0.5
        0.5s     29.30nm          5.0mb
WRA     42.00 266 P      34 14.00  -0.1
        0.5s     29.60nm          5.0mb
FORR    45.88 250 eP     34 43.50  -0.3
        0.3s     19.00nm          5.0mb
WARB    47.72 256 eP     34 58.10   0.2
        0.3s      5.00nm          4.4mb
COOL    51.82 249 eP     35 28.00   0.2
KLB     54.60 247 iPc    35 42.50  -4.8X
        0.3s      4.00nm          4.2mb
MUN     55.85 247 eP     35 56.00   0.1
NANU    58.38 257 eP     36 14.00   0.9
TNP     85.56  45 P      38 49.00   0.8
ANMO    91.30  52 P      39 16.40   1.4
SOB1   128.55 125 (PKP)  45 13.00   0.2
NB2    142.06 351 PKP    45 34.00  -2.5
        0.9s      2.50nm
HFS    142.50 348 ePKP   45 35.70  -1.5
        0.4s      6.00nm
      Z  18s      0.03um          4.1Msz
                  LR     28 35.00
KRA    149.47 334 ePKP   45 57.30   8.5X
KSP    150.18 338 iPKPc  45 59.00   9.2X
CLL    150.77 343 iPKPd  46 00.10   9.4X
        1.0s     13.00nm
      S.D. = 1.2  on  18 of  22 obs.
-----------------------------------
   JUL  13, 1991  00h 51m 21.70± 0.34s
   40.434 N ± 5.6km  140.975 E ± 9.9km
   DEPTH = 141.4 ±  4.5 km
   4.3mb ( 10 obs.)
 HONSHU, JAPAN                     (227)

AOMJ     0.48 286 iPd    51 42.40   0.3
                  S      51 57.10
OFUJ     1.45 158 P      51 51.10   0.7
                  S      52 12.10
MRRJ     1.99   2 P      51 56.70   0.2
                  eS     52 23.20
YAMJ     2.37 198 iP+    52 01.90   0.6
                  eS     52 32.50
HOOJ     2.61  41 P      52 04.90   0.7
                  eS     52 36.30
NIIJ     3.54 206 iP+    52 16.90   0.5
KUSJ     3.86  45 P      52 19.70  -0.8
                  eS     53 02.20
ASAJ     3.88  18 P      52 20.10  -0.8
KAKJ     4.27 189 iP+    52 23.60  -2.4
                  S      53 10.10
MAT      4.45 210 iPc    52 29.00   0.5
                  eS     53 20.00
MTMJ     4.58 214 P      52 31.30   1.0
CHJJ     4.65 200 P      52 30.50  -0.6
                  S      53 23.30
IIDJ     5.51 207 P      52 42.10  -0.6
                  eS     53 43.30
INK     51.54  28 eP     00 15.00   0.5
MBC     53.37  17 eP     00 28.00   0.0
YKA     61.06  31 eP     01 21.70  -0.5
        0.8s      0.80nm          3.7mb
HFS     70.86 335 eP     02 23.50  -1.0
        0.4s      2.10nm          4.3mb
NB2     70.93 337 P      02 23.80  -1.2
        0.6s      1.40nm          4.0mb
TNP     74.12  53 P      02 45.90   1.6
LOR     84.71 332 eP     03 40.50  -0.1
        0.6s      2.70nm          4.3mb
LBF     84.91 332 eP     03 41.50  -0.2
        0.6s      1.80nm          4.1mb
SSF     85.01 332 eP     03 42.20   0.1
LPL     85.13 330 eP     03 43.20   0.2
        0.7s      3.30nm          4.3mb
LPG     85.14 330 eP     03 43.40   0.3
        0.7s      4.40nm          4.4mb
AVF     85.30 332 eP     03 43.70   0.2
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13d 01h

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        0.7s      4.40nm          4.4mb
MAF     86.07 332 eP     03 47.90   0.5
        0.8s      4.05nm          4.3mb
LSF     86.40 333 eP     03 49.30   0.3
        0.7s      5.50nm          4.6mb
      S.D. = 0.9  on  27 of  27 obs.
-----------------------------------------
?  JUL  13, 1991  01h 42m 18.13± 5.40s
   67.843 N ±20.5km   24.019 E ±49.3km
   DEPTH =  10.0km  (geophysicist)
 FINLAND                            (721)
      MD 3.0 (BER).

KTK1    1.21 347 iPc    42 40.65   0.0
                 eS     42 52.78
TRO     2.58 316 iP     43 00.60   0.0
                 eS     43 28.60
LOF     3.96 279 eP     43 19.48  -0.6
                 iSg    44 19.30
MOR7    3.96 251 eP     43 21.53   1.4
NSS     5.90 241 eP     43 46.60  -1.0
                 iS     44 51.30
      S.D. = 1.3  on   5 of   5 obs.
-----------------------------------------
%  JUL  13, 1991  01h 47m 35.44± 2.07s
   11.874 N ±16.4km   60.926 W ±18.3km
   DEPTH =  33.0km  (normal)
 WINDWARD ISLANDS                   ( 95)
      MD 3.1 (TRN).

TPR     0.70 168 eP     47 48.45  -0.4
                 eS     48 00.24
PIG     0.71 173 eP     47 48.89  -0.1
                 eS     48 02.65
BOT     0.73 164 eP     47 49.16  -0.1
                 eS     48 01.75
GRW     0.77 292 eP     47 50.01   0.1
TRN     1.31 201 eP     47 57.63   0.2
                 eS     48 16.39
TBH     1.39 186 eP     47 59.67   1.0
                 eS     48 21.41
TCE     1.42 215 eP     47 58.52  -0.7
                 eS     48 19.28
      S.D. = 0.6  on   7 of   7 obs.
-----------------------------------------
?  JUL  13, 1991  02h 20m 38.55± 1.27s
   40.518 N ±13.0km   23.799 E ±18.1km
   DEPTH =  10.0km  (geophysicist)
 GREECE                             (364)

OUR     0.23 143 iPd    20 43.45   0.0
                 eS     20 47.14
SOH     0.45 312 ePd    20 47.50  -0.3
                 eS     20 54.22
PAIG    0.60 189 iPd    20 50.62   0.0
                 eS     20 59.22
KNT     0.94 314 ePd    20 56.78   0.3
                 iS     21 08.78
      S.D. = 0.5  on   4 of   4 obs.
-----------------------------------------
?  JUL  13, 1991  02h 39m 58.89± 1.00s
   45.534 N ± 9.4km   20.884 E ±11.3km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                         (383)

TIM     0.31  49 eP     40 06.00   0.6
BEO     0.77 203 iPg    40 14.20   0.2
                 eSg    40 26.00
DEV     1.46  75 ePd    40 29.00   3.8X
TNR     2.38  86 ePc    40 38.00  -0.6
PSZ     2.48 344 eP     40 39.80  -0.2
      S.D. = 0.9  on   4 of   5 obs.
-----------------------------------------
   JUL  13, 1991  02h 50m 14.69± 0.11s
   42.182 N ± 1.5km  125.641 W ± 1.9km
   DEPTH =  11.0km  (geophysicist)
   6.2mb ( 87 obs.)  6.9Msz ( 30 obs.)
 OFF COAST OF OREGON                ( 30)
      ML 6.7 (BRK). Ma=3.0*10**19 Nm
      (PPT). Felt (V) at Coquille,
      Harbor and Reedsport, Oregon.
      Felt (IV) at Bandon, Coos Bay,
      Langlois, Ophir, Port Orford and
      Wedderburn, Oregon. Also felt
      (IV) at Crescent City and
      Klamath, California. Felt
      throughout much of western
      Oregon and northern California.
      Depth from broadband
      displacement seismograms.
      FAULT PLANE SOLUTION: P-Waves
       NP1:Strike= 43 Dip=90 Slip=   0
       NP2:        313     90      180
       Principal Axes:
        T                Plg= 0  Azm= 88
        P                   0       178
      Comment: The focal mechanism is
        moderately well controlled and
        corresponds to strike-slip
        faulting. The preferred fault
        plane is not determined.
      RADIATED ENERGY
       No. of sta:  10  Focal mech.  M
       Energy        4.6±1.4*10**15 Nm
      MOMENT TENSOR SOLUTION
      Dep   6            No. of sta: 17
      Moment Tensor;   Scale 10**19 Nm
        Mrr= 0.22       Mtt=-1.96
        Mff= 1.74       Mrt=-0.07
        Mrf=-0.29       Mtf=-0.23
       Principal axes:
        T  Val=  1.80  Plg=10  Azm= 87
        N        0.18      80      253
        P       -1.98       2      356
      Best Double Couple:Mo=1.9*10**19
       NP1:Strike=131 Dip=81 Slip= 175
       NP2:        222     85        9
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 22S, 64C  M.W.: 22S, 53C
      Centroid Location:
      Origin Time        02:50:20.8 0.1
      Lat 42.09N 0.01 Lon 125.86W 0.01
      Dep  15.6 1.1 Half-duration 10.4
      Moment Tensor;   Scale 10**19 Nm
        Mrr=-0.06 0.01  Mtt=-1.98 0.02
        Mff= 2.04 0.02  Mrt= 0.35 0.05
        Mrf= 0.27 0.05  Mtf= 0.01 0.01
       Principal Axes:
        T  Val=  2.07  Plg= 7  Azm=271
        N       -0.03      78       36
        P       -2.04      10      180
      Best Double Couple:Mo=2.1*10**19
       NP1:Strike=315 Dip=78 Slip=-178
       NP2:        225     88      -12
      GEOSCOPE MOMENT TENSOR      (PAR)
      Data Used: GEOSCOPE
      Dep  40.0      Half-duration  5.0
      Moment Tensor;   Scale 10**19 Nm
        Mrr= 0.02 0.30  Mtt=-2.27 0.43
        Mff= 2.25 0.43  Mrt= 0.38 1.50
        Mrf=-0.52 1.25  Mtf= 0.56 0.23
      Best Double Couple:Mo=2.4*10**19
       NP1:Strike=128 Dip=75 Slip= 179
       NP2:        218     89       15

FHC     1.86 137 iP     50 44.89  -1.8
DBO     2.00  61 Pd     50 48.69  -0.2
FOX     2.07 143 iPc    50 47.94  -1.8
HSO     2.31  54 Pd     50 52.92  -0.4
MPOR    2.78  33 P      51 00.93   0.9
WDC     2.83 123 iP     50 59.69  -0.9
HBO     2.95  55 Pc     51 02.57   0.1
LTCM    3.31 125 eP     51 06.30  -1.1
TCO     3.53  56 Pc     51 10.59  -0.1
MIN     3.55 120 iPc    51 09.82  -1.2
KMOR    3.79  24 ePd    51 13.52  -0.8
GT2     3.85  38 P      51 14.73  -0.4
PGO     4.01  34 P      51 17.77   0.4
ORV     4.09 129 iPc    51 17.02  -1.5
GMO     4.10  55 P      51 18.06  -0.7
VBEM    4.12  44 Pc     51 18.52  -0.5
TDH     4.18  41 P      51 19.78  -0.1
NLO     4.21  21 P      51 20.28   0.0
                 S      52 05.96
VLMM    4.25  37 Pc     51 21.00   0.2
NWRM    4.27 150 eP     51 18.50  -2.6
VIPM    4.34  56 Pc     51 21.50  -0.7
VFP     4.36  43 P      51 22.20  -0.3
VLL     4.36  40 P      51 22.76   0.4
CROR    4.39  49 P      51 21.81  -1.0
RVW     4.48  27 ePd    51 24.21   0.2
                 S      52 17.60
LVP     4.53  30 Pd     51 24.61  -0.2
APM     4.56  37 P      51 25.26   0.0
MTMW    4.57  32 Pd     51 24.85  -0.5
BMW     4.63  21 ePd    51 25.04  -1.2
FL2     4.66  29 P      51 26.63  -0.1
SHW     4.70  30 P      51 26.42  -0.9
                 S      52 21.69
HSR     4.70  31 Pd     51 27.32  -0.1
CDFW    4.71  32 P      51 26.74  -0.6
REMW    4.72  31 P      51 27.71   0.0
                 S      52 23.99
ESD     4.73  31 P      51 27.80   0.0
STD     4.74  30 P      51 27.74  -0.1
GULW    4.74  37 P      51 27.47  -0.4
                 S      52 24.38
VTHM    4.75  49 P      51 27.22  -0.7
ERK     4.76  29 P      51 28.14   0.1
SOSW    4.77  31 P      51 28.17  -0.1
                 S      52 23.17
CZM     4.81  27 P      51 28.97   0.2
TDL     4.84  29 P      51 29.04  -0.2
VGB     4.85  45 P      51 28.96  -0.3
                 S      52 27.45
ONR     4.88  15 P      51 29.32  -0.4
                 S      52 26.80
ASR     4.92  35 P      51 30.06  -0.3
ZSP     4.96 147 eP     51 28.85  -2.0
BKS     5.03 148 ePc    51 29.00  -2.9
LMW     5.09  27 P      51 32.97   0.3
CPW     5.11  20 P      51 31.80  -1.2
GL2     5.13  41 P      51 32.74  -0.6
GLK     5.25  32 Pd     51 34.80  -0.2
PCC     5.31 151 eP     51 32.15  -3.6X
LON     5.33  30 P      51 35.76  -0.3
JBO     5.33  50 P      51 35.56  -0.5
WPW     5.38  32 P      51 36.51  -0.4
SMW     5.39  17 ePd    51 35.91  -1.1
                 S      52 39.02
GHW     5.42  25 P      51 37.62   0.3
                 S      52 40.10
MEW     5.45  22 P      51 38.48   0.7
FMW     5.53  29 P      51 38.84  -0.3
PATW    5.62  47 P      51 39.93  -0.3
OOW     5.65  10 P      51 39.91  -0.7
YAKW    5.68  38 P      51 41.22   0.2
NAC     5.71  35 P      51 41.42   0.0
GSM     5.72  27 P      51 41.84   0.2
GMW     5.74  20 P      51 40.71  -1.1
                 S      52 45.19
HDW     5.77  18 P      51 41.26  -1.0
ARN     5.77 145 eP     51 39.80  -2.5
CMB     5.78 134 eP     51 41.73  -0.7
OSD     5.80  13 P      51 42.14  -0.8
                 S      52 50.21
MXC     5.83  39 P      51 42.59  -0.5
OFK     5.84   9 P      51 42.92  -0.3
GCC     5.86 150 ePc    51 39.87  -3.7X
PRW     5.88  45 P      51 43.39  -0.4
SPW     5.89  23 P      51 44.87   1.0
                 S      52 53.20
BRVW    5.91  41 P      51 43.88  -0.4
RMW     5.94  26 P      51 44.49  -0.2
EBG     5.96  36 P      51 44.61  -0.3
TWW     6.01  33 P      51 46.84   1.1
PGW     6.04  20 P      51 45.74  -0.2
RSW     6.05  44 P      51 45.39  -0.8
BLN     6.12  17 P      51 46.99  -0.2
TBM     6.15  34 Pc     51 48.01   0.4
BVW     6.19  40 P      51 48.28   0.0
BLH     6.21  23 P      51 48.10  -0.3
                 S      52 58.53
WG3     6.22  49 P      51 47.34  -1.2
WIW     6.23  45 P      51 47.98  -0.7
GBL     6.25  43 P      51 48.46  -0.6
VTG     6.25  38 P      51 49.08   0.0
HTW     6.26  25 P      51 48.25  -0.9
MJ2     6.27  44 P      51 48.57  -0.8
SAO     6.31 148 eP     51 45.83  -4.1X
WAH2    6.31  41 P      51 49.66  -0.2
LOCW    6.35  42 P      51 50.05  -0.4
CRF     6.44  42 P      51 51.00  -0.8
OT2     6.45  43 P      51 51.10  -0.8
LNOR    6.46  53 Pd     51 52.65   0.6
ET3     6.51  45 P      51 52.07  -0.6
KVN     6.53 116 eP     51 52.30  -1.0
PGC     6.65  13 eP     51 53.00  -1.6
MCW     6.79  16 eP     51 56.00  -0.7
FRI     6.92 137 eP     51 57.97  -0.4
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BONR	7.03	124	eP	51	59.70	-0.7
PRI	7.16	146	eP	51	58.97	-3.0
TNP	7.64	120	ePc	52	06.90	-1.9
			(S)	54	30.00	
PNT	8.28	28	P	52	16.00	-1.5
NEW	8.55	42	eP	52	19.50	-1.8
ISA	8.57	137	eP	52	22.00	0.3
CLC	8.92	133	eP	52	27.00	0.6
SBC	9.02	147	ePd	52	26.68	-1.1
MCMT	9.66	70	iPc	52	36.70	-0.2
SBB	9.67	138	eP	52	35.00	-1.8
GSC	9.73	132	ePc	52	38.46	0.8
MWC	9.93	141	eP	52	39.00	-1.5
PAS	9.94	141	iPd	52	40.08	-0.4
HBMT	10.06	65	ePc	52	41.30	-1.1
LTMT	10.13	72	iPc	52	43.40	0.0
BUT	10.16	63	iPc	52	43.50	-0.1
LRM	10.18	65	ePc	52	43.20	-0.8
BGMT	10.31	68	ePc	52	45.10	-0.7
RVR	10.45	139	eP	52	46.00	-1.4
PEC	10.63	138	eP	52	48.50	-1.5
			(S)	54	55.60	
HRY	10.86	61	iPc	52	52.10	-1.1
MSU	10.91	105	eP	52	54.40	0.4
TPC	11.04	134	eP	52	56.00	0.4
SXM	11.10	64	ePc	52	55.50	-1.0
MEMT	11.13	67	eP	52	56.50	-0.4
PLM	11.22	139	eP	52	57.00	-1.1
BAR	11.86	140	eP	53	11.00	4.3X
BW06	11.90	82	iPc	53	05.90	-1.5
GLA	12.50	133	eP	53	16.00	0.7
SES	13.00	46	ePc	53	19.60	-2.3
	1.2s	2023.00nm				7.2mb
			pP	53	29.00	
GOL	15.52	92	iPc	53	53.50	-1.7
			(S)	56	38.00	
GLD	15.61	92	iPc	53	55.30	-1.1
	0.7s	1626.67nm				6.4mb
			S	56	20.00	
RSSD	15.88	76	iPc	53	55.80	-4.1X
SIT	16.13	341	iPd	54	03.00	0.3
	1.1s	752.00nm				5.7mb
ANMO	16.63	109	ePc	54	09.99	0.5
ALQ	16.64	109	iPc+	54	09.50	0.0
	1.7s	2403.85nm				6.1mb
	Z 18s	498.28um				
			eS	57	00.00	
YKU	19.46	338	P	54	46.80	2.8
FFC	19.97	43	iPc	54	48.30	-1.3
	0.6s	730.00nm				6.2mb
YKA	21.37	14	eP	55	03.40	-0.5
	1.5s	1672.50nm				6.2mb
BALM	21.42	337	ePd	55	04.40	-0.2
			i	56	10.30	
			(S)	59	18.00	
MEO	22.37	100	iPc	55	13.10	-1.1
KLU	22.86	335	P	55	20.60	1.7
KDC	23.03	322	eP	55	21.60	1.1
TOA	23.40	335	P	55	26.40	2.3
TUL	23.94	95	iPc	55	30.40	0.9
	2.3s	9261.00nm				7.0mb
	Z 18s	395.42um				6.9Msz
	N 22s	392.95um				
	E 20s	119.03um				
			eS	01	01.00	
			LR	02	49.00	
PMR	24.00	332	iPd	55	31.50	1.7
	2.3s	3671.00nm				6.6mb
	Z 20s	180.00um				6.5Msz
FBA	26.01	338	iPd	55	48.70	-0.3
	1.0s	225.00nm				5.8mb
SDN	26.17	312	eP	55	51.00	0.5
	Z 20s	190.00um				6.6Msz
SVW	26.17	327	ePd	55	50.00	-0.6
	1.0s	250.00nm				5.9mb
			PP	56	52.10	
			(S)	00	26.20	
INK	26.52	353	ePd	55	52.80	-0.8
	1.2s	308.00nm				5.9mb
FVM	27.15	87	iPc	55	58.50	-1.2
	1.2s	1500.00nm				6.6mb
			PP	56	3B.50	
			(S)	01	19.50	
OLY	27.31	93	ePc	56	01.10	-0.1
TTA	27.34	330	ePd	56	01.30	0.0
ELC	28.28	88	ePc	56	09.50	-0.5
IMA	28.55	336	iPd	56	12.30	0.1

	2.4s	1472.00nm				6.3mb
CGX	29.23	133	(P)	56	26.50	7.7X
PWLA	30.06	91	eP	56	25.80	-0.1
MRX	30.49	130	(P)	56	32.50	2.7
TAC	31.89	127	(P)	56	46.00	3.5X
DLA	32.21	74	P	56	46.45	1.7
ELF	32.31	73	P	56	46.45	0.8
LDN	32.44	73	P	56	47.40	0.6
PPM	32.49	127	(P)	56	49.50	1.5
III	32.53	129	(P)	56	49.00	1.0
IIT	32.71	127	(P)	56	53.50	3.9X
IISM	33.30	125	(P)	56	56.50	2.1
ACX	33.51	131	(P)	57	01.50	5.2X
OPA	33.94	243	eP	56	59.20	-0.7
KIP	34.12	243	ePc	57	01.68	0.1
HON	34.19	243	e(P)	57	07.50	5.4X
MBC	34.27	3	ePd	57	02.10	-0.2
	1.5s	259.00nm				5.9mb
BLA	34.83	83	eP	57	07.20	-0.4
			PP	58	27.50	
			e	02	09.60	
OXX	35.16	127	(P)	57	13.50	2.8
JSC	35.42	88	ePc	57	11.70	-0.9
			(S)	03	13.00	
			SS	04	11.70	
ADK	35.45	304	eP	57	10.30	-2.3
	Z 20s	110.00um				6.6Msz
			iPP	58	25.10	
SCP	35.45	76	iPc	57	13.38	0.6
			ic	57	15.37	
			esPd	57	19.18	
			eS	02	52.51	
			eSS	05	04.11	
PBJ	36.45	126	(P)	57	23.00	1.6
CBN	36.70	80	eP	57	24.20	0.9
SCX	37.94	122	(P)	57	39.00	5.1X
TBR	37.95	74	eP	57	34.10	0.3
ILT	37.97	331	iPd	57	34.00	0.4
			iS	03	28.00	
GMTN	38.06	74	iP	57	35.80	1.1
PNJ	38.08	74	eP	57	35.90	1.1
FRB	38.85	37	eP	57	41.00	-0.1
	0.9s	156.00nm				5.7mb
HRV	39.40	71	iPc	57	47.69	1.8
			ic	57	49.75	
			ePP	59	07.30	
			eS	03	52.58	
			eSS	06	31.50	
TPX	39.55	123	(P)	57	51.50	4.1X
SCH	39.82	51	ePd	57	48.80	-0.5
	1.5s	677.00nm				6.1mb
SMY	40.95	306	P	58	06.00	7.5X
	Z 18s	59.05um				6.5Msz
LPS	41.97	120	iPc	58	09.00	1.6
	2.0s	1029.41nm				6.2mb
GDH	45.05	29	iPd	58	33.60	1.9
SPJ	47.31	106	ePc	58	53.08	2.8
PCJ	47.76	105	ePc	58	56.12	2.4
STH	47.79	105	ePc	58	57.07	3.0X
HOJ	47.89	105	ePc	58	58.90	4.2X
YHJ	48.15	105	ePc	58	58.74	2.0
PET	49.91	310	eP	59	08.00	-1.9
			eS	06	16.00	
UPA	52.21	116	iP+	59	28.00	0.2
	1.9s	284.21nm				5.9mb
			i	02	31.00	
MCP	54.66	97	e(P)	59	46.00	0.1
APR	54.92	97	e(P)	59	48.00	0.2
TIK	55.14	338	iPd	59	46.00	-2.8
			eS	07	32.00	
CLLP	55.26	97	P	59	50.00	-0.3
SJG	55.56	96	e(P)	59	52.50	0.0
LPR	55.64	96	e(P)	59	53.00	-0.1
CPD	55.78	96	e(P)	59	54.00	0.0
KBS	56.62	9	iPc	00	00.50	1.1
BMG	57.98	112	iPd	00	10.00	0.2
JNW	58.60	20	eP	00	14.50	1.1
AKU	58.92	27	iPd	00	16.10	0.5
	2.3s	872.73nm				6.5mb
BOG	59.07	114	iPc	00	19.00	1.3
MGH	59.34	95	eP	00	21.41	2.2
BPA	59.40	94	eP	00	19.00	-0.7
PSO	59.47	120	eP	00	22.00	1.4
YAK	59.92	328	iPd	00	20.80	-1.8
			iPSP	01	01.00	
			iPP	02	29.00	
			ePPP	03	35.00	

			iScP	05	03.00	
			iPcS	05	35.00	
			ePSP	07	33.00	
			iS	08	33.00	
			iPS	09	07.00	
			iScS	10	09.00	
			eSS	12	19.00	
			iSSS	14	53.00	
PAG	60.18	95	eP	00	24.00	-1.0
TPT	60.38	205	iP	00	26.50	0.4
	1.8s	1260.00nm				6.7mb
PMO	60.49	205	iP	00	27.20	0.4
	1.8s	1575.00nm				6.8mb
RUV	60.50	204	iP	00	27.00	0.1
	1.8s	1575.00nm				6.8mb
VAH	60.62	205	iP	00	27.40	-0.4
	1.8s	1575.00nm				6.8mb
BBL	60.65	95	eP	00	28.00	-0.2
FDF	61.39	96	eP	00	32.30	-1.0
CRM	61.56	96	eP	00	37.00	2.7
BIM	61.59	96	eP	00	36.50	1.9
MVM	61.70	96	eP	00	35.60	0.3
YSS	61.75	309	ePd	00	33.00	-2.3
			iS	08	59.00	
GRW	62.69	99	eP	00	42.37	0.4
KUSJ	62.69	304	eP	00	38.20	-3.4X
PPN	63.34	206	iP	00	46.10	0.1
	1.6s	505.00nm				6.5mb
ASAJ	63.38	306	eP	00	44.70	-1.4
PPT	63.43	206	iP	00	46.80	0.2
	1.6s	885.00nm				6.7mb
AFR	63.46	206	iP	00	46.60	-0.2
	1.6s	430.00nm				6.4mb
PAE	63.51	206	iP	00	47.30	0.2
	1.6s	505.00nm				6.5mb
TVO	63.52	205	iP	00	47.40	0.1
	1.6s	505.00nm				6.5mb
TRN	63.87	100	eP	00	49.90	0.2
	Z 21s	55.10um				6.7Msz
			e	03	15.00	
			e	04	20.00	
			e	09	33.20	
			e	21	12.00	
TPP	64.06	100	eP	00	52.05	1.2
TBH	64.23	99	eP	00	52.00	0.0
SAP	64.76	306	eP	00	54.00	-1.2
MRRJ	65.29	306	eP	00	53.10	-5.4X
TRO	65.50	13	eP	00	59.00	-0.5
RKT	65.54	189	iP	01	02.60	2.4
	1.6s	405.00nm				6.4mb
KEV	66.59	10	iPd	01	05.11	-1.3
			iS	09	57.60	
			eScS	11	03.49	
SOD	68.76	11	iP	01	19.20	-0.9
TBI	68.82	203	iP	01	23.00	2.1
	1.8s	435.00nm				6.3mb
APA	69.44	8	iPd	01	23.70	-0.6
RGS	69.44	20	eP	01	24.00	-0.3
NIIJ	69.65	302	P	01	24.90	-1.2
PT10	70.06	129	e(P)	01	30.00	1.3
NNA	70.06	128	iPc	01	28.70	-0.1
	1.2s	85.94nm				5.8mb
	Z 22s	30.56um				6.5Msz
AFI	70.10	22B	ePc	01	27.15	-1.9
			epPd	01	30.46	11kmX
			iS	10	43.58	
EAB	70.20	31	ePd	01	28.70	-0.3
BER	70.21	23	eP	01	28.70	-0.4
ELO	70.22	30	ePd	01	28.80	-0.4
	1.4s	452.00nm				6.4mb
CHJJ	70.39	301	P	01	29.50	-1.1
EBH	70.46	30	ePd	01	30.30	-0.4
	1.6s	946.00nm				6.7mb
MDJ	70.55	313	ePd	01	29.43	-2.0
			epPc	01	33.24	12kmX
			eS	10	44.59	
			eScS	11	36.90	
MAJO	70.58	302	ePc	01	30.67	-1.1
			epPc	01	33.81	10kmX
			iS	10	44.75	
MAT	70.58	302	iPc	01	30.00	-1.8
	1.8s	286.36nm				6.1mb
	Z 20s	33.33um				6.6Msz
			eS	10	43.00	
EAU	70.79	30	ePd	01	32.30	-0.4
	1.4s	547.00nm				6.5mb
EDI	70.83	30	ePd	01	32.40	-0.5

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VAL	70.85	36	eP	01 32.00	-1.1
			S	10 51.00	
DMU	70.86	33	eP	01 32.40	-0.8
	1.2s	204.00nm			6.1mb
ESY	71.04	30	ePd	01 33.60	-0.6
DCN	71.12	34	eP	01 34.00	-0.7
ESK	71.27	31	ePd	01 36.00	0.4
	1.0s	80.00nm			5.8mb
EKA	71.28	31	P	01 35.00	-0.6
	1.5s	160.20nm			5.9mb
NB2	71.31	21	P	01 33.60	-2.2
	1.5s	238.00nm			6.1mb
IIDJ	71.43	301	P	01 36.20	-0.8
DLF	71.46	34	eP	01 36.40	-0.3
	1.3s	308.00nm			6.3mb
ETA	72.03	34	eP	01 40.00	-0.2
ECB	72.03	34	eP	01 39.60	-0.6
	1.3s	226.00nm			6.1mb
KONO	72.04	22	iPd	01 39.85	-0.3
			iS	11 05.41	
			eSS	15 49.12	
PDA	72.20	55	eP	01 42.00	0.6
ECP	72.34	34	eP	01 41.50	-0.5
	1.4s	404.00nm			6.3mb
HFS	72.72	20	eP	01 43.00	-1.2
	1.5s	380.90nm			6.3mb
	Z 18s	94.35um			7.1Msz
			LR	28 13.00	
CN2	73.32	314	eP	01 45.40	-2.5
	1.5s	90.00nm			5.6mb
	Z 20s	89.00um			7.0Msz
	N 18s	32.90um			
	E 18s	18.10um			
			epP	01 56.00	34kmX
			PcP	02 03.00	
			ScS	11 47.00	
KAF	73.62	13	iP	01 48.50	-0.8
	1.0s	72.50nm			5.7mb
UPP	73.92	18	iP	01 49.90	-1.2
			iS	11 26.00	
NUR	74.82	15	iP	01 55.80	-0.5
	1.0s	114.00nm			5.9mb
			eS	11 36.00	
SHK	75.33	303	eP	01 58.70	-1.0
SNY	75.68	314	iPd	02 00.00	-1.5
	1.8s	200.00nm			5.9mb
	Z 32s	65.40um			6.7MszX
	N 16s	17.10um			
	E 13s	18.10um			
			S	11 42.00	
IRK	76.47	331	iPd	02 05.00	-0.9
			ePcP	02 23.40	
			e	02 36.00	
			e	04 36.00	
			ePP	04 50.00	
			ePPP	06 58.00	
			ePSP	08 26.00	
			eS	11 53.00	
			ePS	12 25.00	
			e	13 32.00	
			eSS	16 36.00	
			eSSS	20 16.00	
PUL	76.50	12	ePd	02 06.00	0.2
			eS	11 46.00	
SHNJ	76.57	304	eP	02 00.70	-6.0X
ARE	76.75	127	iP	02 10.00	1.8
WIT	76.82	27	eP	02 10.00	2.2
DBN	76.89	29	eP	02 10.00	1.9
	Z 20s	92.30um			7.1Msz
			ePP	04 46.00	
			eS	12 02.00	
			eSS	16 48.00	
			eSSS	20 04.00	
FLN	77.39	34	iPd	02 10.80	-0.2
	1.9s	654.25nm			6.4mb
	Z 18s	202.50um			7.5Msz
GRR	77.52	34	iPd	02 12.10	0.4
WTS	77.55	28	iPd	02 12.00	0.2
	1.0s	154.00nm			6.0mb
UCC	77.65	30	P-	02 14.00	1.6
			e	04 50.00	
			iPP	05 11.00	
			S	12 10.00	
			SS	17 08.00	
LDF	77.67	34	iPd	02 12.50	0.0
	1.7s	544.05nm			6.4mb
LPF	77.72	34	iPd	02 13.00	0.2
KUMJ	77.81	303	eP	02 08.90	-4.7X
STS	78.18	42	eP	02 15.84	0.4
ENN	78.25	29	iPd	02 16.20	0.5
	1.0s	220.00nm			6.2mb
DOU	78.31	30	Pd-	02 16.40	0.4
			i	05 15.00	
			e	12 21.00	
EMON	78.37	41	eP	02 16.12	-0.4
MEM	78.41	29	Pd	02 17.30	0.8
BNS	78.53	28	iPd	02 17.70	0.5
	2.0s	702.00nm			6.4mb
ZOBO	78.63	124	ePc	02 18.22	-0.7
	1.0s	60.00nm			5.6mb
			ec	02 20.70	
			ePP	05 17.72	
EZAM	78.65	43	eP	02 17.99	-0.1
DL2	78.79	313	eP	02 18.00	-0.9
	6.0s	1400.00nm			6.2mb X
	Z 36s	33.40um			6.4MszX
	N 15s	6.50um			
	E 15s	20.20um			
			S	12 16.00	
LPB	78.85	124	P	02 20.20	0.3
	Z 21s	37.99um			6.7Msz
			S	12 18.00	
			LR	26 28.00	
CNCB	79.13	125	P	02 22.20	0.5
KOE	79.18	28	ePd	02 21.30	0.6
BGG	79.22	29	iPd	02 21.60	0.6
MFF	79.22	35	iPd	02 21.00	-0.1
	1.8s	543.80nm			6.3mb
ERUA	79.24	42	iPd	02 21.45	0.1
WLF	79.24	30	iPd	02 21.98	0.9
BRN	79.28	24	iPd	02 22.30	1.1
TNS	79.60	28	ePd	02 23.60	0.5
CLL	80.18	25	iPd	02 26.10	0.0
	2.3s	930.00nm			6.4mb
	Z 17s	68.00um			7.1MszX
			eS	12 31.00	
LSF	80.21	34	iPd	02 26.00	-0.4
MOX	80.31	26	iPd-	02 27.20	0.3
	2.4s	990.00nm			6.4mb
	Z 22s	73.00um			7.0Msz
	N 22s	73.00um			
	E 18s	61.00um			
LOR	80.33	32	iPd	02 27.00	-0.1
	1.7s	574.40nm			6.3mb
GWF	80.35	29	P	02 27.81	0.7
SSF	80.36	33	iPd	02 27.30	0.1
VITF	80.38	30	P	02 27.63	0.3
TCF	80.46	34	iPd	02 27.40	-0.4
BGF	80.50	33	eP	02 27.60	-0.4
AVF	80.52	33	eP	02 27.60	-0.4
LBF	80.61	32	iPd	02 28.40	-0.2
GUA	80.64	280	eP	02 26.10	-3.1X
	1.0s	160.00nm			6.0mb
	Z 22s	92.49um			7.1Msz
GUMO	80.64	280	ePc	02 26.28	-2.9
	1.2s	200.00nm			6.0mb
			e	02 49.00	
			iS	12 34.28	
PJG	80.64	280	eP	02 26.20	-3.0
MAF	80.66	34	eP	02 28.60	-0.2
HAU	80.69	30	eP	02 28.80	-0.2
	1.8s	397.05nm			6.1mb
CDF	80.70	30	eP	02 29.00	-0.1
	1.6s	422.90nm			6.2mb
CCH	80.70	124	Pc	02 30.30	0.6
STR	80.73	29	P	02 30.01	0.9
ECH	80.82	30	P	02 29.96	0.3
SMF	80.83	33	eP	02 29.20	-0.5
BJI	80.84	317	eP	02 29.00	-0.8
	2.0s	120.00nm			5.6mb
	Z 26s	34.30um			6.6MszX
	N 17s	24.90um			
	E 20s	43.30um			
			eS	12 40.00	
			eSS	17 50.00	
BRG	80.85	25	iPd	02 30.20	0.5
	2.3s	1200.00nm			6.5mb
	Z 18s	94.00um			7.2Msz
	N 18s	54.00um			
	E 18s	60.00um			
			i	03 40.00	
			iS	12 36.00	
			i	22 28.00	
			eP'P'	29 15.00	
LFF	80.92	35	eP	02 30.10	-0.1
RJF	80.96	35	eP	02 29.80	-0.6
	1.5s	344.75nm			6.2mb
GRF	81.00	27	ePd	02 31.30	0.8
	2.4s	1468.00nm			6.6mb
	Z 22s	110.00um			7.2Msz
			eS	12 49.80	
BSF	81.00	30	eP	02 30.40	-0.3
	1.8s	483.35nm			6.2mb
STU	81.09	28	iPd-	02 31.20	0.2
	1.6s	266.67nm			6.0mb
	Z 20s	56.74um			6.9Msz
MOF	81.11	30	P	02 31.29	0.0
ECRI	81.30	39	iPd	02 32.74	0.4
LPO	81.32	35	eP	02 32.00	-0.3
LOMF	81.41	30	P	02 32.99	0.1
FEL	81.42	30	P	02 32.89	0.0
CAF	81.49	35	eP	02 32.80	-0.5
EPLA	81.52	42	iPd	02 33.75	0.3
BBS	81.57	30	P	02 33.98	0.4
KSP	81.58	23	iPd	02 33.80	0.2
	2.2s	974.00nm			6.5mb
			eS	12 49.00	
SLE	81.68	29	ePd	02 34.80	0.6
COLF	81.69	33	P	02 34.53	0.2
ZLA	81.88	30	ePd	02 36.40	1.2
OBN	81.92	10	iPd-	02 34.50	-0.7
	1.4s	360.00nm			6.3mb
	Z 32s	7.60um			5.9MszX
	N 32s	18.00um			
	E 20s	13.00um			
			e	03 44.00	
			iPP	05 44.00	
			ePPP	07 38.00	
			i	09 02.00	
			iS	12 52.00	
			eScS	13 14.00	
			i	13 30.00	
			iPS	14 00.00	
			iPPS	14 38.00	
			iSS	18 40.00	
			iSSS	22 00.00	
			eSSSS	24 05.00	
			LQ	31 26.00	
WET	82.02	26	iPd	02 36.50	0.6
			eS	13 01.00	
GUD	82.03	41	iPd	02 36.77	0.5
KHC	82.26	26	iPd	02 38.00	0.8
	2.0s	504.00nm			6.3mb
	Z 20s	86.00um			7.1Msz
			S	12 56.00	
EPF	82.26	37	eP	02 36.80	-0.5
	1.9s	362.35nm			6.2mb
FUR	82.33	27	iPd	02 38.60	1.1
	Z 18s	96.00um			7.2Msz
			eS	13 04.80	
HHC	82.50	320	Pd	02 37.00	-1.7
	1.2s	70.00nm			5.7mb
	Z 32s	54.00um			6.7MszX
	N 15s	15.40um			
	E 15s	24.50um			
			SKS	12 55.00	
LLS	82.62	29	ePc	02 40.50	1.2
DIX	82.70	31	ePd	02 41.50	1.7
RSL	82.72	32	P	02 40.53	0.7
ETOR	82.90	40	eP	02 39.29	-1.4
LPL	82.91	32	eP	02 41.60	0.8
LPG	82.93	32	eP	02 41.60	0.6
	2.1s	734.45nm			6.5mb
MMK	82.93	31	ePd	02 42.70	1.7
ANT	83.04	131	iP	02 42.20	0.8
EVAL	83.05	44	iPd	02 41.91	0.5
SQTA	83.12	28	iPd	02 42.60	0.8
	2.4s	1004.00nm			6.6mb
			i	02 59.00	
VDL	83.12	29	ePc	02 44.30	2.4
WATA	83.14	28	iPd	02 41.60	-0.3
	2.4s	10.00nm			4.6mb X
			i	02 52.30	
			i	03 03.20	
			i	03 14.00	
OSS	83.20	29	ePd	02 43.80	1.6
TIA	83.20	314	eP	02 41.00	-1.2
	1.6s	30.00nm			5.2mb
	N 19s	28.60um			
	E 18s	30.60um			
			S	13 01.00	

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WTTA	83.23	28	iPd	02 43.10	0.7
	2.6s	1631.00nm			6.8mb
			i	02 58.10	
			i	03 08.40	
BHG	83.25	27	iPd	02 43.00	0.7
BNI	83.27	32	Pd	02 44.00	1.4
ORX	83.29	31	P	02 43.59	0.9
KRA	83.32	22	iPd	02 43.00	0.4
	1.6s	627.00nm			6.6mb
	Z 18s	68.00um			7.1Msz
	E 18s	75.50um			
			i	02 45.50	
			i	02 58.80	
			iS	13 06.00	
OGA	83.35	28	eP	02 44.30	1.2
KMR	83.37	26	iP-	02 43.40	0.5
RSP	83.41	31	P	02 44.62	1.3
RRL	83.42	32	P	02 45.03	1.5
BTO	83.43	321	P	02 42.50	-1.0
	7.0s	1500.00nm			6.3mb X
	N 14s	21.40um			
	E 14s	35.10um			
			ePP	05 58.00	
			S	13 03.00	
			SS	18 34.00	
EHOR	83.64	43	iPd	02 45.01	0.6
BHB	83.68	32	P	02 45.54	1.0
MDI	83.81	30	Pd	02 45.60	0.5
VKA	83.88	24	iPd	02 46.20	0.7
	5.0s	5709.00nm			7.1mb X
	Z 16s	57.30um			7.0MszX
			i	13 03.50	
			i	13 12.00	
			LR	44 12.00	
PZZ	83.89	32	P	02 47.18	1.4
ETER	83.95	36	iPd	02 46.34	0.4
KBA	83.97	27	iPd	02 46.70	0.5
	2.3s	1105.00nm			6.7mb
			i	02 58.60	
			i	03 12.40	
CDR	84.05	33	ePd	02 47.10	0.7
EBR	84.09	38	iP	02 47.00	0.4
			eS	13 15.00	
			eSS	18 48.00	
EBAN	84.12	42	iPd	02 47.53	0.6
SPC	84.20	22	iPd	02 48.40	1.1
			e	14 09.00	
			e	29 08.20	
STV	84.20	32	P	02 47.18	-0.1
FVI	84.20	27	P	02 47.30	0.2
ENR	84.25	32	P	02 47.28	-0.3
SAL	84.26	29	P	02 48.70	1.3
EPRU	84.31	44	eP	02 48.53	0.7
TOUF	84.36	32	P	02 48.50	0.3
ROB	84.37	32	P	02 48.41	0.3
ECHE	84.38	40	iPd	02 48.82	0.6
EVIA	84.39	41	iPd	02 49.18	0.8
CKI	84.42	31	Pd	02 48.60	0.4
MVIF	84.42	32	P	02 48.67	0.2
PCP	84.42	31	P	02 48.31	0.0
CALN	84.44	32	P	02 48.98	0.4
AUTN	84.45	32	P	02 48.67	0.0
LRG	84.47	33	eP	02 48.50	0.0
	Z 18s	140.00um			7.4Msz
AURF	84.50	32	P	02 48.50	-0.3
FRF	84.50	33	eP	02 48.60	-0.1
TIY	84.50	317	eP	02 48.50	-0.4
	Z 20s	25.50um			6.6Msz
	N 12s	13.10um			
	E 14s	17.50um			
			S	13 14.50	
			SS	18 52.00	
SAOF	84.51	32	P	02 48.67	-0.1
SBF	84.56	32	eP	02 48.80	-0.3
	1.8s	630.10nm			6.5mb
FIN	84.57	31	P	02 48.82	-0.2
BOB	84.57	30	Pd	02 50.30	1.2
EJIF	84.57	44	eP	02 50.40	1.2
VVI	84.61	28	P	02 49.70	0.5
LMR	84.63	33	eP	02 49.20	-0.1
	1.8s	673.25nm			6.6mb
REVF	84.64	32	P	02 49.37	0.0
SSE	84.67	308	Pc	02 48.00	-1.7
	1.0s	37.00nm			5.6mb
	Z 20s	21.20um			6.5Msz
	N 14s	7.80um			
	E 15s	13.40um			

			SKS	13 10.00	
IMI	84.70	32	P	02 49.84	0.1
MAL	84.91	44	iPd	02 52.00	1.2
			iS	13 24.00	
ECOG	84.92	43	iPc	02 51.92	0.9
AFC	84.94	43	iPd	02 52.24	1.0
VOY	85.07	27	iPd	02 51.30	-0.3
PSZ	85.25	22	iP	02 52.10	-0.4
UZH	85.26	21	iPd	02 53.00	0.7
			iS	13 30.00	
EGUA	85.26	43	iPd	02 53.28	0.7
LJU	85.27	27	ePd	02 53.00	0.5
			eS	13 18.00	
TRI	85.31	27	Pd	02 53.00	0.4
NJ2	85.32	310	Pc	02 52.00	-0.9
	1.4s	100.00nm			5.8mb
	Z 24s	11.90um			6.2MszX
	N 20s	24.00um			
CEY	85.50	27	iPd	02 53.90	0.2
EALH	85.53	41	eP	02 56.02	2.1
MME	85.53	30	P	02 55.40	1.3
BDI	85.61	30	P	02 54.20	-0.1
ENIJ	85.83	42	eP	02 56.45	1.0
RIY	85.84	27	iPd	02 55.70	0.4
PTJ	85.87	26	iPd	02 55.70	0.1
PII	85.87	30	Pd	02 55.20	-0.3
AVE	85.92	48	iPd	02 56.50	0.6
			i	03 10.50	
ZAG	85.95	26	iPd	02 56.60	0.8
			iS	13 24.20	
VBY	85.99	26	ePd	02 56.50	0.4
ESEL	86.02	37	eP	02 56.34	0.0
UZD	86.07	24	iP	02 57.20	0.8
PGD	86.18	29	P	02 58.40	1.1
SFI	86.19	29	P	02 58.88	1.8
	2.3s	*******	nm		7.9mb X
PGF	86.29	32	eP	02 57.50	-0.2
RSM	86.40	29	P	02 59.80	1.7
BMR	86.45	20	ePc	03 10.00	11.7X
CRE	86.48	29	Pd	02 59.10	0.4
SLA	86.67	128	e(P)	03 02.00	2.3
ARV	86.95	29	Pd	03 01.70	0.9
RAB	87.01	262	eP	03 00.00	-1.5
			eS	13 28.00	
ASS	87.22	29	Pd	03 02.30	0.1
MAO	87.23	31	P	03 03.60	1.4
TIO	87.79	49	iPd	03 05.70	0.4
			i	03 40.50	
DEV	87.95	21	ePc	03 14.00	8.4X
BEO	88.23	23	eP	03 06.50	-0.4
RMP	88.33	30	P	03 08.50	1.0
RDP	88.38	30	P	03 08.90	1.1
HVAR	88.44	27	eP	03 07.90	-0.1
A8A	88.50	39	iP	03 09.50	1.1
ANP	88.75	303	eP	03 11.20	1.3
			iS	13 54.00	
SDI	88.83	29	P	03 09.50	-0.5
GTA	88.91	326	Pd	03 10.00	-0.5
	2.2s	270.00nm			6.1mb
	Z 17s	54.00um			7.0MszX
	N 16s	38.60um			
VRI	88.94	19	ePd	03 09.50	-0.9
WHN	88.99	312	Pd	03 11.00	0.2
	1.5s	100.00nm			5.9mb
	Z 26s	8.50um			6.1MszX
	N 17s	8.60um			
	E 17s	16.50um			
			SKS	13 36.00	
			iS	13 52.00	
CMP	89.08	20	ePd	03 13.00	1.9
DUI	89.10	29	P	03 12.20	0.9
MLR	89.10	20	eP	03 10.50	-0.8
MTUR	89.13	20	eP	03 12.00	0.6
XAN	89.15	317	P	03 10.60	-1.0
	1.5s	100.00nm			5.9mb
	N 17s	24.70um			
	E 14s	14.40um			
			PP	06 36.00	
			sS	14 03.00	
RFI	89.24	29	P	03 13.14	1.3
	2.5s	4660.80nm			7.3mb X
WMQ	89.31	337	iPd	03 12.61	0.4
	1.6s	100.00nm			5.8mb
	Z 27s	45.30um			6.8MszX
	N 18s	45.60um			
			epPc	03 15.84	10kmX
			SKS	13 42.00	

			S	14 02.00	
CYA	89.32	130	e(P)	03 06.30	-6.0X
BRY	89.38	25	iPd	03 12.10	-0.6
DZM	89.47	239	iPc	03 13.00	-0.1
NKY	89.60	25	iPd	03 13.20	-0.5
HCY	89.77	26	iPd	03 13.76	-0.6
IVA	89.83	25	iPd	03 14.10	-0.6
CFR	89.92	18	eP	03 14.00	-1.0
LZH	89.93	322	ePd	03 15.13	-0.3
	2.5s	379.99nm			6.2mb
	Z 20s	39.50um			6.8Msz
	N 15s	32.20um			
			epPc	03 18.52	11kmX
			PP	06 53.00	
			SKS	13 46.00	
			S	14 08.00	
BDV	90.02	26	iPd	03 15.00	-0.5
TTG	90.03	25	iPd	03 15.08	-0.4
	Z 21s	31.20um			6.7Msz
			iS	14 10.03	
PVY	90.10	25	iPd	03 16.80	0.7
BUC	90.15	20	iPd	03 13.00	-3.0X
PEL	90.34	137	eP	03 12.00	-4.9X
SGO	90.37	29	P	03 17.70	0.6
ULC	90.45	25	eP	03 17.33	-0.2
MGR	90.83	29	P	03 19.00	-0.3
VTS	91.07	22	iP	03 20.00	-0.5
SKO	91.12	24	ePd	03 20.00	-0.6
	Z 17s	89.18um			7.3MszX
	N 15s	59.93um			
	E 15s	71.01um			
			i	03 38.00	
			e	03 45.80	
			i	06 59.00	
			iSKS	13 44.00	
			iSKKS	13 53.00	
			i	14 24.50	
			i	14 47.00	
			iSS	20 32.00	
			i	28 45.00	
			LR	46 24.00	
MMN	91.21	29	P	03 22.80	1.9
USI	91.21	31	P	03 23.80	2.8
ORI	91.21	28	P	03 22.00	1.0
SIM	91.38	14	ePd	03 22.00	0.3
			iS	14 24.00	
CSI	91.41	28	P	03 22.40	0.4
LCI	91.49	27	P	03 22.70	0.4
BAO	91.49	110	ePc	03 24.00	1.4
LVI	91.51	32	P	03 23.50	1.1
TDS	91.53	28	Pd	03 22.40	-0.1
ERC	91.56	32	P	03 23.00	0.3
ROI	91.69	28	P	03 21.50	-1.8
CZI	91.85	29	P	03 22.80	-1.1
PLD	91.94	22	iPd	03 24.00	-0.3
CVT	91.95	32	P	03 25.80	1.4
FNA	92.19	24	ePc	03 28.24	2.7
SOB1	92.24	100	eP	03 26.70	0.6
			e	03 29.10	
			e	07 11.70	
KNT	92.30	23	ePd	03 25.72	-0.3
RZN	92.33	22	iPd	03 26.00	-0.4
GRG	92.34	24	ePd	03 26.52	0.3
PTS	92.39	33	P	03 30.50	4.0X
SRS	92.54	23	ePd	03 26.72	-0.4
KDZ	92.55	21	iP	03 27.00	-0.2
KEK	92.66	26	eP	03 28.00	0.3
SOH	92.74	23	ePd	03 28.04	-0.1
SOI	92.84	29	P	03 27.60	-0.9
IGT	93.00	26	ePc	03 29.56	0.3
RDO	93.06	21	eP	03 29.00	-0.5
LIT	93.15	24	ePd	03 29.45	-0.5
CAI	93.22	96	eP	03 31.30	0.7
ALN	93.42	21	ePd	03 30.76	-0.4
FRU	93.43	345	iP	03 32.00	0.8
PPD	93.62	116	eP	03 32.90	0.7
			e	03 35.40	
			e	03 43.40	
PAIG	93.66	23	ePd	03 31.60	-0.7
MBO	93.76	67	eP	03 35.80	2.8
CTT	93.80	19	iP	03 32.80	-0.1
MFT	93.85	20	iP	03 32.80	-0.5
ITU	93.98	19	iPd	03 36.00	2.3
AGG	94.09	24	ePd	03 34.00	-0.4
PMG	94.18	261	e(P)	03 34.00	-0.9
CD2	94.23	319	eP	03 34.50	-0.6
HRT	94.41	19	eP	03 36.30	0.5

13d 03h

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EZN    94.50  21 eP     03 34.30  -1.8
KAS    94.77  15 eP     03 37.50   0.0
PRK    95.03  22 eP     03 38.00  -0.6
DST    95.31  20 eP     03 39.00  -1.0
ATH    95.48  24 iPd    03 40.00  -0.7
                iS     14 16.00
BAG    95.73 298 eP     03 40.00  -2.4
                eS     14 01.00
BKR    95.90   8 iPd    03 43.00   0.2
VLI    96.40  25 eP     03 42.50  -2.4
KSH    96.40 343 Pd     03 45.00  -0.1
     N  16s     43.40um
     E  17s     94.20um
LPA    98.59 130 eP-    04 02.00   7.6X
     Z  20s     12.06um          6.4Msz
                ePP    08 02.00
                iSKS   14 37.20
                iS     15 28.00
                ePS    17 00.00
DAV    98.95 288 eP     03 56.00  -0.6
WEL    98.99 221 eP     03 56.00  -0.1
     Z  22s     50.37um          7.0Msz
     N  22s     41.48um
     E  22s     35.56um
                SKS    14 32.00
                SKS    15 36.00
                PS     17 00.00
                SS     22 20.00
                SSS    26 00.00
KMI    99.50 317 eP     04 03.00   3.6X
     Z  40s     56.80um          6.8MszX
     E  15s     10.20um
MSL   101.14   9 ePdiff04 06.50   0.4
                iPP    08 06.50
                eSKS   14 42.00
                eS     15 41.00
                ePS    17 19.00
                e      18 04.00
MAIO  101.75 356 ePdiff04 10.00   1.0
                eS     14 50.00
BHL   102.36  16 Pdiff 04 12.00   0.3
                PP     08 24.00
                PPP    10 36.00
                SKS    14 52.00
SHL   104.20 325 ePdiff04 40.00  19.8X
BHD   104.36   9 ePdiff04 06.00 -14.4X
                eSKKS  15 05.00
                ePS    16 43.00
HLW   105.24  21 ePdiff04 26.00   1.5
NDI   106.40 339 ePdiff04 30.00   0.3
                ePP    08 01.00
                SKS    15 12.00
                SSS    23 58.00
CHG   106.68 316 ePKP  09 00.00  18.2X
LIC   107.71  64 Pdiff 04 40.00   4.2X
     Z  20s     64.80um          7.2Msz
WRA   110.39 261 PKP   08 48.00  -0.8
      0.9s      3.60nm
WRA   110.39 261 PKP   08 55.00   6.2X
      0.7s      3.60nm
WRA   110.39 261 PKP   09 05.00  16.2X
      1.8s      4.30nm
STK   112.47 247 ePKP  08 50.60  -1.7
      1.6s      2.00nm
ASPA  113.00 258 ePKP  08 52.90  -0.7
      1.0s      5.90nm
HYB   116.63 334 ePKP  09 20.00  19.2X
                e      10 00.00
SPA   131.99 180 iPKPc+09 30.20   1.4
      1.1s     24.40nm
     Z  20s     26.98um          7.0Msz
NAI   136.32  26 ePKP  09 40.00   1.2
                e      12 18.00
NVL   144.36 157 ePKPd 09 49.00  -2.2
                e      10 02.00
                e      10 05.00
                e      10 31.00
                e      10 48.00
                e      11 36.00
                ePP    12 07.00
                e      12 55.00
                e      13 09.00
                e      13 14.00
                ePKS   13 30.00
                e      13 54.00
                e      14 11.00
                ePPP   14 44.00
                e      16 41.00
                eSKS   16 53.00
                e      18 10.00
                eSKKS  18 45.00
                e      19 49.00
                e      20 03.00
                e      20 27.00
LSZ   144.98  48 iPKPc 09 54.00   0.0
                i      10 11.00
                i      13 11.00
PTZ   145.78  42 iPKPc 09 54.90  -0.5
                i      09 58.10
                i      10 09.00
                i      13 12.20
KRI   147.03  47 iPKPc 09 58.40   1.0
                i      10 12.50
                ipPKP  10 21.00
                iSKP   13 26.20
SONG  147.65  41 ePKP  10 02.60   4.3X
MTD   148.04  44 iPKPc 09 58.50  -0.4
                ipPKP  10 19.00
                iSKP   13 31.20
BUL   149.10  53 iPKPc 10 00.90   0.3
      1.0s    120.00nm
                i      10 07.80
                ipPKP  10 55.20
CER   151.08  84 iPKPc 10 05.70   2.6X
SLR   153.01  61 ePKPc 10 08.82   2.6X
      1.5s    472.22nm
     Z  25s     50.60um          7.2MszX
                ed     10 12.63
                ePKPob10 25.95
                iSKP   13 55.15
PRY   153.28  64 iPKPd 10 09.70   3.1X
      1.0s     90.00nm
                i      10 17.50
FRS   153.56  71 ePKP  10 02.20  -4.5X
      1.2s    234.38nm
                i      10 11.50
MAW   154.11 187 ePKP  10 07.00   0.8
      1.0s     44.00nm
     Z  17s     18.00um          7.0MszX
HVD   154.18  73 ePKP  10 17.20   9.5X
      1.0s    100.00nm
                i      10 31.80
SEK   154.29  66 ePKP  10 05.00  -3.0X
                i      10 33.70
JOZ   156.63  58 ePKP  10 08.00  -2.9X
     S.D. = 1.0  on 535 of 578 obs.
-----------------------------------------
?  JUL  13, 1991  03h 19m 10.21± 3.21s
   41.773 N ±23.5km  125.811 W ±14.9km
   DEPTH =  10.0km  (geophysicist)
   3.7mb (  1 obs.)
 OFF COAST OF NORTHERN CALIFORNIA( 34)

GT2      4.25  36 P      20 16.92   0.4
PGO      4.42  32 P      20 19.32   0.5
VBEM     4.50  42 P      20 20.02  -0.1
TDH      4.57  38 P      20 21.03  -0.1
NLO      4.64  21 P      20 22.54   0.5
VLMM     4.65  35 P      20 22.39   0.1
VIPM     4.68  53 P      20 23.09   0.3
VFP      4.75  40 P      20 24.20   0.5
VLL      4.75  38 P      20 23.97   0.3
CROR     4.76  46 P      20 23.54  -0.2
RVW      4.90  26 P      20 26.39   0.7
LVP      4.95  29 P      20 26.16  -0.2
MTMW     4.98  30 P      20 26.20  -0.7
BMW      5.06  21 P      20 27.40  -0.5
FL2      5.08  28 P      20 28.36   0.1
JLK      5.11  30 P      20 28.12  -0.5
VTHM     5.12  47 P      20 28.79   0.0
CDFW     5.12  31 P      20 28.30  -0.5
GULW     5.15  35 P      20 29.74   0.5
SOSW     5.19  29 P      20 29.68  -0.1
VGB      5.23  43 P      20 30.37   0.0
TDL      5.26  28 P      20 31.34   0.5
ASR      5.33  33 P      20 31.41  -0.4
LMW      5.51  26 P      20 35.00   0.7
GLK      5.66  31 P      20 36.13  -0.4
LON      5.75  29 Pd     20 37.21  -0.4
WPW      5.80  30 Pd     20 37.91  -0.5
FMW      5.95  29 Pd     20 40.50  -0.1
MXC      6.23  38 P      20 44.67   0.3
RMW      6.36  25 P      20 47.36   1.0
RSW      6.43  42 P      20 46.76  -0.6
RPW      7.33  23 P      20 59.48  -0.5
DHW2     7.55  33 P      21 02.21  -0.7
YKA     21.80  14 eP     24 03.90   0.0
        0.9s      2.80nm          3.7mb
     S.D. = 0.5  on  34 of  34 obs.
-----------------------------------------
&  JUL  13, 1991  03h 53m 15.55s
   61.494 N           146.684 W
   DEPTH =  13.7km
 SOUTHERN ALASKA                      (  2)
     <AEIC>. ML 2.7 (AEIC).

KLU      0.37  90 iPc    53 23.26  -0.1
                eS     53 29.51
VLZ      0.40 155 iPc    53 23.49  -0.4
                eS     53 30.00
VZW      0.44 172 iPc    53 24.20  -0.5
                S      53 31.29
SCM      0.46 318 iPd    53 24.89  -0.1
GLI      0.65 198 iPd    53 27.41  -0.7
TOA      0.66  21 iPd    53 27.68  -0.7
TZL      0.82  47 iPc    53 29.92  -1.1
KNK      0.85 265 iPc    53 30.91  -0.8
                eS     53 42.80
CVA      1.05 154 ePc    53 33.60  -1.5
                S      53 47.44
HIN      1.10 175 iPd    53 34.53  -1.4
                S      53 49.41
GHO      1.11 286 iPc    53 34.24  -1.8
                eS     53 49.61
SDG      1.17  27 ePd    53 34.78  -2.3
                eS     53 49.76
PLRM     1.18 276 iPc    53 35.56  -1.6
                eS     53 51.57
SGAM     1.23 144 ePc    53 35.93  -2.1
KNIM     1.26 205 iPd    53 36.56  -2.0
                eS     53 53.48
GLB      1.38  91 iPc    53 37.30  -3.1
                eS     53 54.92
PMS      1.41 261 iPc    53 39.43  -1.4
RAGM     1.48 138 ePc    53 40.10  -1.7
PWA      1.54 277 ePc    53 41.38  -1.2
LTI      1.57 202 iPd    53 40.94  -2.1
MTU      1.58 198 eP     53 40.77  -2.5
PAX      1.59  20 ePc    53 40.88  -2.5
HMT      1.66 133 eP     53 42.00  -2.4
CRQM     1.87 112 ePc    53 45.54  -2.1
CUT      1.93 300 ePc    53 46.90  -1.3
SEW      1.95 225 eP     53 46.84  -1.6
SUA      1.95 271 eP     53 46.91  -1.7
SLKM     1.99 242 eP     53 47.76  -1.4
TGL      2.01 110 eP     53 47.10  -2.5
HUR      2.03 318 eP     53 47.55  -2.2
WAX      2.14 118 eP     53 49.42  -2.0
BALM     2.15 100 iPc    53 48.34  -3.2
RND      2.17 333 eP     53 49.86  -1.9
NKA      2.34 253 eP     53 53.74  -0.3
SKT      2.36 284 eP     53 52.26  -2.2
TMW      2.51  41 eP     53 52.06  -4.6
CGLM     2.57 268 eP     53 55.63  -1.9
TRF      2.58 321 ePc    53 56.08  -1.7
SPU      2.61 265 eP     53 55.83  -2.2
NCG      2.63 270 eP     53 55.96  -2.5
CTGM     2.64  99 eP     53 57.12  -1.5
CKL      2.74 266 eP     53 57.61  -2.4
BGL      2.76 268 eP     53 58.42  -1.8
KTH      2.85 318 eP     53 59.53  -2.0
CNPM     2.99 231 eP     54 00.54  -2.9
DFR      3.06 255 eP     54 01.84  -2.6
RDN      3.12 254 eP     54 02.21  -3.1
NCT      3.18 256 eP     54 03.36  -2.8
        48 obs. associated
-----------------------------------------
?  JUL  13, 1991  04h 07m 45.73± 3.57s
   42.363 N ±21.4km  125.500 W ±32.0km
   DEPTH =  10.0km  (geophysicist)
   3.9mb (  2 obs.)
 OFF COAST OF OREGON                  ( 30)

BMW      4.42  21 (P)    08 55.00   0.6
LON      5.12  30 (P)    09 03.50  -0.8
PNT      8.07  29 P      09 50.00   4.2X
LRM     10.00  65 eP     10 13.30   0.5
MSU     10.86 106 eP     10 24.40  -0.1
FFC     19.77  43 eP     12 18.00  -0.6
        1.1s     10.00nm          4.0mb
YKA     21.17  14 eP     12 33.40   0.3
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      1.2s      5 20nm          3.8mb
    S.D. = 0.8  on   6 of   7 obs.
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%  JUL  13, 1991  04h 21m 49.04± 0.89s
   47.777 N ±27.2km    5.435 E ±13.3km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                            (538)
      ML 2.4 (LDG).

HAU      0.66  69 Pg     22 02.00  -0.1
                  Sg     22 10.40
BSF      0.92  86 Pg     22 06.20  -0.4
                  Sg     22 17.80
LOR      1.18 245 Pn     22 10.60  -0.5
                  Pg     22 12.00
                  Sg     22 26.80
LBF      1.27 232 Pn     22 12.00  -0.6
                  Pg     22 13.20
                  Sg     22 29.50
CDF      1.39  62 Pg     22 15.00   0.5
                  Sg     22 33.50
SSF      1.49 242 Pn     22 15.00  -0.9
                  Pg     22 17.60
                  Sg     22 35.70
SMF      1.57 224 Pg     22 17.50   0.5
                  Sg     22 38.00
AVF      1.73 236 Pg     22 20.90   1.6
                  Sg     22 43.00
BGF      2.15 236 Pg     22 28.60   3.2X
                  Sg     22 55.20
    S.D. = 1.0  on   8 of   9 obs.
-----------------------------------
   JUL  13, 1991  04h 33m 46.33± 0.45s
   45.445 N ± 4.7km    21.014 E ± 4.5km
   DEPTH =  10.0km  (geophysicist)
 ROMANIA                           (358)

TIM      0.33  26 iPc    33 53.00  -0.1
BEO      0.74 213 iPgc   34 02.30   1.5
                  iSg    34 13.50
SSR      0.78 138 eP     34 01.00  -0.5
DEV      1.40  71 iPd    34 11.50  -0.3
UZD      2.05 305 ePn    34 22.00   0.8
TNR      2.30  84 ePc    34 26.00   1.1
PSZ      2.59 343 iPn    34 28.40  -0.7
CMP      2.84  92 ePd    34 37.00   4.4X
MTUR     2.86  93 ePd    34 40.50   7.5X
MLR      3.47  87 ePc    34 42.50   0.9
SKO      3.49 175 ePn    34 50.00   8.3X
PTJ      3.57 279 iPnc   34 42.50  -0.5
                  eSn    35 27.40
SPC      3.78 352 e(Pn)  34 46.50   0.4
                  i      35 02.60
ZST      3.84 317 iPnd   34 46.10  -0.7
                  i      34 53.50
                  i      34 57.60
                  i(Sg)  35 32.00
VRI      4.03  82 eP     34 49.00  -0.4
VBY      4.05 273 e(Pn)  35 06.00  16.3X
                  e      35 10.60
                  e(Sn)  36 09.50
VAY      4.28 164 ePn    34 51.30  -1.6
VKA      4.28 313 eP     34 53.00   0.0
                  i      35 03.20
                  i      35 38.50
KRA      4.67 351 eP     34 58.50   0.0
                  e      35 24.50
    S.D. = 0.9  on  15 of  19 obs.
-----------------------------------
*  JUL  13, 1991  05h 10m 34.50± 0.77s
   45.496 N ± 8.6km    21.081 E ± 7.5km
   DEPTH =  10.0km  (geophysicist)
 ROMANIA                           (358)

TIM      0.26  22 iPc    10 46.00   6.0X
BEO      0.81 214 iPg    10 49.50  -0.6
                  iSg    11 01.50
DEV      1.33  72 ePd    10 59.50   0.4
UZD      2.06 303 e(Pn)  11 12.00   2.5
PSZ      2.56 342 iPn    11 16.00  -0.7
CMP      2.80  93 ePd    11 37.00  16.8X
MLR      3.42  88 ePd    11 37.50   8.5X
SKO      3.53 176 ePn    11 39.00   8.5X
PTJ      3.61 278 iPnc   11 30.50  -1.2
                  eSn    12 15.00
SPC      3.74 352 eP     11 37.80   4.2X
                  i      11 47.20
ZST      3.84 316 i(Pn)  11 34.50  -0.4
                  i      11 42.00
                  i      11 44.00
VRI      3.97  83 eP     11 36.00  -0.8
VBY      4.10 272 eP     11 53.00  14.5X
                  e(Sn)  12 46.00
VAY      4.31 165 ePn    11 42.50   0.9
    S.D. = 1.4  on   8 of  14 obs.
-----------------------------------
?  JUL  13, 1991  05h 18m 59.82± 4.03s
   42.992 N ±28.6km  124.759 W ±19.1km
   DEPTH =  10.0km  (geophysicist)
   2.9mb (  1 obs.)
 NEAR COAST OF OREGON              ( 31)

FL2      3.64  27 P      19 58.21   0.8
JLK      3.66  30 P      19 57.40  -0.4
CDFW     3.68  31 P      19 57.73  -0.2
GULW     3.70  37 P      19 59.15   0.7
STD      3.72  28 P      19 58.52  -0.1
VTHM     3.73  53 P      19 59.25   0.5
CZM      3.80  24 P      19 59.88   0.2
VGB      3.81  47 P      19 59.75  -0.2
TDL      3.82  28 P      19 59.98   0.0
ASR      3.88  35 P      20 00.63  -0.3
LMW      4.07  25 P      20 03.93   0.4
GL2      4.09  42 P      20 04.62   0.8
GLK      4.22  31 P      20 05.48  -0.2
LON      4.30  28 P      20 06.43  -0.4
JBO      4.31  53 P      20 06.48  -0.5
WPW      4.35  31 P      20 07.17  -0.4
GHW      4.42  23 P      20 08.56   0.2
FMW      4.51  28 P      20 09.72  -0.1
GSM      4.70  25 P      20 12.48  -0.1
GMW      4.76  16 P      20 15.06   1.7
EBG      4.92  36 P      20 15.57   0.0
RMW      4.93  24 P      20 15.68  -0.1
JCW      5.57  20 P      20 23.80  -0.9
RPW      5.91  21 P      20 28.43  -1.1
YKA     20.43  14 eP     23 39.50  -0.1
      0.9s      0.50nm          2.9mb
    S.D. = 0.6  on  25 of  25 obs.
-----------------------------------
&  JUL  13, 1991  05h 58m 24.12s
   58.755 N          154.720 W
   DEPTH = 114.4km
 ALASKA PENINSULA                  ( 12)
      <AEIC>.

MCNL     0.48  25 iP     58 40.83  -0.7
                  eS     58 53.70
CDD      0.59  72 iP     58 41.35  -1.0
                  eS     58 54.51
BGM      0.69 338 eP     58 42.28  -0.9
AUI      0.89  48 eP     58 43.88  -1.0
                  eS     58 58.87
AUH      0.90  47 eP     58 44.25  -0.8
AUE      0.92  48 eP     58 44.56  -0.6
PDB      1.07  14 iP     58 45.49  -1.2
SYI      1.23  96 eP     58 47.24  -1.1
IVS      1.51  33 eP     58 50.69  -1.3
HOM      1.82  59 eP     58 54.23  -1.3
RED      1.94  30 iP     58 55.68  -1.4
                  eS     59 20.25
CNPM     1.96  65 eP     58 55.83  -1.4
RDW      1.99  28 iP     58 56.39  -1.4
REF      2.02  30 iP     58 56.74  -1.5
RDN      2.03  29 iP     58 56.83  -1.4
NCT      2.03  26 iP     58 56.75  -1.5
DFR      2.11  28 eP     58 57.67  -1.7
RDT      2.17  32 iP     58 58.41  -1.6
                  S      59 24.72
NNL      2.18  52 eP     58 59.09  -1.0
SVW      2.40 350 eP     59 01.79  -1.3
CKL      2.73  25 eP     59 05.73  -1.7
BGL      2.78  24 eP     59 06.70  -1.3
SPU      2.78  28 eP     59 07.09  -0.9
SLKM     2.88  51 eP     59 06.84  -2.6
NCG      2.95  25 eP     59 08.84  -1.6
SEW      3.01  61 eP     59 08.71  -2.4
SUA      3.37  35 eP     59 13.76  -2.3
PMS      3.60  44 eP     59 15.67  -3.4
SKT      3.60  25 eP     59 16.61  -2.5
LTI      3.74  67 eP     59 18.03  -2.9
KNIM     3.90  63 iP     59 19.41  -3.7
PLRM     3.99  42 eP     59 20.40  -3.8
KNK      4.12  47 eP     59 22.33  -3.7
GHO      4.18  41 eP     59 23.15  -3.9
CUT      4.27  29 eP     59 25.02  -3.1
GLI      4.40  58 eP     59 25.37  -4.5
      36 obs. associated
-----------------------------------
   JUL  13, 1991  06h 09m 52.24± 0.54s
   41.808 N ± 2.5km  125.873 W ± 6.2km
   DEPTH =  10.0km  (geophysicist)
   4.5mb ( 13 obs.)  4.2Msz (  1 obs.)
 OFF COAST OF NORTHERN CALIFORNIA( 34)
      ML 4.8 (BRK). Felt at Eureka.

FHC      1.74 125 iPc    10 23.15   0.4
                  eS     10 45.91
FOX      1.92 132 iPc    10 25.63   0.4
DBO      2.35  55 P      10 31.18  -0.3
HSO      2.68  49 Pd     10 35.71  -0.5
WDC      2.80 115 iP     10 38.74   0.9
LTCM     3.26 118 eP     10 44.80   0.4
HBO      3.31  51 P      10 45.42   0.1
MIN      3.54 113 iPc    10 49.01   0.5
ORV      4.01 123 iPc    10 54.71  -0.4
NWRM     4.05 145 eP     10 54.00  -1.6
KMOR     4.20  23 P      10 57.41  -0.3
                  S      11 44.37
GT2      4.25  37 P      10 58.43  -0.1
                  S      11 47.87
PGO      4.42  33 P      11 01.53   0.7
                  S      11 51.71
TDH      4.57  39 P      11 03.42   0.2
NLO      4.62  21 P      11 04.15   0.4
VLMM     4.65  35 P      11 04.38   0.1
                  S      11 57.22
VIPM     4.70  53 P      11 04.51  -0.5
VFP      4.75  41 P      11 06.70   0.9
VLL      4.75  38 P      11 06.27   0.5
                  S      12 00.90
CROR     4.77  47 P      11 05.10  -0.8
BKS      4.82 143 ePc    11 05.10  -1.5
                  i(S)   12 00.70
RVW      4.89  26 P      11 08.35   0.8
LVP      4.94  29 P      11 07.97  -0.3
MTMW     4.98  31 P      11 08.17  -0.6
                  S      12 03.57
BMW      5.04  21 eP     11 08.50  -1.2
FL2      5.07  29 P      11 10.11   0.0
                  S      12 06.18
PCC      5.08 147 iPd    11 08.29  -1.9
JLK      5.10  30 P      11 09.87  -0.7
CDFW     5.12  31 P      11 10.39  -0.3
VTHM     5.13  47 P      11 11.34   0.4
GULW     5.15  35 P      11 11.11  -0.1
SOSW     5.18  30 P      11 11.56  -0.2
                  S      12 08.74
CZM      5.22  27 P      11 12.41   0.2
                  S      12 09.41
VGB      5.23  43 P      11 12.49   0.1
                  S      12 14.77
KOSW     5.35  28 P      11 14.01  -0.1
ARN      5.57 142 eP     11 15.80  -1.5
GCC      5.64 147 ePc    11 15.77  -2.3
CMB      5.66 130 ePc    11 18.81   0.4
LON      5.74  29 eP     11 18.90  -0.6
OOW      6.05  11 P      11 22.90  -1.0
GMW      6.15  20 eP     11 24.30  -0.9
HDW      6.17  18 P      11 24.95  -0.7
                  S      12 31.97
RMW      6.35  26 eP     11 28.20   0.0
KVN      6.54 112 eP     11 31.40   0.4
JCW      6.97  22 P      11 36.03  -0.8
                  S      12 51.02
BONR     6.98 121 eP     11 36.50  -0.8
TNP      7.62 116 ePn    11 45.60  -0.6
ISA      8.43 134 eP     11 58.00   0.7
PNT      8.69  28 P      12 00.00  -0.9
      0.6s      1.40nm          4.5mb
CLC      8.80 130 eP     12 04.00   1.5
NEW      8.94  41 eP     12 05.00   0.6
SBB      9.51 136 eP     12 11.00  -1.3
GSC      9.62 130 eP     12 15.00   1.2
MWC      9.76 138 eP     12 11.00  -4.8X
DUG     10.01  95 eP     12 20.00   0.8
RVR     10.29 137 eP     12 22.00  -0.9
PEC     10.48 136 eP     12 24.20  -1.4
LRM     10.50  63 eP     12 25.20  -0.8
TPC     10.91 132 eP     12 32.00   0.5
MSU     10.99 103 eP     12 34.50   1.8
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13d 06h

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PLM     11.05 137 eP     12 34.30   0.7
DAU     11.12  92 eP     12 36.00   1.4
BW06    12.13  80 ePc    12 47.50  -0.7
                (PP)     12 54.00
GLA     12.38 131 eP     12 51.00  -0.4
SES     13.38  45 eP     13 04.00  -0.7
GOL     15.68  91 ePc    13 34.80  -0.2
        0.8s     12.95nm          4.2mb
      Z  20s      1.60um          5.3MszX
                (ScS)    26 16.00
GLD     15.78  91 ePc    13 36.50   0.3
        0.8s     35.29nm          4.6mb
RSSD    16.15  74 ePd    13 38.00  -3.0X
ANMO    16.68 108 eP     13 48.80   1.1
        0.7s      7.71nm          3.9mb
                  PP     14 11.80
ALQ     16.68 10B eP     13 49.10   1.4
        1.0s     12.00nm          4.0mb
FFC     20.37  42 eP     14 30.00  -1.4
        0.9s     27.00nm          4.6mb
YKA     21.78  14 eP     14 44.50  -1.2
        1.1s      6.90nm          4.0mb
MEO     22.48  99 iPd    14 55.50   2.5
TUL     24.08  94 eP     15 10.00   1.4
        1.6s    105.10nm          5.2mb
PMR     24.25 333 eP     15 10.00   0.0
        1.3s    110.38nm          5.3mb
      Z  18s      0.76um          4.2Msz
FBA     26.29 339 eP     15 32.00   2.7
SVW     26.39 327 e(P)   15 32.50   2.2
        0.8s      6.90nm          4.4mb
FVM     27.34  86 eP     15 39.70   0.5
        0.8s     13.64nm          4.7mb
OLY     27.47  92 eP     15 40.90   0.6
PWLA    30.23  90 eP     16 05.80   0.7
MBC     34.65   3 eP     16 44.00   0.8
        1.3s      9.00nm          4.5mb
NAV     34.74  82 eP     16 45.00   0.5
BLA     35.05  82 eP     16 46.50  -0.7
        0.7s     15.00nm          5.0mb
JSC     35.61  87 ePc    16 51.60  -0.3
TBR     38.22  73 eP     17 17.30   3.5X
PNJ     38.35  74 eP     17 15.10   0.3
      S.D. = 1.0  on  83 of  86 obs.
-----------------------------------------
%  JUL  13, 1991  06h 20m 29.84± 2.56s
   45.099 N ±17.6km    2.865 E ±19.7km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                              (538)
      ML 2.0 (LDG).

CAF      0.59 253 Pg     20 40.80  -1.1
                  Sg     20 51.50
RJF      0.98 283 Pg     20 49.00   0.6
                  Sg     21 02.30
LPO      1.26 251 Pg     20 53.80   0.5
                  Sg     21 10.80
TCF      1.27 339 Pg     20 53.20  -0.3
                  Sg     21 09.40
BGF      1.46 360 Pg     20 55.60  -0.6
                  Sg     21 14.00
AVF      1.73  11 Pg     21 00.60   0.6
                  Sg     21 22.00
      S.D. = 0.9  on   6 of   6 obs.
-----------------------------------------
?  JUL  13, 1991  06h 59m 26.06± 3.66s
   42.044 N ±27.2km  125.769 W ±17.8km
   DEPTH =  10.0km  (geophysicist)
   3.5mb (  1 obs.)
 OFF COAST OF OREGON                 ( 30)

VLMM     4.41  36 P      00 35.06   0.4
                  S      01 24.36
VIPM     4.49  55 P      00 35.25  -0.7
RVW      4.65  27 P      00 38.61   0.7
LVP      4.70  30 P      00 38.81   0.1
MTMW     4.73  32 P      00 38.94  -0.3
BMW      4.79  22 P      00 38.66  -1.4
                  S      01 31.45
CDFW     4.87  32 P      00 40.89  -0.3
ESD      4.90  31 P      00 42.00   0.3
STD      4.91  30 P      00 41.81   0.1
GULW     4.91  36 P      00 41.88   0.2
SOSW     4.94  31 P      00 42.08  -0.1
TDL      5.01  29 P      00 43.49   0.4
VGB      5.01  44 P      00 43.01  -0.1
ASR      5.09  35 P      00 44.21   0.0
LMW      5.25  27 P      00 47.22   0.7
CPW      5.28  20 P      00 46.84   0.0
GL2      5.30  41 P      00 48.21   1.0
GLK      5.42  32 P      00 48.35  -0.5
LON      5.49  30 P      00 49.32  -0.6
WPW      5.55  32 P      00 50.37  -0.4
FMW      5.70  30 P      00 52.63  -0.3
GSM      5.89  27 P      00 55.47   0.0
JCW      6.72  23 P      01 07.59   0.4
RPW      7.07  24 P      01 11.89  -0.2
YKA     21.53  14 eP     04 17.20   0.2
        1.1s     2.30nm          3.5mb
      S.D. = 0.5  on  25 of  25 obs.
-----------------------------------------
&  JUL  13, 1991  07h 19m 01.10s
   39.527 N          123.042 W
   DEPTH =   3.0km
 NEAR COAST OF NORTHERN CALIF.     ( 35)
      <BRK>. ML 3.0 (BRK).

LTCM     0.98  46 eP     19 20.20  -0.2
NWRM     1.08 174 eP     19 21.00  -1.0
WDC      1.12  20 iPd    19 22.00  -0.7
                  iS     19 37.80
ORV      1.19  88 ePc    19 21.98  -2.0
FOX      1.23 324 iPd    19 24.26  -0.4
MIN      1.37  53 ePd    19 25.20  -2.0
FHC      1.46 331 ePd    19 30.73   2.3
BKS      1.76 159 e(P)   19 37.70   4.9
ARN      2.48 151 eP     19 41.30  -1.8
CMB      2.56 125 eP     19 43.30  -0.9
FRI      3.65 133 eP     20 00.80   1.2
        11 obs. associated
-----------------------------------------
?  JUL  13, 1991  08h 31m 12.84± 1.55s
    5.667 S ±10.2km  141.268 E ±26.3km
   DEPTH =  33.0km  (normol)
   4.0mb (  3 obs.)
 PAPUA NEW GUINEA                    (202)

JAY      3.18 350 iPc    32 01.60  -0.2
MTN     12.28 234 eP     34 08.00  -0.4
        0.3s    48.00nm          6.1mb X
                  eS     36 21.00
OIS     14.89 186 eP     34 42.80   0.0
                  eS     37 22.00
WR2     15.70 205 eP     34 51.70  -1.7
        0.5s     4.00nm          3.9mb
                  i      35 01.00
                  eS     37 46.30
KNA     15.84 230 eP     34 56.00   0.9
        0.4s     8.00nm          4.2mb
ASPA    19.25 201 eP     35 38.90   1.3
        0.9s     8.10nm          4.0mb
                  eS     39 07.20
WARB    24.73 213 eP     36 35.50   2.8X
      S.D. = 1.4  on   6 of   7 obs.
-----------------------------------------
%  JUL  13, 1991  08h 44m 28.40± 3.40s
   40.675 N ±10.2km   30.521 E ±24.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 3.2 (ISK).

EYL      0.30 249 iPg    44 35.30   0.6
GPA      0.42 203 iPg    44 36.60  -0.3
                  iSg    44 42.60
HRT      0.66 283 iPg    44 41.30  -0.4
GBZT     0.83 278 ePg    44 44.40   0.0
                  iSg    44 55.60
IZI      0.87 247 iPg    44 45.30   0.2
YLV      0.88 263 iPg    44 45.30  -0.1
ISK      1.18 290 iPn    44 50.50   0.2
CTT      1.65 287 ePn    44 58.30   0.7
DST      1.80 234 ePn    45 01.00   1.2
      S.D. = 0.6  on   9 of   9 obs.
-----------------------------------------
?  JUL  13, 1991  09h 09m 53.95± 0.99s
   39.124 N ± 8.6km   27.677 E ± 9.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 2.5 (ISK).

IZM      0.79 204 ePg    10 09.50   0.1
                  eSg    10 22.00
DST      0.88  57 ePn    10 10.70  -0.2
EZN      1.26 304 ePn    10 17.00  -0.3
KGT      1.36 348 iPn    10 19.30   0.4
      S.D. = 0.6  on   4 of   4 obs.
-----------------------------------------
%  JUL  13, 1991  09h 10m 49.89± 0.88s
   39.126 N ± 6.9km   27.612 E ± 8.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 2.7 (ISK).

IZM      0.78 201 ePg    11 05.00  -0.1
                  eSg    11 16.50
DST      0.92  58 ePn    11 07.70   0.2
EZN      1.22 305 ePn    11 12.60   0.1
EDC      1.23   9 ePn    11 12.50  -0.3
KGT      1.35 350 iPn    11 14.80   0.2
      S.D. = 0.3  on   5 of   5 obs.
-----------------------------------------
?  JUL  13, 1991  09h 20m 48.45±10.85s
   39.521 N ±88.4km   28.934 E ±35.1km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 2.7 (ISK).

DST      0.25 290 iPg    20 53.20  -0.6
IZI      0.91  27 iPg    21 06.30   0.3
YLV      1.10  18 iPn    21 08.30  -0.8
KGT      1.56 307 ePn    21 16.80   0.6
CTT      1.67 347 ePn    21 18.30   0.5
      S.D. = 0.9  on   5 of   5 obs.
-----------------------------------------
   JUL  13, 1991  10h 13m 48.05± 0.79s
   41.829 N ± 3.3km  125.960 W ± 8.0km
   DEPTH =  10.0km  (geophysicist)
   3.7mb (  3 obs.)
 OFF COAST OF NORTHERN CALIFORNIA( 34)

FHC      1.81 124 iPc    14 18.92  -0.6
                  e      14 19.00
FOX      1.98 131 iPc    14 21.41  -0.5
                  iS     14 45.05
WDC      2.87 115 iPc    14 35.01   0.4
HBO      3.35  52 P      14 41.81   0.1
                  S      15 22.68
MIN      3.61 113 iPc    14 45.08  -0.3
                  e      14 45.60
TCO      3.93  53 P      14 50.15   0.3
ORV      4.08 122 eP     14 51.00  -0.8
                  iS     15 39.26
KMOR     4.21  24 P      14 53.36  -0.3
                  S      15 40.48
GT2      4.27  38 P      14 54.57  -0.1
                  S      15 43.98
PGO      4.44  34 P      14 57.43   0.5
                  S      15 47.30
VBEM     4.54  43 P      14 59.64   1.2
TDH      4.60  40 P      14 59.56   0.2
                  S      15 51.50
NLO      4.63  22 P      14 59.89   0.2
VLMM     4.67  36 P      15 00.62   0.2
                  S      15 52.74
VIPM     4.74  54 P      15 00.93  -0.5
                  S      15 57.34
CROR     4.80  47 P      15 02.49   0.3
                  S      15 58.74
LVP      4.95  30 P      15 04.04  -0.3
MTMW     4.99  32 P      15 04.38  -0.5
                  S      15 58.95
BMW      5.04  22 P      15 04.99  -0.5
FL2      5.08  30 P      15 06.08  -0.1
                  S      16 02.87
JLK      5.12  31 P      15 06.29  -0.3
SHW      5.12  30 P      15 06.74   0.0
HSR      5.13  31 P      15 06.63  -0.2
CDFW     5.13  32 P      15 06.53  -0.3
                  S      16 02.97
VTHM     5.16  48 P      15 07.18  -0.1
STD      5.17  30 P      15 07.25  -0.1
ERK      5.18  29 P      15 07.25  -0.3
SOSW     5.20  31 P      15 07.56  -0.2
TDL      5.26  30 P      15 08.82   0.1
                  S      16 06.79
VGB      5.26  44 P      15 08.80   0.1
ASR      5.35  35 P      15 09.69  -0.2
KOSW     5.37  29 P      15 10.44   0.3
LMW      5.51  27 P      15 12.67   0.5
GL2      5.55  40 P      15 12.60  -0.2
GLK      5.67  32 P      15 14.40  -0.1
```

```
JBO      5.74  49 P      15 15.25  -0.1
LON      5.75  30 P      15 15.29  -0.2
WPW      5.81  32 P      15 16.12  -0.2
GHW      5.84  26 P      15 17.19   0.5
FMW      5.95  30 P      15 18.55   0.0
                  S      16 24.20
GMW      6.15  20 P      15 20.28  -0.8
HDW      6.18  19 P      15 20.86  -0.6
PRW      6.30  44 P      15 23.33   0.1
SPW      6.31  24 P      15 24.45   1.2
RMW      6.36  26 P      15 24.79   0.6
TBM      6.57  34 P      15 27.39   0.2
HTW      6.67  25 P      15 28.42  -0.1
JCW      6.97  23 P      15 32.00  -0.7
                  S      16 47.28
ETW      7.03  33 P      15 33.03  -0.6
PNT      8.71  29 P      15 56.00  -0.9
ALQ     16.75 108 eP     17 45.80   1.4
        1.0s      2.50nm          3.3mb
FFC     20.39  43 eP     18 27.00  -0.5
        0.8s      9.00nm          4.2mb
YKA     21.77  14 eP     18 42.40   0.9
        0.9s      3.30nm          3.8mb
MEO     22.54  99 e(P)   18 50.00   0.5
MBC     34.63   3 eP     20 39.50   0.6
      S.D. = 0.5  on  55 of  55 obs.
-----------------------------------------
*  JUL  13, 1991  10h 22m 19.50± 0.91s
   37.156 N ± 7.4km   30.663 E ± 9.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)

BCK      0.31 349 iPg    22 26.40   0.4
                  eSg    22 33.00
ELL      0.73 236 iPn    22 34.00   0.1
KHL      1.47 323 ePn    22 45.50  -0.7
YER      1.90 270 ePn    22 52.50   0.2
CSS      3.08 135 eP     23 09.00   0.0
      S.D. = 0.6  on   5 of   5 obs.
-----------------------------------------
?  JUL  13, 1991  10h 29m 10.39± 9.87s
   37.090 N ±21.2km   30.975 E ±77.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 3.6 (ISK).

BCK      0.48 320 ePg    29 19.90  -0.3
                  eSg    29 26.00
ELL      0.92 249 iPn    29 27.30  -0.8
KHL      1.69 317 ePn    29 40.00  -0.1
YER      2.15 272 ePn    29 48.00   1.1
      S.D. = 1.4  on   4 of   4 obs.
-----------------------------------------
*  JUL  13, 1991  10h 54m 13.02± 0.99s
   22.729 S ± 9.8km   66.643 W ± 9.6km
   DEPTH = 207.2 ± 11.4 km
   4.2mb (  3 obs.)
 JUJUY PROVINCE, ARGENTINA           (128)

CCH      5.34   5 P      55 32.70  -0.2
CNCB     6.02 348 P      55 43.00   1.1
LPB      6.31 347 P      55 46.90   1.3
        1.0s     50.00nm          4.7mb X
ZOBO     6.58 347 Pc     55 49.00  -0.1
                  S      57 04.00
ARE      7.73 323 eP     56 01.50  -2.5
                  iS     57 25.00
PEL     10.97 198 eP     56 45.70   0.1
PPD     14.20  90 eP     57 27.30   0.9
                  e      57 30.30
VAO     18.14  95 eP     58 12.10  -0.3
BAO     18.97  71 ePd    58 21.00  -0.1
SOB1    28.10  66 (P)    59 46.00  -1.8
ALQ     68.68 326 eP     04 56.00  -0.2
        0.9s      4.41nm          4.2mb
ANMO    68.68 326 P      04 56.80   0.6
        1.0s      6.00nm          4.3mb
GOL     71.86 329 P      05 15.80   0.4
TNP     76.89 321 P      05 44.80   0.8
        1.0s      5.00nm          4.2mb
      S.D. = 1.2  on  14 of  14 obs.
-----------------------------------------
?  JUL  13, 1991  11h 06m 59.80± 2.11s
   7.591 S ±23.5km   28.096 E ±35.5km
   DEPTH =  10.0km  (geophysicist)
 ZAIRE REPUBLIC                      (567)
      mbLg 4.2 (BUL).

PTZ      7.34 155 iPn    08 50.00   0.2
                  iSn    10 14.60
                  iSg    10 56.50
LSZ      7.64 179 iPn    08 56.00   2.0
                  iSn    10 22.40
                  iSg    11 04.00
KRI      9.30 171 iPn    09 17.50   0.4
                  iSn    11 00.00
                  iSg    11 55.40
MTD      9.75 160 iPnc   09 23.50   0.3
                  iSn    11 12.00
                  iSg    12 10.50
BUL     12.49 178 iPn    09 59.60  -1.0
                  iSn    12 14.40
                  iLg    13 39.20
SLR     18.04 179 iPc    11 13.50   1.0
SEK     20.63 181 e(P)   11 40.50  -1.8
FRS     22.20 186 iPc    11 56.20  -1.7
KIC     35.57 292 P      14 00.00   0.4
LIC     35.78 292 P      14 01.30  -0.1
TIC     35.93 292 P      14 03.00   0.3
      S.D. = 1.3  on  11 of  11 obs.
-----------------------------------------
   JUL  13, 1991  11h 07m 45.83± 1.45s
    8.060 S ± 6.3km  124.783 E ± 9.1km
   DEPTH =  48.9 ± 15.0 km
   4.8mb ( 11 obs.)
 TIMOR                               (289)

KUPT     2.38 209 ePd    08 02.50 -20.7X
MKS      5.99 298 eP     09 16.00   1.9
MTN      7.85 128 eP     09 40.00  -0.1
        0.3s    110.00nm         6.2mb X
                  eS     11 05.00
KNA      8.58 153 eP     09 48.00  -2.2
                  eS     11 33.00
WR2     15.03 143 eP     11 12.40  -4.4X
        0.9s     68.30nm         4.9mb
                  eS     13 54.30
ASPA    17.81 152 eP     11 50.70  -1.2
        0.9s     74.40nm         4.8mb
      Z  18s      0.40um         3.8MszX
QIS     18.97 132 iPc    12 07.00   0.9
                  eS     15 28.00
MRWA    22.61 200 eP     12 44.00   0.4
FORR    22.88 173 eP     12 46.40   0.2
COOL    22.96 188 iPd    12 46.60  -0.4
        0.9s   1140.00nm         6.3mb X
BAL     23.67 198 iPc    12 53.60  -0.3
        0.8s     63.00nm         5.2mb
CTAO    23.98 122 iP     12 59.00   2.0
        1.3s     23.66nm         4.6mb
                  e      16 32.00
KLB     24.31 195 eP     13 00.00  -0.1
        0.4s      2.00nm         4.0mb
MUN     25.10 197 eP     13 07.00  -0.6
        1.0s     36.00nm         4.9mb
NWAO    25.71 195 iPd    13 12.90  -0.4
        0.6s      7.00nm         4.4mb
RKG     27.33 194 eP     13 28.50   0.3
STK     28.40 149 eP     13 39.20   1.4
        1.0s      3.80nm         4.0mb
BFD     33.17 154 e(P)   14 19.00  -0.9
TOO     34.86 151 eP     14 37.00   2.5
CHG     36.91 317 eP     14 51.60  -0.4
NJ2     40.28 352 eP     15 20.00   0.1
MAT     46.12  15 eP     16 06.00  -1.2
LZH     48.13 337 iPc    16 23.00  -0.2
        2.0s     42.00nm         5.1mb
                  pP     16 30.00  23kmX
GTA     52.60 336 P      16 56.40  -0.8
        1.2s     10.00nm         4.7mb
MDJ     52.61   4 Pc     16 57.00   0.0
        1.0s     30.00nm         5.3mb
WMQ     61.60 330 P      18 00.00  -0.8
YAK     69.97   2 iPc    18 53.70  -0.1
CNCB   152.25 153 PKP    27 42.00   9.6X
ZOBO   152.66 152 PKP    27 48.30  15.3X
      S.D. = 1.2  on  25 of  29 obs.
-----------------------------------------
?  JUL  13, 1991  12h 05m 46.12± 0.98s
   39.130 N ± 8.1km   27.612 E ± 9.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 2.8 (ISK).

IZM      0.78 201 ePg    06 01.50   0.1
                  eSg    06 14.00
DST      0.92  59 ePn    06 03.50  -0.2
EZN      1.21 305 ePn    06 08.30  -0.4
KGT      1.34 350 iPn    06 11.30   0.5
      S.D. = 0.7  on   4 of   4 obs.
-----------------------------------------
   JUL  13, 1991  12h 15m 13.32± 0.10s
   48.738 N ± 2.5km  154.933 E ± 2.2km
   DEPTH =  40.5km  ( 19 depth phases)
   5.7mb (112 obs.)  5.8Msz ( 35 obs.)
 KURIL ISLANDS                       (221)
      Ms 5.7 (BRK). Mo=3.0*10**18 Nm
      (PPT).
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 22S, 60C
      Centroid Location:
      Origin Time        12:15:18.3 0.2
      Lat 48.86N 0.02 Lon 155.22E 0.03
      Dep  27.1 1.6 Half-duration  4.6
      Moment Tensor;    Scale 10**18 Nm
        Mrr= 1.26 0.02  Mtt=-0.39 0.03
        Mff=-0.87 0.03  Mrt= 0.91 0.08
        Mrf= 1.29 0.10  Mtf=-0.44 0.03
       Principal Axes:
        T  Val=  2.05  Plg=64  Azm=307
        N       -0.13      2      214
        P       -1.92     26      123
      Best Double Couple:Mo=2.0*10**18
       NP1:Strike=208 Dip=19 Slip=  85
       NP2:        34     71      92

PET      4.89  27 iPc    16 26.00  -0.2
                  eS     17 23.00
YSS      8.39 263 iPd    17 18.00   2.7
                  eS     18 56.00
KUSJ     9.08 235 iP+    17 22.70  -2.1
                  eS     19 00.90
ASAJ     9.66 246 iP+    17 37.10   4.3X
HOOJ    10.34 236 eP     17 41.20  -0.8
                  eS     19 32.30
SAP     11.04 244 eP     17 53.00   1.4
                  eS     20 01.00
MRRJ    11.58 242 P      17 57.90  -0.9
                  eS     20 08.50
SMY     12.78  65 P      18 10.80  -4.0X
      Z  20s     23.60um
AOMJ    13 19 237 eP     18 17.80  -2.5
OFUJ    13.57 230 P      18 20.80  -4.5X
                  eS     20 44.00
YAMJ    15.09 231 P      18 42.00  -3.2X
NIIJ    16.33 231 P      18 58.40  -2.7
KAKJ    16.56 226 P      19 00.80  -3.2X
CHJJ    17.26 229 P      19 10.80  -2.0
MAT     17.27 231 iPc    19 10.70  -2.3
                  eS     22 33.00
MTMJ    17.45 232 P      19 13.90  -1.4
MDJ     17.84 266 Pc     19 20.00   0.1
        1.5s    460.00nm         5.4mb
      Z  25s     25.70um         4.6MszX
      N  15s     12.20um
      E  15s     18.00um
                  sP     19 35.00
IIDJ    18.25 230 P      19 23.50  -1.6
ADK     18.35  69 eP     19 24.90  -1.2
        1.2s    224.24nm         5.2mb
TSRJ    19.21 234 P      19 36.20  -0.4
YAK     19.37 323 iPc    19 36.70  -1.5
                  ePP    20 02.00
                  ePPP   20 08.00
                  eS     23 15.00
                  e      23 30.00
                  iS     31 09.00
                  iPSP   31 31.00
WKYJ    20.42 232 P      19 50.40   0.8
YONJ    20.84 237 P      19 54.30   0.5
CN2     20.90 267 Pc     19 51.60  -2.8
        1.0s    100.00nm         5.1mb
      Z  18s     24.50um         5.6Msz
      E  14s     14.60um
                  eS     23 35.00
                  ePcP   24 02.00
                  SS     24 08.00
TKSJ    21.42 234 P      20 00.80   1.1
SHK     21.76 238 iPc    20 04.50   1.4
        1.5s   1133.33nm         6.1mb
SHNJ    22.94 239 P      20 15.60   0.9
```

13d 12h

SNY		23.00	264	iPc	20	14.00 -1.3
		1.6s	300.00nm			5.5mb
	Z	18s	20.60um			5.6Msz
	N	12s	10.50um			
				pP	20	28.00 59kmX
				S	24	23.00
ILT		23.33	25	iPc	20	18.00 -0.2
KUMJ		24.27	237	P	20	29.60 1.9
KAGJ		25.27	235	P	20	39.00 1.8
DL2		25.78	260	iPc	20	42.00 0.1
		1.4s	670.00nm			6.0mb
	Z	28s	14.70um			5.4MszX
	N	14s	7.10um			
	E	16s	10.10um			
				sP	20	56.00
				S	25	00.00
TIK		25.93	341	iPc	20	41.00 -2.0
				eS	25	22.00
BJI		28.77	267	eP	21	08.00 -1.1
		1.5s	110.00nm			5.3mb
	Z	24s	13.30um			5.5MszX
	N	16s	10.50um			
				esP	21	21.00
				ePP	22	02.00
TTA		30.12	44	P	21	21.00 -0.1
		1.1s	77.50nm			5.4mb
SVW		30.21	47	iPc	21	21.80 -0.1
		0.9s	91.67nm			5.5mb
TIA		30.25	260	eP	21	22.20 -0.2
		5.0s	1400.00nm			6.0mb X
	Z	16s	9.20um			5.5MszX
	N	16s	12.30um			
	E	16s	2.30um			
				sP	21	41.00
				S	26	11.00
PDB		30.92	50	P	21	27.60 -0.5
SSE		30.98	248	iPc	21	28.00 -0.8
		1.0s	49.00nm			5.2mb
	Z	20s	13.80um			5.6Msz
	N	16s	4.50um			
	E	16s	7.70um			
				pP	21	41.50 53kmX
				S	26	32.00
				sS	26	52.00
HHC		31.42	272	eP	21	32.00 -0.7
		1.2s	190.00nm			5.8mb
	Z	22s	31.70um			5.9Msz
	N	16s	11.20um			
	E	17s	14.40um			
				PcP	24	25.50
				sS	26	58.00
IMA		31.48	38	P	21	32.50 -0.6
		1.0s	43.75nm			5.2mb
BRW		31.63	27	P	21	33.90 -0.3
NJ2		31.77	252	Pc	21	35.50 -0.3
		1.0s	100.00nm			5.6mb
	Z	20s	10.60um			5.5Msz
	N	14s	12.00um			
	E	14s	4.70um			
				pP	21	50.00 58kmX
				S	26	44.00
IRK		31.86	296	iPc	21	34.00 -2.4
				e	21	53.10 82kmX
				ePP	22	48.00
				ePcP	24	25.00
				e	26	45.00
				eS	27	10.00
				e	28	10.50
				ePcS	28	21.80
				e	28	31.00
				eSS	29	12.00
				eSSS	30	31.00
KDC		31.97	54	P	21	35.80 -1.4
		1.0s	28.00nm			5.1mb
TIY		32.47	266	Pc	21	41.80 -0.2
		1.2s	200.00nm			5.9mb
	Z	22s	11.70um			5.5Msz
	N	15s	8.27um			
				S	26	49.00
BTO		32.56	273	P	21	42.00 -0.7
	N	16s	13.30um			
	E	20s	19.00um			
PMR		33.33	46	ePc	21	47.20 -1.8
		1.0s	87.00nm			5.6mb
FBA		33.84	40	iPc	21	52.80 -0.7
		0.8s	241.38nm			6.2mb
				S	27	10.00

KLU		34.87	46	P	22	02.10 -0.3
ANP		35.13	240	eP	22	06.00 1.0
WHN		35.63	254	iPc	22	10.00 0.9
		1.0s	200.00nm			6.0mb
	Z	24s	6.10um			5.3MszX
	N	21s	20.40um			
	E	20s	12.40um			
				S	27	42.00
GUMO		36.02	197	eP	22	10.10 -2.4
GUA		36.06	197	eP	22	10.50 -2.4
		0.8s	59.70nm			5.6mb
BALM		36.64	46	eP	22	17.60 0.1
				S	27	59.00
XAN		36.93	264	P	22	19.20 -0.9
		1.1s	100.00nm			5.6mb
	N	16s	10.00um			
	E	16s	7.20um			
				PP	23	50.00
				S	28	00.00
				SS	30	38.00
OZH		37.02	243	Pc	22	22.00 1.2
	Z	28s	10.30um			5.5MszX
				S	28	06.00
LZH		39.07	271	iPc	22	38.50 0.3
		2.0s	250.00nm			5.7mb
	Z	24s	16.60um			5.8MszX
	N	15s	8.17um			
				pP	22	52.00 51kmX
				PP	24	11.00
				PcS	28	38.50
				sS	28	48.00
INK		39.32	34	ePc	22	40.50 0.9
		0.6s	42.00nm			5.4mb
GTA		39.90	278	Pc	22	45.20 0.3
		1.2s	60.00nm			5.3mb
	E	16s	20.80um			
				pP	22	52.40 24kmX
				PP	24	20.00
				sS	29	06.00
				ScS	32	47.00
SIT		41.15	51	P	22	56.70 1.9
		1.1s	66.25nm			5.3mb
	Z	20s	8.00um			5.6Msz
CD2		42.28	264	P	23	04.80 0.3
		1.0s	100.00nm			5.5mb
	Z	20s	11.50um			5.8Msz
	E	14s	7.30um			
MBC		42.31	21	ePc	23	04.40 0.3
		1.0s	37.00nm			5.1mb
BAG		42.69	233	eP	23	07.60 -0.5
				eS	29	22.00
GYA		43.35	257	iPc	23	12.60 -0.7
		1.2s	280.00nm			5.9mb
	Z	26s	3.90um			5.2MszX
	N	20s	15.70um			
	E	20s	10.10um			
				pP	23	28.00 60kmX
				PP	25	00.00
				S	29	36.00
				sS	29	54.00
WMQ		45.37	290	P	23	29.00 -0.3
		1.2s	60.00nm			5.4mb
	Z	20s	19.30um			6.0Msz
	N	17s	16.00um			
				pP	23	44.00 58kmX
				PcP	25	08.00
				PP	25	17.00
				PcS	29	03.00
				eS	30	02.00
KMI		46.82	259	Pc	23	41.00 -0.1
		2.0s	800.00nm			6.3mb
	Z	20s	6.10um			5.6Msz
				pP	23	49.40 28kmX
				sP	23	57.00
DAV		48.36	221	eP	23	53.00 0.1
YKA		48.60	38	eP	23	54.40 0.1
		0.9s	56.90nm			5.6mb
KBS		50.73	351	eP	24	10.00 -0.4
PGC		51.32	57	eP	24	15.00 -0.2
LSA		51.40	273	P	24	16.00 -0.7
	N	13s	1.20um			
				S	31	25.00
MCW		51.65	57	P	24	17.80 0.0
GMW		52.30	58	P	24	22.50 -0.3
JAY		52.52	198	ePd	24	25.50 0.8
BMW		52.65	59	P	24	24.30 -1.2
RAB		52.76	183	iP+	24	26.00 -0.4

				iS	31	54.00
LOE		53.03	253	eP	24	28.00 -0.4
PNT		53.05	55	ePc	24	28.00 -0.3
		0.9s	68.00nm			5.6mb
LON		53.30	58	P	24	29.90 -0.3
SHW		53.38	59	P	24	31.30 0.4
SHL		53.65	268	iP	24	32.00 -1.2
				eS	32	08.00
MNI		53.75	218	eP	24	34.00 0.3
CHG		53.77	257	iPc	24	34.90 1.0
				eS	32	04.00
TSM		54.37	228	ePd	24	38.50 0.2
DPW		54.65	56	P	24	39.50 -0.7
BDT		54.88	255	eP	24	43.00 1.0
		1.0s	70.40nm			5.6mb
NEW		55.01	55	iPc	24	41.60 -1.2
		1.0s	55.00nm			5.5mb
NST		55.33	253	eP	24	46.50 1.2
FHC		55.54	65	ePc	24	47.79 1.1
LAT		55.59	190	iPc	24	47.40 0.3
FOX		55.71	66	eP	24	49.51 1.7
WDC		56.55	65	ePc	24	54.30 0.4
SES		56.90	50	ePc	24	55.70 -0.6
		1.3s	152.00nm			5.9mb
				pP	25	07.00 38km
KHT		56.98	254	eP	24	54.00 -3.1X
MIN		57.25	65	ePc	24	58.66 -0.4
ORV		57.81	65	ePc	25	02.43 -0.3
SOD		57.84	339	eP	25	00.00 -2.6
NNT		57.91	251	eP	25	05.00 1.3
PMG		58.30	189	eP+	25	05.50 -0.8
BKS		58.43	67	ePc	25	06.00 -1.1
		1.3s	62.00nm			5.6mb
	Z	20s	6.00um			5.7Msz
	N	20s	2.90um			
	E	20s	4.50um			
				ePcP	26	09.90
				eS	33	10.00
				eSS	37	06.00
				eLO	39	40.00
				eLR	42	04.00
FFC		58.43	42	iPc	25	06.70 -0.2
		0.8s	53.00nm			5.7mb
LRM		59.03	55	ePc	25	11.20 -0.3
GCC		59.11	68	eP	25	11.70 -0.2
MHC		59.13	67	eP	25	11.80 -0.4
ARN		59.19	67	P	25	12.70 0.2
CMB		59.45	66	ePc	25	14.40 0.1
SAO		59.62	68	eP	25	15.00 -0.4
PRS		59.95	68	ePc	25	17.68 0.0
KVN		60.16	64	P	25	19.30 0.0
FRI		60.53	66	iPc	25	21.44 -0.2
BONR		60.75	65	P	25	22.70 -0.8
PTI		60.98	57	P	25	25.90 1.1
NDI		61.21	282	iP	25	22.00 -4.3X
				iS	33	44.00
TNP		61.32	64	iPc	25	26.70 -0.5
		0.9s	47.85nm			5.6mb
BCH		61.49	68	P	25	28.70 0.4
MKS		62.01	221	eP	25	33.00 1.3
KAF		62.15	335	eP	25	29.70 -2.5
ISA		62.16	67	eP	25	31.00 -1.7
ABL		62.24	68	P	25	33.70 0.2
DUG		62.49	60	P	25	35.30 0.3
		1.0s	50.00nm			5.6mb
CLC		62.59	66	iP+	25	35.00 -0.5
BW06		62.59	56	iPc	25	35.20 -0.5
		1.0s	85.83nm			5.8mb
				S	34	07.00
				P'P'	54	30.00
FRB		62.76	20	eP	25	35.00 -1.2
PUL		62.86	332	eP	25	35.00 -1.9
				eS	33	58.00
SBB		63.20	67	iP+	25	39.00 -0.6
DAU		63.23	59	P	25	40.50 0.4
MWC		63.37	68	eP	25	40.00 -0.9
IPM		63.37	244	ePc	25	41.90 1.1
		1.0s	40.90nm			5.5mb
GSC		63.41	66	iP+	25	40.00 -1.0
NUR		63.93	335	eP	25	43.10 -0.8
RVR		63.94	68	eP	25	43.00 -1.4
MSU		63.99	61	P	25	45.30 0.3
KGM		64.09	241	ePc	25	46.80 1.3
PEC		64.14	67	ePc	25	44.40 -1.4
OBN		64.36	326	eP+	25	45.00 -1.8
		1.5s	********nm			8.5mb X
	Z	16s	2.30um			5.5MszX

Sta	Comp	Dist/Per	Az	Phase/Amp	Time	Res/Mag
	N	12s		0.60um		
	E	20s		6.60um		
				e	25 58.50	48km
				ePcP	26 20.00	
				i	26 53.10	
				i	27 10.50	
				ePP	28 06.00	
				e	28 27.00	
				ePPP	29 42.00	
				e	29 58.00	
				e	30 14.00	
				iS	34 18.00	
				ePS	34 44.00	
				ePPS	35 00.00	
				eScS	35 35.00	
				iSS	39 00.00	
				eSSS	41 24.00	
				LR	50 40.00	
RSSD		64.61	51	iPc	25 48.70	-0.2
		1.0s		165.40nm		6.1mb
	Z	20s		4.52um		5.7Msz
				i	25 59.90	37km
				S	34 28.30	
				P'P'	54 29.50	
TPC		64.68	67	eP	25 48.00	-1.3
PLM		64.69	68	eP	25 48.00	-1.5
MTN		64.84	206	eP	25 50.00	-0.2
BAR		65.27	68	eP	25 52.00	-1.0
AKU		65.79	357	iP	25 57.20	1.4
		1.2s		75.00nm		5.6mb
GLA		66.14	67	eP	25 58.00	-0.6
UPP		66.33	338	iP	25 57.50	-1.8
				iS	34 42.00	
QUE		66.72	290	iP+	26 03.00	0.4
	Z	20s		15.99um		6.2Msz
				eS	34 50.00	
NB2		66.73	342	P	25 57.90	-4.1X
		0.8s		14.90nm		5.1mb
MAIO		66.98	299	iPc+	26 04.00	0.0
				eSn	34 56.00	
GOL		66.99	56	iPc	26 04.00	-0.3
				P'P'	54 28.70	
HFS		67.01	340	eP	26 02.10	-1.6
		0.7s		16.80nm		5.2mb
	Z	18s		10.99um		6.1Msz
				LR	51 33.00	
GLD		67.04	56	ePc	26 05.40	0.9
		1.1s		90.65nm		5.8mb
	Z	22s		3.94um		5.6Msz
				S	35 00.00	
				P'P'	54 30.00	
TRT		67.33	226	iPc	26 07.00	0.8
		1.3s		307.20nm		6.2mb
HYB		68.17	272	iPc	26 11.40	-0.3
		1.0s		220.00nm		6.2mb
				e	26 37.50	103kmX
KNA		68.29	207	eP	26 12.00	-0.1
		0.9s		27.00nm		5.3mb
CTAO		68.95	189	iPc	26 15.80	-0.4
		1.5s		96.77nm		5.6mb
				ipP	26 29.00	46km
				eS	35 18.00	
ANMO		69.76	60	iPc	26 21.50	0.1
		1.0s		26.76nm		5.2mb
				P'P'	54 21.40	
ALQ		69.76	60	iPc	26 21.90	0.5
		0.9s		36.76nm		5.4mb
	Z	22s		3.98um		5.6Msz
				e	26 32.50	34km
QIS		70.33	195	iPc	26 23.70	-0.9
				i	26 36.00	42km
POO		70.48	276	iPd	26 30.00	4.2X
		1.0s		70.00nm		5.6mb
				iS	35 40.00	
WR2		70.80	200	iPd	26 26.90	-0.6
				i	26 39.50	43km
WRA		70.80	201	P	26 26.00	-1.5
		1.4s		58.90nm		5.4mb
SCH		71.02	24	ePc	26 28.30	-0.2
		0.6s		23.00nm		5.4mb
DZM		71.23	169	iPc	26 30.90	0.7
GBA		71.67	270	Pc	26 30.50	-2.4
		1.2s		106.50nm		5.7mb
IR7		72.41	304	eP	26 38.00	0.7
IR1		72.58	304	eP	26 39.00	0.7
IR4		72.60	304	eP	26 39.00	0.6
TAB		72.93	309	eP	26 41.00	0.7

Sta	Comp	Dist/Per	Az	Phase/Amp	Time	Res/Mag
BRN		74.09	337	ePc	26 47.50	1.0
KOD		74.12	267	eP	26 48.00	0.4
KRA		74.26	332	iP	26 48.00	0.5
		1.1s		64.00nm		5.5mb
	Z	24s		13.10um		6.1MszX
	E	24s		17.00um		
				e	26 58.60	34km
				eS	36 16.00	
MEO		74.27	55	iPc	26 47.50	-0.5
ASPA		74.49	200	iPd	26 49.40	0.2
		1.3s		43.70nm		5.3mb
	Z	23s		7.30um		5.9MszX
				eS	36 03.30	
KSP		74.66	334	ePc	26 49.20	-0.7
		1.0s		62.00nm		5.5mb
				id	26 50.30	4kmX
EKA		74.68	347	Pc	26 49.70	-0.3
		0.9s		25.90nm		5.2mb
UZH		74.73	330	iP	26 49.00	-1.3
				eS	36 19.00	
TUL		74.92	53	ePd	26 50.50	-1.1
		1.0s		83.20nm		5.7mb
	Z	22s		5.72um		5.8Msz
	N	22s		3.51um		
	E	22s		3.81um		
				e	27 02.30	39km
				e	27 17.60	
				e(S)	36 31.00	
				e	40 50.00	
				e	44 48.00	
				LR	54 49.00	
SPC		74.92	331	eP	26 51.40	-0.3
RMO		75.09	186	iPc	26 54.30	1.8
		0.9s		87.00nm		5.7mb
				i	27 08.00	48km
CLL		75.15	336	iPc	26 51.80	-0.9
		1.9s		195.00nm		5.7mb
	Z	21s		9.00um		6.0Msz
				epP	27 17.00	97kmX
				eS	36 24.00	
BMR		75.15	328	ePd	27 05.00	12.3X
BRG		75.29	336	iPc	26 52.80	-0.7
		3.0s		400.00nm		5.9mb
	Z	20s		12.00um		6.2Msz
	N	20s		11.00um		
	E	20s		0.50um		
				i	27 22.20	116kmX
				eS	36 24.00	
				e	45 32.00	
				iSg	52 42.50	
WIT		75.29	341	eP	26 56.50	3.0X
VRI		75.52	325	ePd	26 53.50	-1.4
CFR		75.55	324	eP	26 55.00	0.0
OLP		75.59	190	iPc	26 55.90	0.6
		0.9s		278.00nm		6.2mb
				i	27 08.00	41km
KVT		75.59	317	eP	26 55.20	-0.3
SLM		75.62	47	P	27 06.00	10.4X
	Z	20s		5.00um		5.8Msz
WTS		76.03	340	eP	26 58.00	0.4
		1.9s		246.00nm		5.9mb
FVM		76.04	48	ePc	26 57.70	-0.3
		0.8s		50.76nm		5.5mb
MOX		76.12	337	ePc+	26 57.00	-1.2
		2.8s		700.00nm		6.1mb
	Z	20s		8.30um		6.0Msz
	N	19s		7.10um		
	E	19s		3.10um		
MLR		76.13	326	iPd	26 58.00	-0.5
PSZ		76.14	331	eP	26 57.80	-0.7
DBN		76.28	341	iP+	27 00.00	0.9
	Z	20s		4.50um		5.8Msz
				ePcP	27 24.00	
				ePP	29 52.00	
				eS	36 36.00	
				ePS	37 07.00	
				eSS	42 00.00	
DMU		76.59	349	iPc	27 01.10	0.3
		1.3s		308.00nm		6.1mb
CMP		76.65	326	iPd	27 05.00	3.7X
SRO		76.74	332	iP	27 02.70	1.0
ZST		76.78	333	iP	27 03.50	1.6
				i	27 31.60	109kmX
BNS		76.91	340	iPc	27 02.90	0.3
VKA		76.95	333	eP	27 03.00	0.1
		4.0s		1343.00nm		6.3mb X
	Z	18s		4.00um		5.8Msz

Sta	Comp	Dist/Per	Az	Phase/Amp	Time	Res/Mag
				i	27 04.10	4kmX
				i	27 28.00	
				LR	08 47.00	
KHC		76.97	335	iPc	27 03.40	0.4
		1.2s		51.00nm		5.4mb
	Z	20s		19.00um		6.4Msz
				e	27 19.40	57kmX
				S	36 48.00	
GRF		77.09	337	iPc	27 04.00	0.3
		1.5s		226.00nm		6.0mb
	Z	20s		10.00um		6.1Msz
				e	27 14.10	32km
				e	27 20.10	
				e	30 00.00	
				e	32 16.00	
				eS	36 53.00	
DLF		77.13	349	iPc	27 04.10	0.3
		1.1s		261.00nm		6.2mb
DCN		77.18	349	iPc	27 04.40	0.3
KOE		77.28	339	ePc	27 05.80	1.2
TNS		77.30	339	ePc	27 05.00	0.1
CLE		77.30	40	iP	27 05.10	0.2
ENN		77.37	340	iPc	27 05.20	0.1
		1.1s		133.00nm		5.9mb
KLL		77.40	340	iPc	27 05.50	0.2
MEM		77.50	340	iPc	27 06.00	0.2
ETA		77.68	348	eP	27 07.20	0.4
UCC		77.68	341	iPc+	27 07.40	0.6
				e-	27 32.00	94kmX
UZD		77.74	331	eP	27 07.60	0.4
KMR		77.78	334	iP+	27 08.30	0.8
ECB		78.08	349	eP	27 09.60	0.6
ECP		78.20	348	eP	27 10.30	0.6
PVL		78.29	325	iPc	27 10.00	-0.3
DOU		78.30	341	P+	27 10.10	-0.1
	Z	21s		4.20um		5.7Msz
				e-	27 36.00	99kmX
				LR	55 31.00	
WLF		78.36	340	iPd	27 11.76	1.2
BHG		78.44	335	eP	27 12.10	1.0
FUR		78.48	336	eP	27 12.30	1.0
	Z	20s		9.00um		6.1Msz
DMK		78.53	323	eP	27 10.10	-1.6
HRT		78.58	321	eP	27 11.80	-0.2
EYL		78.59	320	eP	27 12.80	0.6
BEO		78.67	329	eP	27 12.00	-0.4
WARB		78.76	206	eP	27 14.30	1.3
		0.7s		56.00nm		5.7mb
CTT		78.82	322	eP	27 12.30	-1.0
KBA		78.90	334	iPc	27 14.50	0.7
		1.3s		156.00nm		5.8mb
				i	27 40.70	101kmX
VAL		78.91	351	eP	27 14.00	0.5
COO		79.00	183	ePc	27 15.20	0.9
		1.0s		36.00nm		5.3mb
PTJ		79.18	332	eP	27 15.30	0.0
WTTA		79.21	336	iPc	27 15.70	0.2
		1.6s		363.00nm		6.1mb
				i	27 26.40	34km
DIM		79.21	324	eP	27 16.00	0.6
NANU		79.23	217	eP	27 16.40	0.8
ZAG		79.25	332	iPc	27 15.30	-0.2
CDF		79.27	339	iPc	27 16.60	0.9
		1.6s		205.20nm		5.8mb
PLD		79.49	325	eP	27 17.00	0.1
FVI		79.50	335	P	27 16.90	0.1
SLE		79.57	338	ePc	27 17.60	0.3
PWLA		79.58	48	P	27 16.90	-0.6
KDZ		79.60	324	iPc	27 19.00	1.5
VTS		79.63	326	iPc	27 18.00	0.2
EDC		79.73	322	iP	27 17.50	-0.7
OGA		79.74	336	iPc	27 19.50	1.1
RZN		79.84	324	iPc	27 17.00	-2.0
ZLA		79.86	338	ePc	27 19.60	0.7
HAU		79.87	339	iPc	27 18.80	-0.1
		1.8s		189.90nm		5.8mb
	Z	21s		13.25um		6.3Msz
KGT		79.87	322	eP	27 19.30	0.4
BSF		79.92	339	iPc	27 19.00	-0.3
		1.8s		155.35nm		5.7mb
RDO		79.98	324	eP	27 20.00	0.5
ALN		79.99	323	ePc	27 19.36	-0.2
TRI		80.02	334	P	27 19.20	-0.4
DST		80.03	321	eP	27 19.50	-0.4
OSS		80.14	336	ePc	27 21.50	1.0
VVI		80.16	334	P	27 20.30	-0.1
RIY		80.16	333	eP	27 19.60	-0.8

13d 12h

LLS		80.27	337	ePd	27	22.50	1.2
CMS		80.28	188	iPc	27	22.20	1.2
				i	27	34.30	40km
MMB		80.30	325	iPc	27	22.00	0.7
KKB		80.30	326	iPd	27	21.00	-0.3
CTI		80.32	335	P	27	21.10	-0.3
VDL		80.50	337	ePd	27	24.10	1.6
TBR		80.55	35	ePc	27	22.00	-0.6
FLN		80.58	344	iPc	27	22.60	0.0
		1.3s	151.65nm				5.8mb
LDF		80.68	344	iPc	27	23.00	-0.1
		1.6s	155.45nm				5.7mb
KHL		80.73	319	eP	27	23.00	-0.7
SRS		80.76	325	ePd	27	23.28	-0.4
PNJ		80.78	35	iP	27	23.90	0.2
GMTN		80.79	36	iP	27	23.90	0.1
EZN		80.79	322	eP	27	22.30	-1.5
SKO		80.82	327	ePc	27	23.90	-0.1
	Z	20s	6.19um				6.0Msz
	N	20s	5.60um				
	E	21s	5.67um				
				i	27	42.00	66kmX
				iS	37	27.00	
				iSS	42	25.00	
				LR	05	45.00	
GBTN		80.88	45	P	27	24.30	-0.1
VAY		80.97	326	iPc	27	25.00	0.3
		1.4s	197.00nm				5.9mb
KNT		80.98	325	iPc	27	24.92	0.1
TMA		81.01	337	ePc	27	25.70	0.5
GRR		81.01	344	iPc	27	25.20	0.3
		1.2s	205.30nm				6.0mb
NAV		81.07	42	P	27	25.40	0.0
MDI		81.10	336	P	27	25.20	-0.1
SOH		81.11	325	ePc	27	25.16	-0.4
LOR		81.13	341	iPc	27	26.50	0.9
		1.1s	95.40nm				5.7mb
	Z	20s	18.00um				6.4Msz
STK		81.14	191	eP	27	26.20	0.6
		1.2s	7.80nm				4.6mb X
				e	27	39.00	43km
MMK		81.30	337	ePc	27	27.90	1.2
PRK		81.31	322	eP	27	26.50	-0.1
BLA		81.32	42	eP	27	26.80	0.0
		0.9s	33.06nm				5.3mb
GRG		81.35	326	ePc	27	26.60	-0.2
LBF		81.37	340	iPc	27	26.80	-0.1
		1.6s	111.95nm				5.6mb
LPF		81.39	344	iPc	27	27.10	0.3
		1.5s	208.95nm				5.9mb
SSF		81.40	341	iPc	27	27.20	0.2
		1.2s	92.25nm				5.6mb
DIX		81.41	338	ePc	27	28.60	1.2
PHP		81.43	327	iPc	27	26.30	-0.8
HVAR		81.47	331	eP	27	26.10	-1.2
SDA		81.47	328	eP	27	25.10	-2.2
CVL		81.53	40	P	27	28.00	0.3
EMS		81.54	338	ePd	27	29.60	1.7
BHL		81.56	313	P	27	26.00	-2.1
				S	37	32.00	
IZM		81.62	321	eP	27	31.50	3.2X
ORX		81.68	337	P	27	28.73	0.1
AVF		81.69	341	iPc	27	28.80	0.4
		1.8s	319.35nm				6.0mb
NA2		81.70	39	P	27	28.90	0.3
SMF		81.72	340	iPc	27	28.80	0.2
LACI		81.73	328	iPc	27	28.40	-0.3
PAIG		81.75	324	ePd	27	28.12	-0.7
CSS		81.80	315	eP	27	29.50	0.3
ELL		81.88	318	eP	27	29.80	0.0
TIR		81.93	328	eP	27	29.50	-0.3
BGF		82.02	341	iPc	27	30.60	0.4
		1.8s	220.10nm				5.9mb
RSM		82.02	334	P	27	31.70	1.5
HRI		82.03	312	eP	27	32.00	1.4
LIT		82.06	325	ePc	27	29.20	-1.3
BOB		82.10	336	Pc	27	31.70	1.0
LPL		82.11	338	iPc	27	31.80	0.9
LPG		82.12	338	iPc	27	32.10	1.0
		1.2s	139.45nm				5.9mb
KZN		82.15	326	eP	27	28.50	-2.5
SFI		82.21	334	Pc	27	32.80	1.7
YER		82.26	320	eP	27	27.00	-4.6X
ARV		82.27	333	P	27	32.30	0.7
MME		82.28	335	P	27	33.60	1.7
PGD		82.29	334	P	27	31.30	-0.5
RSP		82.32	338	P	27	31.50	-0.4

PPCY		82.32	316	eP	27	31.00	-0.9
MAF		82.40	341	iPc	27	33.00	0.8
TCF		82.42	341	iPc	27	32.80	0.5
		1.6s	192.80nm				5.9mb
BDI		82.43	335	P	27	32.90	0.4
CRE		82.45	334	P	27	33.70	1.1
PCP		82.55	336	P	27	33.24	0.2
BNI		82.55	338	Pc	27	34.60	1.4
MFF		82.59	343	iPc	27	34.00	0.8
		1.5s	172.35nm				5.9mb
LSF		82.60	342	iPc	27	33.90	0.7
BHB		82.60	337	P	27	32.52	-0.8
RRL		82.65	338	P	27	34.37	0.6
CKI		82.73	337	Pc	27	34.20	0.3
ASS		82.75	333	P	27	34.80	0.7
PII		82.77	335	P	27	33.80	-0.3
FORR		82.78	203	eP	27	35.00	0.9
		0.4s	22.00nm				5.6mb
FIN		82.95	337	P	27	33.85	-1.2
ROB		82.96	337	P	27	34.78	-0.4
PZZ		82.96	337	P	27	34.16	-1.1
BWA		83.00	185	iPc	27	36.20	1.0
				e	27	48.80	42km
PRM		83.04	45	P	27	36.10	0.4
AGG		83.06	325	ePc	27	34.20	-1.5
ENR		83.14	337	P	27	34.37	-1.8
STV		83.15	337	P	27	34.78	-1.4
AQU		83.17	332	P	27	37.20	0.9
IMI		83.31	337	P	27	37.14	0.1
MNS		83.37	333	Pc	27	37.30	0.1
JSC		83.39	44	ePc	27	36.80	-0.6
				PP	30	51.60	
				P'P'	53	31.00	
KEK		83.39	327	eP	27	30.00	-7.4X
DUI		83.47	331	P	27	38.50	0.6
SBF		83.47	337	iPc	27	37.80	0.0
		1.3s	234.65nm				6.1mb
LCI		83.50	328	P	27	37.80	-0.1
RJF		83.50	341	iPc	27	38.40	0.5
		1.2s	124.95nm				5.9mb
	Z	21s	13.25um				6.3Msz
DSI		83.58	312	iPc	27	39.50	1.0
SDI		83.63	332	P	27	38.80	0.2
CAF		83.75	341	iPc	27	40.20	1.0
CAN		83.85	185	iPc	27	40.50	1.0
				e	27	52.90	41km
RMP		83.88	333	P	27	41.10	1.3
RFI		83.95	331	P	27	41.09	1.0
		1.9s	1833.50nm				6.9mb X
FRF		83.96	337	iPc	27	40.60	0.4
		1.6s	248.75nm				6.1mb
LFF		84.01	342	iPc	27	41.20	0.8
		1.4s	169.90nm				6.0mb
CDR		84.07	338	ePc	27	41.50	0.7
LRG		84.13	338	iPc	27	41.80	0.8
		1.2s	184.45nm				6.1mb
LPO		84.16	342	iPc	27	42.00	0.8
		1.4s	139.40nm				5.9mb
MRX		84.17	67	(P)	27	43.50	1.9
SGO		84.19	330	P	27	41.70	0.3
LMR		84.21	337	iPc	27	41.80	0.4
		1.2s	211.25nm				6.1mb
ORI		84.26	329	P	27	43.00	1.2
PGF		84.28	335	iPc	27	42.20	0.2
		1.6s	186.55nm				6.0mb
MGR		84.49	330	P	27	42.60	-0.3
MMN		84.57	329	P	27	44.80	1.6
CSI		84.57	329	P	27	43.40	0.1
ADE		84.58	193	iPc	27	44.00	0.8
		0.7s	61.64nm				5.9mb
SGS		84.63	44	P	27	44.60	0.9
ROI		84.66	329	P	27	44.10	0.3
TDS		84.66	329	P	27	44.47	0.7
		0.2s	7.80nm				5.5mb
VLI		84.82	323	eP	27	43.00	-1.6
COOL		84.82	209	eP	27	44.50	0.0
NPS		84.98	321	eP	27	44.50	-1.0
MRWA		85.06	213	eP	27	45.60	-0.1
CZI		85.12	329	P	27	44.30	-1.7
MBH		85.30	311	iPc	27	48.00	0.8
GRI		85.38	329	P	27	48.06	0.6
		1.2s	195.70nm				6.2mb
EPF		85.92	342	iPc	27	50.50	0.4
		1.2s	29.75nm				5.4mb
BAL		86.06	212	iPc	27	51.00	0.4
		0.6s	30.00nm				5.7mb
GMB		86.16	329	P	27	51.97	0.5

		0.4s	12.20nm				5.5mb
SOI		86.18	329	Pc	27	51.30	0.0
PPM		86.21	65	(P)	27	56.00	3.6X
III		86.23	66	(P)	27	53.00	0.8
BFD		86.24	190	iPc	27	49.50	-1.9
				i	28	02.50	43km
TOO		86.34	188	eP	27	53.00	1.1
				e	28	06.00	43km
USI		86.56	331	P	27	54.00	0.8
KLB		86.59	211	iPc	27	53.60	0.4
		0.5s	22.00nm				5.6mb
HLW		86.96	314	eP+	27	57.00	1.7
				eS	38	18.00	
CGL		87.15	334	P	27	57.84	1.6
		1.2s	20.60nm				5.2mb
ERC		87.36	331	P	27	57.60	0.4
MUN		87.48	212	iPd	27	58.00	0.5
		1.0s	40.00nm				5.6mb
LVI		87.49	331	P	27	58.40	0.7
PZI		87.51	329	P	27	58.52	0.6
		4.2s	******nm				7.7mb X
NWAO		87.99	211	iPd	28	00.80	0.9
		0.7s	42.00nm				5.8mb
	Z	20s	1.70um				5.5Msz
EBR		88.01	341	(P)	28	00.00	-0.2
ESEL		88.46	339	eP	28	02.00	-0.4
ETOR		88.53	343	eP	28	02.90	0.0
GUD		89.10	344	eP	28	05.00	-0.6
EPLA		90.00	346	eP	28	09.00	-0.7
EVIA		90.73	343	eP	28	14.00	0.8
ASW		90.97	309	iPc	28	14.00	-0.4
				eS	39	03.00	
TAU		91.51	186	eP	28	18.00	1.9
ECOG		92.25	343	eP	28	21.00	0.7
MAL		92.95	344	eP	28	22.00	-1.3
				iPP	31	46.00	
				eS	39	16.00	
EJIF		93.41	344	eP	28	26.00	0.6
TIC		122.12	336	PKP	34	05.10	-0.2
KIC		122.31	336	PKPc	34	05.40	-0.2
		1.0s	31.00nm				
LIC		122.52	336	PKP	34	05.42	-0.6
	Z	20s	3.25um				6.0Msz
PTZ		122.58	287	iPKPd	34	04.50	-1.7
NNA		123.74	68	ePKP	34	08.50	0.0
		0.9s	5.88nm				
	Z	22s	1.67um				5.7Msz
MTD		124.31	284	iPKPd	34	09.30	-0.3
LSZ		125.34	289	iPKPd	34	12.00	0.4
KRI		125.60	286	iPKPd	34	12.00	-0.1
BUL		128.68	284	iPKPd	34	17.70	-0.2
		1.0s	20.50nm				
				i	34	59.10	
ZOBO		132.32	62	iPKPc	34	26.20	0.7
		1.0s	10.50nm				
	Z	24s	1.91um				5.7MszX
				LR	19	36.00	
LPB		132.54	63	PKP	34	27.00	1.3
	Z	23s	3.03um				5.9MszX
				PKS	37	55.00	
				LR	19	44.00	
CNCB		132.83	63	iPKPc	34	28.00	1.6
SLR		132.85	279	iPKPc	34	24.50	-1.2
		1.0s	25.00nm				
	Z	20s	3.55um				6.1Msz
PRY		134.19	279	ePKP	34	28.00	-0.3
CCH		134.35	61	ePKP	34	32.00	3.0X
SEK		135.03	277	ePKP	34	25.50	-4.3X
		0.7s	6.85nm				
SOB1		138.41	24	ePKP	34	26.40	-10.0X
SPA		138.55	180	ePKP	34	26.00	-9.2X
		1.2s	13.38nm				
PEL		142.78	82	ePKP	34	39.00	-4.7X
CER		143.74	278	iPKPc	34	41.20	-4.1X
		0.7s	45.00nm				
PPD		146.14	47	ePKP	34	50.90	1.2
				e	35	05.40	
ITB1		146.72	54	PKPc	34	53.00	2.5
ITB		146.94	54	e(PKP)	34	52.00	1.2
VAO		149.00	42	ePKP	34	53.10	-1.2
				e	34	58.80	
NVL		151.96	205	ePKPc	34	57.00	-0.2
NVL		151.96	205	ePKP	35	03.50	6.3X
				e	35	14.00	
				e	35	27.00	
				e	35	38.00	
				e	35	53.00	

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                    e      36 04.00
                    e      36 19.00
                    e      36 40.00
                    e      37 29.00
                    ePP    38 09.00
                    e      38 47.00
                    e      39 00.00
                    e      39 10.00
                    ePPP   41 07.00
                    ePSP   48 35.00
                    e      58 11.00
                    e      58 35.00
                    e      59 06.00
AIA   153.61 143 ePKP   35 07.10   7.5X
     S.D. = 1.0  on 410 of 435 obs.
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   JUL  13, 1991  12h 17m 52.13± 0.23s
   44.832 N ± 2.2km     7.617 E ± 2.4km
   DEPTH =  20.3 ±  3.1 km
 NORTHERN ITALY                    (545)
     ML 3.2 (GEN), 3.2 (LDG).

BHB     0.25 272 Pd     17 59.50   1.4
                 S      18 04.74
RSP     0.41 322 Pd     18 01.39   0.7
                 S      18 08.06
DOI     0.42 219 Pd     18 01.00   0.1
                 eSg    18 06.70
PZZ     0.49 229 Pd     18 01.79  -0.3
                 S      18 08.68
ROB     0.57 161 Pd     18 03.71   0.4
                 S      18 11.39
RRL     0.60 279 Pd     18 04.83   0.8
                 S      18 13.18
ENR     0.62 193 Pd     18 03.88  -0.4
                 S      18 11.88
STV     0.62 200 Pd     18 03.71  -0.6
                 S      18 11.51
CKI     0.62 130 Pc     18 04.80   0.6
                 eSg    18 13.00
BNI     0.70 289 P      18 06.70   1.0
                 eSn    18 16.30
PCP     0.72 113 Pc     18 06.28   0.3
                 S      18 15.74
FIN     0.75 146 Pd     18 06.66   0.2
                 S      18 16.07
ORO     0.83  18 P      18 08.50   0.6
                 eSg    18 20.00
ORX     0.84  18 Pc     18 07.26  -0.8
                 S      18 17.18
LPG     0.90 318 Pg     18 10.00   0.8
                 Sg     18 22.40
LPL     0.93 318 Pg     18 10.40   0.8
                 Sg     18 22.60
IMI     0.94 168 P      18 09.33  -0.4
                 S      18 21.00
SBF     0.98 188 Pg     18 09.50  -0.8
                 Sg     18 22.80
MMK     1.24  11 ePc    18 13.80  -0.8
DIX     1.26 353 ePd    18 14.50  -0.3
BOB     1.31  92 P      18 17.80   2.5
                 eSg    18 36.00
FRF     1.45 209 Pn     18 17.10  -0.2
                 Sn     18 34.70
LRG     1.65 214 Pn     18 19.80  -0.3
                 Sn     18 42.00
LMR     1.70 208 Pn     18 20.20  -0.7
                 Sn     18 40.40
MDI     1.75  57 P      18 22.00   0.3
                 eSg    18 44.00
CDR     1.76 230 ePnd   18 21.80   0.0
                 e      18 22.00
                 e      18 22.20
                 e      18 23.20
                 i      18 24.30
                 e(Sn)  18 42.40
                 i      18 42.70
VDL     2.10  37 ePc    18 26.60  -0.4
LLS     2.25  25 ePc    18 28.00  -1.1
BDI     2.27 109 P      18 31.50   2.3
PII     2.36 117 P      18 31.90   1.5
PGF     2.49 156 Pn     18 29.80  -2.6
                 Sn     18 57.80
OSS     2.56  43 ePd    18 34.50   1.0
ZLA     2.71  11 ePc    18 35.00  -0.4
SLE     3.00  11 ePd    18 38.50  -1.0
BSF     3.06 350 Pn     18 40.00  -0.4
                 Sn     19 13.30
CTI     3.09  65 P      18 39.10  -1.8
SMF     3.21 306 Pn     18 42.80   0.3
                 Sn     19 18.00
HAU     3.29 345 Pn     18 43.10  -0.6
                 Sn     19 19.00
LBF     3.33 312 Pn     18 44.60   0.4
                 Sn     19 22.40
AVF     3.57 305 Pn     18 47.60   0.0
                 Sn     19 28.00
LOR     3.58 314 Pn     18 47.70   0.0
                 Sn     19 27.00
CDF     3.59 356 Pn     18 47.00  -1.0
                 Sn     19 27.50
SSF     3.63 309 Pn     18 48.80   0.3
                 Sn     19 28.40
WTTA    3.71  48 iPnc   18 49.90   0.1
                 i      19 32.20
                 iSn    19 35.60
BGF     3.76 299 Pn     18 50.40   0.0
                 Sn     19 31.60
MAF     3.81 293 Pn     18 51.00  -0.1
                 Sn     19 32.60
CAF     3.95 273 Pn     18 53.40   0.4
TCF     4.07 293 Pn     18 55.00   0.3
                 Sn     19 39.00
RJF     4.35 278 Pn     18 59.20   0.6
LSF     4.51 290 Pn     19 00.40  -0.5
MFF     5.72 291 Pn     19 17.90  -0.1
GRR     6.84 304 Pn     19 32.60  -1.1
     S.D. = 0.9  on  52 of  52 obs.
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%  JUL  13, 1991  12h 23m 48.53± 0.80s
   43.115 N ± 9.2km    17.978 E ± 5.4km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                        (383)
     ML 1.9 (TTG).

BRY     0.47 117 iPgc   23 58.32   0.3
                 iSg    24 06.80
HCY     0.77 150 iPgc   24 03.24  -0.3
                 iSg    24 16.25
NKY     0.81 112 iPgc   24 04.04  -0.2
                 iSg    24 17.69
BDV     1.04 143 iPgc   24 08.20   0.0
                 iSg    24 25.09
PLE     1.06  78 iPgd   24 08.44  -0.1
                 iSg    24 25.14
HVAR    1.12 274 ePg    24 09.60   0.1
                 iSg    24 21.70
TTG     1.17 125 iPgc   24 10.62   0.3
                 iSg    24 29.74
IVA     1.43  99 iPgd   24 14.60   0.0
     S.D. = 0.3  on   8 of   8 obs.
-----------------------------------
?  JUL  13, 1991  13h 03m 10.07± 1.17s
   39.100 N ±10.2km    27.795 E ±11.1km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)

IZM     0.82 211 ePg    03 26.10   0.2
                 eSg    03 38.10
DST     0.82  52 iPn    03 25.50  -0.5
EZN     1.35 303 ePn    03 34.00  -0.9
KGT     1.40 344 iPn    03 36.80   1.2
     S.D. = 1.5  on   4 of   4 obs.
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   JUL  13, 1991  13h 44m 18.43± 0.46s
   23.904 N ± 6.9km   125.810 E ± 5.6km
   DEPTH =  36.9km  (  2 depth phases)
   4.7mb ( 17 obs.)
 SOUTHWESTERN RYUKYU ISLANDS       (246)

TWD     3.86 273 ePc    45 16.90   0.0
TWQ     4.56 276 ePc    45 27.00   0.1
                 eS     46 18.60
TWK     4.92 264 ePd    45 31.10  -1.0
QZH     6.66 280 eP     45 54.00  -2.4
SSE     8.26 331 P      46 19.00   0.3
     Z  12s      3.60um
     N  10s      2.70um
     E  10s      0.90um
NJ2    10.18 324 eP     46 47.00   1.8
     Z  10s      1.30um
     N  10s      1.30um
     E  11s      1.50um
TIA    14.38 331 eP     47 43.70   2.4
TSRJ   14.56  35 P      47 48.70   4.9X
IIDJ   15.59  40 P      48 01.10   3.9X
MTMJ   16.33  37 P      48 09.30   2.7
MAT    16.52  37 eP     48 09.00   0.1
       0.9s     35.29nm          4.5mb
CHJJ   16.62  40 P      48 13.90   3.6X
KAKJ   17.44  42 P      48 21.60   1.2
NIIJ   17.46  37 P      48 20.00  -0.7
XAN    17.88 308 P      48 25.70  -0.3
TIY    17.90 323 Pd     48 27.80   1.5
     Z  14s      1.07um
     N  10s      1.01um
SNY    17.97 355 Pd     48 25.40  -1.6
       1.2s     20.00nm          4.1mb
BJI    18.03 335 eP     48 26.00  -1.7
       1.0s      7.00nm          3.7mb
     N  10s      0.93um
     E  12s      0.90um
YAMJ   18.70  37 P      48 33.90  -2.1
CN2    19.85 359 eP     48 44.50  -4.6X
       1.0s     10.00nm          4.1mb
OFUJ   20.24  38 P      48 50.80  -2.5
HHC    20.70 328 Pc     48 56.40  -1.6
     Z  14s      1.20um          4.4MszX
     N  11s      0.40um
     E  13s      0.50um
CD2    20.77 294 eP     48 58.20  -0.6
BTO    21.29 325 eP     49 02.00  -2.0
     N  11s      0.90um
     E  11s      1.00um
MRRJ   22.39  31 eP     49 14.30  -0.6
LZH    22.51 308 eP     49 06.50  -9.9X
                pP      49 16.00  35km
HODJ   23.45  34 eP     49 24.60  -0.6
ASAJ   24.43  30 eP     49 33.50  -1.3
KUSJ   24.69  35 P      49 37.10  -0.2
GTA    26.86 311 eP     49 56.60  -1.2
       1.4s     20.00nm          4.5mb
                pP      50 07.20  39km
SHL    30.81 280 iP     50 33.00  -0.4
WMQ    36.94 312 P      51 25.50  -0.4
YAK    38.19   3 iPd    51 35.90  -0.1
WRA    44.37 168 P      52 26.00  -1.2
       0.7s     11.90nm          4.8mb
WR2    44.38 168 iPd    52 27.30   0.1
ASPA   47.93 170 iPc    52 55.80   0.4
       0.4s      7.60nm          5.1mb
COOL   54.66 185 eP     53 45.50  -0.5
       0.4s      3.00nm          4.7mb
MAIO   57.69 299 eP     54 09.00   1.1
SOD    71.64 336 iP     55 39.00   1.1
INK    71.88  23 eP     55 39.00  -0.3
MBC    72.59  13 eP     55 43.00  -0.4
       1.1s      9.00nm          4.7mb
KAF    73.47 331 iP     55 48.90   0.2
       1.1s     19.00nm          5.0mb
NUR    74.78 330 eP     55 55.60  -0.7
UPP    78.25 331 iP     56 15.70   0.0
HFS    79.84 332 eP     56 24.00  -0.4
       0.9s      9.60nm          4.8mb
NB2    80.41 333 P      56 25.20  -2.3
       0.8s      6.50nm          4.7mb
YKA    81.54  24 eP     56 33.20  -0.1
       0.8s      4.60nm          4.5mb
KRA    81.56 321 eP     56 34.20   0.5
KSP    83.24 323 eP     56 43.60   1.2
VAY    83.85 312 eP     56 46.40   0.7
SKO    84.31 313 eP     56 49.50   1.5
BRG    84.50 324 eP     56 50.60   1.8
       1.4s     14.00nm          4.9mb
CLL    84.78 324 iPd    56 51.20   1.1
       1.6s     21.00nm          5.1mb
KHC    85.62 322 P      56 56.10   1.6
MOX    85.88 324 iPc    56 57.20   1.6
GRF    86.61 324 eP     57 01.10   1.8
       1.7s     45.00nm          5.4mb
FFC    91.63  25 eP     57 24.00   1.1
       0.9s     12.00nm          5.3mb
TNP    94.59  45 P      57 38.20   1.1
     S.D. = 1.3  on  53 of  58 obs.
-----------------------------------
%  JUL  13, 1991  13h 56m 47.70± 0.83s
   45.874 N ± 6.5km     0.249 W ± 9.1km
   DEPTH =   8.6 ±  5.5 km
 FRANCE                            (538)
     ML 2.8 (LDG).
```

13d 13h

MFF	0.73	6	Pg	57 02.10	-0.1
			Sg	57 14.80	
LFF	1.17	143	Pg	57 08.20	-1.4
			Sg	57 26.50	
LSF	1.29	72	Pn	57 12.00	0.2
			Pg	57 15.60	
			Sg	57 36.00	
RJF	1.36	114	Pg	57 14.10	1.2
			Sg	57 36.00	
LPO	1.56	139	Pg	57 15.60	-0.1
			Sg	57 38.40	
TCF	1.76	76	Pn	57 18.00	-0.6
			Pg	57 22.80	
			Sg	57 52.00	
CAF	1.89	119	Pg	57 23.20	2.8X
			Sg	57 51.40	
MAF	1.99	79	Pn	57 21.50	-0.5
			Pg	57 27.70	
			Sg	57 59.00	
LPF	2.23	346	Pg	57 24.50	-0.8
			Sg	57 53.00	
BGF	2.26	71	Pn	57 25.00	-0.8
			Pg	57 33.20	
			Sg	58 08.80	
GRR	2.55	351	Pg	57 30.60	0.7
			Sg	58 03.80	
SSF	2.85	64	Pg	57 43.00	8.7X
			Sg	58 25.60	
EPF	2.87	171	Pg	57 34.60	0.0
			Sg	58 10.80	
FLN	2.89	357	Pg	57 37.80	3.0X
			Sg	58 16.00	
LBF	3.13	68	Pg	57 48.80	10.7X
			Sg	58 35.00	
LOR	3.16	62	Pg	57 49.60	11.0X
			Sn	58 15.40	
			Sg	58 34.10	

S.D. = 0.9 on 11 of 16 obs.

% JUL 13, 1991 13h 58m 10.38± 0.82s
40.806 N ± 6.4km 29.566 E ± 6.7km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.7 (ISK).

HRT	0.08	78	iPg	58 12.80	-0.1
GBZT	0.09	260	iPgc	58 12.40	-0.6
			iSg	58 14.60	
YLV	0.28	212	iPg	58 16.30	0.0
			eSg	58 20.80	
ISK	0.46	304	iPg	58 20.00	0.2
			eSg	58 27.00	
IZI	0.47	189	iPg	58 20.30	0.3
CTT	0.93	292	ePn	58 28.30	0.2

S.D. = 0.4 on 6 of 6 obs.

• JUL 13, 1991 14h 06m 24.66± 0.36s
45.422 N ± 3.9km 21.061 E ± 5.1km
DEPTH = 10.0km (geophysicist)
ROMANIA (358)

TIM	0.33	20	iPd	06 32.00	0.4
BEO	0.74	216	iPgc	06 40.50	1.4
			iSg	06 52.00	
SSR	0.74	139	eP	06 40.00	0.8
			e	17 22.00	
DEV	1.37	70	ePd	06 50.00	0.2
UZD	2.09	305	iPn	07 00.60	0.5
BUD	2.50	326	iPn	07 06.00	0.1
PSZ	2.62	343	iPn	07 07.10	-0.8
CMP	2.81	92	ePc	07 28.00	17.5X
BLY	2.83	258	eP	07 17.00	6.3X
			eS	07 57.00	
MTUR	2.83	93	eP	07 25.00	14.2X
			i	22 25.00	
SRO	3.05	323	iPn	07 13.90	0.1
			i	07 48.80	
VTS	3.23	151	eP	07 17.00	0.5
			iSg	08 13.00	
MLR	3.44	87	eP	07 27.00	7.5X
SKO	3.46	175	ePn	07 26.50	6.8X
			e	07 30.00	
PTJ	3.61	279	iPnd	07 21.50	-0.4
			eSn	08 15.50	
PVL	3.78	124	eP	07 24.00	-0.2
SPC	3.81	352	ePn	07 25.30	0.5
			i	07 39.10	
			e	08 31.50	
KKB	3.85	157	eP	07 26.00	0.8
ZST	3.88	317	iPnd	07 25.50	-0.2
			i	07 32.50	
			i	07 51.00	
VRI	4.00	82	ePd	07 42.00	14.7X
VBY	4.08	273	ePn	07 43.50	15.0X
			e(Sn)	08 41.50	
PLD	4.24	140	eP	07 29.00	-1.7
VAY	4.24	164	ePn	07 30.40	-0.4
MMB	4.29	152	eP	07 37.00	5.4X
			eS	08 49.00	
RZN	4.58	143	iP	07 35.00	-0.7
LJU	4.61	280	eP	07 53.50	17.5X
			e(Sn)	08 28.00	
CEY	4.67	276	e(Pn)	07 53.20	16.3X
KRA	4.70	351	ePd	07 38.40	1.2
KDZ	4.92	138	iP	07 40.00	-0.4
VOY	5.06	279	e(Pn)	07 51.50	9.1X
KHC	6.30	309	ePn	07 58.00	-1.9

S.D. = 0.9 on 20 of 31 obs.

% JUL 13, 1991 14h 10m 08.88± 0.73s
43.973 N ± 8.3km 10.890 E ± 5.4km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

BDI	0.23	293	P	10 13.80	0.0
			eSg	10 17.30	
MME	0.26	328	P	10 14.50	0.0
			eSg	10 18.30	
PII	0.37	227	Pc	10 16.40	0.0
			eSg	10 21.50	
PGD	0.61	99	P	10 21.40	0.1
			eSg	10 30.30	
SFI	0.70	94	P	10 22.50	-0.1
			eSg	10 32.50	

S.D. = 0.1 on 5 of 5 obs.

? JUL 13, 1991 14h 17m 09.06± 0.97s
45.459 N ± 9.5km 21.030 E ±12.7km
DEPTH = 10.0km (geophysicist)
ROMANIA (358)

TIM	0.31	26	iPc	17 16.00	0.5
BEO	0.76	213	iPg	17 24.00	0.2
			iSg	17 35.00	
DEV	1.38	71	ePd	17 34.00	-0.3
PSZ	2.58	343	eP	17 51.30	-0.4
MLR	3.46	88	ePd	18 08.00	3.9X
SKO	3.50	175	ePn	18 15.00	10.4X
PTJ	3.58	279	eP	18 21.20	15.3X

S.D. = 0.7 on 4 of 7 obs.

• JUL 13, 1991 14h 35m 06.65± 2.70s
41.952 N ±18.3km 125.807 W ±14.9km
DEPTH = 10.0km (geophysicist)
4.1mb (3 obs.)
OFF COAST OF NORTHERN CALIFORNIA(34)

KMOR	4.05	24	P	36 09.56	-0.4
			S	36 55.43	
GT2	4.11	38	P	36 10.89	0.1
PGO	4.27	34	P	36 13.74	0.6
VBEM	4.37	43	P	36 14.72	0.0
TDH	4.43	40	P	36 15.78	0.2
			S	37 08.68	
NLO	4.47	22	P	36 16.53	0.5
VLMM	4.51	36	P	36 17.11	0.6
			S	37 09.19	
VIPM	4.57	54	P	36 17.11	-0.5
VFP	4.61	42	P	36 18.35	0.2
CROR	4.63	48	P	36 18.63	0.2
RVW	4.74	27	P	36 20.31	0.4
LVP	4.79	30	P	36 20.29	-0.3
MTMW	4.83	31	Pd	36 20.61	-0.5
			S	37 14.42	
BMW	4.89	21	P	36 21.24	-0.7
			S	37 15.95	
FL2	4.92	29	P	36 22.64	0.2
JLK	4.95	31	P	36 22.49	-0.4
HSR	4.96	31	P	36 24.81	1.7
CDFW	4.97	32	P	36 22.73	-0.3
VTHM	4.99	48	P	36 24.48	1.0
GULW	5.00	36	P	36 23.53	-0.1
STD	5.00	30	P	36 23.61	0.0
CZM	5.07	27	P	36 24.56	0.1
			S	37 20.89	
VGB	5.10	44	P	36 24.87	0.0
TDL	5.10	29	P	36 25.07	0.1
			S	37 21.78	
ASR	5.18	34	P	36 26.19	0.0
KOSW	5.20	29	P	36 26.53	0.1
LMW	5.35	27	P	36 28.99	0.5
CPW	5.37	20	P	36 28.04	-0.8
			S	37 28.30	
LON	5.59	29	P	36 31.67	-0.2
WPW	5.64	31	P	36 32.53	-0.2
FMW	5.79	29	Pc	36 34.87	0.1
GSM	5.98	27	P	36 37.51	0.1
GMW	5.99	20	P	36 36.73	-0.7
HDW	6.02	18	P	36 36.88	-1.1
RMW	6.20	26	P	36 40.86	0.4
WIW	6.48	44	P	36 43.92	-0.5
PNT	8.54	28	P	37 13.00	-0.3
	0.5s		0.80nm	4.3mb	
LRM	10.39	64	eP	37 38.60	-0.3
FFC	20.23	43	eP	39 43.00	-1.4
	0.9s		11.00nm	4.2mb	
YKA	21.62	14	eP	40 00.20	1.6
	0.8s		1.70nm	3.5mb	

S.D. = 0.6 on 40 of 40 obs.

& JUL 13, 1991 14h 43m 28.74s
59.936 N 152.452 W
DEPTH = 82.8km
SOUTHERN ALASKA (2)
<AEIC>.

IVS	0.32	283	eP	43 41.27	-0.7
HOM	0.49	124	iPc	43 42.57	-0.3
			eS	43 52.85	
RED	0.51	342	iPd	43 42.46	-0.7
			eS	43 53.16	
REF	0.57	347	iPd	43 43.19	-0.6
			eS	43 54.49	
RDW	0.58	342	iPd	43 43.29	-0.6
			eS	43 54.57	
NNL	0.59	79	iPc	43 44.10	0.3
RDN	0.60	345	iPd	43 43.45	-0.6
			eS	43 54.62	
XLV	0.61	142	iPc	43 43.06	-0.9
			eS	43 54.37	
RDT	0.64	2	iPd	43 43.47	-0.9
DFR	0.67	350	iPd	43 44.00	-0.6
			eS	43 55.81	
NCT	0.67	339	iPd	43 43.95	-0.7
			iS	43 56.02	
CNPM	0.74	123	iPc	43 44.66	-0.6
			eS	43 56.86	
AUE	0.74	219	ePc	43 44.75	-0.5
AUH	0.76	222	eP	43 45.12	-0.5
AUI	0.78	220	eP	43 44.82	-0.9
			eS	43 57.25	
BRLK	0.81	102	ePc	43 45.16	-0.9
			eS	43 58.39	
PDB	0.89	261	iPc	43 46.08	-0.8
			eS	43 59.32	
NKA	1.01	36	ePc	43 49.58	1.3
CDD	1.18	212	iPd	43 49.51	-0.9
MCNL	1.22	233	ePd	43 49.71	-1.2
SLKM	1.25	62	eP	43 50.60	-0.8
SPU	1.27	9	iPd	43 51.07	-0.5
			eS	44 08.47	
CKL	1.27	3	iPd	43 51.18	-0.5
SYI	1.33	179	eP	43 51.92	-0.4
BGL	1.33	1	iPd	43 52.08	-0.4
CGLM	1.39	9	iPd	43 52.92	-0.4
NCG	1.48	6	iPd	43 54.05	-0.4
SEW	1.52	82	eP	43 53.39	-1.4
SUA	1.75	28	ePd	43 57.74	-0.2
PMS	1.94	46	ePc	44 00.16	-0.3
SKT	2.10	12	iPd	44 01.80	-0.8
LTI	2.31	85	ePc	44 03.56	-2.0
PLRM	2.33	43	iPc	44 04.54	-1.2
KNIM	2.40	78	iPc	44 04.21	-2.5
MTU	2.41	87	eP	44 05.49	-1.4
KNK	2.46	51	ePc	44 06.18	-1.4
GHO	2.52	42	ePc	44 07.31	-1.2
			eS	44 35.99	
CUT	2.69	22	eP	44 10.12	-0.6
GLI	2.82	68	eP	44 09.58	-3.0
KLU	3.57	61	eP	44 20.38	-2.6
TRF	3.68	15	eP	44 23.52	-1.0

```
RND      3.88  25 eP     44 25.61  -1.7
GLB      4.51  67 eP     44 32.77  -3.3
BALM     5.12  73 eP     44 41.93  -2.7
       44 obs. associated
-----------------------------------------
%  JUL  13, 1991  15h 15m 37.39± 3.39s
   46.016 N ±25.6km     2.845 E ± 7.4km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                                (538)
      Ml 2.0 (LDG).

MAF      0.28 317 Pg     15 43.20  -0.1
                  Sg     15 46.20
TCF      0.52 302 Pg     15 48.00   0.1
                  Sg     15 54.00
BGF      0.54   0 Pg     15 48.40   0.0
                  Sg     15 54.20
AVF      0.85  24 Pg     15 53.80   0.0
                  Sg     16 03.60
SMF      0.93  47 Pg     15 55.20   0.0
                  Sg     16 08.40
     S.D. = 0.1  on   5 of   5 obs.
-----------------------------------------
*  JUL  13, 1991  15h 27m 47.05± 1.25s
   39.793 N ±10.1km    23.480 E ±10.2km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                            (365)

PAIG     0.20  49 iPc    27 51.50   0.0
                  eS     27 55.38
OUR      0.66  35 ePc    27 59.94  -0.3
THE      0.93 335 ePd    28 04.86   0.1
SOH      1.03 355 ePd    28 07.82   1.2
                  eS     28 21.82
AGG      1.18 230 ePd    28 09.26   0.2
KNT      1.44 342 eP     28 13.70   0.6
                  eS     28 35.20
VAY      1.68 336 ePn    28 14.60  -1.9
     S.D. = 1.2  on   7 of   7 obs.
-----------------------------------------
%  JUL  13, 1991  15h 30m 07.21± 0.76s
   37.744 N ± 7.3km    15.007 E ± 6.1km
   DEPTH =  10.0km  (geophysicist)
 SICILY                                (398)

MNO      0.31 307 P      30 13.40  -0.3
                  eSg    30 19.50
ATN      0.55  41 P      30 18.80   0.4
                  eSg    30 27.50
MEU      0.64 185 P      30 20.00  -0.2
                  eSg    30 30.00
GIB      0.81 288 P      30 23.60   0.6
                  eSg    30 35.40
SOI      0.89  68 P      30 24.60   0.3
                  eSg    30 37.90
CZI      1.72  31 P      30 36.50  -0.8
     S.D. = 0.7  on   6 of   6 obs.
-----------------------------------------
?  JUL  13, 1991  15h 47m 27.63± 5.49s
   41.882 N ±35.7km   125.800 W ±30.6km
   DEPTH =  10.0km  (geophysicist)
   3.8mb (  2 obs.)
 OFF COAST OF NORTHERN CALIFORNIA( 34)

VTHM     5.04  47 P      48 46.55   1.5
VGB      5.14  43 P      48 46.87   0.3
TDL      5.16  29 P      48 46.93   0.1
ASR      5.23  34 P      48 47.77  -0.1
KOSW     5.26  28 P      48 48.37   0.1
LMW      5.41  27 P      48 50.83   0.5
GL2      5.43  40 P      48 51.44   0.7
GLK      5.56  31 P      48 52.27  -0.3
JBO      5.61  48 P      48 50.66  -2.5
LON      5.65  29 P      48 53.23  -0.4
WPW      5.70  31 P      48 53.76  -0.7
FMW      5.85  29 P      48 56.61   0.0
GSM      6.04  27 P      48 59.25   0.0
RMW      6.26  26 P      49 02.78   0.4
EBG      6.27  35 P      49 02.41   0.0
RSW      6.35  43 P      49 03.34  -0.2
MDW      6.42  40 P      49 05.72   1.3
WIW      6.53  44 P      49 05.56  -0.4
HTW      6.58  24 P      49 06.79   0.0
WAH2     6.61  40 P      49 08.01   0.8
LNOR     6.74  51 P      49 08.91  -0.1
JCW      6.88  22 P      49 10.79  -0.2
WTV      7.15  34 P      49 14.13  -0.6
RPW      7.23  23 P      49 15.47  -0.4
FFC     20.27  43 eP     52 06.00   0.2
         1.3s     17.00nm          4.2mb
YKA     21.69  14 eP     52 28.10   7.8X
         1.2s      2.20nm          3.4mb
     S.D. = 0.8  on  25 of  26 obs.
-----------------------------------------
?  JUL  13, 1991  16h 07m 05.04± 0.72s
   18.796 S ±13.6km   167.004 E ±13.3km
   DEPTH =  33.0km  (normal)
   4.7mb (  2 obs.)
 VANUATU ISLANDS                       (186)

BKM      1.63  47 iP     07 32.50   0.7
                  iS     07 58.00
PVC      1.63  50 iP     07 31.00  -0.8
                  iS     07 55.00
DZM      3.30 189 iPd    07 56.00   0.3
                  iS     08 38.20
STK     26.33 235 iPd    12 38.80  -1.0
         0.7s      1.90nm          3.8mb
WR2     30.79 262 eP     13 20.40   0.3
ASPA    31.19 255 iPd    13 24.00   0.4
         0.4s     37.90nm          5.6mb
     S.D. = 0.9  on   6 of   6 abs.
-----------------------------------------
?  JUL  13, 1991  16h 13m 23.02±19.28s
   41.837 N ±126.km   126.000 W ±88.2km
   DEPTH =  10.0km  (geophysicist)
 OFF COAST OF NORTHERN CALIFORNIA( 34)

CROR     4.82  48 P      14 37.90   0.5
RVW      4.91  27 P      14 39.37   0.8
LVP      4.96  30 P      14 39.27  -0.1
MTMW     5.00  32 P      14 39.44  -0.5
                  S      15 30.12
BMW      5.05  22 P      14 40.11  -0.5
JLK      5.12  31 P      14 41.36  -0.3
HSR      5.13  31 P      14 42.14   0.2
CDFW     5.14  32 P      14 41.72  -0.2
ESD      5.17  31 P      14 42.24  -0.1
STD      5.17  30 P      14 42.43   0.0
VTHM     5.18  48 P      14 42.71   0.3
ERK      5.19  29 P      14 43.47   0.9
SOSW     5.21  31 P      14 42.62  -0.2
TDL      5.27  30 P      14 43.99   0.2
VGB      5.28  44 P      14 43.75  -0.1
ASR      5.36  35 P      14 44.65  -0.4
KOSW     5.37  29 P      14 45.37   0.2
LMW      5.52  28 P      14 47.96   0.7
CPW      5.53  21 P      14 46.46  -1.0
GLK      5.68  32 P      14 49.26  -0.4
LON      5.76  30 P      14 50.34  -0.3
WPW      5.82  32 P      14 50.91  -0.6
GHW      5.85  26 P      14 52.50   0.7
FMW      5.96  30 P      14 53.71   0.1
GSM      6.15  28 P      14 56.47   0.3
RSW      6.48  43 P      15 00.89   0.0
WIW      6.66  44 P      15 02.71  -0.6
HTW      6.68  25 P      15 03.77   0.1
JCW      6.98  23 P      15 07.92   0.2
RPW      7.33  24 P      15 12.75   0.0
     S.D. = 0.5  on  30 of  30 abs.
-----------------------------------------
*  JUL  13, 1991  16h 19m 48.50± 3.64s
   41.984 N ±23.3km   125.778 W ±19.1km
   DEPTH =  10.0km  (geophysicist)
   4.0mb (  1 obs.)
 OFF COAST OF NORTHERN CALIFORNIA( 34)

HBO      3.15  53 Pc     20 39.69   0.5
                  S      21 16.97
TCO      3.73  54 Pc     20 47.72   0.2
KMOR     4.01  24 P      20 51.21  -0.1
                  S      21 33.63
GT2      4.07  38 P      20 52.71   0.6
PGO      4.23  34 P      20 55.27   0.8
                  S      21 40.46
VBEM     4.33  43 P      20 55.76  -0.2
TDH      4.39  40 P      20 57.87   1.0
                  S      21 46.57
NLO      4.43  21 P      20 57.86   0.5
VLMM     4.47  36 P      20 57.99   0.1
                  S      21 46.49
VIPM     4.53  54 P      20 58.70  -0.2
                  S      21 49.14
VFP      4.57  42 P      20 59.68   0.3
VLL      4.57  39 P      21 00.38   1.0
CROR     4.60  48 P      20 58.93  -0.8
RVW      4.70  27 P      21 01.77   0.6
LVP      4.75  30 P      21 01.72  -0.2
                  S      21 51.84
MTMW     4.79  31 P      21 01.75  -0.7
                  S      21 51.81
BMW      4.85  21 P      21 02.89  -0.4
                  S      21 53.36
FL2      4.88  29 P      21 03.89   0.1
SHW      4.92  30 P      21 04.56   0.2
HSR      4.92  31 P      21 04.49   0.1
CDFW     4.93  32 P      21 03.90  -0.5
ESD      4.96  31 P      21 05.05   0.2
VTHM     4.96  48 P      21 04.63  -0.1
GULW     4.96  36 P      21 05.35   0.5
STD      4.96  30 P      21 04.79  -0.1
ERK      4.98  29 P      21 04.31  -0.8
SOSW     4.99  30 P      21 05.13  -0.2
                  S      21 57.91
CZM      5.03  27 P      21 05.99   0.2
VGB      5.06  44 P      21 06.27   0.1
                  S      22 01.01
TDL      5.06  29 P      21 06.50   0.2
                  S      22 00.36
ASR      5.14  34 P      21 07.04  -0.4
                  S      22 03.72
KOSW     5.16  29 P      21 07.77   0.1
LMW      5.31  27 P      21 10.35   0.5
CPW      5.33  20 P      21 09.84  -0.3
                  S      22 05.16
GLK      5.47  32 P      21 11.77  -0.3
JBO      5.53  49 P      21 12.41  -0.5
LON      5.55  29 P      21 12.83  -0.3
WPW      5.60  31 P      21 13.48  -0.5
GHW      5.64  25 P      21 14.97   0.6
FMW      5.75  29 P      21 16.08   0.0
NAC      5.93  35 P      21 18.33  -0.1
GSM      5.94  27 P      21 18.83   0.1
WIW      6.44  44 P      21 25.05  -0.6
JCW      6.78  22 P      21 30.34  -0.1
                  S      22 40.62
ETW      6.82  33 P      21 30.66  -0.5
PNT      8.51  28 P      21 54.00  -0.6
FFC     20.19  43 eP     24 26.00   0.2
         0.7s      6.00nm          4.0mb
     S.D. = 0.5  on  47 of  47 obs.
-----------------------------------------
*  JUL  13, 1991  16h 32m 39.28± 0.52s
   14.418 N ± 9.6km   146.540 E ±10.1km
   DEPTH =  62.4km  (  2 depth phases)
   4.3mb (  3 obs.)
 MARIANA ISLANDS                       (216)

GUA      1.81 241 eP     33 09.00   0.4
PJG      1.82 243 eP     33 08.90   0.1
GUMO     1.82 243 eP     33 08.70  -0.1
                  eS     33 34.40
WR2     36.19 200 eP     39 36.30  -1.6
BJI     36.84 320 eP     39 42.00  -1.1
TIY     38.10 314 Pd     39 54.60   0.7
ASPA    39.82 198 eP     40 08.00  -0.2
         1.0s      5.30nm          4.4mb
HHC     40.23 318 P      40 12.20   0.6
BTO     41.12 316 eP     40 20.00   1.1
GTA     47.86 310 eP     41 13.40   0.4
         0.8s     10.00nm          4.8mb
                  pP     41 30.00  65km
YAK     49.03 350 eP     41 19.70  -1.8
WMO     57.75 313 eP     42 26.50   0.2
INK     72.99  23 eP     44 02.00  -1.7
MBC     77.08  14 eP     44 26.00  -1.0
YKA     81.38  28 eP     44 52.20   1.9
         0.6s      0.60nm          3.7mb
TNP     86.05  52 (P)    45 15.00   0.1
                  pP     45 31.90  60km
KIC    144.82 304 PKP    52 11.00  -0.7
TIC    144.87 305 PKP    52 11.20  -0.6
LIC    145.13 304 PKP    52 12.10  -0.2
         0.6s     10.00nm
ZOBO   146.54  98 PKP    52 16.70   1.5
LPB    146.57  98 ePKP   52 15.00  -0.1
CNCB   146.69  99 PKP    52 17.80   2.3
     S.D. = 1.2  on  22 of  22 abs.
-----------------------------------------
%  JUL  13, 1991  16h 56m 10.07± 2.32s
   40.496 N ±10.6km   26.116 E ±19.6km
```

13d 16h

DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 3.0 (ISK).

EZN	0.69	166	ePg	56	23.70	0.0
			eSg	56	33.20	
KGT	0.91	92	ePg	56	27.30	-0.1
EDC	1.34	96	iPn	56	34.50	-0.3
DMK	1.81	43	ePn	56	41.10	-0.5
CTT	1.87	69	ePn	56	43.30	0.9

S.D. = 0.7 on 5 of 5 obs.

JUL 13, 1991 17h 27m 33.74± 0.25s
45.403 N ± 2.4km 21.241 E ± 2.7km
DEPTH = 10.0km (geophysicist)
4.0mb (5 obs.)
ROMANIA (358)
ML 4.1 (TTG), 4.0 (SKO). Felt (VI) ot Belgrade, Yugoslavio.

BEO	0.80	224	iPgd	27	47.90	-1.4
			eSg	28	00.40	
DEV	1.26	67	ePc	28	01.00	3.8X
UZD	2.20	304	iPn	28	11.50	0.6
DRA	2.26	108	ePc	28	15.00	3.3X
PLE	2.46	213	iPnc	28	14.45	-0.2
			iSn	28	46.53	
BUD	2.58	324	iPn	28	16.90	0.6
CMP	2.68	92	iPd	28	30.00	12.2X
PSZ	2.68	340	iPn	28	17.90	0.1
MTUR	2.70	92	ePc	28	12.50	-5.6X
IVA	2.71	201	iPnc	28	18.38	0.2
			iSn	28	53.81	
BMR	2.75	34	eP	28	33.00	14.3X
BLY	2.95	259	Pn	28	20.40	-1.0
			eS	29	04.40	
PVY	2.95	198	iPnd	28	22.03	0.4
			iSn	29	00.36	
NKY	3.05	213	iPnd	28	22.76	-0.2
			iSn	28	59.18	
SRO	3.14	321	iPn	28	24.70	0.5
			i	28	59.80	
VTS	3.15	153	iPc	28	25.00	0.6
			iSg	29	17.00	
BRY	3.17	219	iPnd	28	24.01	-0.7
			iSn	29	01.21	
TTG	3.30	206	iPnc	28	26.21	-0.2
			iSn	29	06.88	
MLR	3.31	87	iPc	28	21.00	-5.8X
SKO	3.43	178	ePn	28	28.00	-0.4
	1.0s	532.00nm				
	Z 10s	1.55um				
	N 10s	1.86um				
			iPg	28	38.40	
			i	28	41.40	
			iSg	29	25.00	
			LR	29	52.00	
HCY	3.56	215	iPnd	28	30.55	0.4
			iSn	29	12.43	
BDV	3.57	210	iPnd	28	31.00	0.6
			iSn	29	12.55	
SDA	3.61	201	ePn	28	34.00	3.1X
PVL	3.66	125	eP	28	31.00	-0.6
ZAG	3.71	278	ePn	28	31.20	-1.1
			iSg	29	36.00	
ULC	3.73	203	iPnd	28	33.31	0.7
PTJ	3.74	280	iPnd	28	31.30	-1.5
			eSn	29	15.30	
PHP	3.76	189	iPnd	28	33.50	0.5
KKB	3.78	159	iP	28	34.00	0.7
SPC	3.85	350	ePn	28	36.90	2.5
			i	28	50.40	
			i	29	28.60	
			i	29	38.70	
VRI	3.88	81	iP	28	38.50	3.9X
PTT	3.89	65	eP	28	50.00	15.2X
LACI	3.93	197	iPnd	28	36.90	1.6
ZST	3.98	316	iPnd	28	36.10	0.0
			i(Sn)	29	20.00	
			Lg	29	23.00	
HVAR	4.10	239	iPnc	28	37.20	-0.5
PLD	4.14	142	iP	28	39.00	0.6
TIR	4.18	194	ePn	28	40.50	1.6
VAY	4.19	166	iPn	28	38.60	-0.5
	0.6s	422.00nm				
			i	28	51.00	
			i	29	43.00	
			i	29	50.40	
			Lg	29	54.60	
VBY	4.21	273	ePn	28	38.00	-1.4
			i	28	52.00	
			eSg	28	54.00	
MMB	4.22	154	ePc	28	41.00	1.4
			iS	29	52.00	
KNT	4.41	163	ePd	28	41.92	-0.3
VKA	4.43	312	ePn	28	41.00	-1.5
			i	28	41.80	
			i	28	51.30	
			i	29	25.20	
			i	29	36.10	
RZN	4.49	145	iP	28	45.00	1.5
GRG	4.52	169	ePc	28	43.80	-0.1
DIM	4.57	136	eP	28	46.00	1.5
			Sg	30	02.00	
SRS	4.62	157	iPd	28	44.52	-0.6
FNA	4.62	179	ePd	28	46.64	1.4
KRA	4.74	350	iPd	28	48.30	1.4
	0.6s	140.00nm				
			i	28	50.50	
			i	29	16.00	
			iS	29	42.50	
LJU	4.74	280	ePn	28	45.50	-1.5
			e	29	03.50	
			eSg	30	16.50	
CEY	4.80	276	ePn	28	50.50	2.7
			e	29	03.90	
			e(Sg)	30	11.50	
KDZ	4.83	140	iP	28	48.00	-0.2
			iS	33	00.00	
RIY	4.83	272	ePn	28	49.70	1.5
SOH	4.83	161	ePc	28	47.40	-0.9
CFR	4.88	90	eP	28	49.00	0.1
			e	59	19.00	
KZN	5.11	175	eP	28	51.20	-1.0
VOY	5.18	280	ePn	28	53.30	0.0
			e	29	10.30	
			eSg	30	32.10	
TRI	5.26	276	ePn	28	53.70	-0.6
			iSn	30	20.70	
RDO	5.29	142	eP	28	54.70	0.1
LIT	5.38	170	ePc	28	56.08	0.1
BRT	5.40	215	P	28	57.10	0.8
KMR	5.56	301	ePn	29	01.00	2.5
			i	30	09.60	
KBA	5.73	290	iPnc	29	02.30	1.3
			i	29	05.60	
			iSn	30	02.50	
			i	30	07.20	
PAIG	5.76	161	ePd	29	00.00	-1.3
KEK	5.79	191	eP	29	02.70	1.0
IGT	5.91	187	ePd	29	03.44	0.1
DMK	5.93	125	eP	29	02.60	-1.1
FVI	6.01	284	P	29	05.80	1.0
DUI	6.19	235	P	29	10.30	2.9X
VVI	6.20	278	P	29	12.38	4.8X
BHG	6.21	295	eP	29	09.60	1.9
ARV	6.24	255	P	29	09.20	1.1
KSP	6.37	330	ePn	29	09.90	0.0
	0.7s	40.00nm				5.4mb X
			iPg	29	25.00	
			iS	30	30.00	
ORI	6.40	215	P	29	10.00	-0.3
KHC	6.41	308	iPn	29	09.50	-1.0
			ePg	29	15.60	
			eSn	30	20.50	
			eSg	30	30.50	
AGG	6.43	172	ePd	29	12.64	1.8
SDI	6.54	238	P	29	14.60	2.2
ASS	6.59	252	P	29	12.90	-0.2
KGT	6.65	136	eP	29	14.00	0.1
CSI	6.70	215	P	29	14.00	-0.7
EZN	6.72	144	iP	29	14.70	-0.1
MGR	6.72	220	P	29	14.80	-0.1
CTI	6.74	279	P	29	13.60	-1.7
CTT	6.75	127	eP	29	14.30	-1.0
ROI	6.77	212	P	29	14.70	-0.9
TDS	6.79	214	P	29	15.00	-0.8
SFI	6.86	261	P	29	18.40	1.7
CRE	6.87	258	P	29	17.50	0.4
MNS	6.88	247	P	29	20.90	3.8X
WTTA	6.90	289	iPnc	29	17.80	0.2
			i	29	21.90	
			i	30	22.80	
			iSn	30	37.50	
			e	58	52.00	
			i	59	12.00	
			i	59	31.90	
PGD	6.96	261	P	29	19.90	1.5
EDC	7.01	134	eP	29	17.00	-1.9
ISK	7.17	124	eP	29	17.00	-4.1X
CZI	7.25	213	P	29	20.60	-1.6
BRG	7.33	321	ePn	29	24.00	0.6
			i	29	44.00	
			i	31	13.00	
			i	31	39.00	
MME	7.60	265	P	29	27.50	0.2
PII	7.84	261	P	29	31.00	0.6
DST	7.96	134	eP	29	30.00	-2.2
GRF	8.02	306	eP	29	33.10	0.0
			eS	31	21.70	
CLL	8.06	320	ePn	29	32.00	-1.6
			iSn	30	58.50	
MDI	8.10	277	P	29	32.50	-1.6
SOI	8.29	210	P	29	36.10	-0.6
MOX	8.31	313	eP	29	38.00	0.9
	Z 14s	0.30um				
	N 14s	0.70um				
	E 13s	0.40um				
CKI	9.25	269	P	29	49.50	-0.6
PGF	9.28	256	eP	29	49.20	-1.4
CDF	10.02	292	eP	29	59.20	-1.6
LPG	10.19	276	eP	30	03.30	0.0
	0.6s	5.40nm				5.2mb X
LPL	10.20	276	eP	30	03.40	0.0
	0.5s	2.90nm				5.0mb X
FRF	10.59	265	eP	30	04.80	-3.8X
	0.5s	4.35nm				5.1mb X
LMR	10.75	264	eP	30	07.00	-3.7X
MEM	11.45	303	P	30	19.60	-0.6
ENN	11.56	303	eP	30	22.00	0.3
	0.9s	15.00nm				5.3mb X
			e	30	35.00	
WTS	11.58	310	e(P)	30	40.00	18.0X
LBF	12.07	284	eP	30	28.70	0.0
DOU	12.14	299	Pd	30	39.00	9.4X
	0.7s	7.80nm				5.1mb X
	Z 10s	0.30um				
			Rg	36	02.00	
SMF	12.16	282	eP	30	29.90	0.0
AVF	12.50	283	eP	30	32.20	-2.2
	0.6s	2.70nm				4.7mb
MAF	13.06	280	eP	30	40.80	-1.0
	0.6s	3.60nm				4.7mb
OBN	13.78	40	eP	30	52.00	0.7
			e	31	16.00	
			i	34	54.00	
			i	35	02.00	
UPP	14.64	353	iP	31	01.40	-1.1
HFS	15.43	346	eP	31	11.70	-1.1
	0.9s	4.70nm				3.8mb
	Z 14s	0.27um				
			LR	36	25.00	
NB2	16.74	343	P	31	27.70	-1.9
	0.6s	2.80nm				3.6mb
YKA	66.80	339	eP	38	28.40	1.3
	0.6s	0.30nm				3.7mb

S.D. = 1.1 on 105 of 122 obs.

JUL 13, 1991 17h 38m 41.17± 0.64s
45.498 N ± 5.6km 21.067 E ± 6.5km
DEPTH = 10.0km (geophysicist)
ROMANIA (358)
Felt (V) ot Belgrode, Yugoslavio.

TIM	0.26	24	iPd	38	48.00	1.3
BEO	0.80	213	iPgd	38	57.30	0.6
			iSg	39	10.00	
DEV	1.34	73	iPd	39	05.00	-0.9
UZD	2.05	303	e(Pn)	39	17.00	1.0
SRO	2.99	322	i(Pn)	39	29.80	0.3
MLR	3.43	88	eP	39	40.00	4.1X
SKO	3.54	175	ePn	39	43.00	5.8X
PTJ	3.60	278	e(Pn)	39	37.10	-1.2
SPC	3.73	352	ePn	39	38.90	-1.4
ZST	3.83	316	i(Pn)	39	41.20	-0.2
			i	39	49.00	
			i	40	07.00	
			i(Sn)	40	28.50	
VAY	4.32	165	ePn	39	48.50	0.2
KRA	4.62	351	eP	39	53.30	0.6

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KSP      6.23 331 eP     40 15.00  -0.3
                  e      41 37.00
     S.D. = 1.0  on  11 of  13 obs.
-----------------------------------------
   JUL  13, 1991  17h 56m 57.56± 0.31s
   45.358 N ± 2.9km   21.137 E ± 3.6km
   DEPTH =  10.0km  (geophysicist)
 ROMANIA                              (358)
      ML 3.5 (TTG). Felt (V) ot
      Belgrode, Yugoslovia.

TIM      0.38   9 iPc    57 08.00   2.6
BEO      0.72 222 ePgc   57 12.50   0.8
                  iSg    57 25.60
DEV      1.35  66 iPc    57 24.00   1.7
UZD      2.17 306 iPn    57 34.10  -0.1
DRA      2.31 106 ePd    57 46.00   9.7X
PLE      2.38 212 iPnd   57 37.52   0.2
                  iSn    58 13.84
BUD      2.58 326 iPn    57 39.70  -0.3
IVA      2.64 200 iPnd   57 41.60   0.6
                  iSn    58 18.70
PSZ      2.70 342 iPn    57 41.20  -0.7
BMR      2.83  34 iPd    57 56.00  12.4X
BLY      2.87 259 ePn    57 53.00   8.9X
                  eSn    58 31.00
PVY      2.89 197 iPnd   57 44.99   0.4
                  iSn    58 23.84
NKY      2.97 212 iPc    57 46.49   0.7
                  iSn    58 27.80
BRY      3.09 218 iPnc   57 46.70  -0.6
                  iSn    58 28.72
SRO      3.13 323 iPn    57 48.40   0.5
                  i      58 27.20
VTS      3.14 151 iP     57 48.00  -0.2
TTG      3.23 206 iPnd   57 49.30   0.1
                  iSn    58 34.39
MLR      3.39  86 eP     57 57.00   5.3X
SKO      3.39 176 ePn    57 51.00  -0.6
       1.2s   136.00nm
                  e      57 53.60
HCY      3.48 214 iPnd   57 53.87   1.1
                  iSn    58 37.00
BDV      3.50 209 iPnd   57 52.75  -0.3
                  iSn    58 39.70
SDA      3.55 200 ePn    57 57.40   3.7X
ZAG      3.65 279 ePn    57 55.00  -0.2
                  eSg    59 01.20
PTJ      3.67 280 iPn    57 54.60  -1.1
                  eSn    58 39.40
PVL      3.70 124 eP     57 54.00  -1.9
PHP      3.70 188 ePn    57 56.50   0.5
LACI     3.86 196 ePn    58 00.00   1.7
SPC      3.88 351 ePn    58 01.00   2.3
                  i      58 10.10
                  e(Sn)  58 46.00
VRI      3.95  81 ePd    58 11.00  11.4X
ZST      3.97 317 i(Pn)  57 59.10  -0.6
                  i      58 01.00
                  i      58 06.60
                  i(Sn)  58 44.00
HVAR     4.01 239 ePn    58 00.30   0.0
TIR      4.12 193 ePn    58 04.70   2.9X
VBY      4.14 274 ePn    58 05.50   3.3X
                  e      58 19.00
PLD      4.15 140 iP     58 02.00  -0.4
VAY      4.17 165 ePn    58 02.30  -0.3
MMB      4.21 153 eP     58 04.00   0.7
                  eS     59 15.00
VKA      4.40 313 e(Pn)  58 04.00  -2.0
                  i      58 16.70
                  i      58 45.70
                  i      58 56.50
RZN      4.50 143 iP     58 07.00  -0.4
DIM      4.59 135 eP     58 09.00   0.4
                  ePg    58 27.00
                  eSg    59 22.00
RIY      4.76 272 eP     58 25.60  14.6X
KRA      4.77 351 ePd    58 11.20   0.1
                  e      58 37.50
KDZ      4.84 138 iPc    58 12.00  -0.2
                  iS     59 30.00
TRI      5.19 276 eP     58 18.30   1.2
FVI      5.95 285 P      58 32.00   4.2X
ARV      6.16 255 P      58 30.50  -0.2
KSP      6.37 331 ePn    58 32.30  -1.5
KHC      6.38 309 Pn     58 32.50  -1.4
                  e      59 39.50
SDI      6.45 238 P      58 37.00   2.0
ASS      6.51 252 P      58 36.00   0.3
KGT      6.67 135 eP     58 36.80  -1.2
EZN      6.72 143 eP     58 37.20  -1.5
SFI      6.78 261 P      58 38.50  -0.9
CRE      6.79 258 P      58 39.00  -0.8
BRG      7.32 322 e(P)   58 56.00   9.0X
                  e      00 07 00
                  e      00 45.00
GRF      7.99 306 eP     58 56.60   0.2
                  eS     00 48.00
MOX      8.29 313 e(P)   59 16.00  15.4X
NB2     16.76 343 P      00 53.00  -0.7
       0.9s      1.60nm          3.1mb
     S.D. = 1.1  on  45 of  57 obs.
-----------------------------------------
*  JUL  13, 1991  18h 29m 19.41± 0.94s
   38.642 N ±10.6km   73.072 E ±14.9km
   DEPTH =  33.0km  (normol)
   4.5mb (  3 obs.)
 TAJIK-XINJIANG BORDER REGION         (719)

QUE      9.83 213 eP     31 42.30   0.6
                  eS     33 25.00
NDI     10.51 160 iPc    31 51.60   0.7
       0.4s     29.66nm          5.9mb X
                  iS     33 33.50
MAIO    11.04 262 eP     31 58.00  -0.2
                  eS     33 54.00
GBA     25.24 170 Pd     34 42.40  -1.5
       0.8s     16.80nm          4.7mb
HFS     42.43 320 eP     37 13.40   1.1
       0.6s      3.40nm          4.3mb
NB2     43.69 322 P      37 21.30  -1.3
       0.6s      5.00nm          4.5mb
YKA     79.02   4 eP     41 21.70   0.6
       0.6s      0.30nm          3.5mb X
     S.D. = 1.3  on   7 of   7 obs.
-----------------------------------------
   JUL  13, 1991  19h 03m 03.57± 0.52s
   45.416 N ± 5.1km   21.002 E ± 5.6km
   DEPTH =  10.0km  (geophysicist)
 ROMANIA                              (358)

TIM      0.36  26 iPd    03 12.00   1.1
BEO      0.71 213 iPgc   03 18.80   1.3
                  iSg    03 32.50
DEV      1.41  70 ePd    03 29.00  -0.3
UZD      2.06 306 ePn    03 39.50   0.9
DRA      2.42 107 ePd    03 52.00   8.2X
BUD      2.48 327 iPn    03 44.60   0.0
PSZ      2.62 343 iPn    03 45.90  -0.8
BMR      2.84  36 iPd    04 06.00  16.3X
CMP      2.85  92 ePd    04 02.00  12.0X
SRO      3.03 323 iPn    03 53.00   0.6
                  i(Sn)  04 31.20
SKO      3.46 175 ePn    03 58.50   0.0
                  i      04 09.00
MLR      3.48  87 eP     04 00.00   1.1
SPC      3.81 352 ePn    04 04.60   0.9
                  i      04 20.50
                  e(Sn)  04 45.20
ZST      3.86 317 i(Pn)d04 04.20   0.0
                  i      04 11.50
                  i      04 51.50
VRI      4.04  82 ePd    04 11.50   4.7X
VBY      4.04 273 e(Pn)  04 21.00  14.2X
                  e      04 23.00
                  eSn    05 20.00
VKA      4.30 313 ePn    04 09.50  -0.9
                  i      04 21.00
                  e      04 54.00
KRA      4.70 352 ePd    04 15.80  -0.3
                  e      04 19.00
KHC      6.27 309 Pn     04 37.00  -1.4
KSP      6.28 332 ePn    04 37.10  -1.3
KGT      6.78 135 ePn    04 43.80  -1.7
GRF      7.88 306 eP     05 02.00   1.1
     S.D. = 1.1  on  17 of  22 obs.
-----------------------------------------
*  JUL  13, 1991  19h 40m 53.33± 2.43s
   41.867 N ±17.1km  125.796 W ±13.1km
   DEPTH =  10.0km  (geophysicist)
   3.9mb (  2 obs.)
 OFF COAST OF NORTHERN CALIFORNIA( 34)

DBO      2.27  56 Pd     41 31.82   0.4
                  S      42 00.62
HSO      2.59  49 Pd     41 36.21   0.1
                  S      42 07.50
HBO      3.23  51 Pc     41 45.89   0.7
KMOR     4.12  23 P      41 57.70   0.0
                  S      42 41.76
PGO      4.34  33 P      42 01.13   0.3
VBEM     4.42  42 P      42 02.11   0.0
TDH      4.49  39 P      42 02.90  -0.2
VLMM     4.57  35 P      42 04.32   0.2
                  S      42 54.46
VIPM     4.61  53 P      42 05.04   0.1
CROR     4.69  47 P      42 05.56  -0.3
RVW      4.81  26 P      42 08.00   0.4
                  S      42 59.63
LVP      4.86  29 P      42 07.93  -0.4
                  S      42 59.39
MTMW     4.90  31 Pd     42 08.21  -0.6
                  S      43 00.05
SHW      5.03  29 P      42 10.69   0.0
HSR      5.03  30 P      42 10.65  -0.1
VTHM     5.05  47 P      42 10.74  -0.1
                  S      43 09.53
REMW     5.05  30 P      42 11.50   0.4
ESD      5.06  30 P      42 11.18   0.0
SOSW     5.10  30 P      42 11.46  -0.2
TDL      5.17  29 P      42 12.57  -0.1
ASR      5.25  34 P      42 13.35  -0.4
KOSW     5.27  28 P      42 14.07   0.0
                  S      43 11.46
LMW      5.42  26 P      42 16.62   0.4
GL2      5.44  40 P      42 16.46  -0.1
WPW      5.71  31 P      42 19.78  -0.5
                  S      43 21.71
MEW      5.79  22 P      42 22.61   1.4
GSM      6.05  27 P      42 25.10   0.0
RSW      6.36  43 P      42 28.74  -0.7
MJ2      6.58  42 P      42 32.22  -0.3
FFC     20.28  43 eP     45 32.00   0.4
       0.9s      9.00nm          4.1mb
YKA     21.71  14 eP     45 45.60  -0.5
       1.1s      4.20nm          3.8mb
     S.D. = 0.4  on  31 of  31 obs.
-----------------------------------------
?  JUL  13, 1991  19h 49m 17.24± 3.43s
   42.294 N ±25.0km  125.645 W ±17.2km
   DEPTH =  10.0km  (geophysicist)
   3.2mb (  1 obs.)
 OFF COAST OF OREGON                  ( 30)

KMOR     3.69  24 Pc     50 15.70   0.2
                  S      51 01.69
PGO      3.92  35 P      50 19.76   1.0
TDH      4.09  42 P      50 21.66   0.3
VLMM     4.16  38 P      50 22.71   0.5
                  S      51 15.13
VIPM     4.28  57 P      50 23.24  -0.8
LVP      4.43  31 P      50 26.02  -0.1
                  S      51 20.42
MTMW     4.47  32 P      50 26.38  -0.3
                  S      51 20.17
BMW      4.53  22 P      50 27.01  -0.4
SOSW     4.68  31 P      50 29.53  -0.1
VTHM     4.68  50 P      50 30.04   0.4
TDL      4.74  30 P      50 30.69   0.1
                  S      51 27.06
ASR      4.83  36 P      50 31.70  -0.1
KOSW     4.85  30 P      50 32.08   0.1
LMW      4.99  28 P      50 34.58   0.6
GLK      5.16  33 P      50 36.37   0.0
LON      5.23  30 P      50 37.23  -0.2
WPW      5.29  32 P      50 37.87  -0.4
FMW      5.44  30 P      50 40.53   0.1
GSM      5.62  28 P      50 43.10   0.1
EBG      5.87  36 P      50 39.86  -6.5X
JCW      6.46  23 P      50 54.14  -0.5
RPW      6.81  24 P      50 59.08  -0.5
YKA     21.26  14 eP     54 05.80   0.2
       0.9s      1.00nm          3.2mb
     S.D. = 0.4  on  22 of  23 obs.
-----------------------------------------
%  JUL  13, 1991  19h 51m 23.72± 0.80s
   43.134 N ± 9.2km   17.945 E ± 5.5km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                           (383)
      ML 2.2 (TTG).
```

13d 19h

```
BRY      0.50 118 iPgc  51 33.43  -0.4
                  iSg   51 41.56
HCY      0.80 149 iPgc  51 38.60  -0.6
                  iSg   51 51.51
NKY      0.84 112 iPgd  51 39.55  -0.4
                  iSg   51 52.71
BDV      1.07 142 iPgd  51 43.81  -0.1
                  iSg   52 00.23
PLE      1.08  79 iPgd  51 43.55  -0.5
                  iSg   52 00.38
HVAR     1.10 273 iPg   51 44.20  -0.1
                  iSg   51 59.50
TTG      1.20 126 iPgd  51 46.38   0.4
                  iSg   52 04.90
IVA      1.46 100 iPgc  51 50.70   0.6
                  iSg   52 12.25
ULC      1.52 140 iPgd  51 51.53   0.6
                  iSg   52 13.83
PVY      1.59 109 iPnd  51 52.60   0.6
                  iSn   52 15.51
     S.D. = 0.6  on  10 of  10 obs.
-----------------------------------
?  JUL  13, 1991  20h 25m 39.09± 4.56s
   42.376 N ±32.9km  125.317 W ±22.6km
   DEPTH =  10.0km  (geophysicist)
   3.2mb (  1 obs.)
 OFF COAST OF OREGON                ( 30)

TDH      3.87  40 P     26 41.76   1.7
VIPM     4.03  56 P     26 41.90  -0.4
RVW      4.20  25 P     26 44.71   0.1
LVP      4.24  29 P     26 44.55  -0.7
MTMW     4.28  30 P     26 44.86  -0.9
BMW      4.36  19 P     26 46.55  -0.4
JLK      4.40  30 P     26 46.68  -0.8
HSR      4.41  30 P     26 49.00   1.2
CDFW     4.42  31 P     26 46.95  -0.7
VTHM     4.44  49 P     26 47.97  -0.1
GULW     4.44  36 P     26 49.62   1.5
STD      4.45  29 P     26 48.48   0.2
ERK      4.47  27 P     26 48.92   0.4
TDL      4.55  28 P     26 49.53  -0.2
ASR      4.63  34 P     26 50.68  -0.1
KOSW     4.66  28 P     26 48.23  -2.9X
LMW      4.81  26 P     26 53.30   0.0
CPW      4.85  18 P     26 55.23   1.3
GLK      4.96  31 P     26 54.84  -0.6
LON      5.04  29 P     26 55.98  -0.5
WPW      5.09  31 P     26 56.93  -0.4
GHW      5.14  24 P     26 57.83  -0.1
FMW      5.24  28 P     26 59.18  -0.4
YKA     21.13  14 eP    30 26.00   0.0
      1.0s     1.20nm          3.2mb
     S.D. = 0.8  on  23 of  24 obs.
-----------------------------------
?  JUL  13, 1991  20h 32m 23.18± 0.87s
   44.440 N ± 7.4km    7.250 E ±13.0km
   DEPTH =   5.0km  (geophysicist)
 NORTHERN ITALY                     (545)
     ML 1.6 (GEN).

PZZ      0.12 301 P     32 25.90   0.0
                  S     32 27.65
STV      0.20 165 P     32 27.34   0.0
                  S     32 30.11
ENR      0.25 150 P     32 28.23   0.0
BHB      0.40   1 P     32 31.25   0.0
                  S     32 36.74
     S.D. = 0.0  on   4 of   4 obs.
-----------------------------------
%  JUL  13, 1991  21h 44m 29.59± 0.78s
   44.787 N ± 6.2km    7.638 E ± 6.0km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                     (545)
     ML 2.2 (GEN).

BHB      0.27 282 P     44 36.69   1.4
                  S     44 41.51
RSP      0.45 324 P     44 38.13  -0.7
                  S     44 44.90
PZZ      0.48 234 P     44 38.95  -0.3
                  S     44 45.20
ROB      0.52 161 P     44 41.10   1.0
                  S     44 48.69
ENR      0.58 196 P     44 41.10  -0.3
                  S     44 49.10
STV      0.59 203 P     44 40.80  -0.7
                  S     44 48.38
PCP      0.69 110 P     44 43.36   0.0
                  S     44 53.10
FIN      0.71 145 P     44 43.46  -0.1
                  S     44 52.89
IMI      0.90 168 P     44 46.74  -0.1
                  S     44 58.53
     S.D. = 0.8  on   9 of   9 obs.
-----------------------------------
   JUL  13, 1991  22h 50m 41.66± 1.28s
   43.952 N ± 6.6km    8.794 E ±10.5km
   DEPTH =  10.0km  (geophysicist)
 CORSICA                            (380)
     ML 2.5 (LDG), 2.5 (GEN).

FIN      0.49 302 P     50 51.65   0.0
                  S     50 57.38
CKI      0.60 322 P     50 54.00   0.2
                  eSg   51 01.50
PCP      0.62 343 P     50 54.32   0.2
                  S     51 01.89
IMI      0.65 267 P     50 55.14   0.4
                  S     51 03.12
ROB      0.75 298 P     50 56.16  -0.2
                  S     51 04.66
SBF      0.99 265 Pn    51 01.20   0.8
                  Pg    51 15.00
ENR      1.03 286 P     51 01.69   0.6
                  S     51 13.07
STV      1.10 286 P     51 03.03   0.7
                  S     51 14.81
DOI      1.24 297 P     51 05.50   0.7
PZZ      1.34 295 P     51 06.92   0.5
                  S     51 21.68
PGF      1.41 174 Pn    51 08.40   0.9
                  Pg    51 25.20
BHB      1.41 310 P     51 08.46   1.0
                  S     51 24.04
FRF      1.60 257 Pn    51 08.40  -1.7
                  Pg    51 28.00
LMR      1.77 250 Pn    51 11.20  -1.3
                  Pg    51 32.00
LRG      1.83 255 Pn    51 13.20  -0.2
                  Pg    51 34.80
LPL      2.15 318 Pn    51 15.60  -2.6
     S.D. = 1.1  on  16 of  16 obs.
-----------------------------------
?  JUL  13, 1991  23h 31m 29.15± 1.01s
   48.635 N ±31.0km  155.010 E ±26.4km
   DEPTH =  33.0km  (normal)
   4.1mb (  4 obs.)
 KURIL ISLANDS                      (221)

KUSJ     9.07 236 P     33 39.70  -0.9
                  eS    35 18.80
ASAJ     9.67 247 P     33 54.00   5.1X
HOOJ    10.33 237 eP    33 58.30   0.3
                  eS    35 49.70
MRRJ    11.57 243 P     34 19.80   4.9X
MAT     17.25 232 eP    35 29.00   0.0
      0.8s     5.97nm          3.8mb
YKA     48.65  38 eP    40 11.00  -0.3
      0.8s     0.80nm          3.8mb
CHG     53.80 257 eP    40 51.40   0.7
      1.0s    13.00nm          4.9mb
WRA     70.72 201 P     42 44.00   0.3
      0.7s     2.20nm          4.3mb
     S.D. = 0.7  on   6 of   8 obs.
-----------------------------------
%  JUL  13, 1991  23h 41m 02.57± 1.92s
   45.110 N ±14.6km    2.954 E ±14.2km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                             (538)
     ML 2.6 (LDG).

CAF      0.66 254 Pg    41 14.40  -1.3
                  Sg    41 25.00
RJF      1.04 281 Pn    41 21.80  -0.3
                  Pg    41 22.80
                  Sg    41 35.00
MAF      1.14 346 Pn    41 24.20   0.2
                  Sg    41 39.30
TCF      1.29 336 Pg    41 27.40   0.9
                  Sg    41 43.60
LPO      1.33 252 Pg    41 27.60   0.5
                  Sg    41 44.00
BGF      1.45 357 Pn    41 28.00  -0.8
                  Pg    41 29.60
                  Sg    41 47.60
LSF      1.52 319 Pn    41 29.20  -0.6
                  Pg    41 31.60
                  Sg    41 49.20
LFF      1.58 265 Pg    41 32.00   1.4
                  Sg    41 51.80
SMF      1.66  22 Pn    41 30.40  -1.4
                  Pg    41 32.80
                  Sg    41 54.00
AVF      1.70   9 Pn    41 31.60  -0.9
                  Pg    41 34.00
                  Sg    41 56.00
SSF      1.99  11 Pg    41 39.80   3.2X
                  Sg    42 04.70
LBF      2.01  20 Pg    41 39.20   2.3
                  Sg    42 04.20
LOR      2.25  16 Pg    41 44.40   4.0X
                  Sg    42 12.60
EPF      2.81 223 Pg    41 55.00   6.7X
                  Sg    42 30.00
     S.D. = 1.3  on  11 of  14 obs.
-----------------------------------
?  JUL  14, 1991  00h 45m 46.83± 4.95s
   15.055 N ±52.8km   95.106 W ±16.8km
   DEPTH =  33.0km  (normal)
   3.4mb (  1 obs.)
 NEAR COAST OF OAXACA, MEXICO       ( 66)

PBJ      1.40 348 iP    46 09.00  -1.3
                  iS    46 26.00
OXX      2.55 323 eP    46 26.00  -0.9
                  iS    46 55.00
SCX      2.91  55 eP    46 32.50   0.7
                  iS    47 10.50
IISM     4.47 331 eP    46 55.50   1.4
                  (S)   47 43.50
PPM      5.22 320 eP    47 06.50   1.3
                  iS    48 01.50
YKA     49.35 348 eP    54 33.50  -1.2
      0.8s     0.30nm          3.4mb
     S.D. = 1.7  on   6 of   6 obs.
-----------------------------------
%  JUL  14, 1991  00h 56m 31.70± 0.87s
   40.722 N ± 8.9km   22.050 E ± 6.4km
   DEPTH =  10.0km  (geophysicist)
 GREECE                             (364)

GRG      0.35  49 ePc   56 38.96  -0.1
                  eS    56 44.92
FNA      0.52 277 ePc   56 42.28   0.1
                  eS    56 50.52
LIT      0.71 151 iPc   56 45.37  -0.3
                  eS    56 55.16
KNT      0.78  55 ePc   56 46.36  -0.5
                  eS    56 57.72
SOH      1.00  84 ePd   56 51.36   0.8
                  eS    57 04.32
     S.D. = 0.7  on   5 of   5 obs.
-----------------------------------
&  JUL  14, 1991  01h 18m 17.41s
   47.234 N          121.944 W
   DEPTH =  17.0km
 WASHINGTON                         ( 29)
     <SEA>. ML 2.7 (SEA).

GSM      0.11 107 Pc    18 21.12  -0.1
RMW      0.24  23 Pd    18 22.78  -0.4
GHW      0.30 229 Pd    18 23.44  -0.5
                  S     18 28.65
FMW      0.36 148 Pc    18 24.28  -0.8
                  S     18 29.41
SPW      0.38 327 P     18 25.59   0.3
                  S     18 31.18
MEW      0.48 266 P     18 27.20   0.2
LON      0.49 169 Pd    18 26.34  -1.0
                  S     18 33.03
HTW      0.58  12 Pd    18 27.97  -0.8
WPW      0.60 153 Pc    18 28.33  -0.9
BLH      0.61 354 P     18 28.42  -0.7
LMW      0.61 203 Pd    18 28.56  -0.8
GMW      0.65 299 Pc    18 29.28  -0.7
GLK      0.71 161 Pd    18 30.45  -0.6
PGW      0.74 323 P     18 31.19  -0.2
TWW      0.74  97 P     18 31.18  -0.4
KOSW     0.79 192 Pd    18 31.35  -1.0
CPW      0.86 253 Pc    18 32.77  -0.7
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HDW      0.86 299 Pc     18 32.64   -0.9
CZM      0.89 206 P      18 33.11   -0.9
TDL      0.90 192 P      18 33.05   -1.3
NAC      0.91 123 P      18 33.63   -0.8
TBM      0.92  94 P      18 33.99   -0.6
SMW      0.96 276 Pc     18 34.66   -0.5
JCW      0.96   1 Pd     18 34.20   -1.0
ERK      0.97 197 P      18 34.11   -1.3
EBG      0.99 109 P      18 35.22   -0.6
SOSW     1.01 188 P      18 34.67   -1.4
STD      1.01 191 Pc     18 35.10   -1.1
BLN      1.04 318 Pc     18 35.38   -1.2
ESD      1.05 188 Pc     18 35.85   -1.0
REMW     1.05 189 P      18 35.93   -1.0
SHW      1.06 191 P      18 35.88   -1.2
HSR      1.07 189 P      18 36.15   -1.2
FL2      1.07 195 P      18 35.92   -1.4
JLK      1.10 188 P      18 36.36   -1.3
ASR      1.11 167 Pd     18 36.83   -1.0
CDFW     1.12 184 P      18 36.69   -1.3
ETW      1.16  71 P      18 37.95   -0.8
BMW      1.16 230 Pd     18 37.48   -1.3
CMW      1.20 354 P      18 38.58   -0.7
YAKW     1.20 126 P      18 38.72   -0.7
LVP      1.21 196 P      18 38.38   -1.2
RVW      1.22 207 P      18 38.11   -1.5
MTMW     1.22 189 P      18 38.52   -1.2
RPW      1.25  13 Pd     18 39.13   -1.0
MXC      1.31 120 Pc     18 40.20   -0.7
OSD      1.33 297 Pc     18 40.77   -0.6
GULW     1.33 169 P      18 40.64   -0.7
VTG      1.37 101 P      18 41.12   -0.5
NLW      1.38  52 P      18 41.73   -0.2
CBSW     1.41  65 P      18 41.90   -0.5
WTV      1.43  70 P      18 42.76    0.2
STW      1.48 309 P      18 44.46    1.1
GL2      1.49 148 P      18 44.99    1.5
BRVW     1.53 118 P      18 43.97   -0.2
MBW      1.55   1 P      18 44.22   -0.3
MCW      1.57 338 Pd     18 44.25   -0.3
OOW      1.60 289 P      18 46.42    1.3
MDW      1.62 112 P      18 45.02   -0.3
VLMM     1.70 182 P      18 46.75    0.2
WAH2     1.70 105 P      18 46.42    0.0
VLL      1.78 174 P      18 48.18    0.4
CRF      1.80 102 P      18 47.49   -0.4
RSW      1.82 117 P      18 47.51   -0.9
KMOR     1.92 214 Pd     18 49.34   -0.5
        65 obs. ossocioted
-----------------------------------------
*  JUL  14, 1991  01h 32m 18.07± 0.85s
    7.484 S ±13.6km  129.267 E ±20.0km
   DEPTH =  33.0km  (normol)
   4.9mb (  5 obs.)
 BANDA SEA                          (280)

MTN      5.64 161 eP     33 43.50    1.7
KNA      8.23 183 eP     34 18.50    0.3
        0.3s    21.00nm          5.7mb
                 eS     35 46.00
WR2     13.34 159 eP     35 25.30   -2.4
                 eS     37 44.30
QIS     16.40 143 eP     36 05.00   -2.5
                 i      36 11.70
                 i      38 55.00
ASPA    16.69 165 eP     36 10.30   -0.9
        0.4s    16.10nm          4.5mb
                 eS     39 04.70
WARB    18.76 187 eP     36 37.00    0.1
                 eS     39 51.00
CTAO    20.69 129 iPd    36 58.20    0.1
        1.0s    30.00nm          4.6mb
                 ipP    37 09.00   44kmX
                 e      37 35.00
QLP     23.74 145 iPc    37 30.60    2.4
        0.7s   136.00nm          5.6mb
STK     26.86 156 eP     37 58.20    0.5
        0.4s     3.20nm          4.3mb
                 eS     43 17.90
CAN     33.10 150 eP     38 54.60    1.4
GUN     54.73 312 P      41 47.20   -0.1
PKI     54.89 311 P      41 48.00   -0.5
KKN     55.10 311 P      41 49.80   -0.1
GKN     55.70 311 P      41 54.00   -0.1
CNCB   150.44 145 PKP    52 11.20    7.2X
LPB    150.60 144 PKP    52 13.00    9.0X
      S.D. = 1.5  on  14 of  16 obs.
-----------------------------------------
?  JUL  14, 1991  01h 50m 31.34± 4.27s
    42.221 N ±30.5km  125.740 W ±21.3km
   DEPTH =  10.0km  (geophysicist)
   3.3mb (  1 obs.)
 OFF COAST OF OREGON                ( 30)

TDH      4.19  42 P      51 37.84    0.9
VLMM     4.26  38 P      51 37.68   -0.1
VIPM     4.38  57 P      51 38.65   -0.9
CROR     4.42  50 P      51 42.37    2.3
RVW      4.48  28 P      51 41.44    0.7
LVP      4.53  31 P      51 41.70    0.1
MTMW     4.57  33 P      51 41.48   -0.7
BMW      4.62  22 P      51 42.43   -0.4
FL2      4.66  30 P      51 43.76    0.2
CDFW     4.71  33 P      51 43.62   -0.6
STD      4.74  31 P      51 44.99    0.3
ERK      4.76  30 P      51 45.88    1.0
VTHM     4.78  50 P      51 45.03   -0.1
TDL      4.84  30 P      51 46.10    0.0
VGB      4.87  46 P      51 45.13   -1.3
ASR      4.93  36 P      51 46.97   -0.4
KOSW     4.94  30 P      51 47.80    0.4
LMW      5.09  28 P      51 49.90    0.4
GLK      5.25  33 P      51 51.36   -0.5
LON      5.33  30 P      51 52.41   -0.5
JBO      5.36  51 P      51 48.41   -4.9X
WPW      5.39  32 P      51 53.01   -0.8
FMW      5.53  30 P      51 55.72   -0.2
GSM      5.72  28 P      51 58.44    0.0
MXC      5.85  40 P      51 50.14  -10.0X
RMW      5.94  27 P      52 01.88    0.4
JCW      6.55  23 P      52 09.86   -0.2
YKA     21.35  14 eP     55 20.60    0.1
        1.1s     1.50nm          3.3mb
      S.D. = 0.8  on  26 of  28 obs.
-----------------------------------------
*  JUL  14, 1991  01h 52m 42.33± 1.04s
    15.008 N ± 9.7km  120.390 E ±24.6km
   DEPTH =  10.0km  (geophysicist)
   4.7mb (  1 obs.)
 LUZON, PHILIPPINE ISLANDS          (249)

PGP      1.59 160 ePd    53 11.00    0.4
                 eS     53 30.00
SZP      2.53   1 iPd    53 26.00    1.9
CVP      3.01  27 eP     53 31.00    0.1
PIP      3.31   4 iPd    53 34.00   -1.2
BJI     25.21 352 eP     58 09.50   -0.2
LZH     25.68 328 eP     58 14.50    0.2
        1.6s    29.00nm          4.7mb
                 sP     58 30.00
MBC     82.34  12 eP     05 04.00   -1.2
      S.D. = 1.3  on   7 of   7 obs.
-----------------------------------------
*  JUL  14, 1991  01h 56m 09.06± 1.63s
    16.535 N ±18.8km  101.170 W ± 9.0km
   DEPTH =  33.0km  (normal)
   3.8mb (  1 obs.)
 NEAR COAST OF GUERRERO, MEXICO     ( 58)

ACX      1.30  75 iP     56 31.50    0.5
                 iS     56 45.50
III      2.45  41 iP     56 48.50    0.7
                 iS     57 15.00
MRX      3.15 360 iP     57 03.50    6.0X
                 iS     57 42.00
TAC      3.42  33 (P)    57 16.00   14.4X
PPM      3.49  44 iP     57 02.50   -0.4
                 iS     57 37.00
IIT      3.68  47 iP     57 04.50   -0.8
OXX      4.29  82 iP     57 14.50    0.5
IISM     4.36  55 eP     57 14.00   -0.7
PBJ      5.53  90 iP     57 31.50    0.2
ANMO    18.94 347 P      00 32.00    1.9
TNP     25.69 330 P      01 38.80    0.7
BW06    27.12 346 (P)    01 50.00   -1.2
YKA     46.87 351 eP     04 37.30   -0.4
        0.8s     0.80nm          3.8mb
INK     55.68 346 eP     05 43.00   -1.1
      S.D. = 1.0  on  12 of  14 obs.
-----------------------------------------
?  JUL  14, 1991  02h 20m 34.82± 3.35s
    42.131 N ±23.6km  125.857 W ±15.9km
   DEPTH =  10.0km  (geophysicist)
   3.5mb (  1 obs.)
 OFF COAST OF OREGON                ( 30)

NLO      4.32  23 P      21 42.77    0.7
TDH      4.32  42 P      21 44.04    1.9
VLMM     4.39  38 P      21 42.97   -0.1
                 S      22 31.70
VLL      4.50  41 P      21 44.05   -0.6
VIPM     4.50  56 P      21 43.92   -0.8
RVW      4.60  28 P      21 46.69    0.7
LVP      4.65  31 P      21 46.71   -0.2
MTMW     4.70  33 P      21 46.79   -0.7
                 S      22 38.24
BMW      4.74  23 P      21 47.64   -0.4
FL2      4.78  31 P      21 48.92    0.2
JLK      4.82  32 P      21 48.71   -0.5
SHW      4.82  31 P      21 49.32    0.0
CDFW     4.84  33 P      21 49.04   -0.4
ESD      4.86  32 P      21 50.61    0.7
STD      4.87  31 P      21 49.66   -0.2
SOSW     4.90  32 P      21 49.97   -0.4
VTHM     4.91  50 P      21 50.81    0.4
                 S      22 46.33
TDL      4.96  31 P      21 51.24    0.0
VGB      5.00  46 P      21 46.77   -4.9X
ASR      5.06  36 P      21 52.27   -0.3
KOSW     5.07  30 P      21 52.63    0.0
LMW      5.21  28 P      21 55.26    0.6
CPW      5.22  21 P      21 54.35   -0.4
GL2      5.27  42 P      21 56.07    0.4
GLK      5.38  33 P      21 56.61   -0.5
LON      5.45  31 P      21 57.83   -0.3
JBO      5.48  51 P      21 58.80    0.2
SMW      5.49  18 P      21 58.66    0.0
WPW      5.51  33 P      21 58.15   -0.9
GHW      5.54  26 P      21 59.73    0.5
FMW      5.66  31 P      22 01.06    0.0
GSM      5.84  28 P      22 03.67    0.1
HDW      5.87  19 P      22 03.63   -0.3
RMW      6.06  27 P      22 07.12    0.5
JCW      6.67  23 P      22 15.13   -0.1
CMW      6.82  21 P      22 17.69    0.3
RPW      7.02  24 P      22 19.79   -0.4
YKA     21.46  14 eP     25 25.20    0.1
        0.9s     2.00nm          3.5mb
      S.D. = 0.5  on  37 of  38 obs.
-----------------------------------------
?  JUL  14, 1991  02h 29m 26.31± 8.20s
    41.989 N ±53.1km  125.704 W ±38.5km
   DEPTH =  10.0km  (geophysicist)
 OFF COAST OF NORTHERN CALIFORNIA( 34)

TCO      3.68  53 Pc     30 25.14    0.5
KMOR     3.98  23 P      30 28.58   -0.2
                 S      31 11.88
GT2      4.03  37 P      30 29.10   -0.3
                 S      31 16.93
PGO      4.20  33 P      30 32.33    0.6
GMO      4.25  53 P      30 32.64    0.0
TDH      4.35  39 P      30 33.99   -0.2
NLO      4.41  21 P      30 35.16    0.3
VLMM     4.43  36 P      30 35.47    0.3
VIPM     4.49  54 P      30 36.15    0.1
VFP      4.53  41 P      30 37.00    0.3
VLL      4.54  39 P      30 37.02    0.4
CROR     4.55  47 P      30 36.62   -0.3
RVW      4.67  26 P      30 39.21    0.6
LVP      4.72  29 P      30 39.12   -0.2
APM      4.74  36 P      30 40.07    0.5
MTMW     4.76  31 P      30 38.96   -0.9
                 S      31 30.35
BMW      4.82  21 P      30 40.32   -0.4
                 S      31 32.09
FL2      4.85  29 P      30 41.02   -0.1
JLK      4.88  30 P      30 41.23   -0.3
SHW      4.89  30 P      30 41.99    0.3
HSR      4.89  30 P      30 41.61   -0.2
CDFW     4.90  31 P      30 41.23   -0.5
REMW     4.91  30 P      30 42.07   -0.1
VTHM     4.91  48 P      30 41.89   -0.1
ESD      4.92  30 P      30 42.20    0.0
GULW     4.93  36 P      30 42.94    0.7
STD      4.93  29 P      30 42.18   -0.1
SOSW     4.96  30 P      30 42.62   -0.1
CZM      5.00  26 P      30 43.63    0.4
VGB      5.02  44 P      30 43.35   -0.1
TDL      5.03  29 P      30 43.85    0.2
                 S      31 39.49
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14d 02h

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ASR      5.11  34 P      30 44.50  -0.3
                 S      31 41.49
KOSW     5.13  28 P      30 45.17   0.1
LMW      5.28  26 P      30 47.89   0.7
GL2      5.31  40 P      30 47.13  -0.4
GLK      5.44  31 P      30 49.21  -0.2
JBO      5.49  49 P      30 50.28   0.2
LON      5.52  29 P      30 50.22  -0.3
WPW      5.57  31 P      30 50.97  -0.4
GHW      5.62  25 P      30 52.26   0.4
FMW      5.72  29 P      30 53.53   0.0
PATW     5.79  46 P      30 55.09   0.8
GSM      5.91  27 P      30 56.24   0.1
HDW      5.96  18 P      30 56.71  -0.1
PRW      6.05  44 P      30 58.26   0.3
RMW      6.13  26 P      30 59.74   0.6
EBG      6.14  35 P      30 58.83  -0.4
RSW      6.22  43 P      30 59.92  -0.5
WIW      6.40  44 P      31 02.45  -0.5
LOCW     6.52  41 P      31 03.42  -1.2
ET3      6.68  44 P      31 06.51  -0.3
RC1      6.68  40 P      31 06.99   0.1
JCW      6.75  22 P      31 07.27  -0.6
ETW      6.79  32 P      31 08.04  -0.5
RPW      7.10  23 P      31 12.47  -0.3
MBW      7.30  20 P      31 15.58  -0.1
DHW2     7.32  33 P      31 15.58  -0.3
     S.D. = 0.4  on  57 of  57 obs.
-----------------------------------
*  JUL  14, 1991  02h 58m 37.73± 1.18s
   36.579 N ±15.9km    1.677 E ± 6.6km
   DEPTH =  10.0km  (geophysicist)
 ALGERIA                            (396)
      mbLg 3.0 (MDD).

ABA      1.11  78 iPg    58 59.00   0.4
                  iSg    59 15.00
ENIJ     3.14 278 ePn    59 27.50  -0.7
                  eSn    00 05.00
ESEL     3.33  16 ePn    59 30.00  -0.8
                  eSn    00 10.00
EHUE     3.62 291 eP     59 37.00   1.8
                  eS     00 19.00
ECHE     3.66 326 ePn    59 36.00   0.4
                  eSn    00 18.30
EVIA     3.90 303 ePn    59 39.00  -0.1
                  eSn    00 25.00
EGUA     4.22 275 ePn    59 42.80  -0.7
                  eSn    00 32.00
AFC      4.24 281 ePn    59 44.00   0.1
                  eSn    00 31.50
ECOG     4.26 281 ePn    59 44.00  -0.2
     S.D. = 0.9  on   9 of   9 obs.
-----------------------------------
?  JUL  14, 1991  03h 20m 08.95± 3.47s
    5.637 S ±36.4km  146.422 E ±39.2km
   DEPTH = 145.4 ± 18.7 km
   4.5mb (  1 obs.)
 EAST PAPUA NEW GUINEA REGION       (207)

MDG      0.75 301 iPd    20 30.80  -0.7
YYYY     0.75 217 iPd    20 32.40   0.7
LAT      1.16 150 iPd    20 35.90   0.9
                  eS     20 59.40
PMG      3.82 169 eP     21 06.00  -1.4
WR2     18.44 218 iPc    24 15.60  -0.5
ASPA    21.60 213 iPd    24 49.30   1.0
        0.4s      8.10nm          4.5mb
     S.D. = 1.5  on   6 of   6 obs.
-----------------------------------
*  JUL  14, 1991  04h 05m 06.37± 0.91s
   17.283 S ±11.6km  168.488 E ±14.3km
   DEPTH = 228.5 ±  7.4 km
   4.9mb (  4 obs.)
 VANUATU ISLANDS                    (186)

BKM      0.45 211 iPc    05 37.50  -0.3
PVC      0.48 200 iPd    05 37.50  -0.4
                  iS     06 02.50
DZM      5.14 202 iPd    06 25.40   1.5
                  iS     07 30.10
RMQ     20.45 240 eP     09 30.00   2.3
PUZ     22.42 159 P      09 46.40  -0.3
NGZ     22.68 166 P      09 50.70   1.3
NOZ     22.84 160 P      09 50.80   0.1
MNG     24.03 167 P      10 00.70  -1.3
        0.4s     24.00nm          5.1mb
LTZ     25.62 174 P      10 15.70  -0.9
STK     28.35 234 iPc    10 41.00  -0.3
        0.6s     11.80nm          4.7mb
ASPA    32.96 253 iPc    11 19.90  -1.8
        0.6s     56.80nm          5.4mb
FORR    39.06 242 eP     12 12.00  -0.8
WARB    39.73 250 iPd    12 17.80  -0.6
SPA     72.83 180 iPc    16 11.10  -0.5
        0.8s     12.50nm          4.7mb
APO    133.09 343 ePKP   23 53.00  -2.8
        0.4s      0.60nm
CDF    145.37 338 ePKP   24 16.40  -2.1
        0.4s      5.15nm
BSF    146.03 338 ePKP   24 18.20  -1.4
HAU    146.04 338 ePKP   24 18.40  -1.1
FLN    147.34 346 ePKP   24 21.40  -0.1
        1.1s     19.55nm
LOR    147.52 340 ePKP   24 22.40   0.5
        0.6s      4.95nm
LBF    147.73 340 ePKP   24 23.20   0.9
        0.8s      2.70nm
GRR    147.78 347 ePKP   24 22.80   0.6
        1.4s     39.20nm
SSF    147.82 341 ePKP   24 23.40   1.0
        0.6s      4.05nm
LPL    147.99 335 ePKP   24 27.40   4.4X
LPG    148.00 335 ePKP   24 27.50   4.4X
        0.8s      4.70nm
LPF    148.16 347 ePKP   24 24.10   1.3
        1.6s     68.40nm
BGF    148.47 341 ePKP   24 24.80   1.4
        0.6s      5.40nm
LSF    149.15 342 ePKP   24 26.20   1.7
        0.6s      2.25nm
MFF    149.28 345 ePKP   24 26.80   2.1
     S.D. = 1.4  on  27 of  29 obs.
-----------------------------------
*  JUL  14, 1991  04h 15m 25.14± 0.90s
   42.917 N ±11.8km  147.053 E ±11.4km
   DEPTH =  33.0km  (normal)
   4.0mb (  4 obs.)
 OFF COAST OF HOKKAIDO, JAPAN       (225)

KUSJ     1.73 277 P      15 51.50  -1.8
                  eS     16 10.70
HOOJ     2.83 260 eP     16 11.00   2.1
                  eS     16 43.30
ASAJ     3.43 292 P      16 18.20   0.7
MRRJ     4.44 266 eP     16 32.60   0.7
                  eS     17 22.30
AOMJ     5.52 247 eP     16 49.60   2.4
                  eS     17 48.60
OFUJ     5.59 229 P      16 48.00  -0.2
                  S      17 48.90
YAMJ     7.14 231 P      17 08.60  -1.3
                  S      18 28.40
NIIJ     8.38 230 eP     17 26.70  -0.5
KAKJ     8.55 221 eP     17 27.90  -1.6
                  S      18 57.30
CHJJ     9.26 225 P      17 38.20  -1.2
                  S      19 17.10
MTMJ     9.52 231 eP     17 43.00   0.0
IIDJ    10.26 227 eP     17 53.70   0.5
                  eS     19 45.80
INK     47.16  30 eP     23 56.00   0.3
YKA     56.54  33 eP     25 05.50  -0.7
        0.7s      0.90nm          3.9mb
WRA     63.63 193 P      25 57.00   1.9
        0.6s      1.00nm          4.1mb
TNP     68.97  57 P      26 31.00   1.6
NB2     70.35 339 P      26 28.80  -8.4X
        0.7s      0.60nm          3.8mb
HFS     70.43 337 eP     26 34.80  -2.8
        0.5s      2.30nm          4.5mb
     S.D. = 1.6  on  17 of  18 obs.
-----------------------------------
?  JUL  14, 1991  04h 28m 00.24± 3.35s
   15.509 N ±30.9km   98.271 W ±13.1km
   DEPTH =  33.0km  (normal)
 OFF COAST OF GUERRERO, MEXICO      ( 65)

ACX      2.04 312 eP     28 33.50   0.6
                  eS     28 57.00
OXX      2.16  43 iP     28 33.50  -1.3
                  iS     29 01.00
PBJ      2.91  71 iP     28 45.50   0.3
III      3.07 338 eP     28 46.50  -1.3
                  iS     29 22.00
IIT      3.49 359 eP     28 54.50   0.7
                  iS     29 35.00
PPM      3.55 355 iP     28 54.00  -0.9
                  iS     29 32.50
IISM     3.56  14 eP     28 56.50   2.0
                  iS     29 33.50
TAC      3.97 347 (P)    29 13.00  12.3X
                  (S)    29 48.00
MRX      5.02 327 (P)    29 18.00   2.8X
                  eS     30 11.00
     S.D. = 1.5  on   7 of   9 obs.
-----------------------------------
%  JUL  14, 1991  04h 29m 52.83± 1.41s
   44.207 N ±13.9km   11.546 E ± 5.4km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                     (545)

PGD      0.36 159 P      30 00.50   0.3
                  eSg    30 07.30
SFI      0.36 142 P      29 59.90  -0.4
                  eSg    30 08.20
CRE      0.65 153 P      30 05.50  -0.4
                  eSg    30 17.50
BDI      0.70 258 P      30 06.50  -0.2
                  eSg    30 19.40
RSM      0.71 113 P      30 06.70  -0.1
PII      0.88 237 P      30 10.00   0.2
ARV      1.23 125 P      30 16.20   0.4
                  eSg    30 35.40
ASS      1.39 144 P      30 18.50   0.1
     S.D. = 0.4  on   8 of   8 obs.
-----------------------------------
   JUL  14, 1991  05h 51m 26.00± 0.41s
   33.380 N ± 9.3km   57.211 E ± 4.6km
   DEPTH =  33.0km  (normal)
   4.5mb ( 20 obs.)
 IRAN                               (348)
      ML 4.4 (TEH).

MAIO     3.47  32 iPnd   52 20.00   1.0
        0.8s     25.62nm
                  eSn    53 14.00
TEH      5.35 298 eP     52 46.00   0.2
IR4      5.54 291 eP     52 49.00   0.5
IR1      5.76 292 eP     52 51.50  -0.1
IR5      5.78 290 eP     52 52.50   0.6
IR7      5.92 295 eP     52 54.50   0.7
OBN     26.07 333 ePd    57 01.00   3.0X
        1.2s  *******nm          7.7mb X
                  e      57 29.00
                  e      57 42.00
GBA     26.95 132 Pd     57 08.20   1.8
        1.1s      8.80nm          4.3mb
CLL     36.61 313 eP     58 31.00   0.3
        1.2s     10.00nm          4.6mb
WTTA    36.88 306 e(P)   58 32.00  -1.4
        1.0s      8.00nm          4.5mb
                  i      58 33.20
HFS     38.94 327 eP     58 50.30   0.1
        1.0s     10.50nm          4.6mb
      Z  16s      0.03um          3.2MszX
                  LR     14 13.00
SBF     39.74 300 eP     58 57.40   0.2
        0.7s     11.00nm          4.7mb
CDF     39.90 307 eP     58 57.50  -1.0
CHG     39.91 101 eP     58 57.80  -1.0
        1.0s     20.00nm          4.8mb
CHTO    39.91 101 P      58 57.80  -1.0
LPG     40.19 303 eP     59 00.80  -0.3
        0.8s      6.05nm          4.4mb
BSF     40.19 306 eP     58 59.90  -1.0
LPL     40.20 303 eP     59 00.90  -0.3
        1.0s     10.00nm          4.5mb
NB2     40.42 327 P      58 55.40  -7.1X
        0.9s      3.40nm          4.1mb
HAU     40.50 307 eP     59 02.80  -0.5
L8F     42.10 305 eP     59 16.30  -0.1
LOR     42.17 306 eP     59 16.80  -0.2
        0.9s      4.90nm          4.2mb
SMF     42.20 305 eP     59 17.20   0.0
        0.8s     10.05nm          4.6mb
SSF     42.42 305 eP     59 19.10   0.1
        0.8s      6.05nm          4.4mb
AVF     42.53 305 eP     59 20.00   0.1
        1.0s     11.00nm          4.5mb
MAF     43.09 304 eP     59 24.90   0.3
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        1.0s      9.00nm          4.5mb
TCF     43.34 304 eP     59 26.80   0.3
CAF     43.52 302 eP     59 28.20   0.1
        1.1s     12.20nm          4.6mb
RJF     43.88 303 eP     59 31.30   0.3
        0.8s      6.70nm          4.5mb
LFF     44.46 302 eP     59 35.70   0.1
        0.7s      5.50nm          4.5mb
EKA     46.70 317 P      59 53.00  -0.3
        0.7s      5.70nm          4.7mb
MBC     70.62 359 eP     02 39.50   0.0
        1.1s      6.00nm          4.6mb
INK     78.31   4 eP     03 24.00   0.2
YKA     84.24 356 eP     03 55.20   0.1
        1.0s      1.90nm          4.2mb
      S.D. = 0.6  on  32 of  34 obs.
-----------------------------------------
*  JUL  14, 1991  06h 38m 51.03± 1.17s
   21.486 S ±11.8km   68.086 W ±14.8km
   DEPTH = 130.4 ± 16.4 km
   3.9mb (  1 obs.)
 CHILE-BOLIVIA BORDER REGION      (124)

ANT      3.08 224 eP     39 39.50   0.1
CCH      4.47  25 P      39 59.50   1.2
CNCB     4.65   1 P      40 00.00  -1.0
LPB      4.93 360 P      40 06.00   1.4
                  e      40 45.00
ZOBO     5.19 360 P      40 08.00  -0.2
                  e      41 00.00
ARE      5.95 327 e(P)   40 17.50  -0.8
                  iS     41 10.50
SIV      8.60  52 iPc    40 53.00  -1.0
PPD     15.59  95 eP     42 34.30   9.3X
YKA     91.43 340 eP     51 43.30   0.3
        0.9s      0.80nm          3.9mb
      S.D. = 1.3  on   8 of   9 obs.
-----------------------------------------
?  JUL  14, 1991  07h 20m 40.32± 1.28s
   30.612 S ±11.2km  117.028 E ±11.9km
   DEPTH =  10.0km  (geophysicist)
 WESTERN AUSTRALIA                 (590)

BAL      0.28 271 iPd    20 45.70  -0.4
                  eS     20 49.50
KLB      1.16 147 eP     21 01.70  -0.3
                  eS     21 15.00
MUN      1.53 207 eP     21 08.30   0.6
                  eS     21 27.40
MRWA     1.65 327 eP     21 09.70   0.2
                  eS     21 30.30
      S.D. = 0.8  on   4 of   4 obs.
-----------------------------------------
?  JUL  14, 1991  07h 25m 48.30± 4.36s
   35.087 S ±85.0km  111.019 W ±47.3km
   DEPTH =  20.8km  (  8 depth phases)
   4.9mb (  9 obs.)
 EASTER ISLAND CORDILLERA          (684)

ARE     39.82  73 eP     33 25.00   2.8
CNCB    42.39  76 P      33 43.00  -0.7
LPB     42.45  75 P      33 48.00   4.0X
ZOBO    42.58  75 P      33 44.00  -1.2
        1.5s     25.81nm          4.7mb
                  LR     45 08.00
PPD     53.33  93 eP     35 07.90  -0.5
                  e      35 15.30  24km
PEC     68.86 355 ePc    36 59.10   5.8X
SBB     69.70 354 eP     37 04.00   5.5X
ANMO    69.80   4 eP     36 58.00  -1.2
        1.3s     12.02nm          4.9mb
                  pP     37 04.10  20km
GSC     70.23 355 eP     37 02.00   0.3
ISA     70.73 354 eP     37 04.00  -0.7
CLC     70.80 354 eP     37 06.00   0.8
TUL     72.05  13 ePc    37 15.80   3.3X
        1.4s     36.20nm          5.2mb
TNP     73.03 355 ePc    37 19.60   1.1
        1.2s     14.52nm          4.9mb
                  epP    37 25.80  20km
PV09    73.24   2 eP     37 19.80   0.0
CMB     73.27 352 eP     37 20.50   0.7
        1.0s     15.00nm          5.0mb
                  pP     37 26.50  19km
GOL     74.60   5 ePd    37 26.30  -1.4
        1.2s      5.33nm          4.4mb
                  pP     37 32.90  21km
BW06    77.50   1 ePd    37 42.90  -1.0
        1.5s     22.88nm          5.0mb
                  ipP    37 49.40  21km
RSSD    79.09   5 ePd    37 52.00  -0.6
        1.2s     16.40nm          4.9mb
                  ipP    37 58.80  22km
NEW     83.16 356 ePd    38 15.40   1.7
        1.1s     32.10nm          5.4mb
                  pP     38 21.80  20km
PNT     84.38 354 eP     38 23.00   3.2X
CHG    148.92 246 ePKP   45 51.00  18.6X
IRK    149.61 315 ePKP   45 45.20  12.7X
OBN    150.03  38 ePKP   45 42.00   9.0X
        1.7s  *******nm
                  e      45 48.00
      S.D. = 1.3  on  15 of  23 obs.
-----------------------------------------
%  JUL  14, 1991  08h 21m 10.81± 0.93s
   42.046 N ± 9.5km   20.327 E ± 5.6km
   DEPTH =   9.9 ±  5.2 km
 YUGOSLAVIA                        (383)
      ML 2.4 (TTG).

PVY      0.61 335 iPgc   21 22.41  -0.8
                  iSg    21 31.36
ULC      0.81 264 iPgd   21 26.23  -0.3
                  iSg    21 38.30
SKO      0.83  95 iPg    21 26.80  -0.1
        0.3s     77.00nm
                  iSg    21 39.30
                  Lg     21 41.20
TTG      0.88 296 iPgd   21 27.33  -0.4
                  iSg    21 40.65
IVA      0.88 339 iPgd   21 27.86   0.0
                  iSg    21 40.66
BDV      1.14 283 iPgd   21 31.86  -0.3
                  iSg    21 49.23
NKY      1.25 308 iPgc   21 33.85  -0.2
                  iSg    21 52.16
HCY      1.42 287 iPgc   21 36.88   0.3
                  iSg    21 57.73
PLE      1.46 332 iPgd   21 37.78   0.5
                  iSg    21 58.73
BRY      1.57 304 iPgd   21 39.96   1.0
                  iSg    22 01.95
      S.D. = 0.6  on  10 of  10 obs.
-----------------------------------------
*  JUL  14, 1991  08h 53m 02.03± 1.11s
    8.406 S ±16.0km  124.422 E ±13.0km
   DEPTH =  33.0km  (normal)
   4.7mb (  5 obs.)
 TIMOR                             (289)

KUPT     1.91 205 eP     53 40.00   7.1X
MKS      5.85 302 ePd    54 27.50  -1.3
MTN      7.93 124 iPd    54 57.00  -1.0
KNA      8.44 150 iPd    55 04.20  -0.9
        0.4s     51.00nm          6.0mb X
                  eS     56 39.00
WR2     14.98 141 eP     56 29.00  -4.1X
ASPA    17.68 150 iPd    57 05.50  -2.1
        0.6s     48.50nm          4.8mb
      Z  17s      0.30um          3.8MszX
                  eS     00 07.40
WARB    17.81 173 eP     57 08.50  -0.6
        0.4s      9.00nm          4.3mb
QIS     19.01 131 eP     57 22.00  -1.8
        0.4s     37.00nm          5.0mb
                  eS     00 38.00
MRWA    22.17 200 eP     57 57.40   0.5
PMG     22.48  94 eP     58 00.00   0.0
BAL     23.24 197 eP     58 08.70   1.4
CTAO    24.10 121 iPc    58 17.80   1.9
        1.2s     27.03nm          4.7mb
OLP     26.08 136 iPd    58 36.30   1.7
STK     28.29 148 iPd    58 55.90   1.2
        0.5s      7.20nm          4.6mb
BFD     33.02 153 eP     59 35.00  -1.4
CAN     34.98 144 e(P)   59 56.90   3.5X
CNB     35.19 143 iPc    59 57.50   2.3
CNCB   152.10 154 PKP    12 58.00   7.6X
LPB    152.30 153 PKP    13 05.00  14.5X
ZOBO   152.52 153 PKP    13 02.80  11.8X
      S.D. = 1.6  on  14 of  20 obs.
-----------------------------------------
   JUL  14, 1991  09h 09m 11.91± 0.09s
   36.334 N ± 2.7km   71.119 E ± 1.6km
   DEPTH = 212.9km  (geophysicist)
   6.4mb (101 obs.)
 AFGHANISTAN-USSR BORDER REGION  (717)
      Felt strongly in northern
      Afghanistan and northern
      Pakistan. Felt (V) at Ishkashim,
      Khorog, Kulyab, Murgab, Nurek,
      Rogun and Shaartuz; (IV) at
      Dushanbe, Gissar, Komsomolabad,
      Leninabad, Pendzhikent,
      Samarkand, Tashkent and
      Tursunzade, USSR. Also felt in
      the Chandigarh-Srinagar area,
      India. Depth from broadband
      displacement seismograms.
      FAULT PLANE SOLUTION: P-Waves
       NP1:Strike= 94 Dip=47 Slip=  75
       NP2:       295      45       106
       Principal Axes:
        T                 Plg=79  Azm=290
        P                      1      195
      Comment: The focal mechanism is
        poorly controlled and
        corresponds to reverse
        faulting with a small right-
        lateral strike-slip component.
        The preferred fault plane is
        NP2.
      RADIATED ENERGY
       No. of sta:  10  Focal mech.  C
       Energy        2.4±0.4*10**14 Nm
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 25S, 72C  M.W.: 13S, 29C
      Centroid Location:
      Origin Time        09:09:15.1 0.2
      Lat 36.12N 0.01 Lon  70.74E 0.02
      Dep 228.3 0.7 Half-duration  7.9
      Moment Tensor;   Scale 10**19 Nm
        Mrr= 0.91 0.01  Mtt=-1.14 0.02
        Mff= 0.23 0.02  Mrt= 0.22 0.01
        Mrf= 0.26 0.01  Mtf=-0.03 0.02
       Principal Axes:
        T  Vol=  1.02  Plg=71  Azm=286
        N        0.15      18       85
        P       -1.17       6      177
      Best Double Couple:Mo=1.1*10**19
       NP1:Strike=287 Dip=42 Slip= 118
       NP2:        72      54       68

DSH      2.90 321 ePc    10 01.20  -0.4
KSH      4.95  50 iPd    10 26.50  -0.2
                  S      11 19.00
FRU      7.03  22 iPd    10 53.00  -0.3
                  iS     12 05.00
NDI      9.20 144 iP     11 21.00  -0.5
                  iS     12 51.00
MAIO     9.38 273 iPc    11 23.30  -0.7
        0.6s     84.18nm          5.2mb X
                  eS     13 09.00
GKN     14.13 122 P      12 23.22  -1.0
DMN     14.70 122 P      12 30.56  -0.8
KKN     14.71 121 P      12 30.16  -1.3
WMO     14.71  54 iPd    12 30.43  -0.9
                  esPd   13 24.57
                  iS     15 05.84
                  i      15 14.78
PKI     14.94 122 P      12 33.32  -1.0
GUN     15.05 120 P      12 34.54  -1.2
IR4     16.45 272 iPc    12 54.00   1.5
IR1     16.59 273 iPc    12 55.00   0.8
IR7     16.61 274 iPc    12 55.50   1.1
IR5     16.71 272 eP     12 56.50   0.9
BOM     17.44 175 iP     13 04.00   0.7
                  iS     16 06.00
POO     17.90 172 iPd    13 13.20   4.9X
                  eS     16 26.00
LSA     18.04 106 iP     13 10.00  -0.2
                  S      16 20.00
KER     19.68 271 iPc    13 28.50   1.8
TAB     19.81 282 iPc    13 30.00   2.0
HYB     19.96 159 iPd    13 31.00   1.5
        0.8s   1900.00nm          6.7mb
                  isP    14 28.00
                  iS     16 58.00
DHR     20.49 247 iPc    13 35.00   0.5
                  iS     17 10.00
```

14d 09h

SHL	20.75	115	iP	13 38.40	1.0
			iS	17 12.40	
BKR	22.06	293	iPc	13 53.00	3.0X
			iS	17 46.00	
BHD	22.14	270	iPd	13 52.00	1.3
			ipP	14 05.50	57kmX
			iPPP	14 29.00	
			iS	17 39.50	
			iSS	18 09.00	
MSL	22.50	278	iPd	13 56.00	1.8
			isP	14 57.50	
			iS	17 47.50	
			isS	18 59.00	
			iSS	19 34.50	
GTA	22.82	74	iPc	13 59.40	2.0
	1.0s	290.00nm			5.8mb
	Z 16s	33.60um			5.9MszX
			pP	14 38.00	205kmX
			PP	14 42.00	
			sP	15 04.00	
			PcP	17 41.00	
			SS	19 05.00	
RYD	24.01	248	iPc	14 10.00	1.3
			iS	18 11.00	
LZH	26.34	81	iPc	14 31.55	1.4
	2.0s	4620.00nm			6.8mb
	Z 12s	25.50um			6.0MszX
			ipPd	15 14.26	217kmX
			PP	15 20.00	
			isPd	15 39.58	
			eS	18 50.17	
			sS	20 24.00	
KOD	26.61	166	eP	14 30.00	-2.9
			eS	18 48.00	
GAZ	27.10	282	iP	14 38.70	1.9
CD2	27.63	92	iPc	14 43.00	1.3
	5.0s	*******nm			6.9mb X
			ipP	15 23.00	198kmX
			isP	15 50.00	
			iS	19 00.00	
KVT	27.66	291	iP	14 42.80	1.0
SHBJ	27.91	272	Pd	14 46.25	2.0
IRK	28.28	45	iP+	14 47.00	-0.3
			ePP	15 56.20	
			e	16 29.00	
			ePPP	16 35.00	
			e	17 00.00	
			eS	19 04.00	
			e	19 27.00	
			e	19 53.00	
			e	20 05.00	
			e	20 15.00	
			esS	20 33.00	
			eSS	21 06.00	
BHL	29.01	276	Pc	14 56.00	2.0
			S	18 36.00	
CSTJ	29.02	270	Pd	14 55.58	1.5
HRI	29.11	274	iPc	14 56.60	1.7
MDSJ	29.19	271	Pd	14 55.65	0.0
JARJ	29.25	272	Pd	14 57.48	1.4
KMI	29.26	104	Pc	14 55.40	-1.1
KMI	29.26	104	iP+	14 57.00	0.5
	1.5s	1500.00nm			6.5mb
			pP	15 39.00	208kmX
			sP	16 03.00	
			S	19 34.00	
			sS	20 58.00	
BURJ	29.36	272	Pd	14 59.91	2.8X
KAS	29.37	291	iPc	14 57.20	0.2
GHZJ	29.49	269	Pd	14 59.76	1.5
SALJ	29.53	272	Pd	14 59.81	1.3
ADI	29.58	274	iPc	15 00.70	1.7
KFNJ	29.58	272	Pc	15 00.34	1.5
MASJ	29.59	271	Pd	15 00.51	1.4
MKRJ	29.71	271	Pd	15 01.60	1.4
DSI	29.91	271	iPc	15 03.30	1.4
LISJ	29.94	271	Pd	15 03.88	1.9
JRDJ	29.97	270	Pc	15 03.04	0.5
CHTO	30.06	118	P	15 02.70	-0.5
FAM	30.07	279	eP	15 03.50	0.3
OBN	30.10	320	iPc	15 03.30	0.1
	0.9s	1500.00nm			6.7mb
	Z 13s	25.00um			6.0MszX
	N 10s	4.40um			
	E 20s	44.00um			
			ePP	15 38.00	
			epP	15 39.00	172kmX

			iS	19 46.00	
			esS	20 45.00	
			eSS	20 54.00	
MKT	30.31	270	iPc	15 07.10	1.7
BTO	30.58	70	iPc	15 08.50	0.7
	5.0s	*******nm			7.0mb X
	N 10s	15.20um			
			pP	15 52.00	214kmX
			PP	16 17.00	
			iS	19 55.00	
			sS	21 11.00	
			SS	21 55.00	
CSS	30.61	279	eP	15 07.80	-0.2
ABHA	30.82	242	iPc	15 14.00	3.8X
XAN	30.85	83	iPc	15 10.00	-0.1
	1.2s	600.00nm			6.2mb
	N 10s	21.10um			
			pP	15 54.00	216kmX
			sP	16 17.00	
MBH	30.94	268	iPc	15 12.10	1.1
HQL	31.00	267	iPc	15 12.00	0.7
BDT	31.15	120	iPc	15 14.00	1.3
	0.8s	404.90nm			6.2mb
PPCY	31.42	279	eP	15 15.20	0.3
HHC	31.73	69	iPc	15 18.80	1.0
	0.6s	590.00nm			6.4mb
	Z 15s	29.90um			6.1MszX
			pP	16 03.50	219kmX
			sP	16 29.00	
			S	20 09.50	
			sS	21 30.00	
			PcS	21 49.00	
GYA	31.75	98	iPc	15 17.60	-0.4
	1.6s	2400.00nm			6.6mb
	Z 28s	17.20um			5.6MszX
	N 14s	39.50um			
	E 14s	22.10um			
			pP	16 00.00	206kmX
			S	20 11.60	
GPA	32.06	290	iP	15 21.10	0.5
EYL	32.15	290	iP	15 21.80	0.4
BCK	32.26	284	iP	15 21.80	-0.6
HRT	32.49	291	iP	15 24.60	0.3
KHT	32.59	124	iPd	15 27.00	1.8
GBZT	32.67	291	eP	15 25.30	-0.4
IZI	32.69	290	eP	15 26.80	0.7
YLV	32.74	290	iP	15 26.80	0.3
TIY	32.83	75	iPc	15 28.00	0.7
	1.0s	1000.00nm			6.4mb
	N 10s	19.60um			
			pP	16 11.50	211kmX
			sP	16 37.00	
			S	20 30.00	
			ScP	21 29.00	
ISK	32.93	291	iP	15 23.80	-4.2X
ELL	32.93	283	iP	15 28.90	0.7
KHL	32.94	286	iP	15 28.50	0.3
LOE	32.97	117	iPc	15 29.00	0.4
NST	33.01	121	iPc	15 31.00	2.1
KOT	33.35	270	eP	15 32.30	0.6
CFR	33.39	299	eP	15 32.00	0.1
CTT	33.39	292	iP	15 30.30	-1.7
PSN	33.40	296	iPc	15 34.00	2.0
DST	33.43	289	iP	15 33.00	0.6
TLB	33.48	298	ePc	15 31.50	-1.2
KBR	33.77	124	iPc	15 43.00	7.6X
DMK	33.83	293	iP	15 35.90	0.2
IAS	33.85	302	eP	15 34.00	-1.8
EDC	33.91	290	iP	15 36.50	0.1
YER	34.13	284	iP	15 37.60	-0.8
BRD	34.17	299	ePd	15 40.00	1.4
CIN	34.19	285	eP	15 39.00	0.2
KGT	34.32	290	eP	15 41.80	1.9
VRI	34.40	300	iPc	15 40.50	0.0
PTT	34.64	302	eP	15 43.50	0.9
IZM	34.68	287	iP	15 43.20	0.2
BUC	34.87	298	iPc	15 54.00	9.5X
BUC1	34.92	297	iPc	15 44.00	-0.9
NNT	34.94	125	iPc	15 46.20	0.9
MLR	34.95	299	iPc	15 45.50	0.2
ASW	35.01	260	iPc	15 48.00	2.2
			eS	21 06.00	
AMAN	35.04	260	iPc	15 49.00	2.9X
PUL	35.10	325	iPc	15 46.00	-0.2
			iS	21 02.00	
AKSR	35.12	260	iPc	15 48.50	1.7
EZN	35.16	290	iP	15 47.90	1.0

ALN	35.21	291	ePd	15 48.02	0.6
PRK	35.29	289	eP	15 48.00	0.0
BJI	35.32	70	iPc	15 49.33	1.0
	1.0s	440.00nm			6.0mb
	Z 18s	19.30um			5.9Msz
			ipPd	16 34.68	214kmX
			isPd	16 58.52	
			PcP	18 15.50	
			eS	21 10.32	
			ScP	21 38.00	
			esS	22 26.88	
			eSS	23 40.54	
			eScS	25 43.00	
AGAL	35.38	259	iPc	15 51.50	2.6
DIM	35.46	294	iP	15 50.00	0.6
ARO	35.50	233	iP+	15 53.00	2.9X
AGMR	35.55	260	iPc	15 52.50	2.1
RDO	35.56	292	eP	15 50.50	0.2
CMP	35.59	299	iPc	15 55.00	4.4X
PLD	36.07	294	iPc	15 55.00	0.4
RZN	36.11	293	iPc	15 56.00	0.9
WHN	36.31	86	iPc	15 58.50	1.8
	1.0s	1400.00nm			6.5mb
	Z 12s	12.00um			5.9MszX
	E 11s	18.50um			
			pP	16 43.00	208kmX
			sP	17 10.00	
			iPcP	18 19.00	
			iS	21 24.00	
			iScS	25 47.00	
NPS	36.67	282	eP	15 59.50	-0.2
TIA	36.82	76	iPc	16 02.00	1.1
	1.2s	500.00nm			6.0mb
	Z 12s	18.70um			6.1MszX
	E 10s	16.00um			
			pP	16 48.00	216kmX
			S	21 33.00	
			ScS	25 49.30	
OUR	36.85	291	ePd	16 01.86	0.7
MMB	36.86	293	iPc	16 02.00	0.8
SRS	37.02	292	ePc	16 03.18	0.6
DEV	37.06	300	ePd	16 05.00	2.1
PAIG	37.15	290	ePc	16 04.42	0.8
GZR	37.18	299	ePd	16 04.00	0.0
SOH	37.25	292	iPc	16 05.22	0.7
KKB	37.30	294	iPd	16 06.00	1.1
HIA	37.31	54	iPc	16 05.78	0.8
			ipPd	16 51.47	214kmX
			isPd	17 14.48	
			e	18 19.86	
			eS	21 37.43	
			esS	22 55.65	
			eSS	24 14.28	
			e	25 35.81	
KNT	37.53	292	ePc	16 07.34	0.4
THE	37.57	292	ePc	16 07.27	0.1
VAY	37.76	293	iPc	16 09.30	0.6
	1.4s	1996.00nm			6.5mb
KAF	37.82	327	iP	16 09.20	0.2
GRG	37.94	292	ePd	16 10.42	0.1
LIT	38.02	291	ePc	16 10.78	-0.2
NUR	38.02	324	iP	16 10.80	0.2
			e	21 40.00	
QIZ	38.08	106	iPc	16 12.00	0.4
			pP	16 55.00	203kmX
			sP	17 20.00	
			S	21 46.00	
TIM	38.25	300	iPc	16 15.00	2.3
AGG	38.34	289	iPc	16 13.74	0.1
VLI	38.39	285	eP	16 12.50	-1.6
SKO	38.50	294	iPc	16 15.20	0.3
	1.8s	2838.00nm			6.6mb
			i	17 02.00	223kmX
			i	17 15.90	
			i	17 19.00	
			i	17 28.70	
			i	17 39.00	
			i	17 53.00	
			i	18 42.00	
			i	21 40.00	
			i	21 56.00	
			i	23 16.00	
KZN	38.52	291	iPc	16 14.50	-0.7
GZH	38.68	98	iPc	16 18.30	1.7
	1.0s	950.00nm			6.4mb
	Z 14s	22.80um			6.1MszX
	N 11s	9.10um			

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     E  12s      5.20um
                  pP     17 00.00 196kmX
                  sP     17 24.00
                  iS     21 56.00
FNA    38.73 292 ePc     16 17.10   0.2
SPC    38.79 306 iPc     16 19.00   1.6
                  i      17 02.00 203kmX
BEO    38.86 299 iPd     16 18.00   0.2
KRA    38.99 307 iPc     16 19.10   0.3
     Z  20s     50.60um          6.3Msz
                  i      16 25.00  20kmX
                  i      16 40.40
                  i      17 06.60
                  i      22 02.00
PSZ    39.04 304 iP      16 20.20   0.8
PHP    39.28 294 iPc     16 20.00  -1.2
MCO    39.34  99 eP      16 22.70   0.7
NJ2    39.40  82 iPc     16 23.00   0.6
                  pP     17 08.00 213kmX
                  sP     17 31.00
                  PP     18 00.00
                  PcP    18 26.50
                  S      22 03.00
                  SS     24 57.00
PVY    39.48 295 iPc     16 23.80   0.7
IVA    39.49 296 iPc     16 24.53   1.4
SNG    39.59 130 iPc     16 25.90   1.8
     0.9s   277.31nm          5.8mb
                  eS     22 09.50
BUD    39.65 303 iP      16 25.20   0.9
DL2    39.68  71 Pd      16 25.90   1.3
     1.0s  2400.00nm          6.7mb
     Z  20s     14.20um          5.8Msz
     N  10s     13.10um
                  pP     17 12.00 218kmX
                  sP     17 36.00
                  iS     22 15.00
                  SS     25 13.00
HKC    39.73  99 iP      16 27.00   1.8
                  iS     22 14.00
IGT    39.76 290 ePd     16 24.54  -0.7
TIR    39.76 293 iPc     16 24.00  -1.2
PLE    39.80 296 iPc     16 27.13   1.5
LACI   39.83 294 iPc     16 25.00  -0.8
SOD    39.93 335 iP      16 26.80   0.5
SRN    39.94 291 iP      16 25.80  -0.9
UZD    40.01 302 eP      16 20.00  -7.3X
AAE    40.03 235 eP      16 31.90   3.9X
ULC    40.11 294 iPc     16 27.65  -0.5
SRQ    40.11 304 iP      16 29.50   1.5
                  i      17 17.40 228kmX
KEK    40.12 291 iPc     16 26.50  -1.7
NKY    40.16 296 iPc     16 29.16   0.5
BDV    40.37 295 iPc     16 30.13  -0.1
BRY    40.47 296 iPc     16 31.53   0.3
SNY    40.57  66 iPc     16 31.60  -0.2
     0.6s   900.00nm          6.5mb
     E  10s      7.60um
                  pP     17 17.00 214kmX
                  iS     22 20.00
HCY    40.58 295 iPc     16 31.73  -0.2
ZST    40.90 304 iPc     16 35.10   0.6
                  i      17 24.00 232kmX
                  i      18 17.00
                  i      19 18.40
KEV    40.99 338 iPc     16 35.02   0.1
                  epPc   17 19.71 210kmX
                  isPd   17 42.72
                  e      19 10.44
                  iS     22 30.62
                  esS    23 45.11
                  eSS    25 15.32
UPP    41.26 322 iPc     16 37.00  -0.3
                  iS     22 22.00
KSP    41.31 308 iPc     16 38.20   0.3
     1.3s  1704.00nm          6.4mb
                  i      17 48.20 351kmX
                  i      18 18.50
                  i      19 20.00
                  i      25 28.00
LCI    41.38 292 Pc      16 36.30  -2.2
VKA    41.42 304 iPc     16 39.70   0.9
                  ipP    17 27.50 226kmX
                  isP    17 51.10
                  iPP    18 21.40
                  i      18 33.20
                  i      19 25.60
CN2    41.60  62 iPc     16 40.20  -0.1
     1.0s   600.00nm          6.1mb
                  pP     17 26.00 215kmX
                  PcP    18 33.80
                  ScP    22 01.00
                  PcS    22 23.00
                  S      22 37.00
                  eSS    25 45.00
                  eScS   26 15.00
SSE    41.60  82 iPc     16 42.00   1.6
     1.0s  1360.00nm          6.4mb
     Z  16s     20.30um          6.1MszX
     N  12s     14.70um
     E  12s      8.80um
                  pP     17 25.00 200kmX
                  sP     17 48.00
                  ePcS   22 28.00
                  iS     22 38.00
                  SS     25 52.00
                  ScS    26 18.00
BRT    41.82 293 Pc      16 41.90  -0.3
IPM    41.88 132 ePc     16 44.90   2.0
     0.7s   444.30nm          6.1mb
                  e      17 30.80 215kmX
ZAG    41.89 301 iPc     16 43.30   0.7
PTJ    41.90 301 iPc     16 43.10   0.3
HVAR   41.95 297 iPc     16 42.60  -0.5
OZH    42.02  92 iPc     16 44.00   0.1
     5.0s  9300.00nm          6.5mb X
                  pP     17 32.00 226kmX
                  sP     17 56.00
                  iS     22 46.00
                  ScS    26 19.00
VBY    42.43 300 iPc     16 47.90   0.9
ORI    42.56 292 Pc      16 48.90   0.7
ROI    42.59 291 P       16 48.60   0.2
TDS    42.74 292 Pc      16 50.50   0.9
CSI    42.75 292 P       16 50.10   0.4
BRG    42.80 308 iPc     16 50.50   0.6
     2.2s  2800.00nm          6.4mb
                  ipP    18 04.40 374kmX
                  iScP   22 08.20
                  iS     22 28.00
LJU    42.86 301 iPc     16 51.30   0.8
                  i      16 58.00
                  ipP    17 39.30 226kmX
                  eS     23 30.50
                  isS    25 25.00
GRI    42.88 290 P       16 51.20   0.4
KMR    42.90 304 iP+     16 51.50   0.7
                  ipP    17 41.00 234kmX
                  isP    18 01.70
                  i      19 14.40
                  i      19 43.20
                  i      26 23.30
ACI    42.91 291 P       16 52.00   1.0
MMN    42.94 292 P       16 53.00   1.8
CEY    42.98 301 iPc     16 51.90   0.4
CZI    43.00 291 P       16 52.20   0.5
KHC    43.16 306 iPc     16 53.20   0.3
     1.5s   848.00nm          6.0mb
                  pP     17 40.50 222kmX
                  ePP    19 42.00
BRN    43.20 311 iPc     16 54.20   1.1
MGR    43.21 293 Pc      16 53.80   0.4
HFS    43.26 322 eP      16 52.20  -1.3
     0.9s  4649.00nm          7.0mb
     Z  19s     18.40um          6.0Msz
                  LR     34 07.00
SGO    43.30 293 Pc      16 55.10   1.0
VOY    43.31 301 iPc     16 54.30   0.1
                  e      17 41.60 222kmX
SOI    43.35 290 Pc      16 54.80   0.3
CLL    43.37 309 iPc     16 54.80   0.2
     1.9s  1850.00nm          6.2mb
                  sP     17 59.00
                  eS     23 05.00
KLM    43.43 132 eP      16 56.80   1.5
                  e      17 43.00 216kmX
TRI    43.44 301 Pc      16 55.30   0.1
TRO    43.46 336 iPc     16 55.12   0.1
GMB    43.47 290 P       16 56.20   0.5
KBA    43.54 303 iPc     16 56.40   0.2
     1.1s   816.00nm          6.1mb
DUI    43.68 295 Pc      16 57.90   0.6
BHG    43.77 304 iPc     16 58.20   0.3
ATN    43.78 290 Pc      16 58.10   0.1
MOR7   43.92 331 iPc     16 58.88   0.1
FVI    43.99 302 Pc      16 59.60   0.1
YAK    44.06  35 iPc     16 58.70  -1.2
                  ePPP   19 18.00
                  iPcP   19 20.00
                  iScP   22 51.00
                  iScS   22 58.00
                  iS     23 06.00
                  i      24 30.00
                  eSS    25 50.00
                  iPSP   26 10.00
                  iSSS   26 32.00
                  iScS   27 40.00
RFI    44.11 295 P       17 01.03   0.5
SDI    44.14 295 Pc      17 00.80  -0.1
GIO    44.21 289 P       17 02.62   1.2
ANP    44.28  90 iP      17 04.00   1.8
                  iS     23 26.00
MOX    44.29 308 iPc+    17 02.70   0.8
     1.7s  3400.00nm          6.5mb
AQU    44.30 296 Pc      17 03.00   0.8
VVI    44.33 301 Pc      17 02.70   0.4
ARV    44.40 298 Pc      17 03.60   0.7
MDJ    44.40  60 iPc     17 02.58  -0.3
     1.8s  2800.00nm          6.4mb
     Z  20s     23.30um          6.1Msz
     N  10s     15.70um
     E  10s     17.60um
                  ipPd   17 50.26 223kmX
                  isPd   18 12.61
                  ePcP   18 41.91
                  eS     23 13.14
                  sS     24 45.00
                  e      24 45.42
                  SS     26 39.00
                  i      26 54.54
MNO    44.42 290 P       17 04.20   0.9
PZI    44.51 288 P       17 03.98   0.1
     1.0s  2480.50nm          6.6mb
NB2    44.57 323 P       16 54.70  -9.3X
     1.0s  3911.70nm          6.8mb
GRF    44.64 307 iPc     17 06.30   1.6
     1.7s  5308.00nm          6.7mb
     Z  19s      3.00um          5.2Msz
                  epP    17 55.50 231kmX
                  esP    18 17.30
                  e      20 09.00
                  eS     23 30.50
GRFO   44.64 307 eP      17 03.99  -0.7
RSM    44.67 299 Pc      17 05.90   1.0
WTTA   44.67 303 iPc     17 04.60  -0.6
     1.0s  1236.00nm          6.3mb
                  i      17 15.20
                  ipP    17 54.30 233kmX
                  i      18 10.70
                  i      18 43.70
                  i      22 13.20
ASS    44.69 297 P       17 05.80   0.6
NSS    44.69 328 iPc     17 04.13  -0.7
FUR    44.78 305 iPc     17 06.50   0.6
     1.3s  4023.00nm          6.7mb
MNS    44.82 296 Pc      17 06.30   0.1
LOF    44.84 333 iPc     17 05.20  -0.7
GIB    44.91 290 Pc      17 06.40  -0.7
RMP    44.93 296 Pc      17 07.00  -0.1
CRE    45.08 298 Pc      17 09.20   0.8
SFI    45.09 299 Pc      17 09.60   1.3
RGS    45.15 326 iP      17 08.50   0.1
PGD    45.20 299 Pc      17 10.80   1.5
KONO   45.28 321 iPc     17 08.93  -0.6
                  esPd   18 17.63
KGM    45.29 131 iPc     17 12.00   1.8
     0.4s   664.20nm          6.4mb
                  e      17 58.20 214kmX
                  e      18 57.20
USI    45.36 291 P       17 10.20  -0.2
SAL    45.70 301 Pc      17 13.80   0.8
OSS    45.77 303 ePc     17 13.50  -0.4
MME    45.85 299 P       17 15.80   1.2
TIK    45.89  22 iPc     17 13.50  -0.7
                  eS     23 39.00
MAO    45.92 297 Pc      17 14.40  -0.5
CVT    45.94 290 P       17 14.80  -0.2
BDI    45.95 299 Pc      17 15.10  -0.1
ERC    45.99 291 P       17 14.30  -1.2
STU    46.07 306 iPc+    17 15.90  -0.1
     1.0s  1440.00nm          6.3mb
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14d 09h

PII	46.08	299	Pc	17 15.60	-0.5
LVI	46.19	291	P	17 16.20	-0.8
VDL	46.26	303	ePc	17 17.40	-0.4
TNS	46.35	308	iPc	17 18.60	0.3
			ic	18 49.30	473kmX
			ic	22 21.40	
LLS	46.51	303	ePc	17 19.00	-0.8
BOB	46.61	300	Pc	17 21.40	1.0
SLE	46.69	305	ePc	17 20.40	-0.5
TMA	46.74	302	ePc	17 20.50	-1.0
KOE	46.78	308	ePc	17 19.80	-1.7
ODD1	46.78	321	iP	17 22.60	1.1
PTS	46.81	289	P	17 22.50	0.6
ZLA	46.81	304	ePc	17 21.10	-0.8
PIP	46.96	99	iPd	17 25.50	2.2
FEL	46.99	305	P	17 22.91	-0.5
HYA	47.02	323	iP	17 22.42	-0.7
STR	47.04	306	P	17 23.75	0.2
BNS	47.06	309	iPc	17 23.80	0.1
Z	15s	14.20um			6.1MszX
			id	18 14.30	235kmX
			ed	20 26.00	
BGG	47.06	308	iPc	17 24.40	0.7
GWF	47.07	306	P	17 24.27	0.5
WIT	47.14	312	iPc	17 25.00	0.7
	1.1s	2932.00nm			6.6mb
WTS	47.15	311	iPc	17 24.90	0.6
	1.0s	859.00nm			6.1mb
LIBD	47.22	305	P	17 24.75	-0.2
SZP	47.25	100	eP	17 31.00	5.5X
PLH	47.27	309	iPc	17 25.30	0.1
PCP	47.29	300	P	17 24.48	-1.1
STB	47.32	309	iPc	17 26.40	0.7
MMK	47.37	302	ePc	17 25.40	-1.1
CDF	47.39	306	iPc	17 25.80	-0.6
BBS	47.40	304	P	17 25.72	-0.7
BER	47.43	322	iPc	17 26.31	-0.1
PGF	47.43	298	iPc	17 26.10	-0.7
ORX	47.44	302	P	17 24.78	-2.1
EGD	47.49	322	iPc	17 26.57	-0.2
KMY	47.49	320	iPc	17 26.78	-0.1
ASK	47.50	322	iPc	17 26.65	-0.2
ECH	47.50	305	P	17 26.76	-0.4
CKI	47.50	300	Pc	17 26.10	-1.1
MQF	47.58	305	P	17 27.41	-0.5
GSH	47.59	309	ePc	17 27.80	0.0
FIN	47.60	300	P	17 26.63	-1.3
KLL	47.65	309	iPc	17 28.50	0.3
SUE	47.71	323	iPc	17 28.16	-0.3
DIX	47.74	303	ePc	17 29.10	-0.2
BSF	47.81	305	iPc	17 29.10	-0.6
ROB	47.81	300	P	17 28.37	-1.3
MEM	47.84	309	iPc	17 29.91	0.2
			ipPd	18 17.76	220kmX
			PP	19 26.80	
ENN	47.87	309	iPc	17 29.90	0.0
	1.0s	661.00nm			6.0mb
			epP	18 13.00	196kmX
LOMF	47.88	304	P	17 29.45	-0.7
IMI	47.89	300	P	17 30.01	-0.3
WLF	47.90	307	iPc	17 30.78	0.6
			ipPd	18 18.01	216kmX
BAG	47.98	101	iPc+	17 32.00	0.6
			e	18 10.00	170kmX
			eS	24 14.00	
RSP	48.05	301	P	17 28.99	-2.5
EMS	48.07	303	ePc	17 31.80	0.0
HAU	48.07	305	iPc	17 31.30	-0.3
	1.0s	1093.75nm			6.2mb
Z	19s	25.00um			6.2Msz
BHB	48.11	301	P	17 29.91	-2.0
DBN	48.14	311	iP+	17 52.00	20.1X
			epP	18 35.00	195kmX
			ePP	19 28.00	
			ePPP	20 32.00	
			eS	24 14.00	
			esS	25 18.00	
			eSS	27 58.00	
ENR	48.15	300	P	17 31.35	-0.9
AUTN	48.19	300	P	17 32.96	0.1
STV	48.21	300	P	17 31.35	-1.4
SBF	48.22	300	iPc	17 32.50	-0.3
CVP	48.26	99	ePd	17 35.50	2.3
	1.0s	11.48nm			4.2mb X
VITF	48.27	306	P	17 32.96	-0.1
AURF	48.29	300	P	17 33.46	0.1
REVF	48.30	299	P	17 33.08	-0.3

PZZ	48.30	301	P	17 31.55	-2.0
TOUF	48.32	300	P	17 33.93	0.2
LPG	48.32	302	iPc	17 33.60	-0.2
LPL	48.33	302	iPc	17 33.80	0.0
RSL	48.36	302	P	17 33.74	-0.3
MVIF	48.41	300	P	17 34.33	-0.1
RRL	48.43	301	P	17 34.22	-0.4
BNI	48.47	301	Pc	17 34.60	-0.2
CALN	48.63	300	P	17 35.97	-0.1
KBS	48.80	347	iPc	17 37.40	0.7
DOU	48.82	308	Pc+	17 37.60	0.4
			pP	18 26.00	221kmX
			iPcP	18 58.20	
			i	20 41.00	
			iScP	22 31.60	
			e	28 39.00	
UCC	48.85	309	iPc+	17 37.30	-0.1
			e	18 24.70	216kmX
			PP	19 35.00	
			iS	24 26.00	
			e	28 20.00	
FRF	48.85	299	iPc	17 37.00	-0.6
LMR	49.00	299	iPc	17 37.90	-0.8
LRG	49.08	299	iPc	17 39.00	-0.3
	1.3s	1410.25nm			6.2mb
NAI	49.18	228	PKP	17 42.00	1.4
			pPKP	18 28.00	
			PPP	20 28.00	
			SKS	24 28.00	
			SKKS	26 08.00	
SHK	49.43	73	iPc	17 42.80	0.7
	1.2s	1818.75nm			6.4mb
CDR	49.44	300	iPc	17 41.60	-0.4
			i	17 57.30	61kmX
			i	18 31.20	
			i	18 53.50	
			e	20 26.40	
LBF	49.86	304	iPc	17 44.50	-0.7
LOR	49.87	305	iPc	17 44.40	-0.9
	1.3s	902.55nm			6.1mb
Z	18s	27.50um			6.3Msz
SSB	49.88	302	P	17 45.15	-0.3
SMF	50.03	304	iPc	17 45.70	-0.8
SSF	50.15	305	iPc	17 46.90	-0.5
AVF	50.32	304	iPc	17 48.00	-0.7
PLDF	50.34	303	P	17 48.58	-0.4
GRC	50.38	305	P	17 48.95	-0.2
AGO	50.65	303	P	17 50.97	-0.2
BGF	50.71	304	iPc	17 51.00	-0.7
LBL	50.78	302	P	17 52.18	-0.1
PYM	50.81	303	P	17 52.18	-0.3
MAF	50.98	304	iPc	17 53.60	-0.2
KKM	51.05	115	ePc	17 55.70	1.0
	1.0s	1031.90nm			6.3mb
			e	18 41.00	204kmX
TCF	51.21	304	iPc	17 55.30	-0.1
CAF	51.67	302	iPc	17 58.90	0.0
LSF	51.67	304	iPc	17 58.10	-0.8
ETER	51.87	299	iPc	17 59.40	-1.0
RJF	51.94	303	iPc	18 00.90	0.0
LDF	52.15	307	iPc	18 01.50	-0.9
LPO	52.34	302	iPc	18 03.50	-0.3
FLN	52.34	308	iPc	18 02.90	-0.8
	0.8s	766.05nm			6.3mb
Z	21s	35.00um			6.4Msz
EKA	52.47	316	P	18 03.00	-1.6
	1.0s	1785.60nm			6.6mb
ESK	52.50	316	ePc	18 04.00	-0.8
	1.0s	2280.00nm			6.7mb
LFF	52.57	303	iPc	18 05.40	0.0
ESEL	52.65	296	iPc	18 05.88	-0.2
GRR	52.68	307	iPc	18 05.20	-1.0
MFF	52.69	305	iPc	18 05.40	-0.9
JNW	52.74	336	iPc	18 07.30	0.9
YSS	52.80	55	iPc	18 06.00	-1.1
			eS	25 18.00	
LPF	52.89	307	iPc	18 06.70	-1.1
MAJO	52.93	68	iPc	18 07.08	-1.1
			ipPd	18 55.75	219kmX
			esPd	19 19.42	
			eS	25 16.24	
SAP	53.01	60	iP	18 08.00	-0.7
			eS	25 18.00	
EPF	53.42	300	iPc	18 10.30	-1.5
	1.0s	531.25nm			6.1mb
TSM	53.45	115	ePd	18 12.90	0.7
	0.5s	1247.10nm			6.8mb

ABA	53.58	292	iP	18 11.00	-2.0
BTH	53.77	301	iPd	18 13.20	-1.1
			i	18 17.00	
			(PP)	18 25.00	
			ipP	19 03.00	224kmX
			iPcP	19 16.50	
			isP	19 24.00	
			PP	20 18.00	
			iScP	20 35.50	
			pPP	20 58.00	
			esPP	21 20.00	
			PPP	21 32.00	
			i	21 40.00	
			i	21 58.00	
			sPPP	22 27.00	
			e	22 44.00	
			iScP	22 55.10	
			iPcS	23 18.50	
			pPcS	24 08.00	
			isPcS	24 29.00	
			eS	25 31.00	
			sP	25 43.70	
			eSPP	25 55.00	
JAU	53.91	301	P	18 14.30	-1.2
OGE	53.94	301	P	18 14.30	-1.3
EBR	54.03	298	iPc	18 16.60	0.4
			iS	25 34.00	
ESCF	54.04	301	P	18 15.19	-1.1
EROQ	54.09	298	iPc	18 15.80	-0.9
ATE	54.12	301	P	18 15.71	-1.2
LHE	54.12	301	P	18 16.56	-0.5
EGRA	54.14	300	iPc	18 13.14	-3.9X
MADF	54.18	301	P	18 16.00	-1.4
ISSF	54.21	301	P	18 16.78	-0.9
ELYF	54.30	301	P	18 16.91	-1.3
BOH	54.33	301	P	18 17.34	-1.2
PLP	54.49	103	iPd	18 20.00	0.2
	1.5s	1201.00nm			6.3mb
ETA	54.84	313	iPc	18 21.10	-0.8
DLF	54.87	314	iPc	18 21.10	-1.0
	1.1s	414.00nm			6.0mb
DMU	54.93	315	iPc	18 21.80	-0.7
ECP	55.07	313	iPc	18 22.60	-1.0
ECB	55.27	313	iPc	18 24.40	-0.6
DCN	55.29	314	iPc	18 24.60	-0.5
ECHE	55.50	297	iPc	18 26.52	-0.4
ECRI	55.53	301	iPc	18 26.81	-0.3
ETOR	55.84	299	iPc	18 28.10	-1.3
CGP	55.91	106	iPd	18 30.00	0.0
	1.0s	911.00nm			6.4mb
EALH	56.48	295	iPc	18 33.29	-0.5
BKB2	56.62	121	iPc	18 36.50	1.5
EVIA	56.97	296	iPc	18 36.52	-0.8
AKU	57.22	330	iPc	18 39.70	1.2
	1.0s	1192.00nm			6.6mb
EHUE	57.35	295	iPc	18 39.33	-0.7
GUD	57.39	299	iPc	18 39.40	-0.9
ENIJ	57.40	294	iPc	18 39.28	-1.0
VAL	57.43	313	iP	18 39.30	-0.9
			S	26 21.00	
DAV	57.44	107	eP-	18 41.50	0.7
	2.4s	********nm			7.2mb
			e	19 32.00	224kmX
			eS	26 24.50	
EBAN	58.08	296	iPc	18 43.86	-1.1
AFC	58.27	295	iPc	18 44.64	-1.8
ECOG	58.27	295	iPd	18 44.51	-2.0
EGUA	58.45	295	iPc	18 45.95	-1.6
EMON	58.54	303	iPc	18 47.31	-0.8
TRT	58.62	130	ePc	18 47.60	-1.3
	0.6s	487.60nm			6.4mb
EMEL	58.63	293	iPc	18 47.74	-1.0
ERUA	58.81	302	iPc	18 49.33	-0.6
EPLA	58.97	299	iPc	18 50.76	-0.4
MAL	59.11	295	iPc	18 50.00	-2.1
			ipP	19 02.00	42kmX
			iS	28 06.00	
REY	59.24	329	iPd	18 54.90	2.3
EHOR	59.27	296	iPc	18 52.06	-1.1
NPA	59.35	216	iPc	18 55.00	1.2
			iS	26 48.00	
STS	59.57	303	iPc	18 54.43	-0.7
EPRU	59.61	296	iPc	18 53.43	-2.1
LIJA	59.77	296	eP	18 54.95	-1.7
EZAM	59.96	302	eP	18 57.74	-0.1
EJIF	60.00	295	iPc	18 55.88	-2.3
ALJ	60.01	295	eP	18 56.67	-1.6

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GIBL   60.20 296 eP    18 57.77  -1.7
OJEN   60.20 295 eP    18 53.16  -6.4X
MOMI   60.24 295 eP    18 57.91  -1.9
PLAT   60.35 295 eP    18 59.14  -1.4
EVAL   60.46 297 iPc   19 00.12  -1.1
SFS    60.54 295 eP    19 00.87  -0.9
PET    60.59  44 iPc   18 59.00  -2.9
                iS     26 56.00
KHKI   61.00 128 ePc   19 02.30  -2.8
                e      32 52.10
IFR    61.01 292 iPc   19 05.00  -0.3
                i      19 47.00 180kmX
MKS    61.24 122 iPc   19 07.50   0.8
       1.0s   471.50nm          6.2mb
PTZ    62.78 224 iPd   19 15.40  -1.6
                i      27 28.70
                i      48 04.00
                i      48 11.20
                i      48 22.00
AVE    62.82 293 iPc   19 15.00  -2.0
                i      19 37.00  86kmX
TIO    63.81 290 iPc   19 22.50  -1.1
                i      19 57.00 144kmX
ILT    63.86  23 iPc   19 22.40  -0.8
MTD    64.70 222 iPc   19 29.40   0.0
                iP'P'  48 09.00
LSZ    65.41 226 iP    19 35.00   1.0
                iS     28 03.00
                i      29 31.00
                i      48 04.40
KRI    65.83 224 iPc   19 36.60  -0.1
                iS     28 06.00
                iP'P'  48 08.00
BRW    67.44  15 P     19 46.30   0.3
MBC    67.50   3 iPc   19 46.00  -0.2
       0.6s   286.00nm          6.2mb
                pP     20 37.00 218kmX
KUPT   67.61 122 ePc   19 48.00   0.2
GUMO   69.06  88 iPc   19 54.45  -2.3
       1.4s  1707.69nm          6.6mb
                ipPd   20 46.10 220kmX
                iS     28 41.83
PJG    69.06  88 eP    19 55.00  -1.7
BUL    69.06 223 iPc   19 57.00   0.3
       1.1s   202.53nm          5.8mb
                i      28 38.10
                i      30 15.00
                i      31 12.00
GUA    69.12  88 eP    19 55.00  -2.1
       0.8s   202.99nm          5.9mb
ANM    70.15  23 iP    20 02.50  -0.2
                ipP    20 54.20 219kmX
                sP     21 16.20
                P'P'   47 40.70
                i      48 54.10
NANU   72.05 137 iPc   20 15.00   0.6
       0.4s    52.00nm          5.6mb
                e      21 07.00 220kmX
JOZ    73.33 216 iPc   20 21.40  -0.4
       1.3s   615.38nm          6.2mb
PDA    73.50 305 iPc   20 24.00   1.2
LKO    73.72 270 Pc    20 23.04  -1.5
       1.0s   949.50nm          6.5mb
SLR    73.78 220 iPc   20 24.37  -0.3
       0.6s   453.33nm          6.4mb
     Z  17s    10.20um          6.2MszX
                ipPd   21 16.18 218kmX
                isPd   21 38.03
INK    74.05   9 iPc   20 25.50   0.0
       0.6s   452.00nm          6.4mb
COL    74.60  16 iPc   20 28.52  -0.2
                iS     29 44.12
                eScS   30 17.37
MTN    74.73 119 iPc   20 29.70  -0.4
       0.5s   310.00nm          6.3mb
KIC    74.87 267 Pc    20 30.04  -1.0
       0.9s   652.50nm          6.4mb
                S      29 45.00
TIC    74.93 267 Pc    20 30.34  -1.1
       0.9s   743.00nm          6.4mb
KNA    75.11 123 iPc   20 32.60   0.4
                e      21 27.00 230kmX
PRY    75.17 220 iPd   20 32.00  -0.6
       0.5s   213.51nm          6.1mb
                i      21 28.00 237kmX
LIC    75.18 267 Pc    20 31.78  -1.0
       0.9s   730.50nm          6.4mb
JAY    75.19 104 ePc   20 33.00   0.2
FRB    75.25 343 ePc   20 32.30   0.0
SVW    75.71  21 iPc   20 35.40   0.3
       1.0s  1050.00nm          6.5mb
                pP     21 27.30 218kmX
PDB    77.19  22 P     20 43.60   0.4
MRWA   77.66 141 iPc   20 46.00  -0.1
       0.3s    42.00nm          5.6mb
                e      21 40.00 226kmX
WIN    77.68 230 iPc   20 48.00   1.4
       1.5s  2277.78nm          6.7mb
     Z  18s    11.68um          6.3Msz
SLKM   77.72  20 iP    20 44.50  -1.7
KLU    77.97  17 P     20 48.10   0.5
                pP     21 35.30 195kmX
FRS    78.56 219 iPc   20 48.90  -2.1
       0.8s   223.88nm          5.9mb
BAL    79.14 141 iPd   20 53.40  -0.8
       0.5s   261.00nm          6.2mb
                e      21 46.00 218kmX
                e      22 09.00
HVD    79.16 219 iPd   20 55.00   0.5
8ALM   79.20  16 iPc   20 53.80  -0.5
MUN    80.00 142 iPc   20 58.00  -0.7
       0.7s  4975.00nm          7.4mb
                e      21 53.00 229kmX
MBO    80.10 281 iPc   20 59.70   0.1
KLB    80.47 141 iPc   21 00.50  -0.7
       0.5s   143.00nm          6.0mb
                e      21 55.00 226kmX
WARB   81.27 131 iPc   21 05.80   0.3
       0.3s    48.00nm          5.7mb
NWAO   81.28 142 ePc   21 04.90  -0.4
       0.5s   145.00nm          6.0mb
                e      22 00.00 228kmX
                eS     31 00.00
YKA    81.41   3 eP    21 06.80   1.2
       1.0s  1133.40nm          6.6mb
COOL   81.68 138 iPc   21 07.40  -0.1
                e      22 01.00 221kmX
WRA    81.82 122 P     21 07.00  -1.5
       0.9s   377.10nm          6.1mb
WR2    81.84 122 iPd   21 08.50  -0.1
                i      22 26.00 333kmX
                eS     31 00.50
SCH    82.28 337 ePc   21 10.30  -0.1
       0.8s   593.00nm          6.4mb
RKG    82.50 143 iPc   21 11.70   0.1
       0.6s   567.00nm          6.5mb
                e      22 05.00 220kmX
                e      22 33.00
LAT    82.66 104 eP    21 12.90   0.0
ASPA   84.08 125 iPc   21 19.70  -0.2
       0.7s  1770.90nm          6.9mb
                ipP    22 14.90 228kmX
                eS     31 17.00
                iPPS   32 57.10
CRZF   84.19 193 ePc   21 26.00   6.2X
                eS     31 28.00
PMG    84.46 106 iPc+  21 21.50  -0.4
       1.3s  2038.46nm          6.7mb
CER    84.56 221 iPc   21 21.40  -0.7
       1.0s  1620.00nm          6.7mb
                i      21 21.80   1kmX
RAB    85.27  99 iPc+  21 26.00   0.0
                iS     31 24.00
FORR   85.56 134 iPc   21 27.10   0.1
QIS    85.90 119 iPc   21 28.20  -0.7
                i      22 22.00 221kmX
FFC    89.11 356 iPc   21 43.90   0.0
       1.2s  1955.00nm          6.9mb
CTAO   90.38 115 iPc   21 50.10  -0.1
       0.9s   454.15nm          6.4mb
                ipPd   22 43.07 215kmX
                iS     32 23.29
                e      33 07.43
                eS     33 56.82
EMM    91.03 332 P     21 54.50   1.6
BNH    92.54 334 iPd   22 00.00   0.1
                pP     22 55.60 227kmX
QLP    93.01 121 e(P)  22 05.00   2.9X
                i      22 59.00 219kmX
                i      39 13.00
                e      47 22.00
PNT    94.19   7 iPc   22 08.00   0.5
       1.1s   661.00nm          6.7mb
                pP     23 02.00 219kmX
PGC    94.40  10 eP    22 09.00   0.6
       1.2s   821.00nm          6.8mb
MCW    94.45   9 P     22 09.40   0.7
                pP     23 03.90 221kmX
HRV    94.46 333 iPc   22 09.08   0.3
                ipPd   23 02.88 218kmX
                esPd   23 24.40
                ePP    25 56.09
                eS     32 58.43
                esS    34 35.44
STK    94.61 126 iPc   22 08.60  -0.8
       0.5s    51.20nm          6.0mb
                ipP    23 37.70 381kmX
                i      31 14.50
                eS     32 18.50
ADE    94.80 130 iPd   22 09.40  -0.9
       1.2s  1500.00nm          7.1mb
NEW    95.46   6 iPc   22 13.50   0.2
                ipP    23 07.50 219kmX
                iPP    25 59.90
                pPP    26 55.20
GMW    95.57   9 P     22 14.80   1.0
                pP     23 09.30 221kmX
DPW    95.76   6 P     22 15.20   0.5
                pP     23 10.00 223kmX
RMW    95.78   9 P     22 15.10   0.2
RMQ    96.13 118 iPc   22 18.00   1.6
       0.8s   224.00nm          6.5mb
                e      38 21.00
                i      39 06.00
                e      47 16.00
LON    96.48   9 P     22 18.20   0.2
BMW    96.56  10 P     22 19.30   0.9
TBR    96.61 334 ePc   22 17.80  -0.8
                pP     23 13.20 225kmX
                PKKP   38 56.00
PNJ    96.79 334 iP    22 19.40   0.1
                pP     23 13.60 220kmX
                PP     26 16.70
GMTN   96.82 334 eP    22 19.40  -0.1
ELF    96.96 340 P     22 20.35   0.2
SHW    96.97   9 P     22 21.30   1.0
LDN    97.07 340 P     22 20.80   0.2
CMS    97.16 124 eP    22 20.00  -1.0
                e      23 09.00 197kmX
DLA    97.34 340 P     22 21.95   0.1
VGB    97.82   8 P     22 25.00   1.0
                pP     23 20.00 224kmX
SCP    98.13 337 iPDIFc22 24.82  -0.6
                epPd   23 17.96 215kmX
                esPd   23 39.64
                ePP    26 21.77
LRM    98.16   3 eP    22 26.00   0.2
                e      23 20.70 222kmX
COR    98.40  10 iPDIFc22 27.74   1.2
                epPd   23 20.55 214kmX
                ePP    26 30.81
                eS     33 32.10
                esS    35 09.22
BFD    98.60 130 iPd   22 25.00  -2.3
                i      26 32.00
                i      27 20.00
                i      38 54.80
                i      39 23.00
CLE    98.60 340 iP    22 28.00   0.4
RSSD   99.80 356 iPc   22 33.30   0.0
       1.0s   235.90nm          6.6mb
                PP     26 40.00
CBN   100.31 335 ePdiff22 35.30   0.2
                e      26 41.00
NA2   100.51 335 Pdiff 22 36.10   0.1
BWA   100.67 125 ePdiff22 37.00   0.1
                ePP    23 33.50
                e      26 58.60
                e      35 26.90
TOO   100.68 129 iPdiff22 37.00   0.1
       0.2s    54.00nm          6.7mb
                i      23 34.20
                i      27 38.00
                i      38 51.40
                i      39 16.50
COO   100.77 120 ePdiff22 37.00  -0.5
                e      38 32.00
                e      38 51.00
CVL   100.88 336 Pdiff 22 38.20   0.5
PTI   101.11   3 Pdiff 22 40.50   1.7
BW06  101.26   1 iPdiff22 39.50  -0.1
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14d 09h

		(pP)	23	34.20	
		sP	24	00.50	
		PP	25	59.20	
		i	26	42.50	
		iSP	35	29.80	
		i	36	43.80	
CAN	101.59	125	ePdiff	22	40.40 -0.6
		ePP	23	35.80	
		e	27	02.30	
		e	35	35.90	
CNB	101.83	125	e(Pdif	22	40.00 -2.1
		e	23	38.00	
		e	26	15.00	
		e	27	37.00	
		e	38	47.00	
		e	39	10.00	
FHC	102.00	12	ePdiff	22	44.21 1.6
BLA	102.21	337	ePdiff	22	42.70 -1.0
		PKKP	38	42.80	
NAV	102.23	337	Pdiff	22	43.70 -0.1
FOX	102.27	12	ePdiff	22	45.19 1.4
WDC	102.44	11	iPdiff	22	44.57 0.0
		iPKKP	38	41.59	
MIN	102.80	10	ePdiff	22	46.38 0.0
ORV	103.59	10	ePdiff	22	49.10 -0.6
		e	26	50.00	
DAU	103.60	2	Pdiff	22	51.90 1.8
OUG	103.76	3	Pdiff	22	51.90 1.3
	1.2s	44.54nm			6.2mb
FVM	104.11	345	ePdiff	22	51.70 -0.3
		pP	23	46.90	
		PKKP	39	41.00	
GLD	104.21	357	ePdiff	22	53.10 0.4
	1.5s	125.00nm			6.6mb
		pP	23	48.20	
		e	26	14.30	
		e	27	07.00	
		iPKKP	38	39.60	
		pPKKP	39	36.20	
GOL	104.27	357	ePdiff	22	52.90 -0.2
	1.5s	86.48nm			6.5mb
		(pP)	23	48.00	
		e	27	11.50	
		eSP	35	58.10	
		eSPP	37	09.50	
		iPKKP	38	39.00	
		ipPKKP	39	35.00	
ELC	104.52	344	Pdiff	22	54.00 0.1
TKL	104.66	339	Pdiff	22	54.60 0.0
GBTN	104.78	339	Pdiff	22	54.90 -0.2
BKS	105.13	11	ePdiff	23	02.20 5.6X
	0.7s	19.00nm			6.2mb
	Z 20s	7.00um			6.2Msz
	N 20s	7.00um			
	E 20s	2.80um			
		iPP	23	51.20	
		e	27	16.00	
		ePPS	34	35.60	
JSC	105.17	337	iPdiff	22	57.00 0.2
		epP	23	50.00	
		e	27	06.20	
CM8	105.24	9	iPdiff	22	56.93 -0.2
		epPd	23	49.57	
		ePP	27	16.96	
		eSDIF	34	27.29	
		i	36	05.28	
		ePKKP	38	34.38	
PV09	105.54	0	ePdiff	22	59.00 0.2
		e	27	09.20	
		PKKP	38	35.30	
		pPKKP	39	32.80	
		e	46	53.00	
GRT	105.54	344	Pdiff	22	59.00 0.6
TNP	105.56	7	iPdiff	22	59.50 0.8
	0.8s	16.47nm			6.2mb
		PP	27	17.10	
		(PKKP)	38	54.00	
BONR	105.57	B	Pdiff	23	00.60 1.7
MHC	105.75	11	ePdiff	23	01.70 2.2
		ePKKP	38	35.00	
ARN	105.75	10	Pdiff	23	01.30 1.9
POW	106.03	345	Pdiff	22	59.30 -1.3
FRI	106.36	9	ePdiff	23	02.84 0.8
		ePKKP	38	30.37	
PWLA	106.45	342	Pdiff	23	01.90 -0.6
OLY	106.72	345	Pdiff	23	03.70 0.0
DZM	106.85	105	iPdiff	23	04.60 -0.1

		i	27	07.00	
PRI	107.07	10	ePdiff	23	07.70 2.3
		ePKKP	38	29.45	
CLC	107.76	7	ePdiff	23	09.00 0.6
		e	24	06.00	
CLC	107.76	7	ePKP	27	16.00 0.9
ISA	107.82	8	ePdiff	23	10.00 1.3
ISA	107.82	8	ePKP	27	14.00 -1.3
GSC	108.35	7	ePKP	27	21.00 4.7X
GSC	108.35	7	iPdiff	23	12.58 1.5
		epPd	24	06.05	
		ePP	27	37.41	
MEO	108.60	351	iPdiff	23	12.50 0.4
SBB	108.85	8	ePdiff	23	15.00 1.7
SBB	108.85	8	ePKP	27	18.00 0.7
SBC	108.87	9	ePdiff	23	13.44 0.2
		ePP	27	43.40	
ANMO	109.05	358	iPdiff	23	16.26 2.0
		ipPd	24	09.07	
		e	26	28.00	
		e	27	27.00	
		ePP	27	42.91	
		eSKKS	34	33.92	
		ePS	36	50.08	
		iPKKP	38	38.40	
		ipPKKP	39	39.10	
MWC	109.29	8	ePdiff	23	17.00 1.6
MWC	109.29	8	ePKP	27	27.00 8.8X
PAS	109.35	8	ePKP	27	18.00 -0.1
PAS	109.35	8	iPdiff	23	16.08 0.7
		epPd	24	09.22	
		esPd	24	30.91	
RVR	109.59	7	ePdiff	23	17.00 0.5
RVR	109.59	7	ePKP	27	19.00 0.4
TPC	109.61	6	ePdiff	23	18.00 1.4
TPC	109.61	6	ePKP	27	32.00 13.3X
PEC	109.71	7	ePdiff	23	17.00 -0.1
PEC	109.71	7	PKP	27	19.50 0.6
		PP	27	54.20	
		PKKP	38	22.60	
		pPKKP	39	19.80	
PLM	110.27	7	ePdiff	23	21.00 1.2
PLM	110.27	7	ePKP	27	20.00 -0.1
GLA	110.75	5	ePdiff	23	23.00 1.3
GLA	110.75	5	ePKP	27	22.00 1.1
		e	28	05.00	
BAR	110.96	7	ePdiff	23	27.00 4.4X
BAR	110.96	7	ePKP	27	23.00 1.8
SOB1	113.12	276	ePKP	27	24.90 -1.0
		e	28	21.90	
GRW	114.38	308	ePKP	27	28.20 -0.2
NVL	114.83	198	iPKPd	27	27.00 -0.4
		epP	28	25.00	
		e	28	36.00	
		e	28	42.00	
		e	29	27.00	
		i	29	42.00	
		e	29	58.00	
		e	30	18.00	
		e	30	42.00	
		e	30	49.00	
		ePP	31	07.50	
		e	31	13.00	
		epPP	32	03.00	
		e	32	39.00	
		ePPP	33	02.00	
		epPPP	33	53.00	
		e	34	50.00	
		i	35	03.00	
		e	35	32.00	
		e	35	37.00	
		e	36	07.00	
TRN	115.35	307	ePKP	27	31.00 0.9
	0.7s	101.40nm			
		e	28	37.00	
		e	29	21.00	
		e	30	07.00	
		e	38	05.60	
MSZ	118.78	126	ePKP	27	35.10 -0.6
TLC	119.74	126	PKP	27	37.30 -0.5
MHZ	119.83	126	PKP	27	37.30 -0.6
AFI	119.88	85	ePKPc	27	38.68 -0.1
LTZ	120.94	123	PKP	27	38.80 -1.2
THZ	120.98	121	PKP	27	38.20 -1.9
DIW	121.32	120	PKP	27	38.20 -2.6
MOZ	121.55	124	PKP	27	39.60 -1.4
KHZ	121.67	122	PKP	27	38.80 -2.5

TCW	121.72	120	ePKP	27	39.50 -1.9
CNZ	121.85	118	PKP	27	39.30 -2.6
NGZ	121.88	118	PKP	27	39.50 -2.5
MRW	122.03	120	PKP	27	40.30 -1.7
KIW	122.04	120	PKP	27	40.10 -2.0
WEL	122.10	120	PKP	27	41.60 -0.5
			PP	29	20.00
			pPP	30	08.00
			PPP	32	16.00
			(SP)	40	16.00
			SS	45	22.00
			SSS	50	10.00
CAW	122.24	120	PKP	27	41.10 -1.4
WDW	122.25	120	PKP	27	41.00 -1.4
MNG	122.34	119	ePKP	27	40.90 -1.8
BAO	122.44	274	ePKPc	27	41.50 -2.2
MOW	122.48	120	ePKP	27	42.00 -0.9
PGZ	122.90	119	PKP	27	43.10 -0.6
BMA	123.00	265	ePKP	27	45.00 0.5
			e	27	47.90
HBZ	123.22	115	PKP	27	43.40 -1.0
PUZ	123.37	115	PKP	27	43.10 -1.7
MRX	123.80	351	(PKP)	27	41.00 -5.1X
IISM	123.91	347	(PKP)	27	47.50 1.2
IIT	124.05	348	(PKP)	27	47.00 0.0
PPM	124.05	348	(PKP)	27	47.50 0.2
BMG	125.30	315	ePKP	27	40.00 -9.3X
VAO	125.41	266	ePKP	27	49.30 0.0
OXX	125.65	346	(PKP)	27	51.50 1.5
PBJ	125.99	344	(PKP)	27	50.00 -0.5
SPA	126.15	180	iPKPc+	27	49.70 0.2
	1.0s	225.00nm			
	Z 20s	4.95um			6.2Msz
		i	31	00.00	
LPS	126.31	336	ePKP	27	42.50 -8.7X
		e	29	45.00	
ACX	126.40	349	(PKP)	27	52.50 1.2
TPX	126.67	340	(PKP)	27	52.00 0.2
FUO	126.98	314	ePKP	27	50.00 -2.9
UPA	127.15	323	iPKPc	27	51.50 -1.2
	1.3s	492.31nm			
	Z 21s	1.61um			5.7Msz
		i	29	52.00	
BOG	127.85	314	iPKPd	27	55.00 0.4
PPD	128.45	269	(PKP)	27	36.80 -18.2X
		e	27	55.20	
ITB	132.10	268	e(PKP)	28	00.50 -1.4
ITB1	132.17	268	e(PKP)	28	00.00 -2.0
ITB7	132.22	268	e(PKP)	27	59.00 -3.1X
PSO	132.51	315	ePKP	27	54.50 -9.0X
SIV	133.09	283	PKP	28	01.00 -3.0
		i	28	13.50	
QUR	134.31	315	ePKP	27	57.60 -9.4X
CCH	137.86	285	PKP	28	01.00 -12.4X
		i	28	13.50	
ZOBO	138.74	288	Pdiff	25	36.00 9.0X
	Z 24s	2.44um			5.9MszX
		LR	13	04.00	
ZOBO	138.74	288	iPKPc	28	14.80 -0.5
		epP'df	29	08.76	
		iPP	31	05.03	
LPB	138.88	288	PKP	28	04.20 -11.2X
	1.0s	50.00nm			
	Z 20s	3.90um			6.1Msz
		i	28	06.80	
		i	40	51.00	
		LR	12	42.00	
CNCB	138.95	287	PKP	28	04.80 -10.9X
LPA	138.95	256	iPKP-	28	06.00 -8.4X
		ipPKP	29	06.00	
		ePP	31	04.00	
		ipPP	31	50.40	
		eSP	41	24.00	
PMO	139.29	69	iPKP	28	08.90 -6.6X
	1.2s	360.00nm			
AFR	139.38	74	iPKP	28	07.10 -8.6X
	1.2s	340.00nm			
TPT	139.49	69	iPKP	28	09.20 -6.7X
	1.2s	315.00nm			
PPT	139.55	73	iPKP	28	08.40 -7.6X
	1.2s	565.00nm			
PAE	139.60	74	iPKP	28	08.40 -7.7X
	1.2s	395.00nm			
VAH	139.64	69	iPKP	28	09.00 -7.2X
	1.2s	270.00nm			
PPN	139.64	73	iPKP	28	08.50 -7.7X
	1.2s	280.00nm			

```
RUV     139.79  69 iPKP  28 09.50  -6.9X
         1.2s   270.00nm
TVO     139.93  73 iPKP  28 09.80  -7.0X
         1.2s   480.00nm
AIA     140.99 208 ePKP  28 13.60  -3.6X
SLA     141.17 275 ePKPd 28 11.00  -8.0X
ARE     141.42 291 iPKP  28 13.50  -6.3X
PT10    142.47 302 iPKPc 28 17.20  -4.1X
TBI     142.76  81 iPKP  28 18.30  -3.2X
         1.1s   590.00nm
CYA     143.02 270 ePKPc 28 16.30  -5.6X
ANT     144.62 280 iPKPc+28 23.10  -1.6
                   i     29 14.00
RTLL    146.24 267 iPKPd 28 27.70   0.4
ZON     146.48 266 iPKPc 28 27.50  -0.2
PEL     148.59 264 iPKPc 28 31.50   0.5
         1.5s  1000.00nm
RKT     153.89  67 iPKP  28 39.40   0.5
         1.2s   720.00nm
      S.D. = 1.0  on 623 of 674 obs.
-----------------------------------------
%  JUL  14, 1991  09h 42m 18.99± 0.73s
   39.168 N ± 5.8km   29.350 E ± 8.1km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 3.1 (ISK).

DST       0.71 308 ePg   42 33.00   0.0
KHL       0.85 171 iPg   42 35.50   0.0
                   iSg   42 47.00
IZI       1.17   5 iPn   42 41.30   0.4
GPA       1.34  33 iPn   42 44.10   0.4
YLV       1.40   1 ePn   42 43.80  -0.8
EYL       1.53  24 ePn   42 46.30  -0.1
EDC       1.64 316 ePn   42 48.50   0.5
CTT       2.10 341 ePn   42 54.30  -0.3
      S.D. = 0.5  on   8 of   8 obs.
-----------------------------------------
*  JUL  14, 1991  10h 03m 24.55± 0.62s
   32.869 S ±13.9km  109.142 W ±11.5km
   DEPTH =  10.0km  (geophysicist)
   5.0mb (  9 obs.)
 EASTER ISLAND CORDILLERA            (684)

ARE     37.68  74 eP     10 43.50   1.3
LPB     40.40  76 P      11 06.00   1.0
ZOBO    40.51  76 P      11 06.70   0.5
         1.3s    15.77nm          4.6mb
SIV     46.47  81 P      11 53.20  -0.5
PPD     51.89  93 eP     12 34.00  -1.6
                  e      12 41.90  26kmX
BAR     65.58 353 eP     14 10.00  -0.6
GLA     65.79 355 eP     14 13.00   1.1
PLM     66.27 353 eP     14 15.00  -0.2
PEC     66.83 353 ePd    14 18.50  -0.1
TPC     66.94 354 eP     14 19.00  -0.2
PAS     67.20 352 eP     14 22.00   1.1
ANMO    67.51   2 eP     14 23.00   0.0
         1.4s    18.60nm          5.1mb
SBB     67.69 352 eP     14 26.00   2.0
GSC     68.19 353 eP     14 26.00  -1.2
ISA     68.73 352 eP     14 31.00   0.5
CLC     68.78 353 eP     14 30.00  -0.8
TUL     69.55  12 ePd    14 34.70  -0.7
         1.2s    30.70nm          5.3mb
MHC     70.82 349 eP     14 44.50   1.2
TNP     70.99 353 ePd    14 44.60   0.2
         0.9s     8.79nm          4.9mb
                  e(pP)  14 52.50  25kmX
PV09    71.00   0 e(P)   14 44.30  -0.3
CMB     71.31 351 ePd    14 46.70   0.5
JSC     71.75  24 P      14 51.80   3.0X
GOL     72.29   3 ePd    14 51.60  -0.6
FVM     72.61  15 e(P)   14 51.50  -2.4
         0.6s    11.05nm          5.1mb
ORV     72.96 350 eP     14 56.00   0.1
WDC     74.12 349 eP     15 03.00   0.4
BW06    75.28 360 ePd    15 08.10  -1.4
         1.0s    10.00nm          4.8mb
RSSD    76.76   4 P      15 17.80   0.0
                  pP     15 24.90  23kmX
NEW     81.08 355 ePd    15 40.40  -0.6
         1.1s    51.85nm          5.5mb
PNT     82.35 353 eP     15 48.00   0.5
         1.0s    14.00nm          5.0mb
YKA     95.13 357 eP     16 48.30  -0.1
         1.2s     2.30nm          4.5mb
TIY     145.92 290 ePKP  23 03.00  -2.3
HHC     146.71 296 PKP   23 06.00  -0.5
OBN     147.33  37 ePKP  23 08.00   1.2
         2.0s  1000.00nm
BTO     147.89 295 ePKP  23 08.00  -0.4
XAN     148.34 283 ePKP  23 08.50  -0.7
IRK     149.05 319 ePKP  23 11.10   1.4
                   e     23 46.00
CHTO    151.22 248 PKP   23 14.20   0.2
LZH     152.69 286 ePKP  23 18.00   2.1
                   PKPab 23 32.50
GTA     155.78 294 ePKP  23 24.00   4.0X
      S.D. = 1.1  on  38 of  40 obs.
-----------------------------------------
*  JUL  14, 1991  10h 06m 31.43± 3.64s
   41.833 N ±23.2km  125.951 W ±19.1km
   DEPTH =  10.0km  (geophysicist)
 OFF COAST OF NORTHERN CALIFORNIA( 34)

DBO       2.38  56 P      07 10.90  -0.3
HSO       2.70  50 Pd     07 15.34  -0.5
HBO       3.34  52 P      07 25.16   0.2
KMOR      4.20  24 P      07 36.90  -0.1
GT2       4.27  38 P      07 37.79  -0.1
PGO       4.43  34 P      07 40.41   0.2
TDH       4.59  40 P      07 43.24   0.6
NLO       4.62  22 P      07 43.40   0.4
VLMM      4.67  36 P      07 44.07   0.4
VIPM      4.73  54 P      07 44.01  -0.6
CROR      4.79  47 P      07 45.79   0.3
RVW       4.90  27 P      07 47.50   0.7
LVP       4.95  30 P      07 47.22  -0.4
MTMW      4.99  32 P      07 47.36  -0.8
BMW       5.04  22 P      07 48.58  -0.3
FL2       5.08  30 P      07 49.18  -0.3
JLK       5.11  31 P      07 49.36  -0.5
HSR       5.12  31 P      07 49.91  -0.2
CDFW      5.13  32 P      07 49.50  -0.6
ESD       5.15  31 P      07 50.52   0.0
VTHM      5.15  48 P      07 50.25  -0.3
STD       5.16  30 P      07 50.41  -0.2
ERK       5.17  29 P      07 50.39  -0.4
SOSW      5.19  31 P      07 50.76  -0.3
CZM       5.23  27 P      07 51.85   0.4
VGB       5.26  44 P      07 51.67  -0.3
TDL       5.26  30 P      07 51.69  -0.3
KOSW      5.36  29 P      07 53.40   0.0
LMW       5.50  27 P      07 56.08   0.6
GL2       5.54  40 P      07 57.27   1.2
GLK       5.67  32 P      07 57.49  -0.3
JBO       5.73  49 P      07 59.37   0.7
LON       5.74  30 P      07 58.32  -0.5
WPW       5.80  32 P      07 59.15  -0.5
GHW       5.84  26 P      08 00.42   0.4
MEW       5.86  23 P      08 01.17   0.8
FMW       5.95  30 P      08 01.60  -0.2
GSM       6.14  28 P      08 04.51   0.1
PRW       6.29  44 P      08 06.59   0.1
RMW       6.35  26 P      08 07.88   0.4
EBG       6.37  35 P      08 08.13   0.4
RSW       6.46  43 P      08 09.14   0.2
MDW       6.53  41 P      08 10.43   0.6
WIW       6.64  44 P      08 11.40   0.0
MJ2       6.69  43 P      08 12.03   0.0
JCW       6.97  23 P      08 15.81  -0.2
CBSW      7.30  33 P      08 19.36  -1.4
RPW       7.32  24 P      08 20.74  -0.2
RSSD     16.20  75 eP     10 32.00  11.2X
FFC      20.39  43 iPd    11 10.80   0.0
         0.9s    10.00nm          4.2mb
      S.D. = 0.5  on  49 of  50 obs.
-----------------------------------------
?  JUL  14, 1991  10h 32m 44.94± 1.82s
   17.683 N ±18.0km  101.438 W ±13.4km
   DEPTH =  33.0km  (normol)
 NEAR COAST OF GUERRERO, MEXICO  ( 58)

ACX       1.71 118 (P)    33 12.50  -0.4
                   iS    33 30.00
MRX       2.02   7 eP    33 17.00  -0.4
                   iS    33 47.50
TAC       2.73  51 (P)    33 11.00 -16.7X
                   (S)   34 14.00
CGX       2.78 317 eP     33 28.50   0.3
                   eS    34 08.50
PPM       3.00  62 eP     33 30.00  -1.8
                   iS    34 12.00
IIT       3.26  65 eP     33 36.00   0.8
IISM      4.07  71 eP     33 48.00   1.5
                   (S)   34 38.00
OXX       4.54  97 (P)    33 58.00   4.6X
      S.D. = 1.5  on   6 of   8 obs.
-----------------------------------------
?  JUL  14, 1991  10h 47m 18.53± 1.01s
   39.138 N ± 8.6km   27.619 E ±10.1km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 2.7 (ISK).

IZM       0.79 201 ePg    47 33.70  -0.2
                   eSg   47 46.70
DST       0.91  59 ePn    47 36.50   0.5
EZN       1.21 305 ePn    47 41.60   0.5
EDC       1.22   9 iPn    47 40.50  -0.8
      S.D. = 1.1  on   4 of   4 obs.
-----------------------------------------
?  JUL  14, 1991  11h 32m 42.67± 0.98s
   45.327 N ± 9.6km   21.142 E ± 9.7km
   DEPTH =  10.0km  (geophysicist)
 ROMANIA                             (358)

TIM       0.41   8 iPc    32 51.00  -0.1
BEO       0.70 224 iPg    32 56.50   0.0
                   iSg   33 07.50
GZR       1.15  86 ePd    33 04.00  -0.3
DEV       1.36  65 ePc    33 08.00   0.4
      S.D. = 0.5  on   4 of   4 obs.
-----------------------------------------
%  JUL  14, 1991  12h 27m 01.81± 0.59s
   37.937 N ± 7.4km   14.334 E ± 4.3km
   DEPTH =  10.0km  (geophysicist)
 SICILY                              (398)

GIB       0.25 282 P      27 06.70  -0.4
                   eSg   27 11.70
MNO       0.29  91 Pd     27 08.30   0.4
                   eSg   27 14.90
ATN       0.92  76 P      27 19.90   0.5
MEU       0.96 150 P      27 18.50  -1.6
                   eSg   27 34.50
USI       1.19 311 P      27 23.00  -1.0
CVT       1.25 259 P      27 25.90   0.9
SOI       1.37  84 P      27 28.20   1.4
ERC       1.38 275 P      27 27.90   0.7
LVI       1.58 272 P      27 30.20   0.3
CZI       1.90  47 P      27 34.10  -0.5
                   eSg   28 02.10
TDS       2.33  42 P      27 40.80   0.1
MMN       2.34  33 P      27 41.20   0.3
CSI       2.39  39 P      27 39.30  -2.3
MGR       2.39  23 P      27 41.20  -0.5
ORI       2.69  37 P      27 47.50   1.6
      S.D. = 1.2  on  15 of  15 obs.
-----------------------------------------
?  JUL  14, 1991  12h 55m 14.16± 1.50s
   37.887 N ±14.5km   14.320 E ± 9.9km
   DEPTH =  29.9 ± 14.4 km
 SICILY                              (398)

GIB       0.25 294 Pc     55 21.20   0.1
                   eSg   55 25.70
MNO       0.30  81 Pc     55 21.50  -0.3
                   eSg   55 27.30
MEU       0.92 148 P      55 31.00  -0.1
                   eSg   55 45.00
ATN       0.94  73 P      55 32.10   0.8
CZI       1.95  46 P      55 45.30  -0.4
      S.D. = 1.0  on   5 of   5 obs.
-----------------------------------------
&  JUL  14, 1991  13h 13m 45.68s
   57.173 N          152.745 W
   DEPTH =  43.0km
 KODIAK ISLAND REGION                ( 13)
      <AEIC>. ML 3.3 (AEIC).

KDC       0.59  13 iP     13 57.04  -0.7
                   eS    14 05.71
SYI       1.45   7 iP     14 08.71  -1.1
                   S     14 27.23
CDD       1.83 345 eP     14 14.26  -0.9
                   eS    14 37.11
MCNL      2.19 338 eP     14 18.94  -1.4
AUI       2.20 351 eP     14 19.73  -0.7
                   eS    14 45.01
```

14d 13h

AUE	2.22	352	eP	14 19.64	-1.1
AUH	2.23	351	eP	14 19.76	-1.2
XLV	2.35	13	eP	14 21.54	-1.1
			eS	14 48.93	
CNPM	2.49	18	eP	14 23.12	-1.6
			eS	14 50.85	
HOM	2.56	13	eP	14 24.53	-1.1
PDB	2.73	344	eP	14 25.81	-2.3
IVS	2.85	357	eP	14 28.03	-2.0
NNL	2.98	14	eP	14 29.99	-1.5
RDW	3.32	359	eP	14 34.48	-2.1
REF	3.33	0	eP	14 34.44	-2.3
RDN	3.35	360	eP	14 34.72	-2.3
NCT	3.40	358	eP	14 34.14	-3.6
SEW	3.41	29	eP	14 34.25	-3.4
RDT	3.42	3	eP	14 35.01	-2.9
DFR	3.43	0	eP	14 36.39	-1.7
SLKM	3.59	20	eP	14 37.39	-3.0
LTI	3.85	40	eP	14 40.16	-3.7
MTU	3.88	41	eP	14 41.05	-3.3
SPU	4.04	5	eP	14 43.76	-2.9
CKL	4.04	3	eP	14 44.30	-2.4
KNIM	4.12	37	eP	14 43.72	-4.0
CGLM	4.17	5	eP	14 45.06	-3.4
NCG	4.25	4	eP	14 47.44	-2.4
GLI	4.73	36	eP	14 51.94	-4.4
VZW	5.04	37	eP	14 56.95	-3.7
			eS	15 51.26	
VLZ	5.16	37	eP	14 58.93	-3.4
KLU	5.56	36	eP	15 04.82	-3.4
GLB	6.26	43	eP	15 14.21	-3.8
BALM	6.61	50	eP	15 19.39	-3.5
PNL	7.44	65	eP	15 30.86	-3.6

35 obs. associated

? JUL 14, 1991 13h 23m 42.16± 1.39s
17.683 N ±15.2km 101.181 W ±12.8km
DEPTH = 33.0km (normal)
NEAR COAST OF GUERRERO, MEXICO (58)

ACX	1.50	122	iP	24 06.50	-0.6
			iS	24 25.50	
MRX	2.01	360	eP	24 13.50	-0.9
			iS	24 47.50	
UNM	2.51	49	eP	24 26.50	4.7X
PPM	2.79	60	eP	24 26.50	0.6
			iS	25 08.50	
CGX	2.95	313	eP	24 28.50	0.5
			iS	25 03.00	
IIT	3.04	64	(P)	24 37.00	7.7X
			(S)	25 09.50	
IISM	3.84	70	(P)	24 44.50	4.1X
OXX	4.30	97	(P)	24 47.50	0.4
			(S)	25 41.50	
PBJ	5.66	102	(P)	25 13.00	6.8X

S.D. = 1.0 on 5 of 9 abs.

% JUL 14, 1991 13h 28m 35.56± 1.04s
11.663 N ±10.2km 61.415 W ±14.3km
DEPTH = 33.0km (normal)
WINDWARD ISLANDS (95)
MD 2.8 (TRN).

GRW	0.55	334	eP	28 47.03	0.1
			eS	28 58.11	
PIG	0.75	132	eP	28 48.43	-1.2
			eS	29 02.49	
BOT	0.84	126	eP	28 51.53	0.6
TRN	1.01	179	eP	28 52.45	-0.9
			eS	29 07.41	
TCE	1.02	199	eP	28 53.37	-0.1
			eS	29 07.24	
TBH	1.22	164	eP	28 58.11	1.7
			eS	29 15.10	

S.D. = 1.4 on 6 of 6 abs.

JUL 14, 1991 14h 19m 08.61± 0.21s
36.410 N ± 3.9km 138.339 E ± 3.8km
DEPTH = 187.9km (10 depth phases)
5.2mb (43 abs.)
HONSHU, JAPAN (227)

MTMJ	0.46	292	iP+	19 36.30	1.8
			S	19 56.20	
NIIJ	0.98	32	iP+	19 37.90	0.7
			S	19 59.50	
IIDJ	0.99	201	iPd	19 39.10	1.7
			S	20 01.80	
KAKJ	1.50	97	iP+	19 41.00	-0.5
			S	20 05.50	
SHK	4.99	250	iPc	20 25.20	2.0
	1.0s	552.00nm			
SAP	7.03	18	eP	20 48.00	-1.9
			eS	22 04.00	
MDJ	10.55	324	Pc	21 37.50	1.4
	1.2s	400.00nm		5.7mb	
N	12s	0.50um			
E	12s	0.50um			
			S	23 37.00	
			SS	23 52.00	
CN2	12.32	311	eP	21 58.80	0.1
	1.0s	40.00nm		4.8mb	
			S	24 17.00	
SNY	12.67	300	Pd	22 05.80	2.5
	1.0s	100.00nm		5.2mb	
Z	10s	0.80um		3.9MszX	
N	10s	0.50um			
DL2	13.47	286	eP	22 15.00	1.6
	1.0s	470.00nm		5.9mb	
E	10s	0.60um			
SSE	15.22	255	Pc	22 35.50	0.4
	1.0s	300.00nm		5.7mb	
N	10s	0.50um			
E	10s	0.20um			
NJ2	16.69	261	Pc	22 52.00	-1.0
	1.1s	300.00nm		5.6mb	
TIA	17.10	276	Pc	22 57.00	-1.0
	1.2s	200.00nm		5.4mb	
N	11s	0.40um			
			S	26 03.00	
BJI	17.78	288	eP	23 03.00	-2.3
	1.5s	250.00nm		5.4mb	
			eS	26 14.00	
QZH	20.43	241	Pc	23 29.50	-3.1X
	0.8s	90.00nm		5.3mb	
TIY	20.70	281	Pc	23 33.00	-2.4
	1.0s	60.00nm		5.1mb	
Z	14s	0.48um		4.0MszX	
N	13s	0.55um			
WHN	20.82	261	Pc	23 36.50	0.0
	1.5s	300.00nm		5.6mb	
Z	14s	0.60um		4.1MszX	
			eS	27 15.00	
BTO	22.51	289	P	23 51.00	-2.1
N	11s	0.30um			
E	14s	0.30um			
			eS	27 41.00	
GUMO	23.47	164	eP	24 01.50	-0.9
	1.1s	1017.67nm		6.3mb X	
PJG	23.47	164	eP	24 02.10	-0.3
GUA	23.53	164	eP	24 02.60	-0.3
	0.7s	224.66nm		5.9mb	
XAN	24.11	273	P	24 07.00	-1.4
	0.6s	70.00nm		5.4mb	
GZH	25.35	245	Pc	24 20.60	0.7
YAK	26.19	351	iPd	24 26.10	-1.1
			epP	24 54.00	133kmX
			ePP	25 17.00	
			ePPP	25 23.00	
			ePcP	27 54.00	
			eS	28 45.00	
			iPS	29 02.00	
			esS	29 11.00	
			eSS	29 45.00	
			eSSS	30 03.00	
			iScS	34 56.00	
LZH	27.74	280	iPc	24 40.50	-1.1
	1.5s	100.00nm		5.3mb	
Z	15s	0.29um		4.0MszX	
GYA	28.68	259	iPc	24 47.80	-2.3
	1.2s	90.00nm		5.4mb	
			S	29 25.60	
CD2	29.20	269	eP	24 53.10	-1.5
	0.8s	50.00nm		5.3mb	
GTA	30.39	287	eP	25 04.00	-1.1
	1.0s	30.00nm		5.0mb	
Z	12s	0.40um		4.3MszX	
N	11s	0.40um			
			pP	25 41.00	179km
			sP	26 02.00	
			PP	26 12.60	
			PcP	27 59.20	
			S	29 48.20	
			SS	31 43.00	
			ScS	35 19.20	
QIZ	30.43	243	P	25 06.40	1.0
KMI	32.42	260	Pc	25 22.00	-1.0
	2.5s	300.00nm			5.5mb
			PP	26 42.50	
LOE	37.44	249	eP	26 05.00	-0.4
CHG	38.75	254	iPc	26 16.50	0.3
	0.9s	36.97nm			5.0mb
JAY	38.79	176	ePd	26 17.00	0.5
WMQ	38.92	297	P	26 17.50	0.0
	0.8s	60.00nm			5.3mb
Z	12s	0.30um			4.3MszX
N	10s	0.40um			
			sP	27 22.00	
			PP	27 59.50	
			PcP	28 24.50	
			ScP	31 53.00	
			S	32 00.00	
			ScS	36 04.50	
BDT	39.61	252	eP	26 24.00	0.7
NST	39.71	249	eP	26 25.30	1.2
LSA	39.80	274	P	26 24.80	-0.5
SHL	40.92	268	iP	26 33.60	-0.7
			eS	32 30.50	
KHT	41.42	249	eP	26 39.20	1.0
ANM	43.42	32	e(P)	26 54.20	0.4
SNG	45.05	239	eP	27 08.40	1.1
IPM	46.65	236	ePc	27 20.30	0.3
SVW	47.49	37	ePd	27 26.60	0.5
KSH	48.41	294	eP	27 35.00	1.4
KHKI	49.40	210	eP	27 40.40	-0.7
			e	30 44.90	
MTN	49.46	189	eP	27 40.80	-0.7
HNR	49.93	152	P	27 46.00	0.9
SLKM	50.16	38	e(P)	27 45.00	-1.5
PMR	50.59	36	iPc	27 48.60	-1.1
FBA	50.94	32	ePd	27 53.00	0.7
	0.9s	37.08nm			5.0mb
NDI	51.36	280	iP	27 55.50	-0.4
BALM	53.91	36	ePd	28 14.00	-0.5
			pP	28 57.70	194km
HYB	55.71	267	ePc	28 27.50	-0.4
	1.0s	100.00nm			5.5mb
INK	56.06	27	iPd	28 29.30	-0.4
	1.0s	48.00nm			5.2mb
WRA	56.17	185	P	28 29.00	-2.0
	0.7s	21.10nm			5.0mb
WR2	56.18	185	iPd	28 30.40	-0.6
			i	29 13.90	191km
QIS	56.67	179	iPc	28 33.60	-0.8
MBC	57.81	16	ePd	28 41.00	-0.9
	1.0s	28.00nm			5.0mb
GBA	58.70	264	Pd	28 48.70	-0.1
	0.9s	78.60nm			5.5mb
QUE	58.76	286	Pc	28 48.80	-0.5
	1.2s	77.42nm			5.4mb
KOD	60.61	261	eP	29 02.00	-0.2
MAIO	61.68	296	eP	29 09.00	0.1
NANU	62.49	204	eP	29 14.00	-0.1
WARB	63.23	192	eP	29 19.00	0.1
	0.4s	9.00nm			5.0mb
RMQ	63.33	170	iPd	29 21.00	1.4
	0.5s	19.00nm			5.2mb
DZM	63.94	151	iPc	29 24.40	0.7
SOD	64.57	337	iP	29 26.80	-0.4
YKA	65.57	29	eP	29 32.10	-1.5
	1.1s	9.60nm			4.5mb
OBN	67.09	322	eP	29 43.00	-0.4
	0.9s	********nm			7.7mb X
			e	30 45.00	270kmX
FORR	67.59	190	eP	29 46.00	-0.6
KAF	67.71	332	iP	29 46.20	-0.9
	0.5s	5.80nm			4.6mb
STK	68.00	177	iPc	29 49.40	0.2
	1.0s	2.20nm			3.9mb X
MRWA	68.58	201	eP	29 52.00	-0.8
NUR	69.32	331	iP	29 56.20	-0.8
PNT	70.32	43	ePc	30 03.00	-0.4
	0.8s	8.00nm			4.5mb
NEW	72.28	43	P	30 15.00	-0.1
	0.9s	10.96nm			4.6mb
			pP	31 59.90	488kmX
UPP	72.41	333	iP	30 14.30	-1.1
HFS	73.61	335	eP	30 21.20	-1.3
	1.2s	15.70nm			4.6mb
Z	18s	0.05um			3.8Msz
			LR	59 20.00	

```
NAO     74.07 336 P      30 13.00 -12.1X
        0.9s      8.50nm
FFC     75.54  31 iPd    30 33.50  -0.1
        0.8s     10.00nm          4.6mb
CMB     76.23  53 ePd    30 37.50  -0.3
        1.2s     76.39nm          5.3mb
                  pP     31 23.20 189km
LRM     76.30  43 eP     30 38.70   0.3
                  e      31 24.40 189km
VRI     77.57 318 ePc    30 45.50   0.5
FRB     77.92  12 eP     30 47.00   0.5
                  pP     31 33.00 189km
KRA     78.20 325 eP     30 49.00   0.7
        0.9s     22.00nm          4.9mb
TNP     78.22  51 ePc    30 50.00   1.0
        1.0s     50.00nm          5.2mb
                  pP     31 35.00 185km
KSP     79.30 327 iPc    30 55.00   0.7
                  i      31 00.80  18kmX
                  e      31 45.00
                  e      33 54.60
BW06    79.84  44 ePc    30 57.50  -0.2
        0.9s      6.36nm          4.3mb
                  pP     31 44.00 191km
HRI     79.91 304 eP     30 58.50   0.5
BRG     80.30 328 eP     31 00.60   1.0
        1.0s     10.00nm          4.5mb
                  e      31 07.00  20kmX
                  e      31 56.10
                  e      34 04.10
CLL     80.37 329 iPd    31 00.90   1.0
        1.2s     16.00nm          4.6mb
                  e(pP)  31 50.00 202kmX
DSI     81.17 303 eP     31 05.00   0.5
MOX     81.45 329 eP     31 07.50   1.9
KHC     81.75 327 iP     31 08.00   0.8
        1.0s      3.50nm          4.0mb X
                  e      31 14.50  21kmX
                  e      31 57.00
GRF     82.34 328 ePc    31 11.50   1.2
        1.2s     24.00nm          4.8mb
                  e      31 17.10  18kmX
SRS     82.42 316 iPc    31 11.28   0.5
MBH     82.61 301 eP     31 13.00   0.9
KNT     82.77 317 ePc    31 13.44   0.8
VAY     82.85 317 iP     31 14.40   1.4
SKO     83.02 318 eP     31 15.10   1.2
PAIG    83.17 315 ePd    31 14.48  -0.2
LIT     83.72 316 ePd    31 17.48   0.0
ANMO    86.86  48 e(P)   31 35.00   1.7
                  pP     32 21.50 188km
ALQ     86.86  48 eP     31 34.30   1.0
        1.0s      9.50nm          4.6mb
                  epP    32 20.30 185km
ARE    146.92  61 e(PKP)38 33.00   4.2X
ZOBO   149.11  56 PKP    38 37.00   4.4X
                  i      39 14.00
LPB    149.31  57 PKP    38 39.00   6.3X
                  e      39 28.00
CNCB   149.59  57 PKP    38 39.20   5.9X
                  i      39 28.00
SIV    153.32  45 PKP    38 45.40   7.3X
     S.D. = 1.1  on 102 of 109 obs.
-----------------------------------
&  JUL  14, 1991  14h 23m 52.90s
   61.014 N          150.955 W
   DEPTH =  46.2km
 SOUTHERN ALASKA                  (  2)
      <AEIC>. ML 2.7 (AEIC).

NKA      0.31 207 ePc    24 03.54   1.8
SUA      0.46  13 iPd    24 03.25  -0.4
                  eS     24 11.70
SPU      0.56 288 iPd    24 04.31  -0.5
                  eS     24 13.91
CGLM     0.59 300 iPd    24 04.75  -0.5
                  eS     24 14.64
SLKM     0.62 144 iPc    24 05.20  -0.4
CKL      0.70 286 iPd    24 05.97  -0.7
NCG      0.70 304 iPd    24 06.17  -0.6
                  eS     24 16.76
PMS      0.72  71 iPc    24 06.42  -0.4
BGL      0.74 290 iPd    24 06.52  -0.7
                  eS     24 17.67
PWA      0.82  39 iPc    24 08.00  -0.3
RDT      0.84 239 iPd    24 07.74  -0.8
DFR      0.95 244 ePd    24 09.29  -0.8
                  eS     24 21.97
NNL      0.99 190 iPc    24 10.95   0.4
REF      1.01 239 ePc    24 10.25  -0.8
                  eS     24 24.16
SKT      1.01 344 ePd    24 10.08  -0.8
                  eS     24 23.94
RDN      1.02 241 ePc    24 10.20  -0.9
                  eS     24 23.86
PLRM     1.05  56 ePc    24 10.55  -0.9
RDW      1.06 240 eP     24 10.94  -0.8
                  eS     24 24.90
NCT      1.07 246 ePd    24 11.11  -0.7
                  eS     24 25.86
SEW      1.18 140 ePd    24 11.85  -1.3
GHO      1.24  51 iPc    24 13.28  -0.9
                  eS     24 30.05
BRLK     1.25 178 eP     24 13.79  -0.6
                  S      24 29.51
KNK      1.27  71 eP     24 13.88  -0.7
                  S      24 30.11
HOM      1.40 194 ePc    24 16.43   0.1
CUT      1.43  13 ePc    24 16.06  -0.7
CNPM     1.50 185 ePc    24 17.09  -0.7
KNIM     1.72 111 iPd    24 18.17  -2.7
LTI      1.82 121 ePd    24 20.07  -2.2
GLI      1.89  92 iPd    24 20.64  -2.6
MTU      1.93 121 eP     24 21.74  -2.1
PDB      2.02 234 iPc    24 23.89  -1.3
                  eS     24 47.84
AUE      2.05 217 eP     24 25.12  -0.5
VZW      2.14  87 eP     24 24.63  -2.3
VLZ      2.25  85 eP     24 26.23  -2.1
TRF      2.47   7 eP     24 31.06  -0.6
KLU      2.48  77 eP     24 29.47  -2.3
CDD      2.49 214 eP     24 30.30  -1.6
MDM      4.15  16 eP     24 53.95  -1.5
        38 obs. associated
-----------------------------------
?  JUL  14, 1991  15h 01m 17.68± 1.04s
   45.319 N ±10.3km   21.152 E ±10.3km
   DEPTH =  10.0km  (geophysicist)
 ROMANIA                          (358)

TIM      0.42   7 eP     01 26.00  -0.3
BEO      0.70 225 ePg    01 31.50   0.0
                  iSg    01 43.00
GZR      1.15  86 ePd    01 38.50  -0.7
DEV      1.35  65 ePd    01 43.50   1.0
SKO      3.35 176 eP     02 22.50  11.3X
      S.D. = 1.2  on   4 of   5 obs.
-----------------------------------
   JUL  14, 1991  17h 03m 26.35± 0.28s
   45.404 N ± 3.2km   21.076 E ± 3.7km
   DEPTH =  10.0km  (geophysicist)
   3.3mb (  1 obs.)
 ROMANIA                          (358)
      ML 3.5 (SKO).

TIM      0.35  17 iPc    03 35.00   1.5
SSR      0.72 139 eP     03 42.00   1.5
BEO      0.73 217 iPg    03 42.00   1.3
                  iSg    03 53.50
DEV      1.37  69 iPc    03 52.00   0.6
DRA      2.37 107 ePd    04 13.00   7.2X
BUD      2.52 326 iPn    04 08.00   0.1
PSZ      2.64 343 iPn    04 09.80  -0.1
CMP      2.80  91 iPc    04 18.00   6.0X
BLY      2.83 258 ePn    04 24.20  11.7X
                  eSn    04 59.80
MLR      3.43  87 iPd    04 21.50   0.5
SKO      3.44 175 ePn    04 22.00   0.9
        1.2s   293.00nm
                  iPg    04 32.50
                  i      04 35.00
                  iSg    05 21.00
                  i      05 23.20
                  Lg     05 41.00
ZAG      3.60 278 iPg    04 36.50  13.2X
                  iSg    05 27.00
PTJ      3.62 280 iPnc   04 23.90   0.1
                  eSn    05 09.50
PVL      3.76 124 eP     04 22.00  -3.6X
KKB      3.82 157 iP     04 27.00   0.4
SPC      3.83 352 iPn    04 26.50  -0.3
                  i      04 41.00
                  i      04 43.90
                  i(Sn)  05 16.70
                  i      05 34.60
ZST      3.90 317 iPnd   04 28.00   0.4
                  i      04 35.10
                  i      04 53.00
                  i(Sn)  05 11.50
VRI      3.99  81 iPc    04 30.00   1.1
HVAR     4.00 238 iPn    04 29.70   0.7
VBY      4.10 273 eP     04 45.00  14.7X
                  eSn    05 39.50
PLD      4.22 140 eP     04 32.00  -0.1
VAY      4.22 165 iPn    04 32.40   0.2
VKA      4.34 313 iPnc   04 33.30  -0.6
                  iSn    05 26.30
KNT      4.44 162 ePc    04 34.80  -0.5
GRG      4.55 167 ePd    04 36.96   0.1
RZN      4.56 143 iPc    04 38.00   0.9
FNA      4.62 177 ePc    04 53.72  15.8X
LJU      4.63 280 e(Pn)  04 38.50   0.6
                  e      04 58.50
                  eSg    06 02.00
SRS      4.66 156 ePd    04 38.28  -0.2
CEY      4.68 276 eP     04 56.00  17.3X
                  eSg    06 05.40
RIY      4.71 272 eP     04 46.00   6.8X
KRA      4.72 351 iPd    04 39.50   0.3
        0.5s    54.00nm
                  i      04 42.80
                  i      05 05.40
SOH      4.87 159 ePc    04 41.28  -0.2
KDZ      4.90 138 iPc    04 41.00  -0.8
                  iS     06 05.00
VOY      5.07 280 e(Pn)  04 48.50   4.2X
                  e      05 06.10
                  e(Sg)  06 15.30
TRI      5.14 276 ePn    04 46.10   0.9
                  eSn    05 44.30
ALN      5.79 139 ePd    04 53.40  -0.9
PAIG     5.80 160 ePc    04 52.84  -1.6
FVI      5.90 285 P      05 04.50   8.7X
                  (Sn)   05 54.00
DMK      6.03 124 eP     04 54.30  -3.4X
KSP      6.31 331 ePn    04 59.50  -2.2
                  iPg    05 15.20
                  eS     05 57.60
KHC      6.32 309 ePn    05 01.00  -0.8
                  e      05 40.50
                  Sn     06 10.00
SDI      6.44 238 P      05 19.00  15.4X
ASS      6.48 252 P      05 26.50  22.4X
SFI      6.74 261 P      05 28.00  20.2X
CRE      6.76 258 P      05 17.00   8.9X
EZN      6.79 143 iP     05 07.30  -1.0
WTTA     6.80 289 ePn    05 09.00   0.3
                  i      05 57.70
                  i      06 11.00
                  i      06 26.00
CTT      6.85 126 eP     05 07.00  -2.2
BRG      7.26 322 ePn    05 24.00   9.0X
                  e      06 25.00
                  e      06 44.00
                  e      07 45.00
GRF      7.93 306 eP     05 23.80  -0.5
      Z  21s      0.10um
                  eS     07 14.50
CLL      7.99 321 e(Pn)  05 29.00   3.9X
                  e      07 22.00
                  e      08 28.00
DST      8.04 133 eP     05 20.00  -6.0X
MOX      8.23 313 eP     05 27.00  -1.5
HFS     15.40 346 eP     07 06.00   1.0
        0.6s      1.00nm          3.3mb
NAO     16.59 342 P      07 08.80 -11.5X
        0.7s      1.70nm
     S.D. = 1.0  on  36 of  56 obs.
-----------------------------------
%  JUL  14, 1991  17h 18m 09.32± 0.83s
   43.708 N ± 8.7km   12.270 E ± 5.4km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                    (381)

CRE      0.24 251 P      18 14.90   0.3
                  eSg    18 19.70
RSM      0.26  31 P      18 15.00   0.3
                  eSg    18 20.50
SFI      0.37 305 P      18 16.70  -0.2
                  eSg    18 22.80
PGD      0.43 293 P      18 18.00  -0.2
```

eSg 18 25.70
ARV 0.53 113 P 18 19.90 -0.2
eSg 18 28.60
S.D. = 0.4 on 5 of 5 obs.

% JUL 14, 1991 17h 51m 22.22± 0.52s
37.905 N ± 6.3km 14.326 E ± 3.7km
DEPTH = 10.0km (geophysicist)
SICILY (398)

GIB	0.25	290	P	51	27.40	-0.2
			eSg	51	33.00	
MNO	0.29	85	Pd	51	29.00	0.6
			eSg	51	33.50	
ATN	0.93	74	P	51	40.40	0.4
			eSn	51	52.50	
MEU	0.93	149	P	51	39.00	-1.1
			eSg	51	53.00	
USI	1.21	312	P	51	43.70	-1.0
CVT	1.24	260	P	51	46.20	1.0
SOI	1.38	82	P	51	47.90	0.5
LVI	1.57	274	P	51	50.60	0.4
CZI	1.93	47	P	51	54.80	-0.6
TDS	2.35	41	P	52	01.50	0.0
MGR	2.43	23	P	52	02.00	-0.5
SGO	2.76	16	P	52	07.80	0.6

S.D. = 0.8 on 12 of 12 obs.

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* JUL 14, 1991 19h 27m 59.43± 2.27s
41.695 N ±13.2km 132.345 E ±15.4km
DEPTH = 514.8 ± 24.9 km
4.2mb (16 obs.)
SEA OF JAPAN (660)

BJI	12.36	268	eP	30	43.00	0.6
LZH	22.82	265	e(P)	32	24.00	0.0
	1.4s	25.00nm				4.7mb
FBA	49.04	34	ePc	36	00.40	0.3
OUE	53.02	280	eP	36	30.20	0.3
GBA	55.01	256	Pc	36	43.10	-0.6
	0.4s	4.10nm				4.1mb
KAF	60.82	329	iP	37	21.10	-1.5
	0.3s	6.20nm				4.5mb
WRA	61.35	178	P	37	26.00	-0.5
	1.4s	1.00nm				3.1mb X
NUR	62.40	328	iP	37	31.40	-1.5
HFS	66.80	331	eP	37	58.70	-1.9
	0.4s	10.00nm				4.8mb
CLL	73.41	325	iP	38	39.60	-0.1
	0.8s	8.00nm				4.3mb
GRF	75.37	325	iPd	38	51.60	0.9
	0.8s	12.00nm				4.4mb
LOR	80.34	327	eP	39	17.20	-0.1
	0.6s	3.60nm				4.0mb
LBF	80.52	327	eP	39	18.10	-0.2
	0.6s	3.15nm				4.0mb
LPL	80.53	325	eP	39	18.90	0.3
	0.8s	4.05nm				4.0mb
LPG	80.53	325	eP	39	19.20	0.5
	0.6s	4.50nm				4.1mb
SSF	80.65	327	eP	39	19.00	0.1
	0.4s	1.45nm				3.8mb
SMF	80.85	327	eP	39	20.10	0.2
	1.0s	7.00nm				4.1mb
AVF	80.93	327	eP	39	20.60	0.3
	0.5s	2.20nm				3.9mb
LPF	81.61	330	eP	39	23.80	0.0
	0.6s	7.20nm				4.4mb
MAF	81.71	327	eP	39	25.00	0.7
	0.8s	3.35nm				3.9mb
TCF	81.80	328	eP	39	25.20	0.4
LSF	82.10	328	eP	39	26.50	0.2
LFF	83.49	328	eP	39	34.20	0.9
	0.4s	4.60nm				4.4mb
LPO	83.53	327	eP	39	34.00	0.5

S.D. = 0.8 on 24 of 24 obs.

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* JUL 14, 1991 20h 14m 59.21± 1.07s
15.001 N ± 9.2km 120.293 E ±22.1km
DEPTH = 10.0km (geophysicist)
4.7mb (1 obs.)
LUZON, PHILIPPINE ISLANDS (249)

PGP	1.62	157	ePd	15	28.00	0.1
SZP	2.54	3	eP	15	42.00	0.9
CVP	3.06	28	eP	15	48.60	0.1
PIP	3.32	5	iPd	15	52.00	-0.2
BJI	25.20	353	(P)	20	25.00	-1.5
LZH	25.64	328	eP	20	31.50	0.7
	2.0s	35.00nm				4.7mb

S.D. = 1.1 on 6 of 6 obs.

JUL 14, 1991 20h 47m 51.07± 0.25s
44.041 N ± 2.3km 7.230 E ± 2.8km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.9 (LDG).

TOUF	0.03	154	Pg	47	52.47	-0.8
AUTN	0.15	108	Pg	47	54.48	-0.3
			Sg	47	57.15	
MVIF	0.15	201	Pg	47	54.72	0.0
			Sg	47	57.99	
AURF	0.17	155	Pg	47	54.79	-0.2
			Sg	47	58.58	
SBF	0.23	140	Pg	47	56.10	0.0
			Sg	48	00.00	
SAOF	0.24	103	Pg	47	56.22	0.0
			Sg	47	59.97	
REVF	0.32	162	Pg	47	58.12	0.4
			Sg	48	03.24	
CALN	0.38	221	Pg	47	59.21	0.3
			Sg	48	05.43	
DOI	0.46	1	P	47	59.50	-1.0
			eSg	48	05.00	
FRF	0.64	222	Pg	48	03.60	-0.3
			Sg	48	11.80	
CKI	0.85	63	P	48	07.00	-0.4
			eSn	48	18.70	
LRG	0.86	227	Pg	48	07.60	0.0
			Sg	48	20.40	
LMR	0.88	217	Pg	48	08.50	0.6
			Sg	48	20.20	
BNI	1.09	339	P	48	11.20	-0.4
CDR	1.12	251	ePg	48	12.50	0.4
			e	48	25.50	
			e(Sg)	48	26.70	
			i	48	27.50	
			e	48	49.90	
			e	48	50.50	
LPG	1.50	347	Pn	48	18.40	0.2
LPL	1.52	347	Pn	48	18.80	0.3
			Pg	48	41.30	
BOB	1.75	65	P	48	24.20	2.5
PGF	1.97	138	Pn	48	23.20	-1.8
			Pg	48	47.00	
SSB	2.28	304	Pn	48	29.45	0.0
BDI	2.43	88	P	48	32.50	1.0
SMF	3.53	319	Pn	48	47.60	0.5
			Pg	49	27.60	
LBF	3.73	323	Pn	48	50.00	0.1
BSF	3.80	356	Pn	48	51.00	-0.1
AVF	3.87	317	Pn	48	52.00	0.1
BGF	3.99	311	Pn	48	53.00	-0.5
SSF	4.00	320	Pn	48	53.80	0.2
			Pg	49	40.00	
LOR	4.00	325	Pn	48	53.60	-0.1
HAU	4.01	352	Pn	48	54.00	0.1
CDF	4.37	0	Pn	48	58.40	-0.7

S.D. = 0.7 on 30 of 30 obs.

JUL 14, 1991 21h 23m 38.88± 1.24s
42.449 N ± 4.1km 126.761 W ±11.8km
DEPTH = 10.0km (geophysicist)
4.3mb (8 obs.) 3.6Msz (1 obs.)
OFF COAST OF OREGON (30)

FHC	2.65	127	eP	24	22.40	-0.1
WDC	3.68	119	eP	24	37.30	0.3
KMOR	3.96	35	P	24	40.30	-0.8
GT2	4.23	49	P	24	45.20	0.3
NLO	4.35	32	P	24	46.84	0.3
MIN	4.41	117	eP	24	37.70	-9.8X
VBEM	4.57	53	P	24	50.87	1.1
TDH	4.58	50	P	24	50.00	0.1
VLMM	4.60	46	P	24	50.86	0.7
GMO	4.67	63	P	24	50.98	-0.3
RVW	4.69	37	P	24	52.64	1.3
VLL	4.75	49	P	24	52.99	0.7
BMW	4.75	31	P	24	51.84	-0.5
LVP	4.78	39	P	24	53.28	0.5
VFP	4.78	51	P	24	52.72	-0.1
MTMW	4.84	41	P	24	53.43	-0.2
CROR	4.89	57	P	24	53.65	-0.6
FL2	4.90	39	P	24	55.14	0.6
APM	4.92	46	P	24	55.00	0.4
VIPM	4.92	63	P	24	53.81	-1.0
SHW	4.95	39	eP	24	56.00	0.8
CDFW	4.99	41	P	24	56.09	0.5
ERK	4.99	38	P	24	55.75	0.1
TDL	5.08	38	P	24	57.09	0.1
GULW	5.09	45	P	24	57.43	0.4
CPW	5.21	28	P	24	57.88	-0.8
ASR	5.24	43	P	24	59.44	0.2
VTHM	5.25	57	P	24	58.91	-0.5
LMW	5.29	36	P	25	01.09	1.1
VGB	5.29	53	P	24	59.77	-0.2
GLK	5.52	40	P	25	03.56	0.3
GL2	5.53	49	P	25	03.09	-0.2
LON	5.57	38	eP	25	04.10	0.3
WPW	5.65	39	P	25	04.87	-0.1
BRK	5.72	141	eP	25	03.50	-2.4
BKS	5.73	141	e(P)	24	39.20	-26.9X
FMW	5.77	37	P	25	07.32	0.6
J80	5.83	57	P	25	07.12	-0.4
GSM	5.92	35	P	25	09.07	0.3
NAC	6.03	43	P	25	10.48	0.3
PATW	6.09	53	P	25	10.86	-0.2
MXC	6.20	46	P	25	11.72	-0.9
EBG	6.27	43	P	25	14.00	0.2
PRW	6.32	51	P	25	13.79	-0.6
TBM	6.44	41	P	25	16.61	0.5
RSW	6.47	50	P	25	15.96	-0.7
ARN	6.49	140	eP	25	13.00	-3.8X
MDW	6.51	48	P	25	16.64	-0.4
CMB	6.57	130	eP	25	22.20	4.2X
GBL	6.66	49	P	25	18.74	-0.5
WIW	6.67	51	P	25	18.65	-0.6
WAH2	6.70	48	P	25	19.42	-0.3
WG3	6.71	55	P	25	18.80	-1.1
LOCW	6.75	48	P	25	20.20	-0.2
CRF	6.84	48	P	25	21.34	-0.3
ETW	6.88	39	P	25	23.24	0.9
ET3	6.95	51	P	25	22.56	-0.6
LNOR	6.99	58	P	25	22.53	-1.3
SAO	7.00	142	eP	25	16.30	-7.7X
PNT	8.48	33	eP	25	45.00	0.4
	1.0s	17.00nm				5.3mb
TNP	8.50	118	e(P)	25	50.50	5.4X
	0.6s	1.20nm				4.4mb
NEW	8.93	46	e(P)	25	49.50	-1.4
	1.0s	13.50nm				5.2mb
MSU	11.78	105	eP	26	31.60	1.4
BW06	12.68	83	e(P)	26	42.30	0.0
SES	13.43	48	eP	26	51.00	-0.9
GOL	16.36	92	e(P)	27	31.00	0.6
ANMO	17.51	109	ePd	27	46.80	2.0
	1.0s	5.50nm				3.6mb
ALQ	17.51	109	eP	27	46.00	1.2
	1.5s	11.81nm				3.8mb
FFC	20.36	44	eP	28	18.00	0.1
	1.3s	29.00nm				4.5mb X
FFC	20.36	44	eP	28	24.00	6.1X
	1.3s	48.00nm				4.7mb
YKA	21.33	16	eP	28	27.50	-0.3
	1.3s	6.00nm				3.8mb
MEO	23.23	100	e(P)	28	50.70	3.7X
TUL	24.79	95	eP	29	09.60	7.5X
	1.2s	13.60nm				4.5mb
Z	18s	0.17um				3.6Msz
N	18s	0.07um				
E	20s	0.12um				
			LR	38	08.00	

S.D. = 0.8 on 64 of 73 obs.

JUL 14, 1991 21h 53m 30.26± 0.34s
40.085 N ± 3.4km 19.820 E ± 3.1km
DEPTH = 6.7 ± 2.9 km
ALBANIA (391)
MD 3.2 (ATH).

SRN	0.25	146	iPg	53	35.70	0.4
KEK	0.37	182	eP	53	37.50	-0.3
			eS	53	45.50	
IGT	0.68	144	iPc	53	43.34	-0.5
			eS	53	54.82	
TIR	1.26	2	iPnd	53	54.50	0.5
FNA	1.38	59	ePd	53	54.86	-1.1
			iS	54	16.18	
LCI	1.45	280	P	53	57.00	0.1
			eSg	54	17.00	

```
KZN      1.51  81 eP     53 57.50  -0.4
                  eS     54 20.70
LACI     1.55 357 ePn    53 58.00  -0.3
PHP      1.67  16 ePn    53 59.00  -1.0
LIT      2.05  89 ePc    54 06.38   0.8
                  eS     54 34.42
BRT      2.15 292 P      54 11.00   4.0X
                  eSn    54 41.00
GRG      2.15  65 ePc    54 07.42   0 3
AGG      2.21 118 iPd    54 08.89   0.9
SKO      2.25  32 ePn    54 08.00  -0.5
       1.0s   138.00nm
                  e      54 10.50
                  e      54 34.80
                  i      54 39.80
                  i      54 41.20
                  Lg     54 46.80
VAY      2.43  59 ePn    54 11.30   0.3
THE      2.46  76 ePc    54 11.66   0.2
KNT      2.5B  64 iPd    54 13.85   0.7
                  eS     54 46.34
CZI      2.97 254 P      54 18.60  -0.1
MGR      3.27 272 P      54 23.60   0.6
SGO      3.48 279 P      54 26.40   0.5
SOI      3.55 237 P      54 25.70  -1.2
SDI      4.83 292 P      54 46.00   0.8
     S.D. = 0.7  on  21 of  22 obs.
-----------------------------------------
*  JUL  14, 1991  22h 01m 33.12± 0.70s
   37.077 N ±11.9km   71.373 E ±10.9km
   DEPTH =  33.0km  (normal)
   4.0mb (  6 obs.)
 AFGHANISTAN-USSR BORDER REGION  (717)

QUE      7.80 209 eP     03 28.70   1.4
                  eS     03 42.80
MAIO     9.57 269 eP     03 50.00  -1.8
                  eS     05 29.00
NDI      9.70 148 eP     03 56.00   2.5
                  eS     05 35.50
GKN     14.38 125 P      04 56.24  -0.1
KKN     14.94 124 P      05 02.00  -1.8
DMN     14.95 125 P      05 04.26   0.3
PKI     15.17 125 P      05 05.34  -1.6
GUN     15.26 123 P      05 09.54   1.4
GBA     24.00 165 Pd     06 48.30   2.6X
       0.4s      2.10nm          4.0mb
HFS     42.80 322 eP     09 29.20   0.2
       0.7s      1.70nm          3.9mb
MBC     66.75   3 eP     12 23.50   0.9
       0.5s      3.00nm          4.6mb
INK     73.29   9 eP     13 04.00   1.5
FBA     73.83  16 P      13 07.00   1.2
       1.0s      1.60nm          4.0mb
YKA     80.66   3 eP     13 43.50  -0.1
       0.7s      2.60nm          4.3mb
WRA     82.04 122 P      13 49.00  -2.6
       1.0s      0.90nm          3.8mb
WR2     82.06 122 iPc    13 50.20  -1.4
     S.D. = 1.6  on  15 of  16 obs.
-----------------------------------------
&  JUL  14, 1991  22h 37m 12.01s
   59.723 N          153.602 W
   DEPTH = 140.1km
 SOUTHERN ALASKA                  (  2)
      <AEIC>.

PDB      0.31 283 iPd    37 30.59   0.6
                  iS     37 45.19
AUH      0.37 167 eP     37 31.75   1.4
                  eS     37 46.07
AUE      0.38 162 ePd    37 31.22   0.9
                  eS     37 45.33
IVS      0.39  42 eP     37 31.55   0.9
AUI      0.40 167 eP     37 31.48   1.1
                  eS     37 45.91
MCNL     0.66 215 iPd    37 32.44  -1.0
CDD      0.80 182 iPd    37 33.46  -1.0
                  eS     37 50.79
RED      0.81  30 iPc    37 33.72  -0.9
                  eS     37 50.53
RDW      0.86  27 iPc    37 34.23  -0.9
                  eS     37 52.78
REF      0.89  30 iPc    37 34.52  -0.9
RDN      0.90  28 iPc    37 34.55  -0.9
NCT      0.91  21 iPc    37 34.59  -0.8
DFR      0.98  27 iPc    37 35.19  -0.9
                  eS     37 53.21
XLV      0.99 105 ePc    37 35.38  -0.7
                  eS     37 53.13
HOM      1.00  93 eP     37 35.48  -0.6
RDT      1.04  35 iPc    37 35.67  -0.9
NNL      1.21  74 iPc    37 38.09   0.0
CNPM     1.22  98 iPc    37 37.02  -1.2
SYI      1.28 150 eP     37 37.63  -1.2
                  eS     37 56.74
NKA      1.56  48 iPc    37 42.48   0.7
CKL      1.61  22 ePc    37 41.71  -0.8
SPU      1.65  27 ePc    37 41.94  -1.0
                  eS     38 05.51
BGL      1.66  21 eP     37 42.57  -0.5
CGLM     1.78  26 ePc    37 43.57  -0.8
NCG      1.83  22 eP     37 44.75  -0.3
SLKM     1.87  64 iPd    37 44.01  -1.4
SEW      2.13  78 ePc    37 46.93  -1.5
SUA      2.25  38 ePc    37 49.00  -1.1
SKT      2.48  23 ePc    37 51.72  -1.2
                  eS     38 21.73
PMS      2.52  51 eP     37 51.64  -1.8
PWA      2.66  42 eP     37 55.38   0.2
PLRM     2.89  48 eP     37 57.03  -1.1
LTI      2.92  81 iPc    37 56.89  -1.6
KNIM     3.01  75 iPc    37 57.48  -2.2
MTU      3.01  82 eP     37 58.07  -1.7
KNK      3.05  54 eP     37 58.27  -2.0
GHO      3.08  46 eP     37 59.30  -1.4
CUT      3.14  30 eP     37 59.77  -1.6
GLI      3.44  67 eP     38 02.74  -2.6
VZW      3.75  66 eP     38 07.37  -2.0
VLZ      3.87  65 eP     38 08.86  -2.1
TRF      4.06  22 eP     38 11.72  -2.0
KLU      4.18  62 eP     38 12.60  -2.6
GLB      5.13  66 eP     38 25.01  -2.9
WRH      5.42  26 eP     38 28.54  -3.2
CCB      5.64  26 eP     38 31.43  -3.2
8ALM     5.74  72 eP     38 33.37  -2.8
MDM      5.82  23 eP     38 34.17  -3.0
PNL      7.19  84 eP     38 53.77  -2.0
        49 obs. associoted
-----------------------------------------
%  JUL  14, 1991  22h 44m 22.35± 1.40s
   39.271 N ± 7.2km   16.464 E ±12.1km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN ITALY                   (390)

ACI      0.22 291 P      44 27.90   0.8
CZI      0.26 258 P      44 28.60   0.7
                  eSg    44 33.40
ROI      0.31  15 P      44 29.40   0.6
TDS      0.40 346 P      44 30.90   0.4
                  eSg    44 37.00
CSI      0.52 345 P      44 33.20   0.3
                  eSg    44 46.00
MMN      0.72 330 P      44 36.80   0.3
MGR      1.11 321 P      44 40.50  -2.7
                  eSg    44 59.60
SOI      1.24 195 P      44 45.00  -0.4
     S.D. = 1.4  on   8 of   8 obs.
-----------------------------------------
%  JUL  14, 1991  22h 58m 13.51± 2.27s
   42.948 N ±10.4km   18.452 E ±14.9km
   DEPTH =  13.4 ±  5.7 km
 YUGOSLAVIA                       (383)
      ML 2.0 (TTG).

BRY      0.08 125 iPgc   58 17.12   0.5
                  iSg    58 20.75
NKY      0.42 108 iPgd   58 22.30   0.0
                  iSg    58 30.82
HCY      0.50 176 iPgc   58 23.72   0.1
                  iSg    58 33.24
BDV      0.72 157 iPgd   58 27.67   0.3
                  iSg    58 40.49
PLE      0.79  61 iPgd   58 29.14   0.5
                  iSg    58 42.99
TTG      0.79 131 iPgc   58 29.14   0.6
                  iSg    58 42.99
IVA      1.07  94 iPgc   58 33.99   0.7
                  iSg    58 51.27
ULC      1.15 149 iPgd   58 35.22   0.5
                  iSg    58 54.45
PVY      1.17 107 iPgc   58 35.67   0.4
                  iSg    58 55.20
     S.D. = 0.3  on   9 of   9 obs.
-----------------------------------------
   JUL  14, 1991  23h 59m 31.36± 0.25s
   45.431 N ± 2.7km   21.129 E ± 2.7km
   DEPTH =  10.0km  (geophysicist)
 ROMANIA                          (358)
      ML 4.1 (ZAG), 3.9 (TTG).

TIM      0.31  12 iPc    59 40.00   2.2
SSR      0.72 142 eP     59 45.00  -0.5
                  e      15 45.00
BEO      0.77 218 iPgd   59 46.90   0.5
                  iSg    59 59.50
GZR      1.16  91 iPc    59 53.00  -0.1
DEV      1.32  69 iPc    59 57.00   1.2
UZD      2.12 304 iPn    00 07.10  -0.2
PLE      2.44 211 iPnd   00 12.08   0.1
                  iSn    00 45.84
BUD      2.52 325 iPn    00 12.90   0.0
PSZ      2.63 342 iPn    00 14.30  -0.3
IVA      2.71 200 iPnc   00 16.41   0.6
                  iSn    00 53.39
CMP      2.76  92 iPd    00 24.00   7.5X
BMR      2.77  35 ePd    00 12.00  -4.6X
BLY      2.88 258 Pn     00 20.50   2.4
                  S      00 59.50
PVY      2.96 197 iPnc   00 20.06   0.8
                  iSn    00 59.83
NKY      3.03 211 iPnd   00 19.96  -0.4
                  iSn    00 59.93
BRY      3.14 217 iPnc   00 21.58  -0.3
                  iSn    01 02.19
VTS      3.21 151 eP     00 23.00   0.0
TTG      3.29 205 iPnd   00 24.24   0.3
                  iSn    01 06.51
MLR      3.39  87 iP     00 26.50   1.0
SKO      3.47 176 ePn    00 26.80   0.4
                  i      00 36.60
HCY      3.54 213 iPnc   00 27.48   0.1
                  iSn    01 11.48
BDV      3.56 209 iPnc   00 27.78   0.0
                  iSn    01 12.58
ZAG      3.63 278 e(Pn)  00 28.50  -0.3
                  iSg    01 33.50
BUC1     3.65 106 eP     00 44.00  15.0X
PTJ      3.66 279 iPnc   00 28.30  -0.9
                  eSn    01 13.70
ULC      3.72 202 iPnd   00 30.94   0.8
PVL      3.74 125 eP     00 31.00   0.6
SPC      3.81 351 iPn    00 32.20   0.7
                  i      00 44.70
                  i      00 47.90
                  i      01 20.80
                  i      01 39.20
                  i      01 55.00
KKB      3.84 158 eP     00 32.00   0.3
ZST      3.91 316 iPnd   00 32.10  -0.6
                  i      00 39.00
                  i(Sn)  01 14.50
VRI      3.95  82 ePd    00 34.50   1.2
                  e      16 36.00
HVAR     4.05 238 iPn    00 34.80   0.2
VBY      4.13 273 e(Pn)  00 34.90  -1.0
                  e      00 48.50
                  e(Sn)  01 44.00
PLD      4.21 141 eP     00 36.00  -1.0
VAY      4.24 165 iPn    00 36.60  -0.8
MMB      4.28 153 eP     00 40.00   1.9
VKA      4.35 312 iPnc   00 38.00  -1.0
                  i      00 49.10
                  iSn    01 30.00
KNT      4.46 163 ePd    00 39.36  -1.2
RZN      4.56 144 iP     00 42.00  -0.1
GRG      4.57 168 ePd    00 41.56  -0.6
DIM      4.65 135 eP     00 43.00  -0.2
LJU      4.66 280 ePn    00 42.80  -0.6
                  eSg    02 05.00
SRS      4.67 157 ePd    00 42.96  -0.6
KRA      4.70 351 iPd    00 44.20   0.3
       0.5s    54.00nm
                  i      00 47.50
                  i      01 09.90
CEY      4.72 276 eP     00 49.00   4.8X
                  eSg    02 10.40
RIY      4.75 271 e(Pn)  00 47.50   2.8X
SOH      4.89 160 ePc    00 45.32  -1.3
KDZ      4.90 139 iPc    00 46.00  -0.8
VOY      5.10 279 ePnd   00 50.60   0.9
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15d 00h

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                    i       01 45.70
                    e(Sg)   02 18.10
TRI      5.18 276 ePn      00 50.90    0.2
                    iSn     01 47.50
PSN      5.34 107 eP       01 00.00    7.0X
KMR      5.48 301 ePn      00 55.00    0.0
                    i       01 57.60
FVI      5.93 284 P        01 06.00    4.7X
ARV      6.17 255 P        01 13.00    8.3X
KSP      6.31 331 ePn      01 05.00   -1.6
                    iPg     01 20.30
                    eS      02 03.20
KHC      6.33 308 iPn      01 05.50   -1.5
                    e       02 45.50
                    e       03 14.50
PRU      6.37 318 Pn       01 05.20   -2.3
     Z  10s      0.30um
     N  10s      0.30um
                    e       01 13.10
                    e       01 20.30
                    Sn      02 14.50
AQU      6.37 244 P        01 16.00    8.4X
SDI      6.49 238 P        01 12.70    3.5X
ASS      6.52 252 P        01 10.80    1.0
KGT      6.73 136 iP       01 11.30   -1.3
SFI      6.78 260 P        01 17.50    4.2X
EZN      6.79 144 iPn      01 12.60   -0.8
CRE      6.80 258 P        01 16.00    2.3
WTTA     6.82 289 e(Pn)    01 15.00    0.9
                    e       02 15.00
BRG      7.26 321 e(Pn)    01 29.00    9.0X
                    e       03 49.00
GRF      7.94 306 iPc      01 28.10   -1.5
     Z  16s      0.10um
                    eS      03 16.60
CLL      7.99 320 e(Pn)    01 35.00    4.8X
                    e       03 27.00
                    e       04 32.00
MOX      8.23 313 eP       01 41.00    7.3X
                    e       03 11.00
LPG     10.10 275 eP       02 00.40    0.6
      0.6s      2.70nm            4.9mb X
LPL     10.12 276 eP       02 00.60    0.7
     S.D. = 1.0  on  57 of  71 obs.
-----------------------------------------
?  JUL  15, 1991  00h 15m 31.49± 1.03s
   45.563 N ±10.2km   20.928 E ±12.0km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                          (383)

TIM      0.27  50 iPc      15 38.00    0.8
BEO      0.81 204 ePg      15 47.50    0.3
                    iSg     15 59.50
DEV      1.42  76 ePc      15 56.50   -0.8
PSZ      2.46 344 eP       16 12.10   -0.3
PTJ      3.50 277 eP       16 47.40   20.3X
MLR      3.53  89 eP       16 35.00    7.5X
     S.D. = 1.2  on   4 of   6 obs.
-----------------------------------------
   JUL  15, 1991  00h 42m 20.69± 0.70s
   39.602 N ± 8.9km   20.377 E ± 7.7km
   DEPTH =  10.0km  (geophysicist)
 GREECE-ALBANIA BORDER REGION        (392)

IGT      0.08 206 iPc      42 22.78   -0.4
FNA      1.41  33 ePc      42 45.14   -1.3
                    eS      43 05.46
LIT      1.70  72 ePd      42 51.14    0.6
                    iS      43 14.66
LCI      2.00 292 P        42 55.30    0.4
                    (Sn)    43 23.00
GRG      2.06  48 ePd      42 56.02    0.3
VAY      2.40  44 ePn      43 01.40    0.8
KNT      2.48  50 ePc      43 01.38   -0.3
SKO      2.50  18 ePn      43 02.00   -0.1
      0.7s     46.00nm
                    e       43 37.50
                    Lg      43 41.80
SOH      2.58  61 ePc      43 03.22   -0.1
                    eS      43 36.54
     S.D. = 0.7  on   9 of   9 obs.
-----------------------------------------
*  JUL  15, 1991  01h 25m 14.66± 1.07s
   0.205 N ± 9.2km  125.108 E ±17.0km
   DEPTH =  68.9 ± 11.2 km
   4.9mb (  9 obs.)
 MOLUCCA PASSAGE                     (266)
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```
MNI      1.26 348 iPd      25 37.50    0.8
                    eS      25 54.50
AAI      4.95 141 ePd      26 26.50   -1.7
                    e(S)    26 39.60
CGP      8.21 357 eP       27 14.00    0.6
KHKI    12.73 228 ePd      28 29.90   15.3X
                    e       39 36.30
MTN     14.28 155 eP       28 34.50   -0.3
      0.5s     120.00nm          5.5mb
WR2     21.99 156 iPc      30 04.20   -0.3
      0.3s      79.30nm          5.6mb
QIZ     23.97 322 P        30 26.80    3.0X
QIS     25.04 146 iPd      30 34.80    0.7
      0.7s      42.00nm          5.0mb
ASPA    25.22 161 iPd      30 37.20    1.4
      0.7s      35.50nm          4.9mb
                    iS      34 56.00
BDT     30.78 305 eP       31 27.10    1.1
CHG     31.65 307 eP       31 34.90    1.2
      0.9s      14.92nm          4.8mb
STK     35.52 155 iPd      32 08.00    1.1
      0.3s       4.00nm          4.8mb
XAN     36.92 337 P        32 16.50   -2.3
TIY     39.11 344 eP       32 38.80    1.7
SNY     41.46 358 Pc       32 55.40   -0.8
      0.8s      20.00nm          5.0mb
CN2     43.41   0 eP       33 11.00   -1.1
LSA     43.66 315 P        33 15.00    0.0
GTA     45.36 332 eP       33 27.20   -0.8
      0.8s      10.00nm          4.7mb
                    PcP     35 07.40
GBA     49.04 288 Pc       33 55.20   -1.8
      0.7s       3.80nm          4.5mb
WMQ     54.73 327 eP       34 38.60   -0.8
                    SP      34 55.00
OBN     88.98 325 eP       38 03.00    0.1
      0.7s      *******nm          8.5mb X
     Z  20s      0.30um          4.7Msz
INK     94.01  21 eP       38 27.00    1.0
MBC     95.72  13 eP       38 34.00    0.2
     S.D. = 1.2  on  21 of  23 obs.
-----------------------------------------
   JUL  15, 1991  01h 40m 17.08± 0.56s
   49.124 N ± 5.4km    6.853 E ± 7.6km
   DEPTH =  10.0km  (geophysicist)
 GERMANY                             (543)
     ML 2.4 (STR). MD 1.9 (UCC).

GWF      0.53 106 Pg       40 26.84   -0.9
WLF      0.71 320 iPd      40 30.26   -0.8
                    iS      40 39.76
CDF      0.77 158 Pg       40 31.47   -0.6
ECH      0.93 167 Pg       40 34.72   -0.2
VITF     1.07 213 Pg       40 37.25   -0.1
MOF      1.29 172 Pg       40 41.64    0.6
                    Sg      40 59.76
FEL      1.47 148 Pg       40 44.74    1.0
                    Sg      41 04.73
MEM      1.58 340 iP       40 45.50    0.3
ENN      1.75 340 ePn      40 49.00    1.4
      1.0s      12.00nm
                    eSn     41 11.00
DOU      1.76 304 P        40 46.90   -0.9
     S.D. = 0.9  on  10 of  10 obs.
-----------------------------------------
%  JUL  15, 1991  01h 54m 18.85± 0.94s
   38.540 N ± 7.5km   29.159 E ±12.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
     MD 3.2 (ISK).

KHL      0.36 127 iPg      54 25.50   -0.8
                    iSg     54 32.00
DST      1.14 339 ePn      54 39.00   -1.2
YER      1.57 207 ePn      54 47.40    0.6
IZI      1.81   8 ePn      54 50.30   -0.1
YLV      2.03   5 iPn      54 53.30   -0.3
EYL      2.17  21 ePn      54 57.30    1.7
     S.D. = 1.4  on   6 of   6 obs.
-----------------------------------------
*  JUL  15, 1991  02h 24m 08.51± 1.16s
   19.573 S ±10.5km   66.731 W ±12.1km
   DEPTH = 283.0 ± 28.3 km
 SOUTHERN BOLIVIA                    (125)

CCH      2.25  14 P        24 56.50   -0.1
                    S       25 31.00
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CNCB     2.99 336 P        25 04.90    0.8
                    S       25 45.00
LPB      3.29 337 iPc      25 07.80    0.8
      1.0s     184.00nm
                    S       25 50.00
ZOBO     3.54 338 iPc      25 10.00    0.1
                    S       25 54.80
SLA      5.26 168 ePd      25 29.80    0.7
ANT      5.35 219 iP       25 29.00   -1.1
                    iS      26 28.80
ARE      5.49 304 iP       25 31.70   -0.4
                    iS      26 35.00
SIV      6.46  57 P        25 41.80   -1.9
PPD     14.62 102 eP       27 25.60    1.1
     S.D. = 1.3  on   9 of   9 obs.
-----------------------------------------
?  JUL  15, 1991  02h 41m 23.71± 0.98s
   38.964 N ± 7.7km   27.139 E ±11.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
     MD 2.9 (ISK).

IZM      0.57 170 ePg      41 35.40    0.0
                    eSg     41 45.40
EZN      1.07 324 iPg      41 43.60   -0.2
                    eSg     41 57.60
DST      1.32  61 ePn      41 48.00   -0.1
KGT      1.49   5 ePn      41 50.80    0.3
     S.D. = 0.4  on   4 of   4 obs.
-----------------------------------------
?  JUL  15, 1991  02h 57m 00.93± 0.96s
   38.984 N ± 7.7km   27.165 E ±10.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
     MD 2.8 (ISK).

IZM      0.59 173 ePg      57 12.90    0.0
                    eSg     57 22.90
EZN      1.06 323 iPg      57 21.00    0.1
                    eSg     57 35.00
DST      1.29  61 ePn      57 25.00    0.1
KGT      1.47   4 ePn      57 27.30   -0.1
     S.D. = 0.2  on   4 of   4 obs.
-----------------------------------------
?  JUL  15, 1991  05h 44m 56.74± 0.92s
   14.967 N ±12.3km  120.232 E ±30.1km
   DEPTH =  10.0km  (geophysicist)
   4.1mb (  3 obs.)
 LUZON, PHILIPPINE ISLANDS           (249)

PGP      1.62 154 ePd      45 25.50    0.2
                    eS      45 40.00
SZP      2.58   5 eP       45 42.00    2.8X
PIP      3.36   6 ePd      45 50.50    0.2
BJI     25.23 353 eP       50 24.00   -0.3
LZH     25.63 328 eP       50 29.00    0.7
      2.0s      35.00nm           4.7mb
                    sP      50 46.50
WRA     37.36 158 P        52 19.00    7.5X
      2.2s       1.40nm           3.3mb
NB2     85.93 333 P        57 37.40   -0.8
      0.7s       1.10nm           4.1mb
     S.D. = 0.8  on   5 of   7 obs.
-----------------------------------------
?  JUL  15, 1991  05h 49m 14.08± 2.38s
   43.914 N ±18.9km    7.667 E ±11.7km
   DEPTH =  10.0km  (geophysicist)
 NEAR SOUTH COAST OF FRANCE          (379)
     ML 1.9 (GEN).

IMI      0.16  91 P        49 17.84    0.0
                    S       49 20.51
ENR      0.36 330 P        49 21.64    0.1
                    S       49 26.41
ROB      0.41  21 P        49 22.41    0.0
                    S       49 27.95
STV      0.41 323 P        49 22.41   -0.1
                    S       49 27.94
     S.D. = 0.2  on   4 of   4 obs.
-----------------------------------------
   JUL  15, 1991  06h 32m 19.86± 0.36s
   20.602 S ± 7.9km   63.176 W ± 5.6km
   DEPTH = 573.6 ±  5.1 km
   4.1mb (  8 obs.)
 SOUTHERN BOLIVIA                    (125)

CCH      4.26 318 iPd      33 47.00    0.8
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SLA      4.63 207 iPd    33 49.20   0.3
SIV      5.00  24 iPc    33 51.20  -0.6
CNCB     5.91 309 iPd    34 00.20   0.0
                  S      35 20.00
LPB      6.18 310 iPd    34 02.70   0.3
       1.0s   180.00nm          5.1mb
                  iS     35 23.00
ZOBO     6.37 312 iPd    34 04.00  -0.3
                  S      35 26.00
ANT      7.39 244 iPd    34 10.70  -2.4
                  iS     35 41.30
ARE      8.90 296 iP     34 28.20   0.1
                  iS     36 10.50
ITB1     9.06 118 e(P)   34 29.50   0.1
PPD     11.15  99 iPd    34 52.60   2.3
                  e      34 57.60
PEL     14.17 207 iPd    35 21.00   0.8
                  eS     37 49.50
VAO     15.24 102 eP     35 30.20  -0.7
                  e      35 45.80
                  e      35 56.50
                  e      38 05.90
BAO     15.25  74 eP     35 31.00  -0.1
BMA     17.81 100 eP     35 56.30   0.7
SOB1    24.29  65 eP     36 54.20  -0.8
LIC     63.01  71 P      41 52.40  -1.1
TIC     63.21  71 P      41 54.00  -0.8
KIC     63.33  71 P      41 54.90  -0.7
LKO     64.04  68 Pd     41 59.20  -1.0
TUL     64.13 331 iPc    41 58.70  -1.5
       0.6s     6.30nm          4.3mb
     Z  18s     0.22um          4.4Msz
     N  18s     0.58um
     E  18s     0.62um
                  LQ     52 24.00
                  LR     53 40.00
ALQ     68.85 323 eP     42 29.60   0.1
       1.0s     6.25nm          4.1mb
ANMO    68.85 323 eP     42 29.60   0.1
       0.7s     4.62nm          4.1mb
GOL     71.76 327 ePc    42 46.30  -0.3
       0.8s     2.68nm          3.8mb
PLM     74.16 315 eP     43 04.80   4.6X
RSSD    74.48 331 ePd    43 01.30  -0.5
       0.8s     5.41nm          4.1mb
PEC     74.69 316 ePc    43 04.10   1.2
BW06    76.16 327 eP     43 10.90  -0.2
IFR     77.18  47 iPc    43 17.50   0.8
TNP     77.33 319 ePc    43 18.80   1.3
       0.7s     4.44nm          4.0mb
LRM     79.78 327 ePc    43 31.30   1.0
SES     82.33 331 eP     43 44.00   1.1
YKA     92.21 339 eP     44 29.90   0.6
       0.6s     2.30nm          4.4mb
ASPA   132.96 202 iPKPc  50 32.80   0.2
       1.5s     7.00nm
WR2    136.19 204 ePKP   50 38.70  -0.1
       0.5s     8.60nm
WRA    136.21 204 PKP    50 39.00   0.2
       0.6s     5.40nm
MTN    143.91 204 ePKP   50 51.50  -1.0
                  e      52 23.00
     S.D. = 0.9  on  35 of  36 obs.
-----------------------------------
?  JUL  15, 1991  06h 44m 39.31± 4.97s
   23.893 N ±48.2km  108.218 W ±23.8km
   DEPTH =  10.0km  (geophysicist)
   4.1mb (  3 obs.)
 GULF OF CALIFORNIA                ( 49)

ALQ     11.12   8 eP     47 22.00   0.5
ANMO    11.12   8 ePd    47 21.50  -0.1
GSC     13.59 329 eP     47 53.00  -1.7
SBB     13.63 324 eP     47 58.00   2.9
ISA     14.71 325 eP     48 13.00   3.7X
GOL     15.94   8 eP     48 31.00   5.5X
       0.9s     3.79nm          3.5mb
GLD     16.01   8 ePc    48 31.00   4.7X
TNP     16.10 334 iPd    48 26.00  -1.5
BW06    18.87 357 iPc    49 01.50  -0.6
       1.2s    18.15nm          4.2mb
RSSD    20.47   9 ePc    49 21.00   1.0
LRM     22.15 352 eP     49 37.20   0.1
MBC     52.70 357 eP     53 55.00  -0.7
       0.9s     5.00nm          4.4mb
     S.D. = 1.6  on   9 of  12 obs.
-----------------------------------
*  JUL  15, 1991  06h 48m 20.10± 1.32s
     4.727 N ± 6.4km  127.195 E ±15.9km
   DEPTH = 103.7 ± 12.6 km
   5.1mb ( 12 obs.)
 TALAUD ISLANDS                    (263)

MNI      4.02 216 ePd    49 22.00   1.3
                  eS     50 12.00
CGP      4.46 326 iPd    49 25.00  -1.7
                  iS     50 22.00
PLP      6.76 341 iPd    49 58.80   0.4
       0.8s   114.00nm          5.4mb
KNA     20.40 176 eP     52 51.30   0.3
OZH     21.73 338 eP     53 03.20  -1.1
OIZ     22.11 311 eP     53 08.00   0.0
WR2     25.51 164 eP     53 40.90   0.2
       0.7s   106.80nm          5.4mb
SSE     26.83 349 eP     53 54.50   1.9
       1.0s    12.00nm          4.4mb
QIS     27.93 155 eP     54 01.00  -1.6
WHN     28.39 336 Pd     54 08.00   1.3
ASPA    28.97 167 eP     54 10.60  -1.4
       0.7s    11.20nm          4.6mb
WARB    30.73 181 eP     54 29.00   1.5
CHG     30.93 299 eP     54 28.80  -0.6
TIA     32.68 345 eP     54 44.00  -0.4
XAN     33.75 332 P      54 52.50  -1.3
CD2     34.13 322 eP     54 56.00  -1.1
FORR    35.39 179 eP     55 07.80   0.1
TIY     35.49 340 Pd     55 09.00   0.3
       0.5s    30.00nm          5.5mb
BJI     36.54 346 eP     55 18.50   1.2
       0.7s    25.00nm          5.2mb
SNY     37.08 356 Pc     55 26.60   4.8X
       0.8s    20.00nm          5.1mb
LZH     37.89 328 iPd    55 29.00   0.0
       1.2s    93.00nm          5.6mb
     Z  25s     0.27um          4.0MszX
HHC     38.61 341 P      55 36.30   1.4
STK     38.90 160 eP     55 36.80  -0.4
       0.5s    20.40nm          5.2mb
GTA     42.49 328 eP     56 06.80   0.0
       0.6s    10.00nm          4.8mb
GBA     49.82 284 Pc     57 03.80  -1.0
       0.7s    16.70nm          5.1mb
WMQ     52.18 324 P      57 22.40   0.0
       1.2s    10.00nm          4.7mb
MAIO    69.28 307 eP     59 19.00   0.6
INK     89.07  22 eP     01 17.00  12.5X
     S.D. = 1.1  on  26 of  28 obs.
-----------------------------------
?  JUL  15, 1991  07h 10m 00.12± 0.96s
   22.452 S ±11.0km   67.990 W ±11.1km
   DEPTH =  33.0km  (normal)
 CHILE-BOLIVIA BORDER REGION       (124)

ANT      2.56 240 eP     10 40.00  -0.2
                  iS     11 05.00
CCH      5.33  19 P      11 24.30   4.5X
CNCB     5.61   0 P      11 24.80   0.8
LPB      5.89 359 eP     11 16.00 -11.8X
ZOBO     6.15 359 P      11 31.30  -0.3
SIV      9.16  47 P      12 12.40  -0.7
PPD     15.45  92 eP     13 44.30   7.0X
VAO     19.40  96 (P)    14 27.00   0.5
     S.D. = 0.9  on   5 of   8 obs.
-----------------------------------
*  JUL  15, 1991  07h 54m 38.26± 1.14s
   32.902 S ±17.1km   70.863 W ±11.8km
   DEPTH = 114.4 ± 10.4 km
 CHILE-ARGENTINA BORDER REGION     (127)
       Felt (IV) at Los Andes, Chile.

PEL      0.28 148 iPd    54 54.60  -0.3
                  iS     55 03.50
IHA      0.67 259 iPc    54 57.20   0.2
                  iS     55 09.80
RTBS     1.72  44 iPd    55 08.40   0.0
ZON      2.29  54 eP     55 16.00   0.2
                  eS     55 42.00
RTLL     2.57  53 iPc    55 19.20  -0.2
CYA      6.23  46 ePd    56 05.00  -4.2X
CNCB    16.23  10 P      58 22.00   0.5
LPB     16.49   9 P      58 28.00   3.5X
ZOBO    16.74   9 P      58 27.90   0.1
SIV     19.03  30 P      58 52.70  -1.3
PPD     20.42  63 (P)    59 09.00   0.8
     S.D. = 0.7  on   9 of  11 obs.
-----------------------------------
%  JUL  15, 1991  09h 03m 18.94± 2.38s
   39.738 N ±21.3km   29.314 E ±17.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
       MD 2.8 (ISK).

DST      0.55 256 ePg    03 30.00   0.0
IZI      0.61  11 ePg    03 31.30   0.0
YLV      0.83   3 iPn    03 35.00   0.0
EYL      1.05  38 ePn    03 38.80   0.0
HRT      1.12  14 ePn    03 39.90   0.0
     S.D. = 0.0  on   5 of   5 obs.
-----------------------------------
   JUL  15, 1991  09h 14m 11.49± 0.88s
   44.040 N ±12.6km    6.547 E ± 8.0km
   DEPTH =   5.0km  (geophysicist)
 FRANCE                            (538)
       ML 2.4 (LDG), 2.3 (GEN).

STV      0.60  70 P      14 23.24  -0.2
                  S      14 31.85
PZZ      0.61  40 P      14 23.75   0.0
                  S      14 32.78
ENR      0.66  73 P      14 24.37  -0.3
                  S      14 33.49
CDR      0.67 237 e(Pg)  14 24.90   0.0
                  e(Sg)  14 33.50
IMI      0.98  97 P      14 30.52  -0.1
ROB      0.99  75 P      14 31.24   0.5
     S.D. = 0.4  on   6 of   6 obs.
-----------------------------------
   JUL  15, 1991  09h 30m 37.74± 0.79s
   42.117 N ± 3.0km  125.725 W ± 8.0km
   DEPTH =  10.0km  (geophysicist)
   3.9mb (  4 obs.)
 OFF COAST OF OREGON               ( 30)

FHC      1.85 135 eP     31 09.50  -0.4
TCO      3.62  55 P      31 35.21   0.0
KMOR     3.87  24 P      31 38.83   0.2
                  S      32 21.75
GT2      3.94  38 P      31 39.42  -0.1
PGO      4.10  34 P      31 42.40   0.6
                  S      32 28.07
VBEM     4.21  44 P      31 43.34  -0.1
TDH      4.27  41 P      31 44.36   0.0
                  S      32 32.74
NLO      4.29  22 P      31 45.23   0.6
                  S      32 32.81
VLMM     4.34  37 P      31 45.62   0.3
                  S      32 34.21
VIPM     4.43  56 P      31 46.13  -0.5
VFP      4.45  43 P      31 47.33   0.4
VLL      4.45  40 P      31 47.67   0.9
CROR     4.48  49 P      31 46.45  -0.8
RVW      4.57  27 P      31 49.11   0.7
                  S      32 39.10
LVP      4.62  30 P      31 49.14  -0.1
                  S      32 40.01
APM      4.65  38 P      31 50.07   0.4
MTMW     4.66  32 P      31 49.27  -0.5
BMW      4.71  22 P      31 50.28  -0.3
FL2      4.75  30 P      31 51.01  -0.1
HSR      4.79  31 P      31 51.76   0.0
CDFW     4.79  32 P      31 51.50  -0.2
                  S      32 43.43
GULW     4.83  37 P      31 53.20   0.9
VTHM     4.84  49 P      31 52.07  -0.3
ERK      4.84  29 P      31 52.23  -0.2
                  S      32 45.00
SOSW     4.86  31 P      31 52.64  -0.1
CZM      4.90  27 P      31 53.31   0.2
                  S      32 46.33
TDL      4.93  30 P      31 53.79   0.1
VGB      4.93  45 P      31 53.75   0.0
                  S      32 48.74
ASR      5.01  35 P      31 54.41  -0.4
KOSW     5.03  29 P      31 55.20   0.2
LMW      5.17  27 P      31 57.82   0.7
                  S      32 54.13
CPW      5.20  20 P      31 57.10  -0.3
                  S      32 53.53
GL2      5.22  41 P      31 58.06   0.3
GLK      5.34  32 P      31 59.36  -0.1
LON      5.41  30 P      32 00.31  -0.2
```

15d 09h

```
JBO      5.42  50 P      32 00.14  -0.4
WPW      5.47  32 P      32 00.96  -0.4
                  S      33 01.24
GHW      5.51  25 P      32 02.31   0.6
FMW      5.62  30 P      32 03.63   0.1
                  S      33 04.72
ARN      5.75 144 eP     32 04.90  -0.4
NAC      5.80  36 P      32 06.07   0.2
GSM      5.81  28 P      32 06.25   0.2
GMW      5.82  20 P      32 05.77  -0.3
HDW      5.85  18 P      32 05.89  -0.7
PRW      5.97  45 P      32 08.60   0.4
BRVW     6.00  41 P      32 08.73   0.0
RMW      6.03  26 P      32 09.57   0.5
RSW      6.14  44 P      32 09.91  -0.8
TBM      6.24  34 P      32 12.52   0.5
HTW      6.34  25 P      32 13.57   0.0
WAH2     6.40  41 P      32 14.34   0.0
LNOR     6.55  53 P      32 15.93  -0.6
JCW      6.64  23 P      32 17.26  -0.5
                  S      33 28.35
BONR     7.05 124 eP     32 24.70   0.9
TNP      7.66 119 eP     32 31.60  -0.7
PNT      8.37  29 P      32 41.00  -0.9
         0.6s     0.80nm          4.2mb
LRM     10.26  64 eP     33 08.00  -0.3
BW06    11.97  81 e(P)   33 32.00   0.4
GOL     15.58  92 eP     34 18.20  -1.0
         0.7s     2.79nm          3.6mb
ANMO    16.67 109 ePc    34 34.10   1.0
         0.8s     2.43nm          3.4mb
ALO     16.67 109 eP     34 34.00   0.8
FFC     20.06  43 eP     35 13.00  -0.8
         0.8s     8.00nm          4.1mb
      S.D. = 0.5  on  62 of  62 obs.
-----------------------------------------
%  JUL  15, 1991  11h 15m 26.45± 0.99s
   44.390 N ±20.1km    8.624 E ± 5.6km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                    (545)

CKI      0.25 278 Pc     15 31.30  -0.4
                  eSg    15 36.40
BOB      0.70  57 P      15 40.10  -0.2
                  eSg    15 51.50
DOI      0.99 277 P      15 45.30  -0.1
                  eSg    16 00.00
BDI      1.46 102 P      15 53.00   0.1
BNI      1.54 296 P      15 54.70   0.6
                  eSn    16 16.00
      S.D. = 0.6  on   5 of   5 obs.
-----------------------------------------
%  JUL  15, 1991  12h 00m 50.30± 0.54s
   40.481 N ± 4.4km   30.110 E ± 4.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      MD 3.4 (ISK).

EYL      0.09  23 iPg    00 53.00   0.0
GPA      0.24 141 iPg    00 55.70   0.2
                  iSg    00 58.70
HRT      0.48 315 iPg    01 00.00   0.0
IZI      0.51 254 iPg    01 00.50  -0.1
YLV      0.57 279 iPg    01 02.00   0.1
GBZT     0.59 302 ePg    01 01.80  -0.5
                  iSg    01 11.00
ISK      0.99 307 iPg    01 09.30   0.3
                  eSg    01 23.00
DST      1.43 233 iPn    01 16.80   0.4
CTT      1.44 298 ePn    01 16.50   0.1
EDC      1.72 266 ePn    01 20.70   0.3
KGT      2.14 270 iPn    01 26.50   0.0
KHL      2.20 192 ePn    01 27.00  -0.5
      S.D. = 0.3  on  12 of  12 obs.
-----------------------------------------
   JUL  15, 1991  12h 22m 11.90± 0.19s
   45.172 N ± 3.8km  150.794 E ± 3.6km
   DEPTH =  24.3km  (  6 depth phases)
   5.6mb ( 90 obs.)
 KURIL ISLANDS                     (221)

KUSJ     4.84 247 iP+    23 25.10   0.0
                  eS     24 18.70
ASAJ     5.91 263 iP+    23 43.90   3.8X
HOOJ     6.11 245 P      23 44.10   1.2
                  eS     24 52.00
MRRJ     7.55 252 eP     24 04.60   1.5
                  eS     25 30.40
AOMJ     8.93 243 P      24 21.50  -0.8
OFUJ     9.11 231 P      24 22.50  -2.3
                  S      25 58.20
YAMJ    10.65 233 P      24 43.10  -2.9X
NIIJ    11.89 232 P      25 01.00  -1.9
KAKJ    12.04 226 P      25 02.70  -2.1
                  eS     27 08.30
CHJJ    12.77 229 eP     25 13.50  -1.1
                  eS     27 31.30
MAT     12.84 232 iPc    25 13.30  -2.2
         2.8s   285.71nm          5.9mb
      Z  20s     2.48um          3.2MszX
                  eS     27 48.00
MTMJ    13.03 233 iPd    25 16.90  -1.3
IIDJ    13.78 230 P      25 27.40  -0.6
TSRJ    14.82 235 iPd    25 41.60   0.1
CN2     18.12 275 Pc     26 21.00  -2.4
         0.8s    66.00nm          4.8mb
      Z  16s     8.56um          4.7Msz
      N  13s     1.30um
      E  13s     1.65um
                  sP     26 37.00
                  eS     29 36.00
                  eSS    30 00.00
                  ePcP   30 55.00
SHNJ    18.70 241 eP     26 30.80   0.3
KUMJ    19.96 238 eP     26 46.00   1.0
SNY     19.99 270 iPd    26 45.00  -0.3
         1.3s   200.00nm          5.3mb
      Z  18s     3.00um          4.1MszX
      N  12s     0.80um
      E  14s     1.50um
                  eS     30 22.00
YAK     20.84 332 eP     26 50.00  -3.9X
                  iPP    27 11.00
                  ePPP   27 31.00
                  eS     30 40.00
                  iPcP   31 03.00
                  iScS   38 14.00
                  ePSP   38 35.00
KAGJ    20.90 235 eP     26 56.50   1.7
DL2     22.47 264 eP     27 10.00  -0.5
         1.5s   660.00nm          5.9mb
      Z  14s     0.60um          4.2MszX
      N  13s     0.80um
      E  13s     0.80um
                  S      31 16.00
BJI     25.86 271 eP     27 43.00  -0.1
         1.0s    74.00nm          5.3mb
      Z  16s     2.32um          4.8MszX
      E  16s     2.20um
                  eS     32 14.00
TIA     26.89 262 P      27 52.70   0.0
         1.0s   100.00nm          5.4mb
      Z  20s     0.90um          4.3Msz
      N  15s     0.90um
                  sP     28 06.00
                  PcP    31 14.50
                  S      32 27.00
SSE     27.02 249 Pc     27 55.00   1.1
         1.0s   160.00nm          5.6mb
      Z  20s     1.30um          4.5Msz
      E  16s     1.00um
                  pP     28 05.00  36kmX
                  eS     32 34.00
NJ2     27.99 253 Pd     27 58.60  -4.0X
      Z  18s     1.20um          4.5Msz
      N  15s     1.20um
      E  15s     0.80um
                  pP     28 07.00  30km
HHC     28.81 275 iPc    28 10.50   0.4
         0.9s   200.00nm          5.8mb
      Z  17s     3.60um          5.0MszX
      N  14s     0.50um
      E  14s     2.00um
                  pP     28 15.00  16kmX
                  sS     33 13.00
TIY     29.49 269 Pc     28 16.00  -0.2
         0.8s    40.00nm          5.2mb
      Z  30s     1.26um          4.4MszX
      N  20s     1.36um
      E  20s     1.20um
                  S      33 12.00
BTO     29.99 276 P      28 20.50  -0.2
      N  15s     0.90um
      E  15s     1.50um
                  pP     28 26.00  19km
                  eS     33 16.00
WHN     31.97 255 iPc    28 38.80   0.8
         1.0s   100.00nm          5.7mb
      Z  20s     1.30um          4.6Msz
      E  18s     1.80um
                  pP     28 45.00  22km
OZH     32.88 243 eP     28 47.50   1.5
XAN     33.77 266 P      28 53.00  -0.8
         1.5s   100.00nm          5.5mb
      E  15s     0.70um
LZH     36.33 272 iPc    29 16.00   0.3
         1.5s   300.00nm          6.0mb
      Z  27s     1.03um          4.5MszX
      E  15s     0.81um
                  pP     29 24.50  29km
                  sP     29 32.00
SLKM    37.38  44 e(P)   29 23.70  -0.4
GTA     37.63 280 iPc    29 27.20   0.6
         1.0s    90.00nm          5.6mb
      Z  17s     1.20um          4.8MszX
      E  12s     1.10um
                  pP     29 33.20  20km
                  sP     29 36.80
                  PP     30 57.00
                  PcP    31 44.60
                  S      35 16.00
                  ScS    39 37.00
PMR     37.86  42 ePd    29 27.70  -0.3
BAG     38.27 231 eP     29 32.00  -0.1
FBA     38.40  37 iPd    29 33.50   0.9
CD2     39.14 265 iPc    29 39.40   0.2
         1.0s   200.00nm          5.8mb
      Z  14s     0.80um          4.7MszX
      N  15s     0.70um
                  esP    29 56.50
                  eS     35 39.50
GYA     39.79 257 iPc    29 43.80  -0.9
         1.0s    61.00nm          5.3mb
      Z  20s     1.20um          4.7Msz
      N  18s     0.80um
      E  18s     1.10um
CGP     42.97 220 eP     30 11.00   0.3
KMI     43.36 259 Pc     30 14.50   0.4
         1.5s   170.00nm          5.6mb
INK     43.85  31 ePc    30 17.40   0.2
WMO     44.00 292 P      30 20.00   1.1
         0.7s    20.00nm          5.1mb
      Z  19s     1.30um          4.9Msz
      N  13s     0.90um
                  PcP    32 04.50
                  ScP    35 51.00
                  eS     36 55.00
                  ScS    40 15.00
MBC     46.63  19 ePc    30 38.70  -0.6
         1.0s    18.00nm          5.0mb
LSA     48.74 273 iP     30 56.00  -1.0
LOE     49.26 252 eP     31 01.00   0.5
                  e      32 24.00 415kmX
CHG     50.17 256 ePc    31 08.10   0.5
         1.0s    48.75nm          5.5mb
BDT     51.22 254 eP     31 16.50   1.0
NST     51.56 252 eP     31 19.00   0.9
YKA     53.15  35 eP     31 28.60  -0.9
         1.1s     9.00nm          4.6mb X
GUN     53.52 275 P      31 33.42   0.3
KSH     53.78 292 P      31 35.00   0.4
KKN     54.02 275 P      31 36.98   0.4
         0.8s   388.00nm          6.5mb
PKI     54.06 275 P      31 37.14   0.1
         1.1s   238.00nm          6.1mb
DMN     54.25 275 P      31 38.78   0.5
         1.0s   452.00nm          6.5mb
GKN     54.34 275 P      31 39.10   0.2
         0.9s   391.00nm          6.4mb
PNT     57.47  51 eP     32 00.00  -1.0
         0.8s    10.00nm          4.9mb
KEV     58.28 340 eP     32 04.00  -2.4
NDI     59.12 281 iPc    32 12.00  -0.7
         0.8s   141.79nm          6.1mb
IPM     59.24 242 ePc    32 14.50   0.8
         1.0s    34.60nm          5.4mb
NEW     59.42  51 P      32 07.00  -7.7X
         1.3s    28.30nm          5.2mb
KGM     59.83 238 ePd    32 19.50   1.8
SOD     60.13 338 eP     32 17.00  -2.2
MTN     60.43 202 eP     32 22.00   0.3
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WDC     60.70  61 eP     32 24.00   0.6
SES     61.39  46 ePc    32 27.10  -1.0
MIN     61.42  60 eP     32 28.50   0.0
FFC     62.98  38 iPc    32 38.10  -0.4
        0.8s    26.00nm          5.4mb
CMB     63.56  62 eP     32 42.40  -0.3
BGMT    64.04  51 ePc    32 46.00   0.1
KAF     64.18 334 iP     32 45.30  -1.0
CTAO    65.07 185 iPd    32 53.00   0.6
        0.7s    46.08nm          5.7mb
                  i      32 56.00  10kmX
HYB     65.40 270 iPd    32 54.40  -0.4
        1.0s   110.00nm          5.9mb
OBN     65.68 325 eP     32 54.00  -2.0
        0.9s   *******nm         8.4mb X
      Z  16s     1.00um          5.1MszX
      N  16s     0.70um
      E  16s     0.50um
                  e      33 26.50 134kmX
MAIO    66.19 298 eP     33 00.00   0.3
ISA     66.24  63 eP     33 01.00   1.0
WR2     66.51 197 iPd    33 01.70   0.0
        0.8s    33.90nm          5.5mb
                 epP     33 14.20  43kmX
WRA     66.51 197 P      33 01.00  -0.7
        0.8s    31.80nm          5.5mb
CLC     66.69  62 eP     33 02.00  -0.9
BW06    66.98  52 ePc    33 01.45  -3.4X
        1.0s    18.25nm          5.2mb
FRB     67.06  18 eP     33 03.00  -1.7
SBB     67.27  63 eP     33 05.00  -1.6
GSC     67.52  62 eP     33 09.00   0.8
POO     67.98 274 iPc    33 14.70   3.5X
        0.8s    80.60nm          5.9mb
UPP     68.53 337 iP     33 11.80  -2.1
GBA     68.77 268 Pc     33 15.10  -0.9
        0.8s    47.90nm          5.7mb
RSSD    69.08  48 iPc    33 17.00  -0.9
        1.0s    59.65nm          5.7mb
AKU     69.14 355 iP     33 18.70   1.1
        0.9s    20.17nm          5.3mb
NB2     69.18 340 P      33 15.10  -2.9X
        0.9s    41.70nm          5.6mb
HFS     69.35 339 eP     33 17.10  -1.9
        0.9s    46.00nm          5.6mb
      Z  19s     0.42um          4.7Msz
                  LR     59 45.00
ASPA    70.22 196 iPc    33 25.70   1.0
        1.0s    35.30nm          5.4mb
KONO    70.79 340 eP     33 27.40  -0.4
KOD     71.06 265 eP     33 30.00  -0.5
IR7     72.01 303 iPc    33 36.50   0.8
IR4     72.15 302 iPc    33 37.50   1.0
TAB     72.87 307 eP     33 42.00   1.3
ANMO    74.05  56 iPd    33 48.00   0.3
        1.5s    15.97nm          4.8mb
ALQ     74.05  56 eP     33 47.80   0.1
        1.0s     5.00nm          4.5mb X
SCH     75.41  21 eP     33 54.00  -1.0
MSL     75.85 308 ePc    33 57.00  -0.8
KRA     75.99 330 eP     33 57.60  -0.6
        0.8s    99.00nm          5.9mb
      Z  18s     0.90um          5.1Msz
      E  18s     1.40um
                  i      33 58.30   2kmX
KSP     76.57 332 iPc    34 01.00  -0.5
        0.9s    79.00nm          5.7mb
VRI     76.77 324 eP     34 01.50  -1.3
CLL     77.21 334 iPc    34 04.20  -0.9
        1.1s   150.00nm          5.9mb
BRG     77.30 334 iPc    34 04.90  -0.7
        1.0s    50.00nm          5.5mb
BHD     77.37 305 ePd    34 06.50   0.2
MLR     77.40 324 ePd    34 15.00   8.6X
EKA     77.47 345 Pc     34 06.10  -0.3
        0.9s    35.20nm          5.4mb
PSZ     77.79 329 iP     34 08.80   0.4
PRU     77.88 333 iPc    34 08.50  -0.2
        1.1s    52.70nm          5.5mb
      N  21s     0.50um
      E  21s     0.30um
                  e      34 17.00  27km
MTUR    77.98 324 eP     34 09.00  -0.6
MOX     78.21 335 iPc    34 10.50  -0.1
        1.2s    67.00nm          5.5mb
      Z  21s     0.60um          4.9Msz
      N  21s     0.60um
      E  23s     0.20um
WTS     78.36 338 iPc    34 11.40   0.1
        1.0s   142.00nm          6.0mb
HOF     78.43 335 eP     34 11.30  -0.5
        1.0s    61.00nm          5.6mb
SRO     78.45 330 iP     34 12.50   0.6
        1.2s   156.20nm          5.9mb
BUD     78.48 329 eP     34 13.00   0.9
ZST     78.56 330 iP     34 13.00   0.5
KHC     78.93 333 iPc    34 14.70   0.1
        1.0s    56.70nm          5.6mb
      Z  18s     0.90um          5.1Msz
                  e      34 32.70  66kmX
GRF     79.18 335 iPc    34 16.40   0.5
        1.0s   132.00nm          5.9mb
      Z  19s     0.50um          4.9Msz
TUL     79.36  49 eP     34 16.40  -0.8
        1.2s    20.90nm          5.0mb
      Z  20s     0.18um          4.4Msz
                  LR     02 17.00
UZD     79.39 329 eP     34 17.00  -0.1
DMU     79.49 347 iPd    34 17.70   0.2
        1.0s   116.00nm          5.9mb
PVL     79.50 323 iPc    34 18.00   0.3
ENN     79.71 338 iPc    34 18.30  -0.4
        1.0s   132.00nm          5.9mb
MEM     79.83 338 iPc    34 19.29  -0.1
DLF     80.01 346 iPd    34 20.50   0.2
        0.9s   125.00nm          5.9mb
UCC     80.08 339 P      34 21.10   0.4
DIM     80.36 322 iP     34 24.00   1.7
SNF     80.37 339 iPc    34 22.32   0.1
BHG     80.39 333 eP     34 23.00   0.5
        1.3s    93.00nm          5.7mb
FUR     80.51 334 iPc    34 23.40   0.3
        1.2s   102.00nm          5.7mb
DOU     80.67 339 P      34 23.80  -0.1
        0.7s    16.60nm          5.2mb
PLD     80.67 322 iP     34 25.00   1.0
KDZ     80.73 322 iP     34 26.00   1.6
GWF     80.87 336 P      34 24.86  -0.1
VTS     80.91 324 iPc    34 26.00   0.5
PTJ     80.93 330 eP     34 22.50  -2.9X
RZN     81.01 322 iP     34 26.00   0.0
WTTA    81.19 333 iPc    34 27.30   0.4
        0.9s    74.60nm          5.7mb
                  i      34 45.60  66kmX
CDF     81.48 336 iPc    34 27.90  -0.4
        1.0s    52.00nm          5.5mb
MMB     81.51 323 iPc    34 29.00   0.5
KKB     81.56 323 iPd    34 29.00   0.3
ECH     81.69 336 P      34 29.37   0.1
SLE     81.71 335 ePd    34 29.40   0.0
OGA     81.74 333 iPc    34 30.20   0.4
        1.2s    65.00nm          5.5mb
FEL     81.75 336 P      34 29.31  -0.4
ZLA     82.00 335 ePd    34 31.10   0.2
VITF    82.02 337 P      34 30.85  -0.1
MOF     82.03 336 P      34 30.86  -0.3
HAU     82.11 337 iPc    34 31.00  -0.5
        1.0s    24.00nm          5.2mb
      Z  19s     0.40um          4.8Msz
BSF     82.14 336 eP     34 31.00  -0.8
        1.0s    28.00nm          5.3mb
SKO     82.16 324 ePc    34 32.10   0.3
        1.0s   110.00nm          5.9mb
VAY     82.23 323 iP     34 32.30   0.2
        1.0s   142.00nm          6.0mb
HRI     82.24 310 eP     34 33.00   0.5
BBS     82.27 336 P      34 32.05  -0.3
LLS     82.37 335 ePd    34 33.30   0.2
VDL     82.57 334 ePd    34 34.50   0.4
LOMF    82.57 336 P      34 34.33   0.4
TMA     83.09 334 ePd    34 36.60  -0.2
FLN     83.14 341 iPc    34 36.50  -0.2
        1.0s    50.00nm          5.6mb
      Z  21s     0.25um          4.6Msz
LDF     83.21 341 iPc    34 37.00  -0.1
        1.2s    65.45nm          5.7mb
MMK     83.41 335 ePd    34 39.30   0.8
ZNT     83.41 310 eP     34 40.00   1.5
LOR     83.46 338 iPc    34 38.10  -0.4
        0.8s    32.25nm          5.6mb
DIX     83.55 335 ePd    34 40.00   0.7
GRR     83.57 341 iPc    34 39.00   0.0
        1.2s   113.05nm          5.9mb
LBF     83.69 338 iPc    34 39.20  -0.5
        1.2s    37.20nm          5.5mb
SSF     83.75 338 iPc    34 39.60  -0.3
        0.8s    18.80nm          5.3mb
LPF     83.95 341 iPc    34 41.10   0.2
        1.0s    56.00nm          5.7mb
AVF     84.04 338 iPc    34 41.20  -0.2
        1.2s    86.30nm          5.9mb
SMF     84.04 338 iPc    34 41.20  -0.2
        1.2s   110.10nm          6.0mb
SFI     84.08 331 P      34 42.80   1.2
BOB     84.11 333 P      34 42.50   0.6
RSL     84.14 336 P      34 42.29   0.2
MME     84.22 332 P      34 43.20   0.5
LPL     84.26 335 iPc    34 43.20   0.4
        0.9s    27.85nm          5.5mb
LPG     84.28 335 iPc    34 43.40   0.4
        0.9s    31.10nm          5.5mb
MKT     84.34 309 eP     34 44.00   0.8
BDI     84.37 332 P      34 43.00  -0.2
BGF     84.38 338 eP     34 43.20   0.1
        1.4s    71.90nm          5.7mb
BNI     84.70 335 P      34 45.20   0.3
PLDF    84.72 338 P      34 45.65   0.7
MAF     84.77 338 iPc    34 45.70   0.6
AGO     84.78 338 P      34 45.88   0.7
CKI     84.79 334 P      34 42.60  -2.6
TCF     84.80 339 iPc    34 45.60   0.4
        1.2s    65.45nm          5.7mb
LSF     85.01 339 eP     34 46.70   0.4
MFF     85.09 340 iPc    34 47.20   0.6
        1.2s    53.55nm          5.6mb
PYM     85.09 338 P      34 47.53   0.8
SSB     85.11 337 P      34 47.37   0.5
LBL     85.50 338 P      34 49.86   1.0
SBF     85.55 334 iPc    34 48.80  -0.3
        1.0s    38.00nm          5.6mb
RJF     85.89 339 iPc    34 51.30   0.6
        1.0s    44.00nm          5.6mb
      Z  22s     0.57um          4.9Msz
FRF     86.07 335 iPc    34 51.40  -0.2
        1.1s    39.05nm          5.5mb
CAF     86.10 338 eP     34 51.90   0.1
        1.2s    84.80nm          5.8mb
PGF     86.25 333 iPc    34 52.20  -0.4
        1.0s    32.00nm          5.5mb
LRG     86.25 335 iPc    34 52.80   0.3
        1.1s    87.90nm          5.9mb
      Z  22s     0.38um          4.7Msz
LMR     86.32 335 iPc    34 52.80   0.0
        1.0s    78.00nm          5.9mb
LFF     86.43 339 eP     34 53.20  -0.1
        1.2s    68.45nm          5.8mb
LPO     86.56 339 eP     34 53.80  -0.2
        1.2s    56.55nm          5.7mb
SLR    130.40 273 ePKP   41 20.50  -1.6
SPA    134.98 180 ePKP   41 31.00   1.5
        1.0s     9.50nm
ZOBO   136.50  61 PKP    41 26.00  -8.4X
      Z  24s     0.18um          4.7MszX
                  i      45 03.00
                  LR     28 20.00
CNCB   137.00  62 PKP    41 37.00   1.7
                  i      45 06.00
SIV    140.47  53 PKP    41 33.00  -8.0X
BAO    146.57  34 ePKPd 41 53.00   1.4
NVL    147.53 204 (PKP)d41 55.00   3.6X
PPD    150.66  45 ePKP   42 03.70   6.0X
SNA    151.50 199 iPKPd 42 04.90   7.4X
        1.0s    60.00nm
      S.D. = 0.9  on 194 of 209 obs.
-----------------------------------------
?  JUL  15, 1991  12h 27m 03.19± 4.00s
   18.829 S ±18.1km  178.273 W ±31.3km
   DEPTH = 595.4 ± 39.7 km
   5.1mb ( 14 obs.)
 FIJI ISLANDS REGION                (181)

DZM     14.68 255 iPc    30 08.20  -0.1
COO     29.43 241 iPc    32 21.90  -0.1
        0.6s    38.00nm          5.2mb
RMO     31.30 250 iPd    32 39.50   1.7
        0.6s    39.00nm          5.2mb
                  i      32 53.70
CMS     34.69 242 iPd    33 06.20   0.1
        0.7s    29.00nm          5.0mb
QLP     35.34 250 iPd    33 11.50   0.1
        0.4s    78.00nm          5.7mb
```

15d 12h

```
TOO     36.70 232 iPc    33 22.70   0.2
        0.7s     15.00nm          4.7mb
MDG     37.56 286 eP     33 30.80   1.1
STK     38.31 242 iPd    33 36.30   0.6
        0.4s     18.20nm          5.0mb
WR2     44.58 260 iPc    34 24.80  -0.6
        0.5s     67.60nm          5.4mb
WRA     44.60 260 P      34 33.00   7.4X
        0.4s      4.50nm          4.4mb
ASPA    44.68 255 iPd    34 26.30   0.1
        0.8s    223.00nm          5.7mb
                  iS     40 27.50
MTN     48.91 269 eP     34 57.70  -0.6
FORR    49.70 245 eP     35 03.00  -0.8
        0.4s     24.00nm          5.1mb
KNA     50.51 265 eP     35 09.80  -0.2
        0.5s     49.00nm          5.2mb
WARB    51.10 251 iPd    35 14.10  -0.2
        0.4s     23.00nm          5.0mb
COOL    55.68 245 eP     35 45.50  -1.1
KLB     58.54 244 eP     36 05.00  -1.0
BAL     59.51 245 eP     36 11.70  -0.7
MUN     59.83 243 eP     36 14.50   0.0
MRWA    60.26 247 eP     36 17.00  -0.4
NANU    61.59 254 iPd    36 26.50   0.4
        0.3s     21.00nm          5.0mb
KAKJ    67.38 324 eP     37 02.50   0.5
MAT     68.72 323 iPd    37 09.30  -0.8
        0.7s      5.48nm          4.2mb
FBA     86.67  13 (P)    38 43.20  -2.0
CLL    146.38 347 iPKPc  45 39.40   2.6
        1.1s     19.00nm
BRG    146.58 346 e(PKP)45 37.80   0.6
WTTA   150.50 346 iPKPc  45 50.00   6.4X
        0.6s      8.90nm
                  e      45 55.00
      S.D. = 1.0   on   25 of   27 obs.
-----------------------------------------
%  JUL  15, 1991  12h 36m 17.65± 0.77s
   46.291 N ± 7.7km    1.124 E ± 6.1km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                              (538)
      ML 2.7 (LDG).

LSF      0.28  98 Pg     36 22.80  -0.8
TCF      0.75  90 Pg     36 31.20  -1.2
                  Sg     36 40.80
MFF      0.93 290 Pg     36 34.80  -0.6
                  Sg     36 46.80
MAF      1.00  93 Pg     36 36.00  -0.7
                  Sg     36 48.40
RJF      1.02 164 Pg     36 37.00   0.0
                  Sg     36 50.20
CAF      1.52 154 Pg     36 45.80   0.9
                  Sg     37 05.00
AVF      1.62  71 Pg     36 46.40   0.1
                  Sg     37 05.80
SSF      1.81  64 Pg     36 49.50   0.4
                  Sg     37 12.00
SMF      1.91  78 Pg     36 51.40   0.8
                  Sg     37 15.60
LBF      2.08  70 Pg     36 55.40   2.3X
                  Sg     37 21.60
LOR      2.12  62 Pg     36 54.70   1.1
                  Sg     37 21.20
      S.D. = 0.9   on   10 of   11 obs.
-----------------------------------------
*  JUL  15, 1991  13h 05m 06.16± 0.91s
   38.285 N ± 8.5km    20.954 E ± 9.1km
   DEPTH =   5.0km  (geophysicist)
 GREECE                              (364)
      MD 3.0 (ATH).

VLS      0.31 250 iPgc   05 11.90  -0.5
                  eSg    05 19.50
KEK      1.69 328 ePb    05 37.50   1.1
                  eSb    06 01.70
KZN      2.12  17 ePn    05 42.00  -0.7
VLI      2.22 134 ePb    05 44.50   0.3
SKO      3.70   6 ePn    06 05.00  -0.2
      S.D. = 1.0   on    5 of    5 obs.
-----------------------------------------
   JUL  15, 1991  13h 25m 36.46± 0.70s
   37.899 N ± 5.5km    27.538 E ± 6.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 3.6 (ISK).

IZM      0.54 337 iPg    25 47.50   0.0
YER      0.97 142 ePg    25 55.00   0.1
KHL      1.62  74 ePn    26 04.50  -0.8
DST      1.91  26 iPn    26 10.00   0.7
EZN      2.14 334 ePn    26 13.00   0.3
ELL      2.21 121 ePn    26 14.00   0.1
EDC      2.46   6 ePn    26 17.00  -0.2
KGT      2.56 356 iPn    26 18.00  -0.6
IZI      2.86  31 ePn    26 23.00   0.0
YLV      3.02  28 ePn    26 25.00  -0.3
GPA      3.22  41 ePn    26 28.00   0.0
GBZT     3.24  27 ePg    26 38.20   9.9X
HRT      3.35  29 ePn    26 30.00   0.0
ISK      3.37  20 ePn    26 31.00   0.8
RZN      4.36 331 iP     26 39.00  -5.5X
MMB      4.71 323 iP     26 49.00  -0.3
      S.D. = 0.5   on   14 of   16 obs.
-----------------------------------------
?  JUL  15, 1991  15h 23m 53.88± 2.18s
   37.844 N ±15.2km    29.331 E ±21.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 3.1 (ISK).

KHL      0.50  18 ePg    24 04.00  -0.1
                  iSg    24 11.50
YER      1.09 230 ePn    24 14.50   0.0
IZM      1.72 289 ePn    24 24.00  -0.1
DST      1.84 343 ePn    24 26.00   0.2
      S.D. = 0.2   on    4 of    4 obs.
-----------------------------------------
   JUL  15, 1991  15h 45m 02.59± 0.47s
   45.488 N ± 5.7km    21.136 E ± 6.9km
   DEPTH =  10.0km  (geophysicist)
 ROMANIA                             (358)

BEO      0.82 216 iPgc   45 18.50   0.0
                  iSg    45 30.00
UZD      2.09 303 ePn    45 39.00   0.9
BUD      2.47 325 iPn    45 44.00   0.5
BMR      2.73  36 ePd    45 52.00   4.8X
MTUR     2.78  94 eP     45 51.50   3.4X
BLY      2.89 257 Pn     45 59.50  10.0X
                  Sn     46 36.50
SRO      3.03 321 iPn    45 52.40   1.0
        1.0s      0.20nm
                  i(Sn)  46 30.20
VTS      3.26 152 iP     45 55.00   0.1
SKO      3.52 176 ePn    46 01.10   2.6
                  i      46 06.50
ZAG      3.63 277 iPn    45 59.40  -0.6
                  iSn    46 39.70
PTJ      3.65 278 iPn    46 00.00  -0.4
                  eSn    46 45.10
PVL      3.77 126 eP     46 02.00   0.0
ZST      3.87 316 iPnd   46 03.80   9.4
                  i      46 10.70
                  i      46 48.00
KKB      3.89 158 eP     46 04.00   0.3
HVAR     4.08 237 ePn    46 06.20  -0.1
PLD      4.25 141 eP     46 19.00  10.1X
VAY      4.29 165 ePn    46 08.70  -0.7
MMB      4.33 153 eP     46 10.00   0.0
RZN      4.60 144 iPc    46 14.00   0.0
KDZ      4.94 139 iPd    46 18.00  -0.6
KSP      6.26 331 ePn    46 36.50  -0.7
                  iPg    46 51.80
                  eS     47 34.00
KHC      6.30 308 ePn    46 37.00  -0.8
PRU      6.33 318 Pn     46 36.80  -1.4
                  e      46 51.70
                  Sn     47 45.90
KGT      6.77 136 iP     46 42.50  -1.8
MOX      8.20 312 e(P)   47 03.00  -1.4
NB2     16.64 343 P      48 59.50   2.3
        0.7s      1.00nm          3.1mb
      S.D. = 1.1   on   22 of   26 obs.
-----------------------------------------
   JUL  15, 1991  15h 57m 46.74± 0.19s
   24.020 S ± 4.2km   179.784 W ± 4.3km
   DEPTH = 505.0km  ( 10 depth phases)
   5.2mb ( 50 obs.)
 SOUTH OF FIJI ISLANDS               (171)
      CENTROID, MOMENT TENSOR        (HRV)
      Data Used: GDSN
      L.P.B.: 16S, 27C
      Centroid Location:

      Origin Time        15:57:52.1 1.0
      Lat 23.72S 0.10 Lon 179.46W 0.06
      Dep 513.7 4.3 Half-duration  1.7
      Moment Tensor;    Scale 10**16 Nm
        Mrr=-3.07 0.46  Mtt= 0.40 0.76
        Mff= 2.66 0.75  Mrt= 5.11 0.69
        Mrf=-8.93 0.65  Mtf=-0.86 0.65
       Principal Axes:
        T  Vol= 10.61  Plg=37  Azm= 63
        N        0.21       3      331
        P      -10.82      53      237
      Best Double Couple:Mo=1.1*10**17
       NP1:Strike=171 Dip= 9 Slip= -70
       NP2:        331      82      -93

DZM     12.83 276 iPc    00 36.90   1.8
                  iS     03 06.80
                  ScP    08 15.90
HBZ     13.63 186 eP     00 42.00  -1.1
PUZ     14.11 186 P      00 48.40   0.4
                  eS     03 09.90
TAZ     14.52 192 eP     00 55.00   2.9
NOZ     14.67 187 eP     00 52.60  -1.1
NGZ     15.61 193 P      01 04.10   0.8
CNZ     15.64 194 eP     01 05.00   1.4
PGZ     16.88 190 eP     01 16.50   0.9
MNG     17.02 192 eP     01 14.90  -2.2
                  eS     04 01.80
DIW     17.55 196 eP     01 23.20   1.0
CAW     17.58 193 P      01 21.80  -0.7
                  e      02 31.80
WDW     17.75 193 eP     01 22.70  -1.4
BLW     17.75 192 P      01 24.30   0.2
MRW     17.77 194 eP     01 24.20  -0.1
                  eS     04 17.20
WEL     17.81 194 P      01 25.80   1.1
                  pP     01 33.00
                  S      04 18.00
TCW     17.85 195 eP     01 24.40  -0.7
                  e      02 34.90
THZ     18.72 197 eP     01 34.10   0.5
                  e      02 43.20
                  eS     04 35.30
KHZ     19.17 195 eP     01 36.10  -1.7
        0.8s    267.00nm          5.9mb
                  e      02 44.80
LTZ     19.84 197 P      01 43.40  -0.9
                  eS     04 51.10
MOZ     20.60 196 eP     01 49.90  -1.4
                  eS     05 04.80
TLC     22.98 200 P      02 12.00  -1.3
HNR     24.18 303 P      02 22.00  -2.2
RMO     28.53 258 iPd    03 05.40   2.9
        1.0s    247.00nm          5.7mb
                  i      04 14.40 377kmX
                  i      06 01.00
AFR     28.75  83 iP     03 03.10  -1.3
        1.4s    335.00nm          5.7mb
PAE     28.89  83 iP     03 05.20  -0.4
        1.4s    220.00nm          5.5mb
PPT     28.92  83 iP     03 05.70  -0.3
        1.4s    250.00nm          5.6mb
CNB     28.96 240 iPd    03 08.10   1.8
        0.4s     81.00nm          5.6mb
PPN     29.06  83 iP     03 06.60  -0.6
        1.4s    195.00nm          5.5mb
TVO     29.15  84 iP     03 07.00  -1.0
        1.4s    245.00nm          5.6mb
CAN     29.25 240 iPd    03 10.00   1.2
                  e      04 18.60 371kmX
BWA     29.52 242 iPd    03 09.90  -1.2
CMS     31.23 249 iPd    03 26.40   0.7
        0.2s     31.00nm          5.5mb
PMO     31.30  79 iP     03 25.80  -0.6
        1.2s     75.00nm          5.1mb
VAH     31.46  80 iP     03 26.80  -0.9
        1.2s     50.00nm          4.9mb
TPT     31.56  79 iP     03 28.00  -0.6
        1.2s    140.00nm          5.4mb
RUV     31.70  80 iP     03 29.20  -0.5
        1.2s    125.00nm          5.3mb
TOO     32.55 237 iPd    03 38.30   1.5
        0.9s     96.00nm          5.3mb
                  i      04 47.00 360kmX
OLP     32.57 258 eP     03 37.00   0.0
        0.1s    118.00nm          6.4mb X
                  i      04 46.70 367kmX
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TAU     33.00 227 eP     03 42.00   1.6
PMG     34.72 289 iPd    03 54.60  -0.6
        0.4s    118.64nm          5.8mb
BFD     34.75 239 iPd    03 53.90  -1.3
        0.9s    114.00nm          5.4mb
STK     34.86 248 iPd    03 57.20   0.9
        0.9s     29.10nm          4.8mb
ADE     37.50 243 iPd    04 18.30   0.3
        1.0s    196.00nm          5.6mb
OIS     37.65 267 iPd    04 19.20  -0.1
        0.3s     10.00nm          4.8mb
ASPA    42.21 261 iPd    04 56.30   0.1
        1.2s    191.00nm          5.5mb
                  ePcP   06 29.10
                  iScP   09 43.20
                  eS     10 24.90
WR2     42.57 266 iPc    04 58.70  -0.4
        0.4s    203.90nm          6.0mb
                  ipP    06 07.40 342kmX
                  eS     10 41.50
WRA     42.59 266 P      04 58.00  -1.3
        0.6s    137.80nm          5.7mb
FORR    46.41 250 eP     05 28.00  -0.8
        0.3s    124.00nm          5.9mb
                  e      06 36.50 335kmX
MTN     47.66 274 eP     05 36.00  -2.5
WARB    48.28 256 iPd    05 42.30  -0.8
        0.3s     20.00nm          5.0mb
KNA     48.86 270 iPd    05 47.20  -0.4
        0.3s     63.00nm          5.5mb
                  e      06 55.00 326kmX
COOL    52.35 249 eP     06 11.80  -1.3
AAI     54.03 284 ePd    06 23.60  -1.7
SBA     54.27 183 iPd    06 28.90   2.8
KLB     55.12 247 iPd    06 31.70  -1.0
        0.3s     19.00nm          5.0mb
RKG     55.33 244 eP     06 33.50  -0.7
NWAO    55.37 246 eP     06 33.70  -0.7
BAL     56.17 248 iPd    06 39.00  -1.1
        0.4s     27.00nm          4.9mb
MUN     56.37 247 eP     06 40.50  -0.9
MRWA    57.03 250 iPd    06 45.20  -0.8
        0.3s     12.00nm          4.7mb
                  e      07 54.00 317kmX
NANU    58.95 257 iPd    06 58.30  -0.8
        0.3s     26.00nm          5.1mb
CSY     60.10 206 iPc    07 05.80  -0.3
        0.7s     24.90nm          4.7mb
SPA     66.12 180 iPd    07 46.50   1.5
        1.1s     71.43nm          5.2mb
                  i      09 35.90 529kmX
CHJJ    71.32 326 P      08 16.00  -0.2
IIDJ    71.45 325 P      08 16.80  -0.3
MAT     72.11 326 iPd    08 19.70  -1.1
        0.9s     13.45nm          4.5mb
MTMJ    72.35 325 P      08 21.90  -0.4
TSRJ    72.53 323 P      08 23.10  -0.2
KUSJ    74.35 334 eP     08 33.10  -0.3
ADK     75.62   2 e(P)   08 26.30 -13.9X
ASAJ    76.04 333 eP     08 44.00   1.3
MAW     77.71 200 iPd    08 52.60   1.1
        1.1s     70.00nm          5.0mb
AIA     78.39 157 e(P)   08 56.00   0.8
NJ2     80.89 311 P      09 09.20   0.5
PRI     81.82  45 eP     09 05.86  -7.7X
BKS     81.91  42 iPc    09 15.90   2.1
        0.8s     41.00nm          5.0mb
MHC     81.94  43 eP     09 15.30   1.1
PLM     82.71  49 eP     09 18.80   0.6
                  pP     11 10.00 504km
RVR     82.73  48 eP     09 18.00   0.0
                  e      11 13.00 526kmX
SBB     82.82  47 eP     09 19.00   0.4
                  e      11 10.00 503km
CMB     83.15  43 eP     09 20.00  -0.1
        1.3s     40.98nm          4.8mb
                  pP     11 11.90 508km
WHN     83.23 308 eP     09 22.00   1.4
WDC     83.42  40 eP     09 22.30   1.0
CLC     83.63  46 eP     09 23.00   0.4
                  e      11 15.00 507km
TPC     83.69  48 eP     09 24.00   1.1
                  e      11 15.00 502km
GSC     83.86  47 eP     09 24.00   0.2
                  e      11 11.00 479kmX
SNY     83.86 321 iPc    09 24.20   0.7
GLA     83.95  50 eP     09 26.00   1.8
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                  e      11 21.00 524kmX
CN2     84.10 324 Pd     09 24.80   0.2
        1.2s     30.00nm          4.8mb
                  eS     19 08.00
TIA     84.46 314 P      09 27.20   0.6
        1.2s     30.00nm          4.8mb
NVL     85.12 184 (P)c   09 29.00  -0.3
                  e      11 23.00 516kmX
TNP     85.19  45 ePc    09 30.30  -0.1
        0.8s      8.82nm          4.5mb
                  pP     11 22.60 507km
SVW     87.06  11 ePc    09 37.50  -1.1
        1.0s     18.00nm          4.8mb
BJI     87.25 316 eP     09 40.00   0.1
        1.5s     35.00nm          4.9mb
SLKM    87.60  14 ePc    09 40.60  -0.6
                  pP     11 37.00 525kmX
TIY     88.41 313 iPd    09 46.20   0.7
        1.0s     40.00nm          5.2mb
PMR     88.81  14 iPd    09 47.00   0.3
        1.0s     35.00nm          5.2mb
XAN     88.97 308 P      09 49.00   0.9
        0.8s     20.00nm          5.0mb
CHG     89.90 291 ePd    09 53.90   1.2
        1.0s     28.25nm          5.1mb
                  e      10 03.30  29kmX
BALM    90.01  17 ePc    09 52.10  -0.3
                  pP     11 46.20 510km
HHC     90.64 315 eP     09 55.80   0.1
        1.2s     30.00nm          5.1mb
ALO     90.87  52 ePc    09 57.40   0.3
        1.1s     12.03nm          4.7mb
                  epP    11 51.00 507km
ANMO    90.88  52 ePc    09 57.60   0.5
        1.0s     10.00nm          4.7mb
                  pP     11 50.00 500km
CD2     91.31 303 P      10 00.60   1.6
BW06    92.65  44 ePc    10 04.60  -0.5
        1.0s      5.00nm          4.5mb
                  pP     11 57.50 502km
                  PP     13 51.20
LZH     93.60 308 iPd    10 10.50   0.9
        1.5s     28.00nm          5.1mb
GOL     93.90  48 ePd    10 12.00   1.0
        0.9s      5.68nm          4.7mb
YAK     94.74 339 eP     10 11.90  -2.0
GTA     97.92 310 eP     10 29.60   0.6
SO81   128.01 125 ePKP   15 55.70  -1.3
UPP    142.17 346 iPKP   16 16.30  -5.6X
N82    142.23 351 PKP    16 17.30  -4.8X
        0.9s      9.10nm
HFS    142.70 349 ePKP   16 17.90  -4.9X
        0.7s     22.30nm
KONO   143.79 352 ePKP   16 22.50  -2.2
BHL    147.61 296 PKP    16 34.00   2.1
HRI    147.62 295 ePKP   16 36.00   4.0X
JVI    148.09 292 ePKP   16 37.00   4.3X
EKA    148.62   4 PKPc   16 36.50   3.8X
        1.0s     14.10nm
MBH    148.64 288 ePKP   16 38.00   4.4X
KRA    149.80 334 ePKP   16 39.60   5.0X
        1.0s     50.00nm
KSP    150.47 339 iPKPd  16 41.20   5.6X
        0.8s     55.00nm
                  ic     16 50.60
                  e      18 43.70
CLL    151.02 343 iPKP   16 42.40   6.0X
        1.0s     57.00nm
                  i      16 52.10
                  pPKP   18 52.00
BRG    151.16 342 iPKPd  16 43.10   6.5X
                  i      16 53.10
                  ipPKP  18 42.00
                  e      18 53.10
WTS    151.61 351 ePKP   16 44.00   6.8X
        0.8s     31.00nm
PRU    151.77 340 ePKP   16 44.20   6.7X
        0.7s     12.80nm
                  e      16 55.50
                  e      18 48.00
MOX    151.99 344 iPKP   16 44.80   6.9X
        1.3s     18.00nm
                  i      16 56.50
KHC    152.82 341 iPKP   16 38.00  -1.1
                  e      16 46.50
                  e      17 00.50
GRF    152.96 344 ePKP   16 47.20   7.9X
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                  e      17 01.30
                  e      19 00.00
     S.D. = 1.2  on 111 of 128 obs.
-----------------------------------
%  JUL  15, 1991  16h 34m 56.34± 0.80s
   38.757 N ± 7.7km   27.703 E ± 9.1km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      MD 2.9 (ISK).

IZM      0.50 224 ePg    35 06.60   0.2
                  eSg    35 15.10
DST      1.11  40 iPg    35 17.60   0.4
                  eSg    35 32.50
KHL      1.49 106 ePn    35 23.00  -0.3
EDC      1.59   4 ePn    35 24.80   0.2
KGT      1.72 350 ePn    35 26.00  -0.5
     S.D. = 0.5  on   5 of   5 obs.
-----------------------------------
   JUL  15, 1991  17h 18m 19.42± 0.91s
   49.168 N ± 7.7km    6.872 E ± 8.0km
   DEPTH =  10.0km  (geophysicist)
 GERMANY                           (543)
      ML 2.2 (STR).

GWF      0.53 111 Pg     18 29.66  -0.5
WLF      0.68 317 iPd    18 32.98   0.0
                  iS     18 42.45
CDF      0.80 160 Pg     18 34.32  -0.7
ECH      0.97 169 Pg     18 38.08   0.2
VITF     1.12 212 Pg     18 39.98  -0.4
                  Sg     18 55.24
MOF      1.33 172 Pg     18 44.30   0.3
                  Sg     19 02.48
FEL      1.50 149 Pg     18 47.60   1.1
                  Sg     19 07.12
LOMF     1.82 181 Pg     18 53.84   2.8X
     S.D. = 0.8  on   7 of   8 obs.
-----------------------------------
   JUL  15, 1991  17h 39m 59.77± 0.69s
   39.046 N ± 6.8km   22.113 E ± 7.1km
   DEPTH =  10.0km  (geophysicist)
 GREECE                            (364)
      MD 3.1 (ATH).

AGG      0.17  98 iPc    40 05.04   1.4
                  eS     40 09.24
LIT      1.09  15 ePc    40 19.85  -0.5
                  eS     40 36.28
VLS      1.48 234 ePb    40 26.00  -0.4
PAIG     1.50  54 ePc    40 26.00  -0.7
                  eS     40 46.16
KEK      1.91 291 ePn    40 33.00   0.3
SOH      2.01  28 ePc    40 33.56  -0.6
                  eS     40 59.68
SRS      2.36  28 eP     40 38.30  -0.8
VLI      2.41 164 ePn    40 39.50  -0.4
SKO      2.97 350 ePn    40 49.50   1.8
     S.D. = 1.1  on   9 of   9 obs.
-----------------------------------
%  JUL  15, 1991  18h 08m 32.46± 1.28s
   38.860 N ± 7.7km   29.833 E ±17.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      MD 2.9 (ISK).

KHL      0.59 204 iPg    08 44.40   0.0
                  iSg    08 51.90
DST      1.20 309 ePn    08 55.00   0.2
IZI      1.50 349 iPn    08 58.80  -0.7
EYL      1.72   8 iPn    09 03.20   0.5
YLV      1.74 348 iPn    09 03.00   0.0
     S.D. = 0.6  on   5 of   5 obs.
-----------------------------------
   JUL  15, 1991  18h 09m 58.33± 0.23s
   21.877 S ± 7.1km  138.963 W ± 8.0km
   DEPTH =   0.0km  (geophysicist)
   5.3mb ( 26 obs.)
 TUAMOTU ARCHIPELAGO REGION       (631)

DZM     50.39 259 iPd    19 00.90   1.1
BAR     58.28  22 eP     19 58.00   0.7
PLM     58.83  22 eP     20 02.00   0.7
PAS     59.12  20 eP     20 03.00  -0.1
PEC     59.22  21 ePc    20 04.00   0.2
        0.9s     10.58nm          5.0mb
MWC     59.23  20 eP     20 04.00  -0.1
```

15d 18h

RVR	59.24	21	eP	20 04.00	0.1
GLA	59.28	24	eP	20 05.00	0.7
SBB	59.73	20	eP	20 07.00	-0.4
TPC	59.79	22	eP	20 08.00	0.2
PRS	60.23	16	eP	20 11.80	1.1
PRI	60.24	17	eP	20 12.40	1.5
ISA	60.43	19	eP	20 13.00	0.9
GSC	60.62	21	eP	20 13.00	-0.5
SAO	60.62	16	ePc	20 14.00	0.6
PEL	60.66	117	iPc	20 13.80	-0.1
GCC	60.74	16	ePc	20 14.80	0.7
CLC	60.84	20	eP	20 15.00	0.1
PCC	61.09	15	ePc	20 17.30	0.8
MHC	61.12	16	ePc	20 17.80	0.9
FRI	61.30	18	ePc	20 18.30	0.3
BRK	61.47	15	ePc	20 19.80	0.7
BKS	61.48	15	iPd	20 20.20	1.0
	1.0s	61.00nm		5.7mb	
CMB	62.10	17	ePc	20 23.80	0.4
TNP	63.04	19	ePc	20 29.80	-0.1
	0.6s	5.74nm		5.0mb	
			iPcP	21 07.60	
ARE	63.53	98	eP	20 34.00	0.4
WDC	63.99	14	ePc	20 35.80	0.0
ALQ	64.39	29	iPc	20 38.90	0.2
	1.0s	25.00nm		5.4mb	
			e	21 12.00	
ANMO	64.39	29	iPc	20 38.60	-0.1
	0.9s	22.06nm		5.4mb	
			iPcP	21 11.50	
RMO	65.31	250	iPd	20 47.00	2.2
TOO	65.85	237	eP	20 48.00	-0.1
PV09	66.26	25	eP	20 50.50	-0.4
LP8	66.62	99	P	20 56.00	2.2
CNCB	66.65	99	P	20 56.00	1.9
ZOBO	66.67	99	iPc	20 55.10	0.8
	1.0s	47.50nm		5.7mb	
CMS	66.73	244	iPc	20 53.80	0.0
GOL	68.82	27	ePc	21 06.40	-0.6
	1.1s	22.44nm		5.3mb	
GLD	68.93	27	ePc	21 07.60	0.1
CTAO	69.17	256	iPc	21 10.00	0.8
	1.0s	80.00nm		5.9mb	
OLP	69.22	249	eP	21 10.00	0.6
BW06	69.81	23	iPc	21 11.80	-1.1
	0.9s	10.59nm		5.0mb	
STK	70.16	243	iPc	21 14.80	-0.3
	0.7s	5.10nm		4.8mb	
TUL	70.51	36	iPc	21 15.70	-1.3
	1.0s	51.30nm		5.6mb	
Z	18s	0.07um		4.0Msz	
		LR		44 48.00	
LRM	71.55	19	eP	21 24.00	0.5
PGC	71.56	11	eP	21 23.00	-0.1
NEW	72.51	15	ePc	21 28.50	-0.4
	0.7s	26.00nm		5.5mb	
LAT	72.76	270	eP	21 31.90	0.9
PNT	72.94	13	eP	21 31.00	-0.3
	1.0s	38.00nm		5.5mb	
RSSD	73.05	26	ePc	21 30.70	-1.6
	1.2s	35.23nm		5.4mb	
SIV	73.21	101	Pc	21 33.40	-0.2
FVM	74.99	38	ePc	21 42.10	-1.3
	0.7s	34.01nm		5.5mb	
SES	76.08	18	ePc	21 49.50	0.1
	1.1s	69.00nm		5.7mb	
CSY	78.04	203	iPc	22 00.60	0.5
	0.8s	11.50nm		5.1mb	
JSC	78.27	46	eP	22 02.00	0.1
ASPA	79.02	249	iPc	22 05.90	-0.5
	1.3s	12.20nm		4.8mb	
WR2	79.84	253	eP	22 10.70	-0.1
	0.6s	9.70nm		4.9mb	
WRA	79.86	253	P	22 10.00	-0.9
	1.1s	8.70nm		4.6mb	
PPD	80.01	110	eP	22 11.90	0.2
BLA	80.57	44	eP	22 14.50	0.2
	0.8s	20.13nm		5.2mb	
SLKM	82.60	354	eP	22 23.50	-0.8
FFC	82.61	21	iPc	22 23.80	-0.7
	0.6s	5.00nm		4.9mb	
PMR	83.58	355	ePc	22 28.00	-1.3
	0.7s	40.70nm		5.8mb	
SVW	83.78	352	eP	22 29.40	-1.0
	0.7s	27.91nm		5.6mb	
YKA	86.29	11	eP	22 42.60	-0.2
	1.0s	35.70nm		5.5mb	

TBR	86.76	43	eP	22 45.00	-0.6
MAW	89.33	188	iP	22 58.20	0.6
INK	90.01	2	eP	23 03.00	2.5
SOB1	94.00	102	eP	23 20.20	0.0
MBC	98.64	5	eP	23 40.00	0.2
	1.0s	7.00nm		5.3mb	
CHG	125.89	278	ePKPd	29 05.00	0.3
	1.1s	22.15nm			
GTA	127.39	304	PKPc	29 07.00	-0.2
			sPKP	29 14.00	
LSA	134.50	291	ePKP	29 19.00	-2.4
NB2	135.71	20	PKP	29 22.10	-0.1
	1.2s	5.70nm			
WMO	135.81	311	PKP	29 22.50	-0.5
HFS	137.19	20	ePKP	29 13.50	-11.4X
	0.5s	1.50nm			
KAF	138.53	10	ePKP	29 16.10	-11.3X
DOU	139.87	36	PKP	29 30.90	0.8
WTS	140.00	33	ePKP	29 31.00	0.7
	1.0s	18.00nm			
ENN	140.24	35	ePKP	29 31.00	0.2
	0.9s	15.00nm			
MOX	143.20	31	ePKP	29 32.70	-3.3X
	1.4s	24.00nm			
			e	29 37.00	
			e	30 44.00	
CLL	143.42	30	ePKP	29 33.00	-3.3X
	1.3s	23.00nm			
HOF	143.55	32	ePKP	29 33.40	-3.3X
BNI	143.59	42	PKP	29 35.80	-1.3
GRF	143.62	33	ePKP	29 34.50	-2.3
RRL	143.72	43	PKP	29 35.61	-1.8
RSP	143.91	42	PKP	29 35.30	-2.3
BHB	144.06	42	PKP	29 35.50	-2.2
ORX	144.12	41	PKP	29 35.61	-2.3
PZZ	144.12	43	PKP	29 36.22	-1.7
BRG	144.15	30	iPKP	29 34.60	-3.0X
			i	29 36.00	
DOI	144.21	43	PKP	29 37.00	-1.1
STV	144.38	43	PKP	29 36.94	-1.4
GBA	144.44	263	PKPd	29 37.20	-1.9
	0.9s	5.40nm			
ENR	144.45	43	PKP	29 36.02	-2.5
ROB	144.70	43	PKP	29 37.45	-1.4
IMI	144.90	43	PKP	29 37.56	-1.7
CKI	144.90	42	PKP	29 37.20	-1.9
FIN	144.96	43	PKP	29 38.17	-1.1
PCP	145.01	42	PKP	29 38.17	-1.2
PRU	145.04	30	PKPc	29 38.40	-0.8
	0.9s	70.70nm			
			e	30 04.70	
KHC	145.16	32	iPKPc	29 38.60	-0.9
	1.0s	44.30nm			
			e	30 08.50	
KSP	145.22	28	iPKPc	29 39.10	-0.3
	0.9s	76.00nm			
OGA	145.22	37	iPKPc	29 40.10	0.2
WTTA	145.33	36	iPKPc	29 39.90	-0.1
	1.1s	76.80nm			
			i	29 46.60	
BOB	145.45	41	PKPd	29 40.20	0.1
SAL	145.65	39	PKP	29 40.60	0.3
BHG	145.71	34	iPKPc	29 40.90	0.5
	0.9s	104.00nm			
FVI	146.36	36	PKP	29 42.00	0.6
KBA	146.36	35	iPKPc	29 41.00	-0.7
	1.4s	110.00nm			
			i	29 42.40	
MME	146.51	41	PKP	29 42.90	0.8
BDI	146.52	41	PKP	29 42.30	0.4
OBN	146.66	5	iPKPc	29 42.50	0.9
	1.1s	140.00nm			
NDI	146.68	289	iPKPc	29 44.00	1.4
	0.7s	41.10nm			
VKA	147.08	31	iPKPc	29 44.00	1.4
	1.0s	82.10nm			
			i	29 45.20	
PGD	147.31	41	PKPd	29 45.80	2.5
KRA	147.33	25	iPKPd	29 45.90	3.0
	1.0s	112.00nm			
SFI	147.36	41	PKPd	29 46.40	3.3X
TRI	147.44	37	ePKPc	29 45.70	2.5
ZST	147.50	30	iPKP	29 44.50	1.3
			i	29 47.00	
CRE	147.58	41	PKP	29 45.50	1.8
SPC	148.14	26	ePKP	29 48.90	4.4X
ARV	148.25	41	PKP	29 47.40	2.8

ASS	148.32	42	PKP	29 42.70	-2.1
SRO	148.34	30	iPKP	29 44.80	0.2
			i	29 48.40	
MNS	148.69	43	PKP	29 49.10	3.7X
SDI	149.77	43	PKPd	29 52.00	4.9X
MGR	151.72	44	PKPd	29 56.40	6.4X
CSI	152.39	44	PKP	29 57.50	6.5X
TDS	152.49	44	PKP	29 51.00	-0.1
CZI	152.59	45	PKP	29 57.00	5.8X
ROI	152.69	44	PKP	29 58.50	7.0X
SOI	153.12	48	PKP	29 59.20	7.2X
MLR	153.40	24	ePKPd	29 47.00	-5.4X
			e	35 33.50	
SKO	154.07	35	ePKP	29 53.70	0.4
			e	30 01.00	
			e	30 14.20	
VAY	155.13	35	ePKP	29 55.40	0.8
	S.D. = 1.2	on 119 of 135 obs.			

% JUL 15, 1991 18h 29m 55.84± 0.95s
42.507 N ± 7.3km 19.870 E ± 7.2km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 1.9 (TTG).

PVY	0.12	41	iPgc	29 59.20	0.3
			iSg	30 01.40	
IVA	0.36	3	iPgc	30 03.03	-0.3
			iSg	30 08.87	
TTG	0.46	260	iPgd	30 05.27	0.1
			iSg	30 12.65	
NKY	0.71	296	iPgd	30 10.02	0.1
			iSg	30 20.83	
ULC	0.71	220	iPgc	30 09.58	-0.3
			iSg	30 21.20	
BDV	0.80	254	iPgd	30 11.57	0.1
			iSg	30 24.15	
HCY	1.02	267	iPgd	30 15.10	0.0
			iSg	30 30.98	
BRY	1.05	292	ePg	30 15.75	0.0
			iSg	30 32.05	
	S.D. = 0.3	on 8 of 8 obs.			

• JUL 15, 1991 18h 34m 36.27± 1.03s
45.460 N ± 7.1km 21.023 E ±14.5km
DEPTH = 10.0km (geophysicist)
ROMANIA (358)

BEO	0.75	212	iPgd	34 51.70	0.7
			eSg	35 02.80	
PSZ	2.58	343	iPn	35 19.90	1.1
BMR	2.79	37	ePd	35 40.00	18.2X
SRO	3.00	323	ePn	35 23.50	-1.2
			i	36 22.70	
SKO	3.50	175	ePn	35 32.00	0.2
PTJ	3.58	279	eP	35 32.60	-0.4
ZST	3.84	317	iPn	35 37.00	0.4
			i	35 44.50	
			i(Sn)	36 24.50	
VAY	4.29	164	ePn	35 42.40	-0.6
	S.D. = 1.0	on 7 of 8 obs.			

? JUL 15, 1991 19h 23m 44.06± 1.22s
15.097 N ±11.4km 120.191 E ±24.6km
DEPTH = 10.0km (geophysicist)
4.8mb (1 obs.)
LUZON, PHILIPPINE ISLANDS (249)

PGP	1.75	155	ePd	24 15.00	0.4
			iS	24 39.00	
SZP	2.45	6	ePc	24 22.00	-2.7X
CVP	3.03	31	iPd	24 33.00	0.1
PIP	3.24	7	eP	24 37.00	1.1
BJI	25.10	353	eP	29 10.50	0.2
LZH	25.50	328	eP	29 15.00	0.6
	2.0s	42.00nm		4.8mb	
Z	15s	0.24um		3.8MszX	
			sP	29 29.00	
YAK	47.35	6	eP	32 17.30	-2.4
	S.D. = 1.6	on 6 of 7 obs.			

? JUL 15, 1991 19h 53m 01.41± 2.51s
25.722 N ±12.2km 124.771 E ±35.2km
DEPTH = 133.7 ± 24.5 km
3.9mb (5 obs.)
NORTHEAST OF TAIWAN (245)

```
SSE      6.21 330 eP     54 32.00   0.0
     Z  20s      0.30um
WR2     46.34 167 iPd    01 15.40  -0.4
        0.7s      8.50nm          4.5mb
ASPA    49.89 169 iPc    01 43.50   0.3
        0.9s      4.90nm          4.3mb
INK     70.57  23 eP     04 04.00   0.7
MBC     71.04  13 eP     04 05.00  -1.1
HFS     77.80 331 eP     04 45.00   0.0
        0.5s      0.90nm          3.8mb
NB2     78.37 333 P      04 48.30   0.1
        0.7s      1.20nm          3.8mb
YKA     80.27  24 eP     04 58.60   0.3
        0.7s      1.10nm          3.7mb
      S.D  = 0.7  on   8 of   8 obs.
-----------------------------------
*  JUL  15, 1991  20h 14m 32.89± 1.15s
   27.353 S ± 6.8km   70.353 W ±14.8km
   DEPTH =  97.9 ± 14.8 km
 NEAR COAST OF NORTHERN CHILE     (122)
      Felt (IV) at Copiapo.

CYA      4.18 106 iPc    15 34.90  -0.7
RTLL     4.29 158 iPd    15 37.10  -0.1
RTBS     4.36 170 ePc    15 39.10   1.0
SLA      5.09  60 ePc    15 49.30   0.9
PEL      5.78 183 eP     15 57.00  -0.8
CNCB    10.72  12 eP     17 07.00   1.5
ARE     10.89 354 e(P)   17 30.50  23.0X
LPB     10.97  11 eP     17 09.00   0.3
ZOBO    11.22  11 P      17 10.00  -2.2
                S        18 24.00
SIV     14.21  39 P      17 45.60  -5.3X
PPD     18.09  77 (P)    18 39.00  -0.3
WR2    127.23 210 iPKPd 33 28.40   0.4
        0.7s      2.60nm
WRA    127.25 210 PKP    33 28.00  -0.1
        0.5s      1.10nm
      S.D. = 1.2  on  11 of  13 obs.
-----------------------------------
&  JUL  15, 1991  20h 15m 53.61s
   61.414 N          147.193 W
   DEPTH =  14.6km
 SOUTHERN ALASKA                (  2)
      <AEIC>. ML 2.7 (AEIC).

SCM      0.43 351 eP     16 02.61   0.2
VZW      0.47 139 iPc    16 02.74  -0.4
                  eS     16 10.13
VLZ      0.50 124 iPc    16 03.01  -0.6
                  S      16 10.13
GLI      0.54 175 iPc    16 03.69  -0.6
                  eS     16 12.03
KNK      0.61 270 iPc    16 05.02  -0.4
                  iS     16 13.69
KLU      0.62  82 iPc    16 05.00  -0.6
                  iS     16 13.82
TQA      0.85  35 ePd    16 09.30  -0.2
GHO      0.90 294 iPc    16 09.28  -1.2
                  eS     16 21.51
PLRM     0.95 282 iPc    16 09.90  -1.3
PMR      0.95 282 iPc    16 10.00  -1.2
       0.3s   244.78nm
TZL      1.05  52 ePd    16 12.51  -0.5
HIN      1.08 161 iPc    16 12.61  -0.8
KNIM     1.10 194 iPd    16 12.13  -1.7
                  eS     16 26.26
CVA      1.12 140 ePc    16 13.11  -1.0
                  S      16 27.02
PMS      1.15 263 iPc    16 13.44  -1.4
PWA      1.31 282 ePc    16 15.50  -1.8
SGAM     1.33 133 eP     16 16.12  -1.6
SDG      1.36  34 iPd    16 16.86  -1.2
                  eS     16 34.21
LTI      1.42 194 ePd    16 17.50  -1.3
MTU      1.45 189 ePd    16 18.31  -1.0
RAGM     1.61 129 ePc    16 21.29  -0.3
GLB      1.63  88 ePc    16 20.18  -1.7
                  eS     16 40.80
SUA      1.71 273 ePc    16 21.91  -1.2
                  eS     16 43.88
SEW      1.72 221 ePc    16 22.14  -1.0
                  eS     16 43.40
SLKM     1.73 240 ePc    16 21.95  -1.5
PAX      1.76  27 ePc    16 22.92  -0.9
CUT      1.76 306 iPc    16 22.67  -1.1
HMT      1.80 126 eP     16 23.10  -1.2
HUR      1.94 325 eP     16 25.55  -0.9
                  eS     16 50.57
CROM     2.08 107 eP     16 27.23  -1.3
NKA      2.08 253 eP     16 28.57   0.2
SKT      2.14 287 iPc    16 27.67  -1.7
                  S      16 54.79
RND      2.14 340 ePd    16 28.76  -0.6
TGL      2.22 105 eP     16 29.64  -0.9
CGLM     2.32 269 ePc    16 30.26  -1.7
WAX      2.33 113 eP     16 30.39  -1.7
SPU      2.36 266 iPc    16 30.63  -1.8
BALM     2.38  97 iPc    16 31.24  -1.5
NCG      2.39 272 ePc    16 31.14  -1.7
NNL      2.44 237 eP     16 32.58  -1.0
MCK      2.46 342 eP     16 32.95  -0.9
CKL      2.49 267 ePc    16 32.31  -2.1
TRF      2.50 326 ePc    16 33.61  -0.9
BGL      2.51 269 ePc    16 32.88  -1.7
RDT      2.68 254 ePc    16 34.50  -2.5
CNPM     2.76 228 eP     16 36.29  -1.8
KTH      2.76 323 eP     16 37.31  -0.8
DFR      2.80 255 eP     16 36.33  -2.4
REF      2.84 253 eP     16 36.95  -2.5
RDN      2.86 254 eP     16 36.93  -2.7
NCT      2.92 256 eP     16 38.00  -2.5
WRH      3.10 353 eP     16 41.50  -1.3
CCB      3.26 355 eP     16 43.66  -1.5
MDM      3.59 353 eP     16 48.18  -1.7
CDD      4.07 235 eP     16 53.95  -2.7
SVW      4.08 269 e(P)   16 55.00  -1.9
       0.8s     48.28nm
       56 obs. associated
-----------------------------------
   JUL  15, 1991  20h 24m 07.76± 0.77s
   58.249 N ± 6.3km  143.028 W ± 3.9km
   DEPTH =  33.0km  (normal)
   3.5mb (  1 obs.)
 GULF OF ALASKA                 ( 15)
      ML 3.7 (AEIC).

MID      2.09 306 ePc    24 41.56   0.5
                  eS     25 04.16
YKU      2.15  51 ePc    24 42.16   0.2
                  eS     25 05.50
HMT      2.19 344 iPd    24 43.18   0.6
WAX      2.21   2 iPd    24 43.21   0.3
RAGM     2.30 339 iPd    24 44.82   0.6
PNL      2.36  51 iPc    24 44.26  -0.8
                  S      25 11.26
CROM     2.52 359 iPd    24 47.50   0.1
TGL      2.52   2 iPd    24 47.50   0.2
SGAM     2.52 335 ePd    24 48.14   0.9
CVA      2.69 330 eP     24 49.62   0.0
                  S      25 20.81
HIN      2.79 322 eP     24 51.79   0.7
                  S      25 22.87
BALM     2.82   7 iPd    24 51.78   0.2
                  eS     25 23.54
CTGM     2.86  17 iPd    24 52.14   0.0
MTU      2.95 308 ePc    24 53.30  -0.1
LTI      3.07 308 iPc    24 54.79  -0.2
KNIM     3.20 313 ePc    24 56.54  -0.4
GLB      3.23 353 iPd    24 57.24  -0.1
                  eS     25 33.89
VZW      3.34 329 ePd    24 58.50  -0.4
VLZ      3.34 331 ePd    24 58.50  -0.4
GLI      3.35 324 ePd    24 58.66  -0.4
KLU      3.57 337 iPd    25 02.07  -0.1
SEW      3.79 302 eP     25 04.33  -0.9
TQA      4.17 339 ePd    25 11.23   0.5
KNK      4.19 321 eP     25 11.34   0.4
SIT      4.31 103 ePc    25 07.85  -4.7X
                  eS     25 53.10
SLKM     4.32 305 eP     25 12.34  -0.5
BRLK     4.34 294 eP     25 13.19   0.1
CNPM     4.45 290 ePc    25 14.76   0.1
SDG      4.47 345 ePc    25 15.17   0.2
PLRM     4.55 320 eP     25 16.78   0.8
PMR      4.55 320 e(P)   25 12.00  -4.0X
       0.2s     31.75nm
GHO      4.61 323 eP     25 18.05   1.1
NNL      4.62 296 ePc    25 18.33   1.3
XLV      4.67 289 ePc    25 17.66  -0.1
PAX      4.89 347 eP     25 20.60  -0.3
SYI      4.94 278 eP     25 21.93   0.4
KDC      5.06 268 eP     25 23.09  -0.2
RDT      5.33 300 ePc    25 26.60  -0.5
SPU      5.43 307 ePc    25 27.39  -1.2
REF      5.43 299 eP     25 28.26  -0.4
RED      5.44 298 ePc    25 27.41  -1.3
DFR      5.46 300 eP     25 28.77  -0.2
RDN      5.47 299 eP     25 28.48  -0.7
CGLM     5.47 308 eP     25 29.27   0.1
RDW      5.48 298 eP     25 29.00  -0.4
AUE      5.49 286 eP     25 30.17   0.8
CUT      5.50 322 eP     25 30.38   0.9
AUI      5.52 286 eP     25 30.36   0.7
AUH      5.53 286 eP     25 30.86   0.9
CKL      5.56 306 eP     25 29.23  -1.2
NCT      5.56 299 ePc    25 30.34  -0.1
NCG      5.59 308 ePc    25 29.84  -0.9
CDD      5.60 282 ePc    25 31.32   0.5
BGL      5.61 307 eP     25 30.44  -0.7
SKT      5.66 315 eP     25 31.72   0.0
RND      5.90 334 eP     25 33.96  -1.3
PDB      5.97 290 eP     25 36.34   0.2
TRF      6.31 329 eP     25 40.74  -0.3
SVW      6.99 300 e(P)   25 51.50   1.1
       0.3s     12.84nm          5.3mb X
YKA     14.61  61 eP     27 39.90   6.2X
        0.9s      1.50nm          3.5mb
      S.D. = 0.6  on  57 of  60 obs.
-----------------------------------
?  JUL  15, 1991  21h 08m 08.23± 2.28s
   26.835 S ±20.7km  178.488 E ±24.4km
   DEPTH = 636.1 ± 24.5 km
   4.8mb (  6 obs.)
 SOUTH OF FIJI ISLANDS          (171)

NOZ     11.76 182 eP     10 44.60   0.1
DZM     11.95 291 iPc    10 46.60   0.1
MNG     13.97 190 eP     11 03.90  -1.9
KIW     14.30 191 eP     11 08.20  -0.7
DIW     14.43 194 eP     11 10.80   0.6
CAW     14.52 190 eP     11 11.10   0.1
MRW     14.70 191 eP     11 13.00   0.4
TCW     14.76 193 eP     11 13.70   0.4
THZ     15.58 196 eP     11 22.20   1.0
KHZ     16.06 193 eP     11 25.30  -0.4
LTZ     16.70 196 Pc     11 31.90   0.2
RMQ     26.55 264 iPc    13 02.50   2.3
        0.4s     15.00nm          5.0mb
CTAO    30.26 276 iP     13 32.00  -0.1
        0.4s     14.44nm          5.0mb
STK     32.44 252 iPd    13 50.50   0.2
        0.4s      3.60nm          4.4mb
ASPA    40.30 264 iPd    14 54.00  -0.5
        0.5s     15.80nm          4.7mb
WR2     40.92 270 iPc    14 58.60  -0.8
        0.6s     29.80nm          4.9mb
WRA     40.94 270 P      14 58.00  -1.6
        0.8s     24.40nm          4.7mb
NB2    144.73 349 PKP    26 35.40   0.5
        0.5s      2.10nm
      S.D. = 1.0  on  18 of  18 obs.
-----------------------------------
*  JUL  15, 1991  21h 16m 56.66± 0.87s
   10.061 N ±12.6km  126.351 E ±15.6km
   DEPTH =  33.0km  (normal)
   4.7mb (  6 obs.)
 PHILIPPINE ISLANDS REGION      (248)

PLP      1.74 309 iPd    17 25.20   0.2
                  iS     17 35.80
PPR      7.51 269 ePd    18 48.00   1.3
SSE     21.47 348 Pc     21 44.50   0.0
        0.8s     20.00nm          4.6mb
WR2     30.85 165 iPc    23 12.20   0.0
        0.7s      3.90nm          4.3mb
ASPA    34.32 168 eP     23 41.60  -0.9
        0.6s      6.00nm          4.7mb
WARB    36.03 180 eP     23 58.00   1.1
GBA     47.95 279 Pd     25 31.70  -2.7
        0.9s      6.30nm          4.6mb
CSY     77.03 186 iPd    28 47.70   0.1
        0.7s      8.80nm          4.9mb
MBC     85.90  13 eP     29 35.00   0.9
        1.0s      5.00nm          4.7mb
      S.D. = 1.4  on   9 of   9 obs.
-----------------------------------
?  JUL  15, 1991  21h 24m 19.93±10.96s
   43.870 N ±51.7km   13.020 E ±69.2km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                  (381)
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15d 21h

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ARV      0.38 189 Pc     24 26.80  -0.9
                  eSg    24 34.10
RSM      0.41 278 P      24 28.30  -0.1
                  eSg    24 34.60
CRE      0.81 253 P      24 35.60  -0.1
                  eSg    24 49.40
ASS      0.84 198 P      24 37.20   1.0
                  eSg    24 50.50
SFI      0.85 274 P      24 36.20   0.0
                  eSn    24 49.10
     S.D. = 0.9   on   5 of   5 obs.
-----------------------------------------
?  JUL  15, 1991  22h 42m 29.17± 0.84s
   19.004 N ±15.8km  119.600 E ±19.2km
   DEPTH =  33.0km  (normal)
   4.2mb (  4 abs.)
 PHILIPPINE ISLANDS REGION          (248)

PIP      1.18 125 iPc    42 48.60  -0.8
                  iS     43 02.50
CVP      2.47 121 ePd    43 09.00   1.0
                  eS     43 40.50
BJI     21.17 353 eP     47 13.50  -0.4
         1.0s      7.00nm          4.0mb
LZH     21.96 324 eP     47 22.50   0.4
         2.0s     25.00nm          4.3mb
WRA     41.32 159 P      50 13.00  -0.5
         1.1s      4.50nm          4.1mb
ASPA    44.65 161 eP     50 41.00   0.3
         0.9s      5.40nm          4.4mb
     S.D. = 0.9   on   6 of   6 obs.
-----------------------------------------
&  JUL  15, 1991  23h 12m 28.99s
   60.016 N          149.229 W
   DEPTH =   9.8km
 KENAI PENINSULA, ALASKA            ( 14)
      <AEIC>. ML 3.1 (AEIC), 2.9
      (PMR). Felt (III) at Seward.

SEW      0.14 309 iP     12 32.38   0.1
                  eS     12 35.33
LTI      0.69  87 eP     12 41.17  -1.5
                  eS     12 52.72
SLKM     0.70 315 iP     12 41.51  -1.3
MTU      0.79  91 eP     12 44.40   0.0
KNIM     0.82  65 iP     12 43.61  -1.2
NNL      1.04 272 iP     12 47.49  -1.1
CNPM     1.13 245 eP     12 48.53  -1.6
                  eS     13 04.46
NKA      1.24 307 eP     12 52.05   0.1
PMS      1.24 353 eP     12 51.27  -0.9
HOM      1.27 255 eP     12 50.69  -1.9
                  eS     13 09.24
GLI      1.37  50 eP     12 52.66  -1.4
                  eS     13 11.05
XLV      1.38 247 eP     12 53.00  -1.3
                  eS     13 10.99
KNK      1.45  15 iP     12 54.83  -0.5
MID      1.58 111 e(P)   12 54.80  -2.3
PLRM     1.58   2 eP     12 56.76  -0.4
PMR      1.58   2 iPc    12 57.00  -0.1
        0.4s    186.21nm
SUA      1.63 334 eP     12 56.98  -1.0
PWA      1.67 349 eP     12 57.54  -0.9
RDT      1.68 291 eP     12 57.00  -1.6
VZW      1.69  50 eP     12 56.96  -1.8
GHO      1.77   5 eP     12 59.72  -0.2
REF      1.80 287 eP     12 58.85  -1.6
                  S      13 22.08
RED      1.81 284 eP     12 59.15  -1.5
                  S      13 21.58
DFR      1.82 290 eP     12 59.25  -1.4
VLZ      1.82  51 eP     12 59.65  -0.8
SPU      1.82 311 iP     12 59.35  -1.3
RDN      1.83 287 eP     12 59.05  -1.8
                  eS     13 22.55
RDW      1.85 286 eP     13 00.07  -1.1
CGLM     1.88 315 eP     13 00.09  -1.5
NCT      1.92 288 eP     13 00.52  -1.7
                  eS     13 25.19
CKL      1.94 309 eP     13 01.21  -1.2
BGL      2.00 310 eP     13 02.53  -0.8
NCG      2.00 315 eP     13 02.57  -0.8
KLU      2.20  46 eP     13 05.36  -0.8
AUE      2.20 254 eP     13 05.57  -0.6
AUH      2.23 255 eP     13 06.22  -0.5
AUI      2.24 254 eP     13 04.42  -2.2
                  S      13 34.07
SKT      2.27 331 eP     13 06.51  -0.6
CUT      2.45 349 eP     13 07.31  -2.3
PDB      2.51 267 eP     13 11.62   1.1
TOA      2.57  34 eP     13 11.27  -0.2
GLB      3.02  59 eP     13 16.22  -1.6
SDG      3.08  34 eP     13 18.41  -0.3
SVW      3.34 292 e(P)   13 23.00   0.6
        0.2s     17.46nm
RND      3.41   3 eP     13 22.21  -1.1
TRF      3.48 352 eP     13 24.36  -0.1
BALM     3.55  70 e(P)   13 26.00   0.6
        47 abs. associated
-----------------------------------------
   JUL  16, 1991  00h 56m 18.09± 0.54s
   49.154 N ± 5.1km    6.849 E ± 7.5km
   DEPTH =  10.0km  (geophysicist)
 GERMANY                            (543)
      ML 2.6 (STR). MD 2.2 (UCC).

GWF      0.54 109 Pg     56 28.25  -0.7
WLF      0.68 319 iPd    56 31.59   0.0
                  iS     56 41.06
CDF      0.79 159 Pg     56 32.73  -0.9
ECH      0.96 168 Pg     56 36.66   0.3
VITF     1.10 212 Pg     56 38.59  -0.1
                  Sg     56 54.18
MOF      1.32 172 Pg     56 42.86   0.4
                  Sg     57 01.23
BSF      1.32 182 Pg     56 43.01   0.4
                  Sg     57 01.53
FEL      1.50 148 Pg     56 45.92   0.8
MEM      1.56 340 iPd    56 45.23  -0.6
                  i      56 47.10
ENN      1.72 340 ePn    56 50.00   1.8
        0.5s     14.00nm
                  eSn    57 10.50
DOU      1.74 304 P      56 47.00  -1.5
LOMF     1.80 180 Pg     56 52.20   2.6X
SNF      2.15 310 iPd    56 54.64   0.3
                  i      56 58.20
GRF      2.91  78 ePg    57 13.20   8.0X
                  eSg    57 57.00
     S.D. = 1.0   on  12 of  14 obs.
-----------------------------------------
*  JUL  16, 1991  01h 29m 58.28± 1.24s
    8.881 N ± 7.8km  122.666 E ± 9.4km
   DEPTH =  57.4 ± 13.3 km
   4.6mb (  6 obs.)
 MINDANAO, PHILIPPINE ISLANDS       (259)

CGP      2.05 102 iPd    30 31.00   0.1
                  iS     30 56.00
PLP      3.22  45 iPd    30 47.00  -0.5
                  eS     31 08.20
PGP      4.89 340 ePd    31 12.00   0.9
                  eS     32 05.00
KKM      6.99 247 ePc    31 39.30  -1.2
                  e      32 41.50
KGM     20.42 252 ePc    34 34.80   1.5
LOE     22.06 295 eP     34 51.00   1.1
SSE     22.15 357 Pc     34 51.00   0.4
         1.4s     50.00nm          4.8mb
                  eS     38 50.00
WHN     22.91 341 eP     35 01.00   2.9
NJ2     23.33 352 eP     35 03.00   0.9
CHTO    25.03 296 (P)    35 17.20  -1.5
XAN     28.05 335 eP     35 44.50  -1.8
WR2     30.88 158 eP     36 11.40  -0.2
         0.6s      7.40nm          4.6mb
BJI     31.56 350 eP     36 15.50  -1.9
ASPA    34.16 161 eP     36 40.00  -0.2
         0.5s     10.10nm          5.0mb
WARB    35.07 174 eP     36 48.00   0.1
STK     44.39 157 eP     38 05.10   0.1
         0.8s      3.60nm          4.2mb
ADE     46.17 162 eP     38 20.00   0.8
YAK     53.29   4 eP     39 11.20  -2.0
INK     86.87  21 eP     42 37.00  -0.6
MBC     87.82  12 eP     42 44.50   2.4
         1.0s      5.00nm          4.7mb
NB2     92.40 333 P      43 02.50  -1.3
         0.8s      0.90nm          4.3mb
     S.D. = 1.5   on  21 of  21 obs.
-----------------------------------------
%  JUL  16, 1991  01h 57m 03.46± 0.54s
   39.702 N ± 5.3km   27.796 E ± 4.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)
      MD 3.2 (ISK).

EDC      0.65   5 ePg    57 16.40   0.0
                  eSg    57 25.80
DST      0.65  98 iPg    57 16.30  -0.2
                  iSg    57 24.80
KGT      0.84 333 ePg    57 19.60   0.0
EZN      1.14 277 iPg    57 24.80   0.0
                  eSg    57 39.80
IZM      1.37 198 ePn    57 28.60   0.0
IZI      1.44  63 iPn    57 30.10   0.5
YLV      1.49  54 ePn    57 30.00  -0.3
CTT      1.52  18 iPn    57 30.60  -0.1
ISK      1.67  35 ePn    57 33.00   0.2
HRT      1.82  51 ePn    57 35.00  -0.1
     S.D. = 0.2   on  10 of  10 obs.
-----------------------------------------
*  JUL  16, 1991  03h 30m 03.57± 1.19s
   34.875 N ±27.6km   70.732 E ±25.3km
   DEPTH =  33.0km  (normal)
   4.3mb (  2 obs.)
 AFGHANISTAN                        (709)

NDI      8.28 136 ePn    32 05.50   1.2
                  eSn    33 33.00
GKN     13.70 116 P      33 18.00   0.1
DMN     14.26 117 P      33 24.90  -0.5
KKN     14.29 116 P      33 24.78  -1.0
PKI     14.51 116 P      33 27.74  -1.0
GUN     14.67 114 P      33 31.60   0.7
HFS     44.22 323 eP     38 10.30  -0.7
         0.4s      1.70nm          4.2mb
NB2     45.55 324 P      38 20.90  -0.8
         0.5s      2.60nm          4.4mb
MBC     68.97   3 eP     41 08.00   1.0
INK     75.54   9 eP     41 47.00   1.0
     S.D. = 1.0   on  10 of  10 obs.
-----------------------------------------
%  JUL  16, 1991  05h 00m 16.71± 2.33s
   45.048 N ±16.5km    3.085 E ±16.9km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                             (538)
      ML 2.7 (LDG).

CAF      0.73 261 Pg     00 30.00  -1.1
                  Sg     00 40.40
RJF      1.14 284 Pn     00 37.10  -0.9
                  Pg     00 38.00
                  Sg     00 50.20
MAF      1.23 343 Pn     00 39.50  -0.1
                  Sg     00 54.00
TCF      1.38 334 Pg     00 42.40   0.3
                  Sg     00 58.40
LPO      1.40 256 Pg     00 42.80   0.6
                  Sg     00 59.20
BGF      1.52 354 Pn     00 43.00  -0.9
                  Pg     00 44.80
                  Sg     01 02.80
LSF      1.62 318 Pg     00 46.00   0.6
                  Sg     01 04.40
LFF      1.67 267 Pg     00 47.20   1.1
                  Sg     01 07.20
SMF      1.68  18 Pn     00 45.00  -1.3
                  Pg     00 48.00
                  Sg     01 09.00
AVF      1.75   6 Pg     00 49.00   1.7
                  Sg     01 10.80
LBF      2.03  17 Pg     00 55.00   3.6X
                  Sg     01 19.80
SSF      2.04   8 Pg     00 55.20   3.8X
                  Sg     01 19.20
LOR      2.29  13 Pg     00 59.40   4.3X
                  Sg     01 27.20
EPF      2.83 225 Pg     01 10.50   7.7X
                  Sg     01 45.80
     S.D. = 1.2   on  10 of  14 obs.
-----------------------------------------
%  JUL  16, 1991  06h 01m 10.17± 1.66s
   38.615 N ±10.3km   26.708 E ±16.7km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                         (365)
      MD 3.3 (ISK).

IZM      0.49 116 ePg    01 20.70   0.6
                  eSg    01 28.70
```

```
EZN      1.25 346 iPn   01 33.80   0.5
DST      1.79  56 ePn   01 41.00  -0.4
KGT      1.89  14 ePn   01 42.20  -0.6
YER      1.93 139 ePn   01 43.00  -0.5
EDC      1.95  27 ePn   01 43.80   0.2
     S.D. = 0.7  on   6 of   6 obs.
-----------------------------------
?  JUL  16, 1991  07h 28m 42.65± 1.28s
    0.644 N ±12.6km   29.887 E ±17.5km
   DEPTH =  33.0km  (normal)
   4.1mb (  1 obs.)
 ZAIRE REPUBLIC                   (567)
      mbLg 4.4 (BUL).

NAI      7.17 105 ePn   30 28.00  -0.2
                  Pb    30 41.00
                  Pg    30 53.50
                  Sn    31 46.00
                  Sg    32 22.50
                  Lg    32 35.00
PTZ     14.87 175 iPn   32 12.00  -0.4
                  iSn   34 49.30
                  iSg   36 13.00
LSZ     15.91 186 iPnc  32 25.00  -0.9
                  iSn   35 48.00
                  iSg   37 08.00
MTD     17.39 175 iP    32 46.20   1.5
                  iSn   35 46.00
                  iLg   37 38.00
NB2     61.91 350 P     39 01.30   0.1
      0.8s      1.30nm          4.1mb
     S.D. = 1.3  on   5 of   5 obs.
-----------------------------------
%  JUL  16, 1991  08h 53m 21.56± 1.49s
   40.637 N ±12.7km   23.011 E ± 6.6km
   DEPTH =   5.0km  (geophysicist)
 GREECE                           (364)

THE      0.04 262 iPc   53 22.93   0.1
                  eS    53 23.66
SOH      0.32  55 ePc   53 28.14   0.1
                  eS    53 33.42
KNT      0.53 351 eP    53 32.40   0.2
                  eS    53 39.90
GRG      0.56 305 iPd   53 32.62  -0.2
                  eS    53 40.78
SRS      0.65  42 iPd   53 34.38  -0.2
                  eS    53 43.74
     S.D. = 0.3  on   5 of   5 obs.
-----------------------------------
   JUL  16, 1991  09h 07m 35.43± 0.81s
   37.920 N ± 7.6km   21.592 E ± 5.8km
   DEPTH =  10.0km  (geophysicist)
   3.7mb (  2 obs.)
 SOUTHERN GREECE                  (368)
      ML 3.5 (ATH).

VLS      0.83 288 eP    07 51.50   0.0
AGG      1.24  28 ePd   07 57.52  -1.0
                  eS    08 15.88
VLI      1.61 138 eP    08 04.00   0.1
ATH      1.68  88 ePn   08 06.00   1.0
IGT      1.89 329 iPd   08 09.84   1.8
KEK      2.27 323 eP    08 15.00   1.4
LIT      2.29  18 ePc   08 14.28   0.5
PAIG     2.58  38 ePd   08 18.66   0.7
OUR      3.04  37 ePc   08 23.72  -0.7
GRG      3.10  11 ePd   08 25.96   0.7
SOH      3.20  25 ePd   08 26.12  -0.7
KNT      3.39  17 ePd   08 29.98   0.5
VAY      3.48  12 ePn   08 32.00   1.3
SRS      3.55  25 ePc   08 31.24  -0.4
MMB      4.02  24 iPc   08 38.00  -0.3
SKO      4.05 358 ePn   08 38.00  -0.7
                  e     08 43.20
KKB      4.11  16 iP    08 40.00   0.4
RZN      4.47  32 iP    08 45.00   0.1
CZI      4.47 289 P     08 44.30  -0.4
HFS     22.80 350 eP    12 36.60  -2.5
      0.4s      1.40nm          3.8mb
    Z  16s     0.03um          2.8MszX
                  LR    19 41.00
NB2     24.04 348 P     12 49.60  -1.7
      0.9s      1.70nm          3.6mb
     S.D. = 1.1  on  21 of  21 obs.
-----------------------------------
*  JUL  16, 1991  09h 26m 31.75± 0.74s
   14.490 N ±12.2km   93.998 W ± 7.7km
   DEPTH =  29.9km  (  2 depth phases)
   4.6mb (  9 obs.)  3.3Msz (  1 obs.)
 NEAR COAST OF CHIAPAS, MEXICO    ( 69)
      Felt at Mexico City.

TPX      1.73  76 iP    27 01.50   1.3
                  iS    27 22.00
PBJ      2.36 325 iP    27 06.50  -2.8
SCX      2.59  30 iP    27 14 50   2.0
                  iS    27 45.50
OXX      3.68 315 iP    27 28.50   0.3
                  iS    28 11.00
IISM     5.52 325 iP    27 55.00   0.9
LVVM     5.72 336 iP    27 55.50  -1.4
IIT      6.11 318 iP    28 04.00   1.3
                  iS    29 13.00
ACX      6.12 294 (P)   28 02.50  -0.1
PPM      6.35 316 iP    28 07.00   0.7
                  iS    29 18.50
IIA      6.43 317 eP    28 08.00   1.1
UNM      6.91 315 (P)   28 16.00   2.0
TAC      6.97 315 (P)   28 41.00  26.2X
MRX      8.61 308 iP    28 38.00   0.6
MEO     20.63 349 iPd   31 09.00  -2.4
TUL     21.39 356 eP    31 15.40  -3.7X
      0.8s     13.30nm          4.4mb
    Z  20s      0.13um          3.3Msz
                  e(S)  34 56.00
                  LR    36 55.00
ANMO    23.26 333 eP    31 38.50   0.7
      1.0s      6.25nm          4.1mb
GOL     27.03 340 iPd   32 12.50  -1.1
      0.9s     11.36nm          4.5mb
PV09    27.40 334 P     32 12.00  -5.0X
BAR     27.46 315 eP    32 16.00  -1.3
PLM     27.99 316 P     32 23.00   0.8
                  pP    32 31.40  30km
PEC     28.51 317 e(P)  32 28.50   1.7
GSC     29.15 319 eP    32 41.00   8.4X
SBB     29.43 317 eP    32 34.00  -1.1
CLC     29.97 319 eP    32 40.00   0.1
ISA     30.44 318 eP    32 44.00  -0.1
BW06    31.21 338 e(P)  32 51.50   0.5
TNP     31.22 323 P     32 51.20   0.1
                  pP    32 59.90  30km
FRI     32.04 319 eP    32 57.60  -0.4
PRI     32.15 317 eP    33 00.50   1.3
CMB     33.10 320 eP    33 07.40   0.1
LRM     34.89 337 eP    33 22.90   0.0
SES     38.40 342 eP    33 52.00  -0.2
ZCBO    39.84 139 P     34 09.00   3.8X
    Z  24s      0.13um          3.7MszX
                  LR    46 52.00
PNT     40.58 334 eP    34 10.00  -0.2
      0.7s      5.00nm          4.4mb
SIV     44.45 132 P     34 42.70   0.5
YKA     50.12 348 eP    35 24.20  -1.8
      0.7s      6.10nm          4.7mb
SOB1    57.68 111 (P)   36 21.00  -1.3
INK     59.43 344 ePc   36 31.60  -2.1
MBC     63.20 353 ePc   36 58.00  -1.0
      1.0s     12.00nm          5.0mb
EKA     78.70  36 Pc    38 32.00  -0.6
      0.8s      5.50nm          4.6mb
NB2     84.64  28 P     39 04.40   0.8
      0.9s      8.50nm          4.9mb
APO     86.06  28 eP    39 11.50   0.8
      0.7s      7.50nm          5.0mb
LKO     86.13  81 P     39 12.22   0.3
WRA    133.63 256 PKP   46 00.00  12.0X
      1.0s      1.10nm
     S.D. = 1.2  on  38 of  44 obs.
-----------------------------------
?  JUL  16, 1991  09h 45m 30.87±12.60s
   42.409 N ±82.7km  125.477 W ±57.2km
   DEPTH =  10.0km  (geophysicist)
 OFF COAST OF OREGON              ( 30)

RVW      4.22  27 P     46 37.44   0.8
LVP      4.27  30 P     46 37.44   0.0
MTMW     4.31  32 P     46 37.44  -0.6
                  S     47 32.45
BMW      4.37  21 P     46 38.65  -0.2
                  S     47 33.21
FL2      4.40  30 P     46 39.20  -0.1
JLK      4.43  31 P     46 39.38  -0.4
SHW      4.44  30 P     46 40.73   0.8
HSR      4.44  31 P     46 39.86  -0.1
CDFW     4.45  32 P     46 39.49  -0.5
STD      4.48  30 P     46 40.52   0.1
ERK      4.50  29 P     46 40.32  -0.4
VTHM     4.51  50 P     46 40.81   0.0
SOSW     4.51  31 P     46 40.64  -0.3
CZM      4.55  27 P     46 41.77   0.4
TDL      4.58  30 P     46 41.84  -0.1
                  S     47 38.83
VGB      4.60  46 P     46 42.57   0.5
                  S     47 43.01
ASR      4.67  35 P     46 42.55  -0.6
KOSW     4.68  29 P     46 43.46   0.1
LMW      4.83  27 P     46 45.76   0.4
CPW      4.86  19 P     46 45.74   0.0
                  S     47 45.26
GL2      4.88  42 P     46 46.67   0.6
GLK      4.99  32 P     46 47.36  -0.3
LON      5.07  30 P     46 48.31  -0.4
JBO      5.09  51 P     46 48.56  -0.4
WPW      5.13  32 P     46 48.96  -0.6
GHW      5.16  25 P     46 50.52   0.5
FMW      5.27  30 P     46 51.55  -0.2
NAC      5.45  36 P     46 54.72   0.6
GSM      5.46  27 P     46 54.39   0.0
HDW      5.51  17 P     46 55.18   0.1
RMW      5.68  26 P     46 58.11   0.7
TBM      5.89  34 P     47 00.72   0.4
JCW      6.30  22 P     47 05.73  -0.4
RPW      6.65  23 P     47 10.57  -0.5
     S.D. = 0.4  on  34 of  34 obs.
-----------------------------------
?  JUL  16, 1991  09h 49m 50.93± 0.96s
   39.147 N ± 7.9km   27.637 E ± 9.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      MD 2.9 (ISK).

IZM      0.80 201 ePg   50 06.50  -0.1
                  eSg   50 18.70
DST      0.89  59 iPn   50 08.20   0.1
EZN      1.22 304 ePn   50 13.80   0.2
KGT      1.33 349 ePn   50 15.20  -0.2
     S.D. = 0.3  on   4 of   4 obs.
-----------------------------------
%  JUL  16, 1991  09h 56m 51.44± 0.67s
   44.386 N ± 4.3km   8.330 E ± 5.4km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                   (545)
      ML 2.5 (GEN).

CKI      0.05 317 Pc    56 52.90  -0.7
                  eSg   56 53.60
FIN      0.20 206 P     56 55.92   0.1
                  S     56 59.61
PCP      0.22  45 P     56 56.13  -0.1
                  S     56 59.82
ROB      0.34 255 P     56 58.28  -0.3
                  S     57 03.31
IMI      0.57 214 P     57 03.00  -0.1
                  S     57 11.51
ENR      0.67 257 P     57 04.64  -0.2
                  S     57 13.08
STV      0.74 259 P     57 06.48   0.5
                  S     57 15.41
BHB      0.89 301 P     57 08.59   0.1
                  S     57 20.13
PZZ      0.89 278 P     57 08.64   0.1
                  S     57 20.55
RSP      1.08 315 P     57 11.54  -0.3
                  S     57 26.54
RRL      1.23 296 P     57 14.79   0.4
                  S     57 29.36
ORX      1.27 349 P     57 15.63   0.5
                  S     57 30.77
     S.D. = 0.4  on  12 of  12 obs.
-----------------------------------
%  JUL  16, 1991  10h 26m 45.26± 0.82s
   44.336 N ± 7.7km   8.224 E ± 6.8km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                   (545)
      ML 1.7 (GEN).

FIN      0.13 185 P     26 48.53   0.1
                  S     26 51.19
ROB      0.26 261 P     26 51.50   0.8
```

16d 10h

```
                    S      26 55.71
PCP      0.31  48 P      26 51.72   0.0
                    S      26 56.63
IMI      0.49 210 P      26 55.06  -0.2
STV      0.65 262 P      26 57.60  -0.7
                    S      27 07.81
PZZ      0.82 282 P      27 01.24   0.0
     S.D. = 0.6  on   6 of   6 obs.
-----------------------------------------
%  JUL  16, 1991  11h 18m 22.83± 0.92s
   37.724 N ± 7.9km   15.007 E ± 8.2km
   DEPTH =  10.0km  (geophysicist)
 SICILY                              (398)

MNO      0.32 310 P      18 29.80   0.2
                    eSg    18 34.00
ATN      0.57  39 P      18 35.20   0.9
                    eSg    18 43.50
MEU      0.62 186 P      18 35.50   0.0
                    eSg    18 45.00
GIB      0.82 289 P      18 38.70  -0.1
                    eSg    18 49.40
CZI      1.73  30 P      18 52.10  -1.0
                    eSg    19 14.10
     S.D. = 1.0  on   5 of   5 obs.
-----------------------------------------
?  JUL  16, 1991  11h 42m 27.06± 5.17s
   47.914 N ±15.2km    2.715 W ±41.7km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                              (538)
      ML 3.1 (LDG).

LPF      1.13  83 Pn     42 48.20   0.0
                    Pg     42 49.40
                    Sg     43 04.60
GRR      1.33  68 Pn     42 51.80   0.2
                    Pg     42 54.00
                    Sg     43 12.80
FLN      1.71  60 Pn     42 57.20   0.1
                    Pg     43 01.00
                    Sg     43 25.00
LDF      1.86  68 Pn     42 59.00  -0.2
                    Pg     43 03.20
                    Sg     43 28.40
MFF      2.19 126 Pg     43 04.00   0.0
                    Sg     43 28.60
TCF      3.74 114 Pn     43 21.60  -4.4X
                    Sg     44 18.80
RJF      3.91 130 Pg     43 34.60   6.1X
                    Sg     44 23.00
BGF      4.02 108 Pg     43 39.60   9.6X
                    Sg     44 30.00
LPO      4.21 139 Pg     43 40.00   7.3X
                    Sg     44 31.60
     S.D. = 0.2  on   5 of   9 obs.
-----------------------------------------
%  JUL  16, 1991  11h 51m 02.86± 0.98s
   41.460 N ±11.3km    0.744 W ± 7.1km
   DEPTH =  10.0km  (geophysicist)
 SPAIN                               (377)
      mbLg 2.9 (MDD).

EROQ     1.08 126 ePg    51 22.75  -0.4
                    eSg    51 36.70
EBR      1.13 124 eP     51 24.00   0.0
                    eS     51 40.00
ETOR     1.18 238 ePn    51 24.93   0.0
                    eSn    51 42.60
ECRI     1.75 312 ePn    51 33.89   0.4
                    eSn    51 56.30
ECHE     1.87 185 ePn    51 36.14   0.8
                    eSn    51 59.70
GUD      2.70 254 ePn    51 46.43  -0.9
                    eSn    52 20.10
     S.D. = 0.8  on   6 of   6 obs.
-----------------------------------------
?  JUL  16, 1991  12h 03m 35.15± 8.16s
   40.027 N ±17.8km   19.393 E ±70.1km
   DEPTH =  10.0km  (geophysicist)
 ALBANIA                             (391)

IGT      0.88 124 ePd    03 51.36  -0.6
                    eS     04 03.60
LIT      2.38  87 ePc    04 13.60  -1.2
                    eS     04 44.24
GRG      2.48  67 ePd    04 15.84  -0.4
AGG      2.48 113 ePc    04 17.60   1.3
                    eS     04 48.84
SKO      2.49  38 ePn    04 15.50  -0.8
VAY      2.74  61 ePn    04 21.40   1.4
TLB      7.86  52 ePd    05 32.50   0.3
     S.D. = 1.3  on   7 of   7 obs.
-----------------------------------------
?  JUL  16, 1991  12h 10m 31.27± 0.93s
   38.014 N ±19.1km   14.937 E ± 8.4km
   DEPTH =  10.0km  (geophysicist)
 SICILY                              (398)

MNO      0.21 247 P      10 36.20   0.3
                    eSg    10 39.40
GIB      0.72 268 P      10 45.20  -0.3
                    eSg    10 55.40
SOI      0.88  86 P      10 48.10  -0.1
                    eSg    11 02.90
CZI      1.52  38 P      10 58.70   0.2
     S.D. = 0.5  on   4 of   4 obs.
-----------------------------------------
?  JUL  16, 1991  12h 16m 44.50± 1.08s
   15.058 N ±11.1km  120.079 E ±22.0km
   DEPTH =  10.0km  (geophysicist)
   4.8mb (  1 obs.)
 LUZON, PHILIPPINE ISLANDS           (249)

PGP      1.76 151 ePc    17 16.00   0.7
                    eS     17 30.00
SZP      2.51   8 iPd    17 32.00   6.1X
CVP      3.12  32 eP     17 35.00   0.4
         1.0s    21.50nm
PIP      3.29   9 ePd    17 41.00   3.9X
BJI     25.12 353 eP     22 10.00  -1.0
LZH     25.48 328 eP     22 15.50   0.9
         2.0s    39.00nm          4.8mb
      Z  18s     0.24um          3.8Msz
                    pP     22 32.50  74kmX
CTAO    43.38 143 ePKP    24 48.00  -1.0
     S.D. = 1.3  on   5 of   7 obs.
-----------------------------------------
%  JUL  16, 1991  12h 50m 37.16± 1.86s
   38.244 N ± 8.4km    1.994 W ±21.4km
   DEPTH =  10.0km  (geophysicist)
 SPAIN                               (377)
      mbLg 2.5 (MDD).

EVIA     0.56 315 iP     50 48.70   0.1
                    eS     50 58.60
EHUE     0.64 228 iP     50 49.30  -0.7
                    eS     50 59.00
ECOG     1.58 233 eP     51 05.50   0.2
AFC      1.58 232 eP     51 05.60   0.2
EGUA     1.88 222 eP     51 10.00   0.3
ETOR     2.57 359 eP     51 19.50  -0.1
     S.D. = 0.5  on   6 of   6 obs.
-----------------------------------------
%  JUL  16, 1991  13h 20m 29.73± 0.77s
   37.755 N ± 7.3km   14.960 E ± 6.3km
   DEPTH =  10.0km  (geophysicist)
 SICILY                              (398)

MNO      0.27 310 P      20 36.10   0.5
                    eSg    20 40.00
ATN      0.57  44 P      20 41.60   0.4
                    eSg    20 51.50
MEU      0.65 182 P      20 42.70  -0.1
                    eSg    20 52.00
GIB      0.77 288 P      20 44.80  -0.1
                    eSg    20 56.10
SOI      0.92  70 P      20 47.90   0.6
                    eSg    21 02.60
CZI      1.73  32 P      20 58.40  -1.5
                    eSg    21 20.60
TDS      2.19  29 P      21 06.10  -0.5
ROI      2.21  34 P      21 08.50   1.5
CSI      2.27  27 P      21 07.20  -0.7
     S.D. = 1.0  on   9 of   9 obs.
-----------------------------------------
%  JUL  16, 1991  14h 12m 32.90± 0.98s
   41.139 N ±18.5km   28.454 E ±10.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 2.9 (ISK).

CTT      0.02 294 iPg    12 34.80   0.0
ISK      0.46  99 iPg    12 42.20  -0.1
YLV      0.90 129 ePn    12 49.70  -0.5
HRT      0.97 109 ePn    12 51.70   0.3
IZI      1.11 136 ePn    12 54.20   0.3
     S.D. = 0.5  on   5 of   5 obs.
-----------------------------------------
%  JUL  16, 1991  14h 15m 49.83± 0.65s
   44.402 N ± 5.3km    7.393 E ± 5.6km
   DEPTH =   5.0km  (geophysicist)
 NORTHERN ITALY                      (545)
      ML 1.9 (GEN).

STV      0.17 197 P      15 52.99  -0.3
                    S      15 55.25
ENR      0.18 174 P      15 53.30  -0.2
                    S      15 55.76
PZZ      0.23 296 P      15 54.84   0.2
                    S      15 58.63
ROB      0.36 107 P      15 57.50   0.4
                    S      16 02.53
BHB      0.45 348 P      15 58.73  -0.1
                    S      16 04.58
IMI      0.61 144 P      16 02.73   0.7
                    S      16 10.29
FIN      0.62 108 P      16 01.40  -0.8
                    S      16 10.01
     S.D. = 0.6  on   7 of   7 obs.
-----------------------------------------
%  JUL  16, 1991  14h 33m 28.14± 0.48s
   44.391 N ± 4.4km    7.413 E ± 4.0km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                      (545)
      ML 1.8 (GEN).

STV      0.16 203 P      33 31.93   0.0
                    S      33 34.19
ENR      0.16 178 P      33 31.83  -0.1
                    S      33 34.39
PZZ      0.25 297 P      33 33.47  -0.1
                    S      33 37.37
ROB      0.34 106 P      33 35.52   0.3
                    S      33 41.26
BHB      0.46 347 P      33 37.47  -0.1
                    S      33 43.73
IMI      0.59 144 P      33 40.14   0.0
                    S      33 48.16
FIN      0.60 107 P      33 39.83  -0.4
                    S      33 48.44
PCP      0.82  79 P      33 44.34   0.2
CDR      1.39 239 ePgc   33 53.70   0.2
                    e      33 56.10
                    i(Sg)  33 58.90
     S.D. = 0.3  on   9 of   9 obs.
-----------------------------------------
   JUL  16, 1991  15h 30m 07.01± 0.17s
   24.815 N ± 3.4km  125.325 E ± 3.1km
   DEPTH =  46.9km  ( 15 depth phoses)
   5.4mb ( 69 obs.)  4.6Msz (  8 obs.)
 SOUTHWESTERN RYUKYU ISLANDS         (246)

TWC      3.17 267 iPc    30 56.60   1.0
                    eS     31 34.20
TWZ      3.41 276 ePd    31 01.60   2.6
ANP      3.47 277 iP     31 23.00  23.0X
TWD      3.48 259 ePc    31 00.20   0.3
TWF1     3.96 249 ePc    31 05.30  -1.5
TWG      4.37 244 ePc    31 10.50  -2.1
                    eS     31 58.90
QZH      6.12 273 eP     31 37.00  -0.2
      Z  18s     2.42um
      E  12s     0.72um
SSE      7.25 331 iPd    31 52.80  -0.2
         0.3s    47.00nm          5.8mb
      Z  20s     3.30um          4.2MszX
      N  14s     1.40um
      E  14s     1.50um
                    pP     31 57.00
CVP      7.79 205 eP     31 58.00  -2.6
                    eS     33 20.00
NJ2      9.19 323 Pd     32 19.00  -0.8
         1.0s   100.00nm          5.8mb
      Z  18s     1.40um          4.4Msz
      N  10s     0.80um
      E  10s     0.80um
BAG      9.47 209 eP     32 25.90   2.0
GZH     11.09 264 P      32 46.50   0.6
      Z  20s     1.30um
WHN     11.27 303 Pc     32 49.70   1.4
         0.8s    40.00nm          5.6mb
```

```
      Z  16s      1.20um          4.4Msz
      N  12s      0.80um
      E  12s      0.90um
                   pP     32 54.50
                   eS     35 00.00
TIA     13.37 330 Pd     33 19.30   3.1X
        1.2s    20.00nm          4.9mb
      Z  17s      1.40um          4.1Msz
      N  14s      1.20um
      E  14s      1.00um
                   pP     33 26.50
                   S      35 50.00
DL2     14.39 348 eP     33 32.00   2.4
      Z  20s      0.60um
MTMJ    15.88  39 P      33 52.60   3.6X
MAT     16.09  40 iPc    33 54.00   2.5
        1.0s    46.00nm          4.6mb
      Z  20s      0.35um          4.1MszX
                   eS     37 02.00
CHJJ    16.24  43 P      33 58.50   5.1X
CGP     16.28 182 eP     33 54.00   0.0
        1.0s    23.00nm          4.3mb X
GYA     16.91 280 P      34 02.60   0.6
        1.2s    20.00nm          4.1mb X
      N  14s      0.40um
      E  14s      0.90um
TIY     16.91 323 iPd    34 05.00   3.1X
      Z  21s      1.53um
      N  15s      0.80um
                   sP     34 18.00
XAN     16.97 307 iPc    34 05.00   2.3
        0.8s    40.00nm          4.6mb
      N  12s      0.60um
      E  16s      1.90um
                   pP     34 16.00
BJI     17.02 335 eP     34 04.50   1.4
        1.0s    40.00nm          4.5mb
      N  14s      0.80um
      E  18s      1.46um
                   ePP    34 20.00
NIIJ    17.03  40 P      34 04.00   0.7
SNY     17.03 356 Pc     34 04.00   0.7
        0.8s   200.00nm          5.3mb
      Z  20s      1.60um          4.0MszX
      N  15s      1.10um
                   sP     34 19.00
                   S      37 11.00
KAKJ    17.08  45 P      34 04.40   0.4
DAV     17.63 179 eP     34 24.00  13.1X
YAMJ    18.26  40 eP     34 16.50  -2.1
CN2     18.94   0 Pc     34 24.80  -2.0
        1.0s   100.00nm          5.0mb
      Z  18s      1.20um          4.6Msz
      N  12s      0.20um
      E  12s      0.30um
                   sP     34 38.00
                   eS     37 56.00
HHC     19.69 328 iPc    34 35.00  -0.3
        2.0s   400.00nm          5.4mb
      Z  18s      1.70um          4.2MszX
      N  13s      0.90um
      E  13s      0.60um
                   pP     34 43.00  31kmX
                   sP     34 48.00
                   PP     34 54.00
                   S      38 13.00
                   sS     38 23.00
                   SS     38 40.50
OFUJ    19.82  40 eP     34 31.10  -5.4X
CD2     20.00 293 P      34 37.20  -1.3
        1.2s   200.00nm          5.3mb
                   sP     34 56.00
                   eS     38 18.00
BTO     20.29 325 P      34 40.50  -1.0
      N  14s      0.40um
      E  15s      0.80um
                   ePP    35 03.00
                   eS     38 29.00
KMI     20.48 276 Pc     34 44.00   0.3
        1.5s    70.00nm          4.8mb
      Z  20s      0.90um          4.1Msz
                   sS     38 40.00
                   SS     39 00.00
GUMO    21.54 118 eP     34 54.10  -0.2
        1.2s   288.89nm          5.5mb
                   e      35 07.10  55km
PJG     21.54 118 eP     34 54.50   0.2
                   TT     56 36.50
GUA     21.60 118 eP     34 53.80  -1.2
        0.8s   131.34nm          5.4mb
LZH     21.61 306 Pc     34 55.00  -0.1
        1.0s    80.00nm          5.1mb
      Z  16s      1.16um          4.4MszX
      E  13s      0.71um
                   eS     38 48.00
HOOJ    22.96  36 eP     35 06.90  -1.2
LOE     23.19 256 iPc    35 12.00   1.4
MNI     23.24 181 e(P)   35 26.60  15.5X
ASAJ    23.88  32 eP     35 15.00  -2.1
KUSJ    24.21  36 P      35 20.40   0.1
CHG     25.19 262 iPc    35 30.70   0.8
        1.3s   107.21nm          5.2mb
BDT     25.67 258 eP     35 35.50   1.2
        0.8s    31.10nm          4.9mb
GTA     25.94 310 iPc    35 36.00  -0.8
        0.8s    60.00nm          5.2mb
      Z  16s      1.20um          4.5MszX
      E  13s      0.80um
                   pP     35 45.00  32kmX
                   PP     36 16.00
                   PcP    39 05.00
                   S      40 01.00
                   SS     41 05.00
SHL     30.23 279 iP     36 15.20  -0.6
LSA     30.70 287 iPd    36 18.60  -1.6
IPM     30.83 233 ePc    36 20.60  -0.3
        1.0s    41.50nm          5.1mb
KGM     31.06 227 ePd    36 23.60   0.6
IRK     31.73 335 ePc    36 25.80  -2.7
                   e      37 03.60 182kmX
                   e      37 53.20
                   e      41 23.00
WMO     36.01 311 P      37 04.50  -1.1
        1.0s    50.00nm          5.4mb
      Z  18s      0.80um          4.5Msz
YAK     37.31   3 ePc    37 12.50  -3.6X
                   e      38 48.00 521kmX
                   e      39 51.00
NDI     42.91 286 iP     38 02.50  -0.4
HYB     44.08 270 eP     38 14.00   1.5
WRA     45.35 168 P      38 22.00  -0.5
        0.8s     8.00nm          4.6mb
WR2     45.35 168 iPc    38 21.80  -0.8
        0.6s     8.70nm          4.8mb
                   e      38 34.20  45km
SMY     45.93  40 eP     38 17.00  -9.8X
GBA     46.37 265 Pc     38 30.80   0.1
        0.8s    26.80nm          5.2mb
OIS     47.19 162 iPc    38 36.80  -0.3
                   i      38 49.60  47km
KOD     47.64 261 eP     38 41.90   0.8
ASPA    48.91 170 iPc    38 50.50   0.1
        0.6s     6.70nm          4.8mb
      Z  23s      0.10um          3.7MszX
                   i      39 02.90  45km
                   eS     45 47.20
CTAO    49.06 154 iPc    39 04.50  12.9X
        1.5s    32.26nm
WARB    50.72 178 eP     39 04.70   0.5
QUE     51.58 290 iPc    39 11.00  -0.1
        1.0s    63.50nm          5.6mb
MAIO    56.87 298 iPc    39 50.00   0.4
        0.9s    23.44nm          5.2mb
STK     58.48 164 eP     40 01.00   0.3
        0.7s     1.80nm          4.3mb X
                   i      40 13.50  44km
ANM     58.99  28 P      40 05.20   1.3
IR4     63.93 299 iPc    40 38.00   0.2
IR1     64.06 299 iPc    40 39.00   0.4
IR7     64.06 299 iPc    40 39.00   0.4
IR5     64.19 299 eP     40 40.00   0.5
PMR     66.40  31 P      40 51.90  -1.2
OBN     69.32 322 eP     41 09.60  -1.8
        0.8s   *******nm          8.6mb X
      Z  20s      0.40um          4.7Msz
                   ePcP   41 34.00 209kmX
                   e      41 59.00
SOD     70.63 336 iP     41 17.90  -1.3
INK     71.21  23 ePc    41 21.60  -1.1
        0.8s    70.00nm          5.7mb
MBC     71.81  13 ePc    41 25.10  -1.1
        0.9s    53.00nm          5.5mb
                   pP     41 39.50  51km
KAF     72.46 331 eP     41 29.00  -1.2
KVT     73.63 308 iP     41 38.00   0.5
HRI     76.50 301 eP     41 54.50   0.3
JVI     77.29 299 eP     41 58.80   0.3
VRI     78.25 315 ePc    42 03.00  -0.5
MBH     78.46 297 eP     42 05.00   0.0
HFS     78.83 332 eP     42 05.20  -1.1
        0.7s    28.70nm          5.3mb
      Z  16s      0.39um          4.8MszX
                   LR     17 28.00
MLR     78.90 315 ePc    42 06.50  -0.7
JNW     79.11 346 eP     42 08.30   0.6
NB2     79.40 333 P      42 08.60  -0.9
        0.8s    23.40nm          5.2mb
KRA     80.58 321 iPc    42 15.80  -0.1
        0.7s    47.00nm          5.5mb
                   e      42 41.20  97kmX
YKA     80.90  24 eP     42 17.20  -0.1
        0.8s    13.90nm          5.0mb
COP     81.73 328 iPc    42 18.20  -3.6X
        0.7s    63.01nm          5.7mb
KSP     82.25 323 iPc    42 25.00   0.4
        1.4s   111.00nm          5.7mb
SRS     82.31 312 ePd    42 24.44  -0.7
OUR     82.39 311 ePd    42 25.12  -0.4
SRO     82.58 319 eP     42 27.20   0.8
PAIG    82.78 311 ePc    42 27.14  -0.4
VAY     82.91 312 iP     42 27.70  -0.5
        1.2s    90.00nm          5.7mb
ZST     83.11 320 iP     42 30.20   1.1
GRG     83.19 312 ePd    42 29.00  -0.7
SKO     83.37 313 ePc    42 30.90   0.3
        1.1s    71.00nm          5.6mb
BRG     83.51 324 iPc    42 31.50   0.4
        1.0s    24.00nm          5.2mb
                   i      42 37.50  19kmX
LIT     83.52 311 ePd    42 30.52  -0.9
VKA     83.53 321 iPc    42 32.40   1.1
        1.2s    98.50nm          5.7mb
                   i      42 41.30  28kmX
PRU     83.65 323 Pc     42 32.40   0.6
        1.2s    20.70nm          5.1mb
                   e      42 42.20  31kmX
                   e      43 06.20
CLL     83.78 324 iPc    42 32.90   0.4
        1.0s    49.00nm          5.5mb
AGG     84.12 310 ePd    42 32.84  -1.6
KHC     84.63 322 iPc    42 37.00   0.1
        1.1s    16.80nm          5.1mb
                   e      43 14.00 146kmX
MOX     84.88 324 iPc    42 38.60   0.6
        1.3s    47.00nm          5.5mb
HOF     84.92 324 iPc    42 39.00   0.7
        0.8s    56.00nm          5.8mb
PTJ     84.93 319 eP     42 36.00  -2.5
IGT     85.25 311 ePd    42 39.04  -1.1
AKU     85.54 346 iP     42 41.40   0.4
        1.5s    77.78nm          5.7mb
GRF     85.62 324 iPc    42 42.80   1.0
        1.6s   202.00nm          6.1mb
BHG     85.78 321 eP     42 43.30   0.7
        0.9s    51.00nm          5.7mb
WIT     86.15 328 eP     42 46.00   1.8
PNT     86.35  36 eP     42 46.00   0.6
FUR     86.44 322 eP     42 46.40   0.5
        1.0s    96.00nm          6.0mb
WTS     86.57 327 eP     42 47.00   0.7
        0.7s    28.00nm          5.6mb
WTTA    86.74 321 eP     42 47.00  -0.5
        1.0s    33.00nm          5.5mb
                   id     42 47.90   3kmX
BNS     87.01 326 ePc    42 48.70   0.2
        1.0s    78.00nm          5.9mb
KOE     87.04 325 iPd    42 51.20   2.5
ENN     87.76 326 eP     42 53.00   0.9
        0.9s    54.00nm          5.8mb
MEM     87.81 326 iPd    42 52.61   0.3
OSS     87.91 321 ePd    42 53.90   0.7
SLE     88.20 323 ePd    42 54.50   0.1
WLF     88.32 325 Pc     42 55.00   0.2
FHC     88.40  45 eP     42 57.30   1.8
                   e      43 11.20  47km
VDL     88.40 322 ePd    42 56.20   0.6
LLS     88.45 322 ePd    42 56.20   0.4
CDF     88.48 324 eP     42 55.60  -0.2
        1.1s    29.30nm          5.5mb
SNF     88.74 327 iPd    42 57.63   0.8
DOU     88.84 326 P      42 57.70   0.4
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16d 15h

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EKA    88.89 333 Pc     42 56.50  -1.0
       1.1s     7.50nm          4.9mb
TMA    88.96 321 ePd    42 58.30   0.1
BSF    89.09 324 eP     42 57.80  -0.9
HAU    89.22 324 eP     42 58.70  -0.5
     Z  22s     0.28um          4.6Msz
WDC    89.45  45 eP     43 01.10   0.7
                e      43 15.00  47km
MMK    89.50 322 ePd    43 01.50   0.6
ORX    89.74 321 P      43 01.07  -0.8
DIX    89.80 322 ePd    43 02.70   0.4
PCP    90.06 320 P      43 02.61  -0.7
SES    90.08  32 ePc    43 03.90   0.6
                pP     43 18.00  48km
RSP    90.44 321 P      43 04.45  -0.6
FIN    90.45 320 P      43 04.45  -0.6
LPL    90.52 322 eP     43 05.90   0.3
       0.8s    26.20nm          5.7mb
LPG    90.52 322 iPc    43 06.00   0.3
       0.8s    32.25nm          5.7mb
ROB    90.60 320 P      43 05.48  -0.3
BHB    90.62 321 P      43 04.25  -1.6
ORV    90.67  45 e(P)   43 06.50   0.4
IMI    90.81 320 P      43 06.71  -0.1
RRL    90.85 321 P      43 07.02  -0.1
ENR    90.90 321 P      43 07.22   0.0
PZZ    90.91 321 P      43 05.68  -1.6
STV    90.94 321 P      43 05.79  -1.6
PGF    90.95 319 iPc    43 07.60   0.1
       0.9s    22.95nm          5.6mb
LOR    91.00 324 eP     43 06.80  -0.7
     Z  22s     0.32um          4.7Msz
FFC    91.00  25 iPc    43 07.30   0.0
       0.7s    21.00nm          5.7mb
SBF    91.11 320 iPc    43 07.90  -0.2
       0.7s    35.30nm          5.9mb
LBF    91.12 324 eP     43 07.40  -0.7
       0.7s     5.50nm          5.1mb
SSF    91.32 324 eP     43 08.40  -0.5
SMF    91.40 324 iPc    43 08.70  -0.7
       0.6s     6.75nm          5.2mb
AVF    91.57 324 eP     43 09.90  -0.2
       0.8s     6.70nm          5.1mb
FRF    91.74 320 eP     43 11.00   0.0
       0.9s    22.95nm          5.6mb
MHC    91.79  47 e(P)   43 12.30   0.8
LMR    91.96 320 iPc    43 12.10   0.2
LRG    91.97 320 iPc    43 12.40   0.4
       1.0s    40.00nm          5.8mb
     Z  22s     0.30um          4.7Msz
LDF    92.17 327 eP     43 12.10  -0.7
FLN    92.23 328 eP     43 12.30  -0.8
     Z  19s     0.25um          4.7Msz
CMB    92.24  46 eP     43 14.30   0.9
                e      43 28.60  48km
LRM    92.32  36 eP     43 14.80   0.9
MAF    92.35 324 eP     43 13.40  -0.3
       0.7s     3.30nm          4.9mb
PRS    92.53  48 eP     43 16.00   1.3
                e      43 29.40  45km
GRR    92.67 327 eP     43 14.60  -0.5
       0.8s     8.05nm          5.2mb
LPF    93.00 327 eP     43 16.20  -0.4
       0.6s     7.20nm          5.3mb
FRI    93.27  47 eP     43 18.80   0.7
                e      43 32.70  47km
CAF    93.46 323 eP     43 19.10   0.2
       0.7s     5.50nm          5.1mb
RJF    93.51 324 eP     43 19.00  -0.1
     Z  22s     0.15um          4.4Msz
MFF    93.52 326 eP     43 18.70  -0.3
       0.7s     4.40nm          5.0mb
TNP    94.26  45 P      43 24.00   1.1
       1.0s    14.50nm          5.4mb
                pP     43 37.80  46km
ISA    94.85  47 eP     43 25.00  -0.5
                e      43 39.00  47km
CLC    95.34  47 eP     43 28.00   0.2
SBB    95.84  48 eP     43 31.00   0.9
GSC    96.16  47 eP     43 32.00   0.4
                e      43 45.00  43km
TPC    97.37  47 eP     43 37.00   0.0
NVL   120.92 201 PKPc   48 55.00   0.1
                e      49 09.00
LKO   121.22 299 PKP    48 56.10  -1.1
       0.7s    10.00nm
KIC   122.37 296 PKP    48 58.90  -0.5
TIC   122.44 296 PKP    48 59.00  -0.5
LIC   122.69 296 PKP    48 59.20  -0.8
ZOBO  164.81  59 PKP    50 10.20   2.1
       1.2s     8.11nm
     Z  24s     0.18um
                LR     49 28.00
LPB   164.99  59 ePKP   50 05.00  -3.0X
CNCB  165.24  60 PKP    50 11.00   2.6
                i      51 07.00
SIV   169.37  36 PKP    50 06.60  -4.1X
                i      51 22.80
      S.D. = 1.0  on 178 of 192 obs.
-----------------------------------------
%  JUL  16, 1991  15h 39m 54.47± 0.71s
   38.034 N ± 9.2km   14.876 E ± 5.6km
   DEPTH =  10.0km  (geophysicist)
 SICILY                                (398)
MNO     0.18 234 Pc     39 59.30   0.7
                eSg    40 03.10
ATN     0.48  75 P      40 04.70   0.5
                eSg    40 14.00
GIB     0.67 266 P      40 08.00   0.1
                eSg    40 18.00
SOI     0.93  87 P      40 11.10  -1.1
                eSg    40 26.00
USI     1.49 297 P      40 20.00  -1.3
CZI     1.54  39 P      40 21.40  -0.5
                eSg    40 42.50
TDS     1.98  35 P      40 27.90  -0.5
                eSn    40 53.50
ROI     2.03  40 P      40 29.20   0.1
                eSg    40 55.10
MMN     2.05  25 P      40 30.60   1.3
                eSg    40 55.60
CSI     2.06  32 P      40 30.60   1.0
                eSg    40 56.40
MGR     2.17  14 P      40 30.80  -0.3
                eSn    40 57.20
      S.D. = 0.9  on  11 of  11 obs.
-----------------------------------------
&  JUL  16, 1991  15h 46m 55.19s
   64.702 N          151.010 W
   DEPTH =  26.0km
 CENTRAL ALASKA                        (  1)
      <AEIC>. ML 3.1 (AEIC), 3.2
      (PMR).
NEA     0.84  98 eP     47 10.92  -0.2
                S      47 22.97
BWN     0.86 128 eP     47 11.89   0.5
KTH     1.15 178 eP     47 15.00  -0.8
                eS     47 30.26
MDM     1.22  77 iP     47 16.06  -0.5
WRH     1.28  99 eP     47 16.78  -0.7
TRF     1.30 165 eP     47 17.54  -0.3
                eS     47 34.48
MCK     1.33 136 eP     47 18.02  -0.2
                eS     47 35.65
CCB     1.38  91 iP     47 18.26  -0.6
                S      47 36.12
FBA     1.39  80 iPc    47 18.40  -0.6
RND     1.61 143 eP     47 22.00  -0.3
                eS     47 42.93
IMA     1.77 322 iPd    47 24.50  -0.2
HUR     1.84 160 eP     47 24.81  -0.7
CUT     2.33 171 eP     47 31.94  -0.6
SKT     2.74 185 eP     47 38.05  -0.4
TTA     2.84 234 eP     47 38.00  -1.9
FYU     3.04  49 eP     47 42.65   0.0
GHO     3.09 161 eP     47 42.96  -0.5
PWA     3.11 170 eP     47 43.32  -0.2
PLRM    3.24 164 eP     47 43.31  -2.1
PMR     3.24 164 eP     47 44.30  -1.1
NCG     3.35 189 eP     47 46.38  -0.8
TOA     3.40 138 eP     47 46.71  -1.0
CGLM    3.44 188 eP     47 47.27  -1.1
KNK     3.50 159 eP     47 49.83   0.6
PMS     3.53 169 eP     47 50.56   0.8
SPU     3.57 188 eP     47 49.43  -0.8
CKL     3.57 190 eP     47 50.38   0.1
KLU     3.97 142 eP     47 56.83   1.0
VLZ     4.17 147 eP     47 58.35  -0.3
SVW     4.18 212 eP     48 04.50   5.7
DFR     4.20 191 eP     47 56.68  -2.5
RDN     4.28 192 eP     47 58.92  -1.4
INK     7.85  55 P      48 39.00 -11.5
       0.5s     1.10nm
       33 obs. associated
-----------------------------------------
*  JUL  16, 1991  15h 55m 33.58± 0.53s
   48.703 S ± 9.6km   126.236 E ± 9.6km
   DEPTH =  10.0km  (geophysicist)
   4.8mb ( 11 obs.)
 SOUTH OF AUSTRALIA                    (437)
TAU    15.78  76 eP     59 18.00   0.7
ADE    16.54  39 e(P)   59 29.00   1.9
BFD    16.55  52 eP     59 23.00  -4.2X
NWAO   17.15 333 eP     59 35.00   0.3
       0.7s     8.00nm          4.0mb
     Z  20s     3.90um          4.2Msz
     N  20s     3.20um
     E  20s     2.20um
TOO    17.87  59 eP     59 44.00   0.2
MRWA   20.99 334 eP     00 18.90  -0.4
                e      00 26.00
CAN    21.46  60 eP     00 28.20   4.1X
BWA    21.78  57 eP     00 28.90   1.6
WARB   22.48   1 eP     00 34.00  -0.3
CMS    22.70  48 eP     00 36.50   0.0
ASPA   25.71  16 iPc    01 04.00  -1.6
       0.9s    42.00nm          5.1mb
QLP    26.15  39 iPc    01 09.80   0.2
RMQ    28.27  46 iPc    01 30.00   1.1
WR2    29.42  16 eP     01 37.40  -1.9
       1.1s     8.00nm          4.4mb
WRA    29.42  16 P      01 37.00  -2.3
       0.8s     5.50nm          4.4mb
QIS    30.06  26 iPc    01 43.70  -1.4
                i      01 51.20
CTAO   32.77  36 iP     02 06.50  -2.3
                i      02 22.00
                e(S)   08 24.00
MAW    36.32 215 eP     02 39.00   0.2
       0.9s    12.00nm          4.7mb
SPA    41.49 180 eP     03 21.30  -0.8
       1.2s    28.87nm          4.9mb
NVL    51.97 203 Pc     04 44.45   0.1
                e      04 51.00
                e      04 58.00
CHG    71.49 333 eP     06 50.80  -5.4X
CHTO   71.49 333 P      06 56.80   0.6
GBA    75.57 311 Pd     07 20.30   0.2
       0.8s     5.90nm          4.7mb
KMI    76.44 338 Pc     07 27.00   1.9
       2.0s    50.00nm          5.3mb
HYB    78.29 314 eP     07 44.70   9.4X
SSE    79.56 356 P      07 42.70   0.9
       1.0s    10.00nm          4.8mb
SHL    80.07 329 eP     07 45.00   0.1
CD2    81.76 341 eP     07 54.40   0.8
XAN    83.81 346 eP     08 04.50   0.4
LSA    84.12 330 eP     08 05.00  -1.2
TIA    84.93 353 eP     08 10.30   0.8
LZH    86.74 342 Pc     08 20.50   1.7
       2.0s    56.00nm          5.4mb
     Z  28s     0.39um          4.7MszX
TIY    86.91 349 eP     08 17.50  -1.9
BJI    88.81 352 eP     08 30.00   1.7
                eS     19 20.00
BTO    90.07 348 eP     08 35.20   0.8
GTA    90.80 340 eP     08 38.60   0.7
       1.2s    10.00nm          5.0mb
                pP     08 46.00  23kmX
CN2    92.12 359 eP     08 44.90   1.3
       1.0s    60.00nm          5.9mb X
TNP   133.93  79 PKP    14 54.50   2.1
INK   137.66  33 ePKP   14 57.00  -1.2
                pP     15 14.00
MBC   142.45  21 ePKP   15 03.00  -3.7X
MEO   144.31  96 e(PKP)15 08.50  -2.6
YKA   144.42  44 ePKP   15 08.10  -2.2
       0.9s     8.70nm
EKA   148.76 302 PKPd   15 22.10   4.4X
       0.8s    10.70nm
FFC   150.02  60 iPKPc  15 24.80   5.2X
       0.8s    16.00nm
DMU   150.68 298 ePKP   15 26.50   5.9X
      S.D. = 1.4  on  37 of  45 obs.
-----------------------------------------
?  JUL  16, 1991  16h 09m 18.60± 0.90s
   38.045 N ±17.1km   14.912 E ± 8.6km
   DEPTH =  10.0km  (geophysicist)
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 SICILY                                   (398)
MNO      0.21 237 P      09 23.60   0.4
                  eSg    09 27.50
GIB      0.70 266 P      09 32.10  -0.4
                  eSg    09 43.50
SOI      0.90  88 P      09 35.60  -0.3
                  eSg    09 46.20
CZI      1.51  39 P      09 46.00   0.3
                  eSg    10 08.20
     S.D. = 0.7  on   4 of   4 obs.
-----------------------------------------
*  JUL  16, 1991  16h 41m 24.97± 1.13s
   3.909 S ±17.2km  104.074 W ±13.4km
   DEPTH =  10.0km  (geophysicist)
   4.9mb (  8 obs.)
 NORTHERN EASTER I. CORDILLERA    (694)

ZOBO    37.38 112 P      48 41.10   0.4
        1.1s     23.20nm          4.9mb
                  S      54 34.00
                  LR     59 08.00
GLA     38.15 345 P      48 47.50   1.2
PLM     38.99 343 P      48 54.30   0.8
PWLA    41.51  20 P      49 13.90  -0.1
PRM     42.98  27 P      49 26.20   0.1
ELC     43.25  17 P      49 28.00  -0.3
GOL     43.41 359 P      49 30.00   0.2
        1.0s     8.75nm          4.5mb
TNP     43.52 345 P      49 32.00   1.3
        0.8s     8.58nm          4.6mb
GBTN    43.55  24 P      49 31.00   0.3
FVM     43.56  16 P      49 30.70  -0.1
JSC     43.65  28 P      49 31.70   0.2
BONR    43.70 344 P      49 33.50   1.2
TKL     43.72  24 P      49 32.00  -0.1
LHS     44.03  28 P      49 34.80   0.2
CMB     44.39 342 P      49 38.00   0.4
        1.0s    19.17nm          4.9mb
BW06    46.73 354 P      49 55.00  -1.4
        1.0s    11.67nm          4.9mb
RSSD    47.81   0 P      50 04.00  -0.8
        1.0s    16.27nm          5.1mb
LBFM    47.89 342 P      50 06.00   0.5
LON     52.82 345 P      50 41.80  -1.1
BMW     52.96 343 P      50 43.50  -0.4
NEW     53.20 349 P      50 44.30  -1.3
        1.0s    26.25nm          5.1mb
PMR     73.88 339 P      53 01.00  -0.7
        0.8s    24.14nm          5.3mb
PDB     74.63 336 P      53 05.50  -0.5
     S.D. = 0.8  on  23 of  23 obs.
-----------------------------------------
*  JUL  16, 1991  19h 26m 56.79± 1.16s
   17.215 N ±11.7km  100.896 W ± 8.9km
   DEPTH =  68.0 ± 12.1 km
   3.9mb (  3 obs.)
 GUERRERO, MEXICO                  ( 59)

ACX      1.05 109 iPc    27 15.00  -1.1
                  iS     27 27.33
MRX      2.49 354 eP     27 35.50  -0.3
                  iS     28 07.00
UNM      2.66  37 eP     27 39.00   0.5
                  (S)    28 14.00
TAC      2.71  36 (P)    27 45.00   5.8X
PPM      2.84  49 iPc    27 40.75  -0.4
                  iS     28 13.50
IIT      3.05  53 iP     27 43.50  -0.4
CGX      3.47 316 eP     27 50.50   0.8
IISM     3.78  62 iP     27 54.00   0.1
OXX      3.99  91 iP     27 58.50   1.4
LVVM     4.91  59 (P)    28 13.50   3.7X
PBJ      5.31  98 iP     28 15.50   0.0
ANMO    18.34 345 P      31 07.80  -0.5
        1.0s     4.00nm          3.6mb
TNP     25.24 329 P      32 18.20  -0.1
        1.0s     7.50nm          4.1mb
YKA     46.24 351 eP     35 16.50  -0.2
        0.7s     1.30nm          4.0mb
     S.D. = 0.8  on  12 of  14 obs.
-----------------------------------------
*  JUL  16, 1991  22h 35m 36.93± 0.79s
   0.309 N ±14.7km   67.042 E ±10.1km
   DEPTH =  10.0km  (geophysicist)
   4.8mb (  8 obs.)  4.5Msz (  4 obs.)
 CARLSBERG RIDGE                   (421)
KOD     14.31  46 eP     39 01.00  -1.0
GBA     16.75  38 Pd     39 35.10   1.8
        0.8s    12.80nm          4.1mb
HYB     20.43  33 eP     40 18.00   0.7
                  eS     43 52.00
QUE     29.71 360 eP     41 47.31   1.6
IPM     34.21  82 ePc    42 26.00   0.9
SHL     34.72  42 eP     42 29.00  -0.6
CHG     36.31  58 eP     42 42.80  -0.2
        0.9s    19.96nm          5.0mb
KMI     42.40  52 Pd     43 35.00   1.2
QIZ     45.91  64 P      44 02.40   0.5
GYA     46.14  52 P      44 02.40  -1.4
CD2     46.23  45 eP     44 06.00   1.6
WMO     47.08  20 P      44 13.50   2.6
     Z  16s     0.30um          4.3MszX
                  pP     44 17.50  13kmX
GTA     49.10  34 eP     44 25.60  -1.1
        0.8s    10.00nm          4.9mb
     Z  18s     0.50um          4.6Msz
     N  15s     0.50um
                  S      51 30.00
LZH     49.33  40 eP     44 28.00  -0.6
     Z  20s     0.35um          4.4Msz
XAN     51.59  45 Pd     44 43.80  -2.0
WHN     54.01  52 eP     45 04.00   0.3
TIY     55.93  43 eP     45 16.10  -1.6
VRI     57.55 328 eP     45 28.00  -1.1
NJ2     58.14  52 eP     45 32.40  -1.0
BJI     59.62  42 eP     45 43.00  -0.5
                  eS     54 00.00
OBN     60.01 340 eP     45 44.00  -2.0
        1.5s   *******nm          8.3mb X
     Z  18s     0.20um          4.3Msz
CN2     67.48  42 eP     46 36.30   1.0
        1.0s    60.00nm          5.7mb
     Z  20s     0.40um          4.6Msz
CLL     68.11 327 eP     46 39.00  -0.1
NUR     68.28 339 eP     46 38.20  -1.8
WRA     68.82 111 P      46 44.00  -0.1
        0.7s     4.60nm          4.8mb
KAF     68.84 341 iP     46 43.80   0.4
        0.6s     3.80nm          4.8mb
WR2     68.85 111 iPc    46 44.50   0.3
        0.5s     4.40nm          4.9mb
                  e      46 51.70
TIC     72.15 277 P      47 06.70   2.3
HFS     72.34 335 eP     47 05.20   0.6
        0.5s     1.60nm          4.4mb
     Z  17s     0.10um          4.2MszX
                  LR     15 24.00
ANMO   144.40 351 PKP    55 16.20   0.3
ALQ    144.41 351 ePKP   55 15.00  -0.9
SBB    144.89   7 ePKP   55 20.00   3.4X
GLA    146.77   3 ePKP   55 25.00   5.3X
BAR    147.00   6 ePKP   55 35.00  14.9X
     S.D. = 1.3  on  31 of  34 obs.
-----------------------------------------
*  JUL  16, 1991  23h 14m 02.35± 0.78s
   15.066 N ± 9.8km  120.283 E ±16.9km
   DEPTH =  10.0km  (geophysicist)
   4.9mb (  1 obs.)
 LUZON, PHILIPPINE ISLANDS         (249)

PGP      1.68 157 eP     14 32.00   0.0
PIP      3.26   6 eP     14 55.00   0.5
WHN     16.34 342 eP     17 58.00   4.6X
     N  12s     0.40um
                  eS     21 12.00
KMI     19.26 304 eP     18 30.50   0.4
TIA     21.25 353 eP     18 50.10  -0.8
XAN     21.50 333 eP     18 58.50   5.0X
CD2     21.87 319 P      18 57.80   0.6
TIY     23.61 344 eP     19 13.00  -1.3
BJI     25.14 353 eP     19 30.00   1.0
LZH     25.58 328 eP     19 32.50  -0.9
        2.0s    53.00nm          4.9mb
     Z  15s     0.34um          4.0MszX
                  pP     19 45.50  53kmX
HHC     26.79 345 eP     19 45.00   0.5
     S.D. = 0.9  on   9 of  11 obs.
-----------------------------------------
   JUL  16, 1991  23h 27m 33.52± 0.16s
   44.811 N ± 1.5km    6.792 E ± 1.8km
   DEPTH =   5.0km  (geophysicist)
 FRANCE                            (538)
     ML 3.1 (GEN), 3.0 (LDG).
RRL      0.11 357 P      27 36.36   0.4
                  S      27 37.18
BNI      0.26 341 P      27 38.90   0.2
                  eSg    27 43.50
BHB      0.34  85 P      27 40.87   0.6
                  S      27 46.25
PZZ      0.38 144 P      27 41.18   0.0
                  S      27 46.36
DOI      0.45 133 P      27 42.60   0.1
                  eSg    27 49.50
RSP      0.47  44 P      27 43.53   0.5
                  S      27 50.30
STV      0.68 146 P      27 46.71  -0.5
                  S      27 55.63
LPG      0.69 358 Pg     27 46.80  -0.5
                  Sg     27 57.20
LPL      0.71 357 Pg     27 47.20  -0.5
ENR      0.74 142 P      27 47.74  -0.5
                  S      27 57.58
RDB      0.93 123 P      27 51.33  -0.4
                  S      28 02.61
SBF      1.05 154 Pg     27 54.00   0.1
                  Sg     28 09.60
CKI      1.13 109 P      27 55.30   0.1
                  eSg    28 11.00
ORX      1.18  45 P      27 55.33  -0.7
FIN      1.18 120 P      27 55.84  -0.2
                  S      28 11.01
IMI      1.20 138 P      27 56.35   0.0
                  S      28 11.53
FRF      1.25 185 Pg     27 57.10  -0.2
FRF      1.25 185 Pn     27 58.00   0.7
                  Sg     28 15.20
PCP      1.28 102 P      27 57.89   0.1
                  S      28 14.30
DIX      1.34  19 ePd    27 59.20   0.3
CDR      1.35 213 ePgc   27 59.30   0.3
                  e      28 13.70
                  i      28 17.10
                  i      28 17.30
LRG      1.39 193 Pn     27 59.60   0.0
                  Sg     28 20.00
MMK      1.49  33 ePd    28 01.70   0.5
LMR      1.49 188 Pn     28 01.30   0.3
                  Sg     28 22.00
BOB      1.89  90 P      28 06.00  -0.8
                  eSg    28 31.50
TMA      1.95  48 ePc    28 08.20   0.4
VDL      2.52  47 ePc    28 17.00   1.1
SMF      2.76 313 Pn     28 20.00   0.7
                  Pg     28 26.00
                  Sg     29 02.00
PGF      2.77 144 Pn     28 19.60   0.1
                  Sn     28 52.00
LBF      2.93 319 Pn     28 22.50   0.8
                  Sg     29 06.60
BSF      3.02   0 Pn     28 21.60  -1.4
AVF      3.12 311 Pn     28 24.80   0.6
                  Pg     28 32.40
                  Sg     29 13.60
SLE      3.18  21 ePc    28 25.20   0.0
LOR      3.20 321 Pn     28 25.60   0.2
                  Sn     29 00.80
HAU      3.21 355 Pn     28 25.40  -0.2
                  Sn     29 02.00
SSF      3.21 316 Pn     28 26.20   0.6
                  Sg     29 16.00
BGF      3.27 304 Pn     28 26.20  -0.3
                  Pg     28 35.20
                  Sg     29 18.00
MAF      3.29 297 Pn     28 26.40  -0.3
                  Pg     28 35.70
                  Sg     29 18.00
CAF      3.36 274 Pn     28 27.60  -0.2
                  Sn     29 05.60
TCF      3.54 296 Pn     28 30.40   0.1
                  Sg     29 25.60
CDF      3.62   5 Pn     28 31.00  -0.4
RJF      3.77 279 Pn     28 33.30  -0.3
LSF      3.97 293 Pn     28 36.30  -0.1
                  Pg     28 48.00
                  Sg     29 38.00
MFF      5.18 293 Pn     28 52.40  -1.1
     S.D. = 0.5  on  44 of  44 obs.
-----------------------------------------
   JUL  17, 1991  00h 22m 32.76± 0.66s
   37.376 N ± 6.1km   20.713 E ± 3.1km
```

17d 00h

DEPTH = 48.3 ± 6.4 km
4.1mb (10 obs.)
IONIAN SEA (399)
MD 4.2 (ATH).

VLS	0.81	353	iPgc	22 48.30	0.3
VLI	1.90	110	ePb	23 01.20	-2.0
AGG	2.08	37	iPc	23 08.42	2.5
KEK	2.44	343	ePn	23 14.50	3.5X
ATH	2.46	75	ePb	23 11.40	0.2
LIT	3.06	26	iPd	23 20.88	1.2
			eS	24 00.92	
PAIG	3.45	41	ePc	23 24.92	-0.4
			iS	24 08.08	
LCI	3.66	325	P	23 28.40	0.2
			eSn	24 09.90	
THE	3.69	28	iPc	23 28.88	0.1
SOI	3.76	282	P	23 29.00	-0.7
			eSn	24 08.60	
GRG	3.81	20	ePd	23 31.08	0.6
			eS	24 19.48	
OUR	3.90	40	ePc	23 31.40	-0.3
ROI	3.92	305	P	23 32.50	0.4
SOH	4.01	30	iPc	23 33.97	0.7
CZI	4.05	298	P	23 33.80	0.1
TDS	4.12	305	P	23 36.20	1.4
KNT	4.14	23	iPc	23 35.81	0.7
CSI	4.21	306	P	23 39.70	3.5X
			eSn	24 21.50	
ATN	4.23	282	P	23 35.50	-0.9
ORI	4.28	310	P	23 37.80	0.7
			eSn	24 27.60	
SRS	4.35	30	ePd	23 38.28	0.2
BRT	4.44	323	P	23 40.00	0.8
			eSn	24 30.60	
MMN	4.47	306	P	23 42.50	2.8X
			eSn	24 36.50	
NPS	4.48	117	ePb	23 44.00	4.1X
ULC	4.72	347	iPnd	23 43.08	-0.1
			iSn	24 32.20	
BAI	4.78	323	P	23 44.00	-0.1
MNO	4.81	278	P	23 43.90	-0.8
			eSn	24 36.00	
MGR	4.88	306	P	23 46.50	0.9
			eSn	24 40.30	
EZN	5.03	59	eP	23 43.00	-4.6X
BDV	5.11	344	iPnc	23 48.03	-0.8
			iSn	24 40.35	
TTG	5.17	348	iPnc	23 49.13	-0.4
			iSn	24 43.08	
PVY	5.24	354	iPnc	23 51.38	0.6
			iSn	24 46.88	
SGO	5.28	309	P	23 52.50	1.4
RDO	5.31	43	ePn	23 50.60	-0.9
GIB	5.34	279	P	23 52.00	-0.1
HCY	5.34	342	iPnc	23 50.81	-1.2
			iSn	24 45.70	
ALN	5.44	48	ePc	23 51.28	-2.0
IVA	5.53	354	iPnc	23 55.11	0.5
			iSn	24 53.55	
NKY	5.59	347	iPgd	23 54.83	-0.7
			iSn	24 52.85	
BRY	5.76	344	iPnc	23 56.50	-1.5
			iSn	24 56.53	
PLE	6.03	351	iPnc	24 01.95	0.2
			iSn	25 04.90	
DUI	6.46	313	P	24 09.30	1.6
HVAR	6.65	332	ePn	24 09.70	-0.6
			iSn	25 26.20	
SDI	6.86	311	P	24 13.00	-0.4
ELL	7.38	92	eP	24 32.10	11.4X
BEO	7.44	359	eP	24 18.00	-3.4X
AQU	7.50	314	P	24 24.00	1.7
ASS	8.38	315	P	24 36.40	1.9
ARV	8.51	318	P	24 35.80	-0.4
MLR	9.01	24	eP	24 46.50	3.4X
VBY	9.09	335	ePn	24 43.00	-1.2
			eSn	26 24.00	
CRE	9.14	316	P	24 45.50	0.6
PTJ	9.23	339	iPc	24 44.20	-1.9
RIY	9.27	331	eP	24 45.20	-1.4
SFI	9.38	317	P	24 49.70	1.6
CEY	9.59	333	eP	24 50.00	-1.0
			eS	26 39.40	
VRI	9.60	26	ePd	24 48.50	-2.7X
LJU	9.81	334	e(P)	24 51.00	-3.0X
			e	24 53.00	
			eS	26 41.00	
VOY	10.04	332	eP	24 56.00	-1.2
			eS	26 45.20	
WTTA	11.94	329	i(P)	25 31.30	8.3X
			e	27 35.00	
KHC	12.84	338	P	25 35.00	0.1
			e	25 51.00	
PRU	13.37	343	eP	25 39.00	-2.8X
			e	25 49.70	
KSP	13.83	348	eP	25 48.20	0.4
			e	25 57.50	
BSF	14.61	320	eP	25 57.80	-0.4
	0.7s		6.60nm		4.2mb
CDF	14.76	323	eP	26 00.80	0.7
	0.8s		9.40nm		4.2mb
MOX	14.78	337	eP	26 08.00	7.8X
HAU	14.95	320	eP	26 01.90	-0.6
	0.7s		6.60nm		4.0mb
	Z 21s		0.08um		5.6MszX
LBF	15.66	313	eP	26 06.40	-5.3X
SSF	15.97	313	eP	26 07.60	-8.0X
	0.8s		2.70nm		3.4mb
WLF	16.16	324	Pc	26 25.00	7.1X
LDF	18.86	313	eP	26 48.40	-3.0X
LPF	19.14	311	eP	26 52.30	-2.4
FLN	19.15	313	eP	26 49.70	-5.1X
	0.8s		6.70nm		3.9mb
GRR	19.19	312	eP	26 53.30	-2.0
	1.0s		8.00nm		3.9mb
OBN	20.77	26	eP	27 10.20	-1.5
	0.8s		*******nm		7.6mb X
	Z 14s		0.30um		3.8MszX
			i	27 10.60	
			i	27 13.00	
			LQ	34 40.00	
HFS	23.22	351	eP	27 35.80	-0.2
	0.7s		15.20nm		4.6mb
	Z 15s		0.03um		2.9MszX
			LR	36 22.00	
NUR	23.29	5	eP	27 37.00	0.3
IR7	24.03	85	eP	27 44.00	-0.4
IR1	24.16	86	eP	27 45.00	-0.6
EKA	24.17	326	P	27 47.00	1.7
	0.7s		3.60nm		4.0mb
IR4	24.37	86	eP	27 49.00	1.3
NB2	24.43	349	P	27 48.30	0.4
	0.7s		4.60nm		4.1mb
KAF	25.01	6	iP	27 53.40	0.1
	0.6s		10.10nm		4.5mb
SOD	30.23	5	eP	28 40.00	-0.7
GKN	53.70	80	P	31 52.60	0.3
DMN	54.25	80	P	31 56.80	0.3
KKN	54.31	80	P	31 58.00	1.2
PKI	54.51	80	P	31 58.80	0.4
GUN	54.72	80	P	32 01.20	1.2

S.D. = 1.1 on 71 of 89 obs.

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* JUL 17, 1991 00h 40m 16.74± 0.93s
41.350 N ±10.3km 1.168 E ±13.5km
DEPTH = 10.0km (geophysicist)
SPAIN (377)
mbLg 3.1 (MDD). ML 2.9 (LDG).

EBR	0.73	224	eP	40 31.00	-0.1
			eS	40 42.00	
EROQ	0.78	228	eP	40 32.00	0.1
			eS	40 43.20	
ETER	1.58	52	eP	40 45.00	0.2
			eS	41 05.60	
EPF	1.79	340	Pn	40 48.20	0.3
			Pg	40 53.60	
			Sg	41 18.70	
ETOR	2.49	259	eP	41 06.30	8.2X
			eS	41 39.00	
LPO	3.33	0	Pg	41 20.60	10.7X
			Sg	42 04.20	
CAF	3.63	10	Pn	41 13.80	-0.4
			Pg	41 26.50	
			Sg	42 12.60	

S.D. = 0.4 on 5 of 7 obs.

JUL 17, 1991 01h 17m 22.86± 0.34s
20.517 N ± 4.3km 122.026 E ± 7.5km
DEPTH = 20.9km (4 depth phases)
4.9mb (36 obs.) 4.2Msz (6 obs.)
PHILIPPINE ISLANDS REGION (248)

PIP	2.55	212	eP	18 03.50	-0.4
			iS	18 39.50	
TWC	4.08	358	eP	18 25.40	0.0
BAG	4.31	199	eP	18 28.00	-1.0
ANP	4.67	354	eP	18 36.40	2.4
OZH	5.43	325	ePn	18 42.30	-2.3
	Z 16s		1.78um		
	N 10s		1.09um		
	E 10s		0.80um		
			Sn	19 41.50	
GZH	8.46	289	eP	19 22.50	-4.8X
	Z 15s		1.10um		
PLP	9.72	163	ePc	19 48.20	3.6X
	1.2s		58.00nm		5.8mb
SSE	10.56	356	eP	19 54.50	-1.6
	Z 18s		0.60um		
	N 10s		0.40um		
	E 10s		0.50um		
			pP	20 03.00	
OIZ	11.57	265	eP	20 06.50	-3.4X
	N 13s		1.00um		
NJ2	11.83	347	eP	20 12.20	-1.2
	Z 14s		0.70um		
	E 10s		1.30um		
WHN	12.15	327	eP	20 17.50	-0.1
DAV	13.79	165	eP	20 42.00	2.5
GYA	15.28	296	P	21 04.20	5.0X
	N 12s		1.10um		
	E 12s		0.80um		
TIA	16.22	346	eP	21 12.40	1.3
	E 11s		0.80um		
XAN	17.78	322	eP	21 31.50	0.7
	N 10s		0.70um		
DL2	18.33	359	eP	21 41.00	3.5X
	1.0s		30.00nm		4.4mb
			eS	25 00.00	
KMI	18.36	288	eP	21 40.00	1.8
TIY	19.05	336	iPc	21 46.30	-0.1
	1.0s		80.00nm		4.9mb
	Z 20s		0.87um		4.1MszX
	N 14s		0.86um		
	E 15s		1.52um		
CD2	19.42	306	P	21 50.00	-0.9
BJI	20.09	347	eP	21 56.50	-1.5
	1.0s		50.00nm		4.8mb
	N 10s		0.49um		
SNY	21.29	3	Pd	22 12.10	1.9
	1.0s		20.00nm		4.5mb
	Z 16s		0.80um		4.2MszX
	N 12s		0.50um		
	E 13s		0.50um		
			S	26 00.00	
MAT	21.33	38	eP	22 13.00	2.3
	1.3s		34.62nm		4.6mb
			(S)	26 15.00	
CHG	21.80	270	ePd	22 16.10	0.5
	1.2s		54.69nm		4.9mb
BDT	22.02	265	eP	22 18.80	1.1
	1.0s		48.30nm		4.9mb
HHC	22.14	339	P	22 18.60	-0.4
	Z 20s		0.90um		4.2Msz
	N 14s		0.50um		
	E 13s		0.50um		
			sP	22 29.00	
			PP	22 50.00	
LZH	22.23	318	eP	22 22.00	2.0
	1.4s		39.00nm		4.7mb
	Z 20s		0.59um		4.0Msz
	E 10s		0.43um		
			pP	22 32.50	40kmX
BTO	22.49	336	eP	22 21.50	-0.9
	Z 14s		0.70um		4.2MszX
	N 13s		0.40um		
	E 14s		0.70um		
			pP	22 27.00	20km
CN2	23.39	6	eP	22 33.50	2.4
	1.0s		100.00nm		5.3mb
	Z 17s		0.70um		4.2MszX
	N 13s		0.60um		
	E 13s		0.30um		
			eS	26 40.00	
IPM	25.85	235	ePc	22 55.50	0.6
	0.7s		22.90nm		4.9mb
KGM	25.91	227	ePd	22 57.50	2.0
GTA	26.80	319	eP	23 03.00	-0.6
	1.0s		10.00nm		4.4mb
	Z 20s		0.60um		4.1Msz

N 10s 0.30um
pP 23 11.00 28km
sP 23 19.00
eS 27 40.00
sS 27 54.00
SHL 28.16 286 eP 23 17.50 1.4
WMO 36.81 317 eP 24 34.00 2.8X
Z 12s 0.30um 4.3MszX
N 10s 0.20um
WR2 41.99 163 iPd 25 11.90 -2.5
0.6s 16.20nm 4.9mb
GBA 43.07 268 P 25 28.00 4.7X
0.7s 3.30nm 4.2mb
ASPA 45.41 165 eP 25 41.00 -1.1
0.6s 9.50nm 4.9mb
WARB 46.64 174 eP 25 50.50 -1.2
CTAO 46.81 148 iP 25 55.00 1.9
2.0s 55.80nm 5.2mb
STK 55.37 160 eP 26 56.80 -1.0
0.6s 2.90nm 4.5mb
MAIO 56.31 301 eP 27 05.00 0.2
IR4 63.36 300 eP 27 54.00 0.7
IR1 63.51 300 iPc 27 54.50 0.2
IR7 63.54 300 iPc 27 54.50 0.0
OBN 70.85 323 eP 28 38.00 -2.0
e 28 49.00 36kmX
e 29 05.00
FBA 71.71 27 P 28 47.00 2.0
SOD 73.31 336 eP 28 53.00 -1.4
KAF 74.72 331 iP 29 01.80 -0.8
0.5s 2.80nm 4.5mb
NUR 75.92 330 eP 29 09.30 -0.2
INK 76.32 22 eP 29 11.00 -0.7
MBC 76.65 12 eP 29 12.50 -0.9
VRI 79.12 315 ePd 29 27.00 -0.6
MLR 79.76 315 ePc 29 31.50 0.3
HFS 81.14 331 eP 29 36.70 -1.3
0.9s 7.70nm 4.7mb
NB2 81.82 333 P 29 40.04 -1.5
0.9s 5.20nm 4.6mb
KRA 81.96 320 iPd 29 42.40 -0.1
e 29 48.20 18km
SPC 82.10 320 eP 29 43.70 0.2
KSP 83.78 322 iPc 29 51.60 -0.3
0.7s 26.00nm 5.6mb
ZST 84.41 319 e(P) 29 56.00 0.9
BRG 85.11 323 eP 29 59.40 0.9
1.0s 10.00nm 5.0mb
PRU 85.16 322 eP 29 59.00 0.2
CLL 85.44 323 eP 29 59.00 -1.2
1.3s 21.00nm 5.2mb
YKA 86.03 23 eP 30 02.00 -0.9
0.6s 3.20nm 4.7mb
PTJ 86.09 318 eP 30 02.40 -1.2
KHC 86.11 321 P 30 04.50 0.9
MOX 86.53 323 eP 30 07.00 1.4
WTTA 88.13 320 iPc 30 13.30 -0.3
0.7s 6.00nm 5.0mb
i 30 18.90 18km
CDF 90.09 323 eP 30 22.40 -0.4
0.9s 6.55nm 4.9mb
BSF 90.68 322 eP 30 24.80 -0.7
HAU 90.84 323 eP 30 25.60 -0.5
Z 20s 0.10um 4.2Msz
LPG 91.94 320 eP 30 31.80 0.2
0.6s 5.85nm 5.2mb
LPL 91.94 321 eP 30 31.60 0.1
0.8s 6.70nm 5.1mb
LOR 92.65 323 eP 30 34.00 -0.5
0.8s 3.35nm 4.8mb
Z 20s 0.13um 4.4Msz
LBF 92.74 323 eP 30 34.60 -0.3
1.0s 6.00nm 5.0mb
SSF 92.96 323 eP 30 35.50 -0.4
1.0s 6.00nm 5.0mb
SMF 93.01 323 eP 30 35.80 -0.3
0.7s 5.50nm 5.1mb
AVF 93.20 323 eP 30 36.60 -0.4
0.7s 4.40nm 5.0mb
MAF 93.98 323 eP 30 40.60 0.0
0.8s 5.35nm 5.0mb
TCF 94.14 323 eP 30 41.20 -0.2
0.8s 2.70nm 4.7mb
RJF 95.11 322 eP 30 46.00 0.2
0.8s 8.05nm 5.2mb
Z 22s 0.08um 4.1Msz
S.D. = 1.2 on 72 of 79 obs.

% JUL 17, 1991 02h 55m 17.32± 1.28s
43.036 N ± 7.2km 13.491 E ±13.1km
DEPTH = 10.0km (geophysicist)
CENTRAL ITALY (381)

ASS 0.61 274 P 55 29.10 -0.6
eSg 55 38.50
ARV 0.61 319 P 55 29.20 -0.5
eSg 55 38.50
AQU 0.68 185 P 55 30.50 -0.4
eSg 55 42.30
MNS 0.88 223 P 55 34.70 0.4
CRE 1.27 298 P 55 41.40 0.4
SDI 1.35 170 P 55 42.40 0.2
SFI 1.49 307 P 55 44.50 0.5
eSn 56 04.30
PGD 1.54 304 P 55 45.00 0.0
S.D. = 0.5 on 8 of 8 obs.

? JUL 17, 1991 05h 12m 48.36± 1.80s
27.808 N ±22.3km 111.660 W ±13.6km
DEPTH = 10.0km (geophysicist)
4.7mb (6 obs.) 3.9Msz (1 obs.)
GULF OF CALIFORNIA (49)

GLA 5.90 333 eP 14 15.00 -2.9
BAR 6.51 319 eP 14 28.00 1.4
PLM 7.12 322 eP 14 34.00 -1.2
PEC 7.69 323 e(P) 14 45.00 1.9
ALQ 8.39 31 eP 14 54.00 1.0
ANMO 8.39 31 eP 14 54.00 0.9
SBB 8.65 324 eP 15 04.00 7.4X
GSC 8.66 331 eP 14 55.00 -1.8
CLC 9.45 329 eP 15 01.00 -6.5X
ISA 9.74 325 eP 15 01.00 -10.6X
BCH 10.28 318 eP 15 21.50 2.4
TNP 11.26 337 ePc 15 34.50 2.0
1.0s 8.75nm 5.0mb
FRI 11.40 325 eP 15 45.70 11.5X
CMB 12.55 327 eP 15 55.50 5.7X
BW06 15.03 6 ePd 16 30.00 7.3X
S 20 49.50
TUL 15.70 55 eP 16 26.90 -4.3X
Z 20s 0.26um
N 18s 0.37um
E 20s 0.25um
LON 20.53 340 eP 17 28.00 -1.4
NEW 20.86 350 eP 17 30.80 -2.0
SES 22.56 1 eP 17 49.00 -0.9
MBC 48.65 358 eP 21 35.00 1.1
BGF 85.28 39 eP 25 26.40 -0.2
0.4s 2.85nm 4.8mb
MAF 85.32 39 eP 25 26.80 0.0
0.4s 1.45nm 4.5mb
SSF 85.35 38 eP 25 26.80 -0.1
0.6s 2.25nm 4.6mb
LOR 85.42 38 eP 25 27.40 0.1
0.8s 4.70nm 4.7mb
Z 22s 0.05um 3.9Msz
LBF 85.65 38 eP 25 28.40 -0.1
0.8s 4.05nm 4.7mb
S.D. = 1.6 on 18 of 25 obs.

& JUL 17, 1991 05h 15m 25.17s
57.158 N 142.694 W
DEPTH = 10.0km (geophysicist)
3.2mb (1 obs.)
GULF OF ALASKA (15)
<AEIC>. ML 3.2 (AEIC).

YKU 2.87 32 eP 16 08.40 -3.3
MID 2.98 321 eP 16 07.15 -6.1
HQN 3.06 40 eP 16 08.74 -5.7
S 16 42.59
PNL 3.06 33 eP 16 09.05 -5.4
S 16 44.45
BCPM 3.23 28 eP 16 11.60 -5.3
S 16 48.84
TGL 3.61 359 eP 16 16.48 -5.9
eS 16 54.99
CRQM 3.62 357 eP 16 16.53 -6.0
CTGM 3.88 10 eP 16 21.14 -5.2
BALM 3.89 3 eP 16 20.70 -5.7
eS 17 03.87
SIT 4.02 88 eP 16 20.96 -7.1
GLB 4.34 353 eP 16 26.21 -6.4
eS 17 13.71
SEW 4.60 313 eP 16 28.94 -7.4
eS 17 18.44
KLU 4.65 341 eP 16 30.53 -6.6
eS 17 21.51
CNPM 5.09 301 eP 16 35.90 -7.4
eS 17 30.09
SLKM 5.15 314 iP 16 37.11 -7.1
eS 17 33.26
KNK 5.19 328 eP 16 39.92 -4.8
XLV 5.29 300 eP 16 38.41 -7.7
KDC 5.32 280 eP 16 39.64 -6.9
HOM 5.33 302 eP 16 40.60 -6.1
NNL 5.35 306 eP 16 40.43 -6.5
SYI 5.38 290 eP 16 40.21 -7.1
PMS 5.41 322 eP 16 41.31 -6.5
PLRM 5.53 326 eP 16 42.52 -7.0
SDG 5.57 346 eP 16 43.29 -6.9
GHO 5.61 328 eP 16 45.33 -5.4
SUA 5.97 320 eP 16 48.76 -7.0
CDD 6.08 292 eP 16 49.63 -7.6
RDT 6.09 308 eP 16 49.77 -7.6
RED 6.17 306 eP 16 51.27 -7.4
REF 6.18 307 eP 16 51.62 -7.1
RDN 6.22 307 eP 16 51.71 -7.5
DFR 6.22 308 eP 16 51.77 -7.5
RDW 6.22 307 eP 16 51.59 -7.8
SPU 6.28 314 eP 16 52.75 -7.3
NCT 6.31 307 eP 16 53.05 -7.5
CKL 6.40 313 eP 16 54.75 -7.1
NCG 6.45 315 eP 16 55.51 -7.1
BGL 6.46 314 eP 16 56.29 -6.4
PDB 6.58 298 eP 16 56.68 -7.6
YKA 15.02 58 eP 19 01.70 2.9
0.7s 0.70nm 3.2mb
40 obs. associated

? JUL 17, 1991 06h 35m 45.07± 4.18s
49.166 N ±29.8km 6.851 E ±13.1km
DEPTH = 10.0km (geophysicist)
GERMANY (543)
ML 2.2 (KRW).

GWF 0.54 110 Pg 35 55.74 -0.3
CDF 0.80 159 Pg 35 59.99 -0.8
ECH 0.97 168 Pg 36 03.70 0.1
VITF 1.11 211 Pg 36 05.65 -0.2
Sg 36 20.98
MOF 1.33 172 Pg 36 09.95 0.3
Sg 36 28.21
FEL 1.50 149 Pg 36 13.09 0.9
Sg 36 33.09
S.D. = 0.7 on 6 of 6 obs.

JUL 17, 1991 07h 12m 09.39± 0.28s
50.935 N ± 3.9km 130.162 W ± 4.9km
DEPTH = 10.0km (geophysicist)
5.1mb (55 obs.) 5.3Msz (20 obs.)
VANCOUVER ISLAND REGION (25)
CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 16S, 37C
Centraid Location:
Origin Time 07:12:14.1 0.5
Lat 50.92N 0.05 Lon 130.86W 0.07
Dep 15.0 FIX Half-duration 2.3
Moment Tensor; Scale 10**17 Nm
Mrr=-0.25 0.06 Mtt=-1.77 0.07
Mff= 2.03 0.07 Mrt= 0.24 0.19
Mrf= 0.39 0.26 Mtf= 1.01 0.06
Principal Axes:
T Val= 2.35 Plg=10 Azm=284
N -0.32 79 79
P -2.04 5 194
Best Double Couple:Mo=2.2*10**17
NP1:Strike=329 Dip=80 Slip= 176
NP2: 59 86 10

SJB 1.14 332 Pd 12 28.50 -2.1
PHC 1.75 96 Pc 12 39.79 -0.1
S 13 03.71
BBB 1.79 45 Pc 12 41.90 1.4
BNB 1.92 330 P 12 39.30 -3.1
EDB 2.22 117 P 12 44.51 -2.2
CWB 2.50 334 P 12 48.30 -2.4
BNAB 2.58 354 Pc 12 50.70 -1.1
KBB 2.69 100 Pc 12 52.70 -0.9

17d 07h

VIB	2.75	329	P	12 51.00	-3.4
ETB	2.80	122	P	12 52.73	-2.3
GDR	2.89	112	Pc	12 54.72	-1.5
PCB	3.14	333	P	12 57.80	-2.1
CBB	3.19	105	Pc	13 00.00	-0.6
MSTB	3.30	339	P	13 01.00	-1.1
BTB	3.32	114	Pc	13 00.93	-1.7
NDB	3.47	332	P	13 01.80	-2.7
OZB	3.61	121	P	13 03.66	-2.8
LIB	3.77	333	P	13 05.90	-2.8
ALB	3.81	114	Pc	13 07.94	-1.5
MGB	4.03	117	Pc	13 10.18	-2.3
SHB	4.25	106	Pc	13 14.79	-0.9
NAB	4.32	111	P	13 14.21	-2.4
PFB	4.40	120	P	13 14.96	-2.8
WPB	4.64	103	Pc	13 20.42	-0.7
BIB	4.66	106	P	13 20.00	-1.5
OTR	4.74	125	P	13 21.76	-0.9
OFK	4.82	126	P	13 22.54	-1.2
PGC	4.91	115	eP	13 24.00	-0.9
OBC	4.91	124	P	13 24.14	-0.9
FSB	5.02	43	Pd	13 26.60	0.1
OOW	5.05	127	P	13 25.70	-1.2
STW	5.06	121	P	13 26.01	-1.1
HNB	5.16	106	P	13 27.03	-1.4
OSD	5.25	124	P	13 28.68	-1.2
MCW	5.26	113	P	13 29.19	-0.7
FKBC	5.87	358	P	13 38.20	-0.3
GMW	5.90	122	P	13 39.22	0.3
BOB	6.10	360	P	13 42.30	0.5
BMW	6.40	132	P	13 44.68	-1.4
RMW	6.49	119	P	13 46.59	-0.7
SIT	6.85	336	eP	13 49.70	-2.5
LON	6.92	124	P	13 52.62	-0.7
PNT	6.97	99	P	13 54.00	0.0
	1.4s	29.60nm		5.2mb	
TCBC	7.03	355	P	13 54.80	-0.2
SHW	7.08	129	P	13 55.11	-0.5
DLB	7.51	0	P	14 02.30	0.7
VGB	8.28	127	eP	14 12.00	-0.4
DPW	8.38	107	P	14 12.64	-1.1
MUB	8.43	16	P	14 16.00	1.6
JBO	8.80	124	P	14 20.76	1.2
HSO	8.83	144	P	14 20.45	0.4
HBO	8.86	140	P	14 20.53	0.0
NEW	8.88	102	eP	14 19.80	-0.9
VIPM	9.09	131	P	14 22.65	-1.0
DBO	9.13	146	P	14 24.63	0.5
PLBC	9.24	340	P	14 23.90	-1.7
LNOR	9.38	118	P	14 25.92	-1.6
WHC	10.21	346	P	14 37.80	-1.1
HYT	10.73	340	P	14 44.00	-2.1
FHC	11.01	155	eP	14 51.12	1.3
LBFM	11.17	146	eP	14 53.00	0.8
FOX	11.27	155	eP	14 55.22	1.9
WDC	11.64	150	eP	14 59.60	1.2
SES	12.15	85	ePc	15 05.60	0.3
	1.0s	57.00nm		5.8mb	
MIN	12.16	147	eP	15 06.46	0.9
			eS	15 12.55	
LRM	12.83	107	eP	15 13.50	-1.2
ORV	12.90	149	eP	15 15.08	-0.3
KLU	13.69	327	eP	15 24.00	-1.8
ZSP	14.15	154	eP	15 35.24	3.4X
BRK	14.22	154	eP	15 33.00	0.3
	Z 10s	9.00um			
BKS	14.22	154	ePc	15 34.30	1.5
	1.2s	132.00nm		5.5mb	
			iS	18 16.70	
YKA	14.34	30	eP	15 34.20	0.0
	0.8s	15.70nm		4.7mb	
PTI	14.57	117	e(P)	15 38.60	1.1
CMB	14.64	148	eP	15 40.51	2.1
			iS	15 46.73	
KDC	14.66	306	eP	15 43.20	4.9X
MHC	14.89	153	eP	15 46.00	4.4X
PMR	14.93	323	eP	15 44.60	2.7
	1.2s	193.18nm		5.4mb	
GCC	15.08	154	eP	15 49.50	5.5X
SAO	15.48	153	eP	15 53.86	4.6X
TNP	15.79	139	eP	15 54.00	0.5
FRI	15.82	148	eP	15 58.00	4.4X
DUG	16.17	125	eP	15 59.50	1.2
	1.1s	42.76nm		4.5mb	
PDB	16.20	312	eP	15 57.80	-0.6
BW06	16.25	112	eP	16 01.00	1.7
	1.4s	197.29nm		5.0mb	

PRI	16.29	152	eP	16 01.35	1.6
FBA	16.75	333	eP	16 08.10	2.9
DAU	16.84	121	eP	16 06.40	-0.6
FFC	17.39	66	eP	16 12.00	-1.4
	0.9s	14.00nm		4.1mb	
FFC	17.39	66	eP	16 17.50	4.1X
	1.0s	59.00nm		4.7mb	
ISA	17.44	147	eP	16 16.00	1.8
INK	17.51	356	eP	16 16.00	1.3
	1.8s	434.00nm		5.3mb	
CLC	17.62	144	eP	16 17.00	0.6
MSU	17.76	127	eP	16 18.50	0.1
TTA	18.36	321	eP	16 25.60	0.1
	1.5s	270.27nm		5.2mb	
GSC	18.37	143	eP	16 28.00	2.2
SBB	18.55	146	eP	16 29.00	1.1
SDN	18.64	295	eP	16 28.50	-0.3
MWC	18.89	148	eP	16 33.00	0.8
IMA	19.32	331	eP	16 37.00	-0.3
RVR	19.33	146	eP	16 37.00	-0.5
PEC	19.50	146	eP	16 38.50	-1.0
TPC	19.72	143	eP	16 41.00	-0.9
PLM	20.09	146	eP	16 45.00	-1.0
GOL	20.63	113	eP	16 51.50	-0.2
	1.4s	62.01nm		4.8mb	
GLD	20.69	113	eP	16 53.00	0.8
	1.4s	47.30nm		4.7mb	
BAR	20.77	146	eP	16 52.00	-0.8
GLA	21.12	142	eP	16 56.00	-0.4
ALO	23.44	124	eP	17 20.00	0.3
	1.8s	147.73nm		5.2mb	
	Z 20s	4.79um		5.0Msz	
8RW	23.73	339	eP	17 23.80	2.0
MBC	25.76	6	eP	17 43.50	2.2
	1.5s	149.00nm		5.5mb	
MEO	27.94	113	iPd	18 03.50	1.8
TUL	28.82	108	eP	18 08.70	-0.8
	2.0s	94.00nm		5.2mb	
	Z 18s	5.51um		5.2Msz	
	N 20s	2.78um			
	E 20s	2.82um			
		eS	23 04.00		
		LR	26 30.00		
CLE	34.39	87	iP	19 02.40	4.0X
BLA	37.56	92	eP	19 28.00	2.6
	1.0s	10.00nm		4.5mb	
YAK	50.92	323	eP	21 11.60	-0.6
			ePcP	22 09.00	
			ePPP	23 14.00	
			eScP	26 21.00	
			ePcS	26 31.00	
			eS	28 33.00	
			eScS	31 06.00	
			eSS	31 13.00	
SOD	60.73	10	eP	22 22.00	-0.8
MAT	63.61	296	eP	22 39.00	-3.5X
	Z 20s	1.06um		5.0Msz	
			eS	31 16.00	
NB2	64.16	20	P	22 45.20	-0.6
	1.3s	15.20nm		5.0mb	
CN2	65.15	309	eP	22 49.00	-3.4X
	1.0s	10.00nm		5.0mb	
	Z 20s	5.20um		5.7Msz	
	N 18s	0.70um			
	E 18s	0.90um			
		pP	22 59.00	32kmX	
		ePP	25 15.00		
		eS	31 30.00		
		eSS	35 46.00		
HFS	65.50	19	eP	22 53.80	-0.6
	1.7s	72.30nm		5.6mb	
	Z 18s	2.91um		5.5Msz	
		LR	47 31.00		
KAF	65.76	12	iP	22 55.60	-0.4
NUR	67.07	13	eP	23 04.30	-0.1
SNY	67.54	309	Pc	23 05.00	-2.6
	1.2s	20.00nm		5.2mb	
	Z 25s	1.90um		5.2MszX	
	E 14s	1.40um			
		S	32 00.00		
DBN	70.62	27	eP	23 36.00	9.7X
	Z 20s	1.40um		5.2Msz	
		eS	32 53.00		
FLN	71.75	32	eP	23 34.20	1.0
	0.8s	6.70nm		4.8mb	
	Z 18s	4.00um		5.7Msz	
GRR	71.94	33	eP	23 35.70	1.3

	1.0s	18.00nm		5.1mb	
LDF	72.01	32	eP	23 36.10	1.3
	1.0s	12.00nm		4.9mb	
ENN	72.02	28	eP	23 37.00	2.2
	1.0s	30.00nm		5.3mb	
LPF	72.18	33	eP	23 37.20	1.4
	0.9s	16.40nm		5.1mb	
DOU	72.22	29	P+	23 45.00	9.0X
	Z 19s	1.20um		5.2Msz	
		S	33 10.00		
BJI	72.47	312	eP	23 33.00	-4.7X
	Z 20s	0.90um		5.0Msz	
	N 16s	0.70um			
		ePP	26 18.00		
		eS	33 00.00		
		eSKS	33 36.00		
WLF	73.07	28	Pc	23 48.00	7.0X
CLL	73.45	23	eP	23 44.00	0.8
	1.7s	21.00nm		4.9mb	
	Z 20s	1.50um		5.3Msz	
MOX	73.70	24	eP	23 45.50	0.8
	1.7s	16.00nm		4.8mb	
	Z 23s	1.40um		5.2MszX	
	N 21s	1.40um			
	E 19s	0.40um			
		eS	33 27.00		
MFF	73.72	33	eP	23 46.60	1.7
	1.4s	26.15nm		5.1mb	
OBN	73.76	8	eP	23 45.00	0.1
	2.0s	******nm		8.4mb	X
	Z 16s	1.30um		5.3MszX	
	N 16s	1.40um			
	E 16s	0.30um			
		ePcP	23 53.00		
		ePP	26 36.00		
		ePPP	28 24.00		
		eS	33 20.00		
		eScS	33 55.00		
		eSS	38 08.00		
		eSSS	42 03.00		
		LQ	50 45.00		
		LR	55 00.00		
HHC	73.91	316	eP	23 45.00	-1.2
	Z 18s	1.80um		5.4Msz	
	N 14s	0.90um			
	E 13s	0.60um			
		pP	23 53.00	26kmX	
BRG	74.08	23	iP	23 49.30	2.4
	1.7s	30.00nm		5.0mb	
		i	23 56.30		
GRF	74.47	25	eP	23 54.00	4.8X
	Z 22s	1.00um		5.1Msz	
		e	26 46.00		
		eS	33 35.00		
LOR	74.48	31	eP	23 50.80	1.5
	1.2s	23.80nm		5.1mb	
	Z 18s	4.50um		5.8Msz	
CDF	74.52	28	eP	23 50.90	1.3
	1.0s	14.00nm		4.9mb	
SSF	74.55	31	eP	23 51.00	1.3
	1.1s	25.65nm		5.2mb	
LSF	74.60	33	eP	23 51.10	1.1
	1.1s	19.55nm		5.0mb	
KSP	74.66	21	eP	23 50.50	0.2
AVF	74.74	31	eP	23 51.80	1.0
	1.0s	16.00nm		5.0mb	
LBF	74.77	31	eP	23 52.20	1.2
	1.2s	19.35nm		5.0mb	
BGF	74.78	32	eP	23 52.00	1.0
	1.5s	49.60nm		5.3mb	
BTO	74.79	317	eP	23 49.00	-2.3
	Z 15s	2.00um		5.5MszX	
	N 18s	1.90um			
	E 15s	1.20um			
		epP	23 55.00	19kmX	
		ePP	26 42.00		
TCF	74.80	32	eP	23 52.50	1.3
	1.0s	12.00nm		4.9mb	
BSF	74.89	28	eP	23 53.00	1.2
	0.8s	9.40nm		4.9mb	
MAF	74.98	32	eP	23 53.40	1.2
	1.8s	51.80nm		5.3mb	
SMF	75.03	31	eP	23 53.40	0.9
	1.0s	12.00nm		4.9mb	
RJF	75.42	33	eP	23 55.80	1.0
	1.0s	22.00nm		5.2mb	
	Z 20s	2.05um		5.4Msz	

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LFF     75.47  34 eP     23 56.80   1.8
        1.0s    22.00nm           5.2mb
LPO     75.85  34 eP     23 59.10   1.9
        1.9s    90.60nm           5.5mb
CAF     75.94  33 eP     23 59.10   1.4
        1.9s    65.40nm           5.4mb
TIY     76.07 313 eP     23 57.00  -1.7
      Z  20s     1.75um           5.4Msz
      N  15s     1.01um
                  S     33 43.00
KRA     76.21  19 eP     24 00.50   1.4
LPL     76.95  30 eP     24 05.60   2.0
        1.2s     7.45nm           4.7mb
LPG     76.97  30 eP     24 06.00   2.2
        1.6s    37.30nm           5.2mb
EPF     76 99  35 eP     24 05.00   1.3
        1.8s    34.55nm           5.1mb
SSE     77.04 303 P      24 06.00   2.0
        1.0s    12.00nm           4.9mb
      Z  20s     0.50um           4.8Msz
      N  12s     0.30um
      E  12s     0.30um
                  S     33 52.00
                  SS    38 52.00
NJ2     77.49 306 eP     24 05.00  -1.5
      Z  24s     0.80um           5.0MszX
      N  16s     0.60um
      E  15s     0.60um
                  pP    24 13.00  26kmX
                  eS    33 56.00
SBF     78.66  30 eP     24 14.00   1.2
        1.2s    26.80nm           5.2mb
FRF     78.68  30 eP     24 14.40   1.6
        1.0s    12.00nm           4.9mb
LRG     78.68  31 eP     24 14.80   2.0
        1.9s    90.60nm           5.5mb
      Z  20s     5.25um           5.9Msz
LMR     78.84  31 eP     24 15.20   1.5
        1.8s    51 80nm           5.3mb
GTA     79.96 323 eP     24 18.00  -2.0
      Z  22s     1.90um           5.4Msz
      E  14s     0.90um
                  PP    27 20.60
                  eS    34 26.00
WMQ     80.06 333 eP     24 20.00  -0.4
        2.0s    30.00nm           4.9mb
      Z  20s     1.20um           5.2Msz
      N  12s     0.50um
                  PP    27 26.00
                  eS    34 28.00
PGF     80.33  29 eP     24 23.60   1.7
        1.6s    43.55nm           5.2mb
MAL     80.56  41 eP     24 31.00   7.9X
                  eS    34 50.00
XAN     80.71 314 eP     24 21.60  -2.4
      N  17s     1.20um
      E  14s     0.70um
IFR     82.99  44 iP     24 37.50   1.4
SKO     84.21  21 eP     24 42.00   0.0
      Z  14s     0.88um           5.3MszX
      E  16s     0.87um
                  LR    06 32.00
TIO     84.22  46 iPd    24 49.50   7.1X
                  i     24 57.50
LPB     86.25 122 P      24 49.00  -3.9X
      Z  18s     1.37um           5.4Msz
                  LR    55 10.00
CCH     88.01 121 P      24 57.30  -3.9X
GYA     88.12 311 eP     25 03.00   1.4
      N  20s     1.90um
      E  20s     1.40um
                  S     35 45.00
SIV     89.70 116 P      25 09.00   0.1
MAIO    92.72 352 eP     25 25.00   2.1
                  eS    36 08.00
BUL    145.01  36 ePKP   31 47.70  -0.9
     S.D. = 1.5  on 162 of 181 obs.
-----------------------------------------
?  JUL  17, 1991  07h 37m 47.02± 0.99s
   39.129 N ± 8.7km   27.668 E ± 9.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 2.7 (ISK).

IZM      0.80 204 ePg    38 02.40  -0.1
                  eSg    38 14.00
DST      0.88  57 ePn    38 04.20   0.2
EZN      1.25 304 iPn    38 10.60   0.4
KGT      1.35 348 ePn    38 11.30  -0.5
     S.D. = 0.7  on   4 of   4 obs.
-----------------------------------------
?  JUL  17, 1991  08h 38m 06.72± 5.90s
   43.591 N ±34.5km   20.137 E ±28.7km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                          (383)
      ML 2.5 (TTG).

PLE      0.60 245 ePg    38 18.60  -0.3
                  iSg    38 30.50
IVA      0.74 194 ePg    38 20.92  -0.4
                  iSg    38 35.40
PVY      1.00 187 ePg    38 25.44  -0.4
                  iSg    38 43.23
NKY      1.14 227 ePg    38 28.25   0.1
                  iSg    38 48.33
TTG      1.33 209 iPgc   38 31.56   0.4
                  iSg    38 52.96
BRY      1.35 240 iPgc   38 31.63  -0.1
                  iSg    38 53.43
BDV      1.62 217 iPnc   38 36.23   0.8
                  iSn    39 00.05
HCY      1.66 227 iPnc   38 35.58  -0.4
                  iSn    39 01.08
ULC      1.75 202 iPnc   38 37.53   0.2
                  iSn    39 02.61
     S.D. = 0.5  on   9 of   9 obs.
-----------------------------------------
%  JUL  17, 1991  10h 21m 46.29± 1.26s
   15.854 N ±15.8km   95.385 W ± 9.4km
   DEPTH =  10.0km  (geophysicist)
 NEAR COAST OF OAXACA, MEXICO     ( 66)

PBJ      0.58 358 iP     21 58.00   0.0
                  iS     22 08.50
OXX      1.77 314 iP     22 16.25  -1.1
                  iS     22 41.50
SCX      2.78  71 eP     22 32.00   0.3
                  iS     23 04.50
TPX      3.16 107 (P)    22 36.75  -0.2
IISM     3.65 329 (P)    22 48.50   4.5X
LVVM     3.99 345 (P)    22 51.50   2.7X
                  (S)    23 39.50
PPM      4.45 316 eP     22 56.00   0.2
                  iS     23 47.50
MRX      6.73 306 eP     23 28.50   0.9
     S.D. = 0.9  on   6 of   8 obs.
-----------------------------------------
%  JUL  17, 1991  10h 49m 47.65± 0.88s
   38.164 N ± 8.9km    1.093 W ± 8.3km
   DEPTH =  10.0km  (geophysicist)
 SPAIN                               (377)
      mbLg 3.2 (MDD). Felt (III) in
      the epicentrol oreo.

EALH     0.40 220 ePg    49 55.81   0.0
                  eSg    50 01.70
ACU      0.64  57 ePg    50 00.08  -0.4
                  eSg    50 09.30
EVIA     1.20 294 ePg    50 10.10  -0.1
                  eSg    50 26.70
EHUE     1.24 254 eP     50 12.04   1.4
                  eS     50 28.40
ECHE     1.43   4 ePn    50 14.49   0.9
                  eSn    50 32.00
ENIJ     1.48 217 ePn    50 14.70   0.3
                  eSn    50 33.70
EBAN     2.12 271 ePn    50 23.12  -0.5
                  eSn    50 49.20
EHOR     3.30 265 ePn    50 38.89  -1.5
                  eSn    51 18.00
     S.D. = 1.0  on   8 of   8 obs.
-----------------------------------------
*  JUL  17, 1991  11h 48m 06.56± 0.89s
   26.806 S ± 9.6km   26.744 E ±15.5km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA            (584)
      mbLg 3.7 (BUL).

SLR      1.75  53 iPd    48 41.60   3.8X
                  S      49 04.00
FRS      3.19 203 iPc    48 59.80   1.5
                  S      49 33.60
JOZ      4.80  99 eP     49 21.00  -0.2
                  S      50 26.00
BUL      6.85  15 iPn    49 52.50   2.2
                  iSn    51 04.00
                  iSg    51 39.50
CER      9.18 223 eP     50 21.20  -1.5
                  S      51 56.50
KRI     10.28  16 iPn    50 37.00  -1.0
                  iSn    52 21.50
                  iSg    53 19.00
MTD     10.94  25 iPn    50 46.90  -0.1
                  iSn    52 37.00
                  iLg    53 49.00
LSZ     11.55   7 iPn    50 56.00   0.7
                  iSn    52 01.70
                  iSg    53 13.00
PTZ     13.21  20 iPn    51 16.00  -1.6
                  iSn    53 40.00
                  iSg    54 01.00
     S.D. = 1.6  on   8 of   9 obs.
-----------------------------------------
?  JUL  17, 1991  12h 25m 45.89± 1.10s
   40.881 N ± 8.8km   29.415 E ± 9.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 2.3 (ISK).

HRT      0.20 107 iPg    25 50.40   0.1
                  iSg    25 54.40
YLV      0.32 186 ePg    25 53.00   0.5
ISK      0.33 304 iPg    25 52.60   0.0
                  eSg    26 01.40
IZI      0.55 175 iPg    25 56.40  -0.5
     S.D. = 0.8  on   4 of   4 obs.
-----------------------------------------
&  JUL  17, 1991  13h 06m 46.18s
   59.635 N          152.429 W
   DEPTH =  70.4km
 SOUTHERN ALASKA                     (  2)
      <AEIC>.

HOM      0.40  86 iPc    06 57.99  -0.3
XLV      0.40 116 iPc    06 57.60  -0.7
                  eS     07 06.89
IVS      0.50 319 ePd    06 58.86  -0.7
                  eS     07 08.78
AUE      0.56 240 iPc    06 59.14  -0.6
AUH      0.58 243 ePc    06 59.59  -0.5
AUI      0.59 240 ePc    06 59.46  -0.7
                  eS     07 09.50
CNPM     0.62 100 iPc    06 59.87  -0.6
                  eS     07 10.30
NNL      0.70  54 iPc    07 01.62   0.3
BRLK     0.79  80 iPc    07 01.65  -0.8
                  eS     07 13.60
RED      0.81 348 iPd    07 01.97  -0.7
                  eS     07 14.00
REF      0.87 351 iPd    07 02.93  -0.6
RDW      0.87 348 iPd    07 02.90  -0.7
RDN      0.90 349 iPd    07 03.21  -0.6
                  eS     07 16.34
PDB      0.91 280 iPc    07 02.69  -1.1
RDT      0.94   1 iPd    07 03.46  -0.8
                  eS     07 16.94
CDD      0.94 222 ePc    07 03.34  -0.9
NCT      0.96 345 iPd    07 03.93  -0.7
DFR      0.97 352 iPd    07 03.98  -0.7
SYI      1.03 179 iPd    07 04.60  -0.7
                  eS     07 19.25
MCNL     1.07 246 iPc    07 04.66  -1.3
                  eS     07 19.03
NKA      1.26  28 iPd    07 09.52   1.2
SLKM     1.41  51 ePc    07 09.31  -1.1
                  eS     07 28.49
SPU      1.56   7 iPd    07 12.04  -0.4
                  eS     07 32.16
CKL      1.57   2 iPd    07 12.19  -0.4
SEW      1.57  71 eP     07 12.24  -0.3
BGL      1.63   1 ePd    07 13.04  -0.5
CGLM     1.69   7 eP     07 13.87  -0.4
NCG      1.78   4 iPd    07 15.12  -0.4
KDC      1.89 181 iPd    07 15.50  -1.4
SUA      2.02  24 ePd    07 18.59  -0.2
PMS      2.15  40 ePd    07 19.86  -0.7
SVW      2.17 314 iPd    07 19.50  -1.3
PWA      2.38  31 eP     07 23.73   0.1
SKT      2.39  10 ePd    07 23.13  -0.8
                  S      07 51.61
PLRM     2.55  38 ePd    07 24.62  -1.4
```

17d 13h

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PMR      2.55  38 eP     07 24.40  -1.6
KNK      2.65  46 ePc    07 25.73  -1.8
GHO      2.75  37 eP     07 28.26  -0.7
CUT      2.97  20 eP     07 31.61  -0.3
HUR      3.61  21 eP     07 40.62  -0.3
KLU      3.71  57 iPc    07 39.97  -2.4
TTA      3.73 334 ePd    07 41.00  -1.6
TOA      3.94  48 eP     07 42.97  -2.5
TRF      3.96  14 eP     07 44.48  -1.5
KTH      4.00  10 eP     07 45.56  -0.8
RND      4.15  23 eP     07 47.33  -1.3
SDG      4.43  46 eP     07 50.54  -1.8
MCK      4.44  21 eP     07 51.20  -1.3
GLB      4.63  63 eP     07 52.09  -3.1
PAX      4.74  42 eP     07 55.13  -1.7
BWN      4.76  16 eP     07 55.89  -1.2
TGL      4.92  73 eP     07 57.04  -2.3
BALM     5.20  70 eP     08 01.06  -2.3
WRH      5.26  21 eP     08 01.17  -2.9
CCB      5.48  21 eP     08 04.62  -2.4
MDM      5.69  18 eP     08 07.40  -2.6
FBA      5.71  20 ePc    08 07.60  -2.7
        57 obs. associated
-----------------------------------------
?  JUL  17, 1991  13h 25m 09.09±15.02s
   41.979 N ±93.5km  125.781 W ±75.3km
   DEPTH =  10.0km  (geophysicist)
 OFF COAST OF NORTHERN CALIFORNIA( 34)

DBO      2.19  58 Pc     25 46.44   0.2
HSO      2.51  51 Pc     25 50.64  -0.1
                 S      26 19.82
HBO      3.15  53 Pd     26 00.33   0.5
                 S      26 36.81
KMOR     4.01  24 P      26 12.16   0.2
                 S      26 54.67
GT2      4.07  38 P      26 12.41  -0.4
VBEM     4.33  43 P      26 16.39  -0.3
TDH      4.40  40 P      26 17.52   0.0
NLO      4.44  21 P      26 18.07   0.1
VLMM     4.47  36 P      26 18.64   0.1
                 S      27 07.67
VIPM     4.54  54 P      26 19.28  -0.3
VLL      4.58  39 P      26 22.08   2.0
CROR     4.60  48 P      26 19.69  -0.7
RVW      4.71  27 P      26 22.60   0.8
LVP      4.76  30 P      26 22.26  -0.3
MTMW     4.79  31 P      26 22.65  -0.5
BMW      4.85  21 P      26 23.44  -0.5
FL2      4.89  29 P      26 24.23  -0.2
JLK      4.92  31 P      26 24.05  -0.8
SHW      4.93  30 P      26 25.32   0.3
HSR      4.93  31 P      26 24.92  -0.2
CDFW     4.93  32 P      26 24.49  -0.5
REMW     4.95  30 P      26 25.69   0.3
ESD      4.96  31 P      26 25.48   0.0
VTHM     4.96  48 P      26 25.21  -0.2
GULW     4.97  36 P      26 26.15   0.6
ERK      4.98  29 P      26 25.57  -0.2
SOSW     5.00  30 P      26 25.67  -0.3
CZM      5.04  27 P      26 27.52   1.0
VGB      5.06  44 P      26 26.59  -0.3
ASR      5.15  34 P      26 27.76  -0.4
KOSW     5.17  29 P      26 28.40   0.0
JBO      5.54  49 P      26 33.70   0.1
      S.D. = 0.6  on  32 of  32 obs.
-----------------------------------------
?  JUL  17, 1991  14h 18m 32.57±14.13s
   41.850 N ±89.4km  125.954 W ±69.6km
   DEPTH =  10.0km  (geophysicist)
 OFF COAST OF NORTHERN CALIFORNIA( 34)

DBO      2.37  57 P      19 12.29   0.1
HSO      2.70  51 P      19 16.44  -0.4
HBO      3.33  52 P      19 26.35   0.4
KMOR     4.18  24 P      19 38.09   0.2
GT2      4.25  38 P      19 39.23   0.3
PGO      4.42  34 P      19 41.55   0.4
TDH      4.58  40 P      19 44.20   0.6
NLO      4.61  22 P      19 44.24   0.3
VLMM     4.65  36 P      19 45.89   1.3
VIPM     4.72  54 P      19 45.35  -0.3
CROR     4.78  47 P      19 46.59   0.1
RVW      4.88  27 P      19 48.49   0.7
LVP      4.93  30 P      19 48.15  -0.4
MTMW     4.97  32 P      19 48.39  -0.7
BMW      5.02  22 P      19 49.34  -0.4
HSR      5.11  31 P      19 51.04   0.0
CDFW     5.11  32 P      19 50.40  -0.6
ASR      5.33  35 P      19 53.82  -0.3
KOSW     5.35  29 P      19 54.49   0.1
LMW      5.49  27 P      19 56.80   0.4
CPW      5.51  21 P      19 57.04   0.4
GLK      5.65  32 P      19 58.23  -0.5
JBO      5.72  49 P      19 59.62   0.0
LON      5.73  30 P      19 59.17  -0.6
WPW      5.79  32 P      19 59.84  -0.8
FMW      5.93  30 P      20 02.51  -0.2
RSW      6.45  43 P      20 09.90   0.0
JCW      6.95  23 P      20 16.97   0.0
      S.D. = 0.5  on  28 of  28 obs.
-----------------------------------------
?  JUL  17, 1991  14h 30m 13.35± 1.54s
   41.145 N ±13.9km   23.299 E ± 7.6km
   DEPTH =  10.0km  (geophysicist)
 GREECE-BULGARIA BORDER REGION    (363)

SRS      0.22  97 iPc    30 18.17   0.0
                 eS     30 21.40
SOH      0.33 173 iPd    30 20.20   0.1
                 eS     30 24.60
THE      0.57 206 ePc    30 24.84  -0.1
                 eS     30 32.44
GRG      0.70 255 ePd    30 27.32   0.0
                 eS     30 37.80
      S.D. = 0.1  on   4 of   4 obs.
-----------------------------------------
%  JUL  17, 1991  15h 55m 18.24± 0.99s
   46.134 N ± 6.6km     0.096 W ± 9.8km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                           (538)
      ML 2.8 (LDG).

MFF      0.47 356 Pg     55 28.60   0.8
                 Sg     55 35.20
LSF      1.14  84 Pn     55 40.20   0.7
                 Pg     55 41.10
                 Sg     55 56.70
LFF      1.33 154 Pn     55 40.80  -2.0
                 Pg     55 41.80
                 Sg     55 59.20
RJF      1.40 126 Pg     55 44.30   0.5
                 Sg     56 02.20
TCF      1.61  84 Pn     55 47.00   0.2
                 Pg     55 49.80
                 Sg     56 10.40
LPO      1.71 148 Pg     55 48.90   0.7
                 Sg     56 10.50
MAF      1.85  86 Pn     55 50.30   0.0
                 Pg     55 54.10
                 Sg     56 18.30
CAF      1.94 128 Pg     55 53.70   2.1
                 Sg     56 18.20
LPF      2.01 342 Pn     55 52.40  -0.1
                 Pg     55 56.40
                 Sg     56 22.00
BGF      2.08  77 Pn     55 52.70  -0.9
                 Pg     55 58.30
                 Sg     56 26.00
GRR      2.31 347 Pg     56 02.40   5.4X
                 Sn     56 23.50
                 Sg     56 33.70
LDF      2.46 360 Pg     56 05.20   6.2X
                 Sg     56 37.50
AVF      2.47  73 Pn     55 58.30  -0.9
                 Pg     56 06.00
FLN      2.64 354 Pn     56 01.20  -0.4
                 Pg     56 08.40
                 Sg     56 42.10
SSF      2.65  68 Pn     56 01.10  -0.7
                 Pg     56 08.90
SMF      2.77  78 Pg     56 10.60   7.1X
LBF      2.94  72 Pg     56 14.20   8.4X
LOR      2.95  66 Pg     56 14.50   8.5X
      S.D. = 1.1  on  13 of  18 obs.
-----------------------------------------
&  JUL  17, 1991  15h 57m 22.04s
   61.796 N          147.115 W
   DEPTH =  32.7km
 SOUTHERN ALASKA                  (  2)
      <AEIC>. ML 2.6 (AEIC).

SCM      0.11 290 eP     57 27.85  -0.1
TOA      0.54  55 iPd    57 32.61  -0.7
                 iS     57 41.14
KLU      0.65 118 iPc    57 33.62  -1.2
                 eS     57 43.07
KNK      0.75 240 iPd    57 35.10  -1.1
                 eS     57 46.05
TZL      0.84  72 ePc    57 36.93  -0.5
GHO      0.86 269 ePc    57 36.28  -1.6
                 eS     57 48.04
PLRM     0.98 259 ePc    57 38.20  -1.3
                 eS     57 52.04
PMR      0.98 259 iPd    57 38.50  -1.0
       0.2s   133.33nm
SDG      1.04  44 iPd    57 39.25  -1.1
                 S      57 53.27
PMS      1.30 246 iPd    57 43.55  -0.5
                 S      58 00.37
PWA      1.32 265 eP     57 43.54  -0.8
                 eS     58 00.32
PAX      1.41  32 iPd    57 44.42  -1.2
CVA      1.42 152 eP     57 45.41  -0.3
HIN      1.44 168 ePc    57 45.77  -0.2
SGAM     1.60 144 eP     57 47.75  -0.6
                 S      58 07.52
CUT      1.60 294 iPc    57 47.69  -0.7
GLB      1.62 101 ePc    57 47.48  -1.2
                 eS     58 07.42
SUA      1.76 261 ePc    57 50.69  -0.2
                 eS     58 13.34
RND      1.81 334 ePc    57 50.59  -0.8
RAGM     1.85 139 eP     57 51.92  -0.1
SLKM     1.98 231 eP     57 53.34  -0.7
HMT      2.02 135 eP     57 52.74  -1.7
SEW      2.04 215 eP     57 54.34  -0.4
SKT      2.10 277 iPc    57 54.96  -0.6
                 S      58 20.26
CROM     2.19 117 eP     57 56.22  -0.7
TRF      2.22 320 ePc    57 56.78  -0.6
TGL      2.32 115 eP     57 57.55  -1.2
CGLM     2.39 260 eP     57 58.82  -1.0
BALM     2.42 106 ePc    57 58.73  -1.5
NCG      2.44 263 eP     57 59.74  -0.8
SPU      2.45 258 eP     57 59.91  -0.7
WAX      2.47 121 eP     57 59.53  -1.4
KTH      2.49 317 eP     58 00.53  -0.7
CKL      2.58 259 eP     58 01.94  -0.5
BGL      2.58 260 eP     58 01.80  -0.7
REF      3.01 247 eP     58 08.05  -0.6
CNPM     3.05 224 eP     58 07.97  -1.1
        37 obs. associated
-----------------------------------------
   JUL  17, 1991  16h 41m 24.83± 0.44s
   3.989 S ± 7.4km  104.094 W ± 8.4km
   DEPTH =  10.0km  (geophysicist)
   5.0mb ( 16 obs.)  5.5Msz (  9 obs.)
 NORTHERN EASTER I. CORDILLERA    (694)
      Mo=8.0*10**17 Nm (PPT).
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 21S, 50C
      Centroid Location:
      Origin Time        16:41:33.1 0.4
      Lat  3.80S 0.04 Lon 104.21W 0.04
      Dep  15.0 FIX Half-duration  2.6
      Moment Tensor;   Scale 10**17 Nm
        Mrr=-0.58 0.09  Mtt= 0.78 0.09
        Mff=-0.20 0.13  Mrt=-0.56 0.29
        Mrf= 1.08 0.33  Mtf= 3.15 0.08
       Principal Axes:
        T  Val=  3.50  Plg= 4  Azm=319
        N       -0.10      67       219
        P       -3.40      23        50
      Best Double Couple:Mo=3.5*10**17
       NP1:Strike= 92 Dip=71 Slip= -14
       NP2:        187      77      -161

PBJ     22.04  23 (P)   46 24.00   2.5
OXX     22.17  19 (P)   46 27.00   4.0X
PPM     23.53  13 (P)   46 40.50   3.7X
IISM    23.77  16 (P)   46 43.00   4.6X
LVVM    24.75  17 (P)   46 50.00   2.1
PSO     27.24  80 eP    47 13.50   1.8
UPA     27.67  62 (P)   47 15.00  -0.1
      Z  19s    23.26um          5.8Msz
NNA     28.11 108 eP    47 17.00  -2.2
        1.0s    17.00nm          4.8mb
      Z  20s     6.38um          5.2Msz
BOG     31.20  74 eP    47 48.00   0.9
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                    eS     53 01.00
FUQ    31.74  73 eP     47 50.00  -1.9
ARE    34.32 114 eP     48 24.00   9.7X
LPB    37.47 112 P      48 34.00  -7.1X
     Z  16s      4.71um          5.4MszX
                    e      48 43.00
                    SS     57 12.00
                    LR     59 52.00
CNCB   37.65 112 P      48 45.00   2.2
ANT    37.95 124 eP     48 45.00   0.5
GLA    38.22 345 eP     48 48.00   1.3
BAR    38.37 343 eP     48 48.00   0.0
ALQ    38.79 357 ePc    48 51.90   0.2
       1.0s      7.50nm          4.3mb
     Z  20s      1.42um          4.8Msz
ANMO   38.79 357 P      48 52.00   0.3
       1.0s      6.25nm          4.3mb
MEO    38.91   7 iPd    48 52.50   0.0
PLM    39.06 343 eP     48 54.00   0.1
CCH    39.49 113 P      48 59.60   1.6
TPC    39.53 344 eP     48 58.00   0.2
RVR    39.80 343 eP     49 01.00   1.1
PAS    40.19 342 eP     49 03.00  -0.1
                    eS     55 20.00
                    eSS    58 23.00
                    eLg    58 32.00
                    eScS   58 40.00
                    eLR    00 14.00
MWC    40.22 342 eP     49 12.00   8.4X
TUL    40.44  10 ePd    49 05.00  -0.2
       1.2s     32.10nm          4.9mb
     Z  20s      0.76um          4.5Msz
     N  20s      0.89um
     E  20s      3.28um
                    eS     55 14.00
                    LR     58 17.00
SBB    40.58 343 eP     49 07.00   0.6
GSC    40.87 344 eP     49 09.00   0.3
CLC    41.57 343 eP     49 15.00   0.5
PWLA   41.59  20 P      49 13.90  -0.7
ISA    41.68 342 eP     49 16.00   0.6
PRI    42.83 340 eP     49 25.30   0.4
PRM    43.06  27 P      49 26.20  -0.5
PRS    43.24 340 eP     49 28.80   0.7
                    e      49 45.00
FRI    43.29 342 ePc    49 27.80  -0.6
                    e      49 34.30
ELC    43.33  17 P      49 28.00  -0.8
GOL    43.49 359 ePc    49 31.00   0.7
       1.0s     15.00nm          4.7mb
GLD    43.54 359 ePd    49 32.00   1.4
TNP    43.59 345 P      49 32.00   0.8
       1.0s     18.25nm          4.8mb
G8TN   43.63  24 P      49 31.00  -0.2
FVM    43.64  16 e(P)   49 31.00  -0.3
       1.0s     20.00nm          4.9mb
JSC    43.73  28 ePc    49 32.00   0.0
BONR   43.77 344 P      49 33.50   0.8
TKL    43.80  24 P      49 32.00  -0.6
SIV    43.91 109 P      49 32.20  -1.7
LHS    44.11  28 P      49 34.80  -0.3
CMB    44.46 342 ePc    49 38.50   0.5
                    e      49 46.50
ORV    46.20 341 eP     49 53.00   1.2
                    e      49 59.30
BW06   46.81 354 P      49 57.00   0.2
       1.0s     10.00nm          4.8mb
WDC    47.47 341 ePc    50 00.80  -1.0
RSSD   47.89   0 iPd    50 05.50   0.2
       0.9s     32.53nm          5.4mb
LBFM   47.95 342 P      50 06.00   0.1
LRM    50.15 352 eP     50 22.10  -0.6
LON    52.89 345 P      50 41.80  -1.5
BMW    53.03 344 P      50 43.50  -0.8
NEW    53.27 349 P      50 44.30  -1.7
       1.0s     26.25nm          5.1mb
     Z  20s      4.00um          5.5Msz
PPD    54.15 114 eP     50 52.90   0.1
                    e      51 01.60
SES    54.50 355 eP     50 54.00  -0.9
PNT    54.78 348 iPd    50 57.20   0.2
       1.0s     41.00nm          5.4mb
BAO    56.32 106 ePc    51 08.20  -0.6
FFC    58.53   1 eP     51 21.00  -2.6
       1.1s     25.00nm          5.2mb
SOB1   62.93  98 ePc    51 53.00  -1.3
YKA    66.78 355 eP     52 16.20  -2.2
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       0.9s     10.30nm          5.0mb
AIA    67.34 163 eP     52 21.50  -0.4
PMR    73.95 339 P      53 01.00  -0.9
       0.8s     24.14nm          5.3mb
     Z  20s      2.00um          5.4Msz
PDB    74.69 336 P      53 05.50  -0.7
INK    74.99 349 eP     53 06.00  -1.8
MBC    80.60 356 ePd    53 38.90   0.3
       1.0s     19.00nm          5.1mb
SBA    85.95 192 (P)    54 17.00  11.0X
SPA    86.04 180 eP     54 09.00   2.2
       1.0s     17.00nm          5.2mb
SMY    88.19 323 P      54 20.00   2.8X
     Z  20s      6.00um          6.0Msz
WRA   117.89 245 PKP    00 27.00  12.7X
       1.0s      1.70nm
CN2   121.09 320 ePKP   00 18.00  -1.6
     Z  22s      2.10um          5.7Msz
BJI   128.95 320 ePKP   00 33.50  -1.3
     Z  24s      1.59um          5.6MszX
     N  20s      1.12um
TIY   132.68 320 ePKP   00 45.80   3.7X
GTA   138.61 332 ePKP   00 50.40  -3.0X
LZH   138.97 325 e(PKP)01 00.00   5.8X
     Z  22s      1.25um          5.6Msz
     E  20s      1.09um
WMQ   138.99 347 PKP    00 55.00   1.1
MAIO  144.47  23 ePKP   01 04.00   0.3
KSH   144.70 360 ePKP   01 00.00  -4.1X
KMI   146.73 312 ePKP   01 07.00  -1.0
LSA   150.63 332 PKP    01 18.10   3.8X
QUE   152.60  17 ePKP   01 18.10   1.3
CHG   153.09 305 ePKP   01 24.40   6.9X
                    e      14 38.20
BDT   153.80 302 ePKP   01 18.50   0.0
GBA   170.33 351 PKPd   01 36.90   2.1
       1.1s      6.40nm
     S.D. = 1.2  on  71 of  86 obs.
-----------------------------------
?  JUL  17, 1991  16h 52m 54.03± 7.38s
    15.281 N ±32.5km   92.026 W ±57.1km
    DEPTH = 179.0 ± 54.9 km
  MEXICO-GUATEMALA BORDER REGION  ( 62)

TPX     0.44 211 iP     53 19.50  -0.2
                    iS     53 41.50
SCX     1.56 338 iP     53 27.50   0.7
                    iS     53 52.00
PBJ     3.45 290 iP     53 48.00  -0.7
                    (S)    54 29.50
OXX     4.86 292 iP     54 07.50   0.5
                    iS     55 01.00
LVVM    6.12 317 iP     54 22.00  -1.4
IISM    6.31 307 eP     54 24.50  -1.3
                    iS     55 33.00
IIT     7.06 303 iP     54 37.50   1.3
PPM     7.35 302 iP     54 41.25   1.1
     S.D. = 1.4  on   8 of   8 obs.
-----------------------------------
?  JUL  17, 1991  16h 54m 35.20± 1.38s
    3.702 S ±27.1km  103.230 W ±31.2km
    DEPTH =  10.0km  (geophysicist)
    4.6mb (  5 obs.)
  NORTHERN EASTER I. CORDILLERA   (694)

LPB    36.78 113 eP     01 47.00   1.3
CNCB   36.96 113 P      01 48.00   0.6
GLA    38.17 344 eP     02 01.00   4.3X
ALQ    38.56 356 eP     02 01.50   1.4
       1.0s      3.75nm          4.1mb
RVR    39.80 342 eP     02 14.00   3.8X
TUL    40.02   9 eP     02 13.40   1.4
       2.2s     39.70nm          4.7mb
SBB    40.58 341 eP     02 16.00  -0.8
GSC    40.84 343 eP     02 23.00   4.1X
CLC    41.55 342 eP     02 29.00   4.3X
ISA    41.68 341 eP     02 25.00  -0.8
PRI    42.86 339 e(P)   02 39.00   3.5X
SIV    43.19 109 P      02 38.00  -0.4
GOL    43.23 358 P      02 44.00   5.4X
FRI    43.30 341 eP     02 42.30   3.4X
CMB    44.47 341 eP     02 51.00   2.5
ORV    46.22 340 e(P)   03 06.70   4.4X
PPD    53.49 115 (P)    04 04.00   5.7X
SES    54.30 354 eP     04 02.00  -1.9
BAO    55.57 106 e(P)   04 12.00  -1.8
YKA    66.58 354 eP     05 25.50  -1.9
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```
       0.9s      3.60nm          4.6mb
INK    74.88 349 eP     06 17.00  -0.5
MBC    80.38 356 eP     06 48.00   0.2
       1.0s      7.00nm          4.6mb
SPA    86.32 180 eP     07 24.00   5.4X
       1.0s     11.00nm          5.0mb
WRA   118.80 245 PKP    13 27.00   0.6
       2.7s      0.90nm
MAIO  143.86  24 ePKP   14 16.00   2.9X
     S.D. = 1.5  on  14 of  25 obs.
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    JUL  17, 1991  17h 27m 32.66± 0.35s
     7.234 S ± 7.4km   67.978 E ± 5.6km
    DEPTH =  10.0km  (geophysicist)
    4.8mb ( 33 obs.)  5.0Msz (  3 obs.)
  MID-INDIAN RISE                   (429)

KOD    19.76  29 eP     32 00.50  -5.7X
GBA    22.73  24 Pd     32 35.00  -1.2
       1.0s     15.90nm          4.5mb
HYB    26.63  23 eP     33 08.00  -5.5X
PTZ    36.63 256 eP     34 41.00  -0.5
                    i      35 47.00
QUE    37.22 359 eP     34 48.00   1.6
LSZ    39.78 255 iPd    35 09.00   1.1
                    i      35 15.00
CHG    40.03  49 eP     35 10.90   1.1
SLR    42.05 239 iPd    35 26.50   0.0
LSA    42.95  30 eP     35 34.00  -0.2
MAIO   44.03 350 eP     35 43.00   0.6
IR4    45.21 340 eP     35 52.00   0.0
IR1    45.44 340 eP     35 53.00  -0.8
IR7    45.73 340 ePc    35 56.00  -0.1
FRS    45.87 235 eP     35 56.60  -0.5
TAB    49.38 337 eP     36 25.00   0.4
GYA    50.30  47 eP     36 31.40  -0.4
     N  20s      1.30um
     E  20s      1.40um
                    S      43 45.00
CD2    51.11  40 P      36 37.60  -0.2
                    eS     43 57.00
WMO    53.86  18 eP     37 00.00   1.8
     Z  18s      1.30um          5.0Msz
                    pP     37 05.00  16kmX
GTA    54.98  30 P      37 06.80   0.2
       1.2s     10.00nm          4.7mb
     Z  22s      1.50um          5.0Msz
     N  15s      0.60um
                    pP     37 14.00  24kmX
                    sP     37 20.00
XAN    56.45  41 P      37 16.40  -0.8
TIY    60.96  39 eP     37 47.30  -1.2
     Z  24s      0.95um          4.9MszX
     E  20s      0.73um
BTO    61.32  36 eP     37 51.00   0.0
     Z  15s      2.00um          5.4MszX
     N  18s      0.60um
     E  18s      0.80um
HHC    62.38  36 eP     37 58.80   0.7
     Z  36s      1.60um          4.9MszX
     N  20s      1.10um
     E  18s      0.60um
VRI    64.43 329 ePc    38 10.00  -1.4
MLR    64.57 329 eP     38 11.00  -1.5
BJI    64.69  39 eP     38 13.00  -0.1
SKO    64.81 323 eP     38 09.20  -4.8X
                    e      38 11.00
WRA    65.38 109 P      38 18.00   0.0
       0.8s      4.10nm          4.7mb
WR2    65.40 109 eP     38 16.10  -2.0
       0.8s      4.30nm          4.7mb
IRK    66.89  23 eP     38 27.70   0.6
                    e      38 34.80
OBN    67.39 341 eP     38 37.00   6.8X
       1.5s   *******nm          8.4mb X
     Z  22s      0.70um          4.8Msz
     N  20s      1.00um
     E  20s      0.30um
                    LR     39 00.00
SRO    70.10 327 eP     38 44.60  -2.4
SNY    70.38  41 eP     38 48.20  -0.7
KRA    70.61 329 eP     38 49.20  -0.9
ZST    70.98 327 eP     38 52.00  -0.4
KSP    72.95 329 eP     39 03.20  -0.9
PRU    73.38 327 eP     39 07.50   0.9
                    e      39 13.40
KHC    73.44 326 iPc    39 06.00  -1.1
```

17d 17h

1.3s 6.60nm 4.5mb
e 39 13.50
WTTA 73.57 324 iPd 39 07.10 -0.9
1.2s 54.40nm 5.5mb
i 39 15.00
FIC 73.79 279 P 39 09.18 -0.5
0.9s 9.00nm 4.8mb
LIC 74.05 279 P 39 10.74 -0.5
TIC 74.11 279 P 39 11.06 -0.5
BRG 74.19 328 iP 39 11.00 -0.3
i 39 18.70
FUR 74.23 324 iPc 39 11.60 -0.1
CLL 74.93 328 iPc 39 15.70 0.1
1.5s 29.00nm 5.1mb
i 39 22.90
GRF 75.04 326 ePd 39 16.00 -0.3
1.4s 38.00nm 5.2mb
e 39 23.70
e 39 30.00
MOX 75.32 327 eP 39 18.20 0.3
LPG 75.70 320 iPc 39 19.80 -0.7
1.2s 14.90nm 4.9mb
LPL 75.72 321 iPc 39 19.80 -0.8
1.2s 20.85nm 5.1mb
KAF 76.23 341 iP 39 22.20 -0.6
0.7s 5.90nm 4.8mb
CDF 76.69 323 eP 39 25.40 -0.4
1.0s 10.00nm 4.9mb
BSF 76.72 323 eP 39 25.20 -0.8
0.8s 6.70nm 4.8mb
SMF 78.02 321 eP 39 32.80 -0.3
0.8s 5.35nm 4.7mb
LBF 78.08 321 eP 39 33.30 -0.1
1.0s 8.00nm 4.8mb
LOR 78.27 321 eP 39 34.50 0.1
1.2s 13.40nm 4.9mb
AVF 78.39 321 eP 39 35.00 0.0
1.0s 6.00nm 4.6mb
SSF 78.40 321 iPc 39 35.20 0.1
1.2s 16.35nm 5.0mb
CAF 78.49 319 eP 39 36.40 0.7
1.0s 9.00nm 4.8mb
BGF 78.62 320 iPc 39 36.80 0.5
1.2s 41.65nm 5.4mb
MAF 78.66 320 iPc 39 37.00 0.4
1.0s 6.00nm 4.6mb
EPF 78.95 316 eP 39 39.20 0.9
LPO 78.97 318 eP 39 39.00 0.7
1.0s 18.00nm 5.1mb
RJF 78.99 319 eP 39 39.20 0.8
1.0s 14.00nm 4.9mb
LSF 79.34 320 eP 39 41.00 0.7
1.0s 9.00nm 4.7mb
LFF 79.36 318 eP 39 41.20 0.8
1.0s 24.00nm 5.2mb
HFS 79.54 336 eP 39 40.70 -0.3
0.8s 9.70nm 4.9mb
MFF 80.54 320 eP 39 47.40 0.7
1.0s 8.00nm 4.7mb
NB2 81.06 336 P 39 50.30 1.1
0.9s 1.90nm 4.1mb
LDF 81.25 321 eP 39 50.80 0.4
1.0s 12.00nm 4.9mb
FLN 81.53 322 eP 39 52.40 0.6
LPF 81.62 321 eP 39 52.80 0.5
1.1s 19.55nm 5.1mb
GRR 81.63 321 eP 39 52.80 0.5
1.1s 19.55nm 5.1mb
EKA 85.38 327 Pd 40 11.50 0.2
0.7s 1.60nm 4.3mb
YKA 124.82 1 ePKP 46 33.20 -0.8
0.8s 1.90nm
WDC 145.49 14 ePKP 47 13.70 0.7
e 47 19.70
MIN 145.93 13 ePKP 47 14.92 0.9
ORV 146.71 13 ePKP 47 16.90 1.8
GOL 147.13 351 PKP 47 17.80 1.7
UPA 147.80 275 ePKP 47 21.50 4.0X
TUL 147.82 335 ePKP 47 18.10 1.2
1.2s 29.40nm
CMB 148.42 13 ePKPd 47 21.90 4.0X
TNP 148.93 8 (PKP) 47 26.00 7.1X
FRI 149.56 12 ePKP 47 25.30 5.7X
PRS 149.80 15 ePKP 47 26.40 6.4X
MEO 149.92 338 iPKPc 47 25.50 5.2X
PRI 150.16 14 ePKP 47 27.30 6.6X
ISA 151.09 11 ePKP 47 29.00 6.9X

CLC 151.10 9 ePKP 47 29.00 6.9X
GSC 151.72 8 ePKP 47 31.00 7.9X
SBB 152.16 10 ePKP 47 31.00 7.3X
S.D. = 0.9 on 75 of 90 obs.

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* JUL 17, 1991 17h 35m 52.35± 0.62s
3.815 N ±14.1km 63.315 E ± 6.9km
DEPTH = 10.0km (geophysicist)
5.0mb (25 obs.) 4.7Msz (1 obs.)
CARLSBERG RIDGE (421)

QUE 26.46 7 P 41 31.50 -0.1
MAIO 32.52 354 eP 42 32.80 7.1X
CHG 37.87 64 eP 43 12.80 1.3
WMQ 45.30 25 P 44 12.50 0.3
Z 18s 0.90um 4.7Msz
pP 44 18.50 20kmX
XAN 51.94 49 P 45 03.00 -0.8
VRI 52.62 328 ePc 45 10.00 1.3
MLR 52.79 328 eP 45 11.50 1.4
SKO 53.27 322 eP 45 13.50 -0.1
BTO 55.67 42 eP 45 32.00 0.7
TIY 56.07 46 eP 45 33.60 -0.6
BJI 59.68 45 eP 45 59.00 -0.4
PRU 61.64 327 eP 46 12.00 -0.6
KHC 61.74 325 iPc 46 12.30 -1.1
1.3s 6.00nm 4.6mb
BRG 62.43 327 eP 46 18.40 0.5
1.2s 9.00nm 4.8mb
CLL 63.17 327 iPc 46 23.00 0.3
1.7s 29.00nm 5.2mb
LPG 64.30 319 eP 46 32.40 1.7
1.2s 13.40nm 5.0mb
LPL 64.32 319 eP 46 32.40 1.7
1.4s 17.45nm 5.1mb
CDF 65.12 322 eP 46 35.60 -0.1
1.4s 21.80nm 5.2mb
BSF 65.19 322 eP 46 35.60 -0.5
1.2s 11.90nm 5.0mb
HAU 65.53 322 eP 46 37.60 -0.6
SMF 66.60 320 eP 46 44.40 -0.7
1.2s 14.90nm 5.1mb
LBF 66.64 320 eP 46 45.00 -0.4
1.4s 21.80nm 5.2mb
LOR 66.81 320 eP 46 46.00 -0.5
1.4s 17.45nm 5.1mb
SSF 66.97 320 eP 46 47.10 -0.3
1.0s 6.00nm 4.7mb
AVF 66.97 320 eP 46 46.80 -0.6
1.2s 5.95nm 4.7mb
CAF 67.20 317 eP 46 49.20 0.2
1.2s 7.45nm 4.8mb
BGF 67.22 319 iPc 46 48.90 -0.1
1.4s 32.65nm 5.3mb
MAF 67.29 319 eP 46 49.40 -0.1
HFS 67.62 336 eP 46 49.20 -2.1
0.9s 10.40nm 5.0mb
RJF 67.69 318 eP 46 52.10 0.1
1.2s 14.90nm 5.1mb
LPO 67.72 317 eP 46 52.60 0.4
1.2s 14.90nm 5.1mb
LSF 67.98 319 eP 46 53.90 0.1
1.4s 21.80nm 5.2mb
LFF 68.10 317 eP 46 55.20 0.6
1.2s 14.90nm 5.1mb
NB2 69.14 336 P 47 00.00 -0.8
1.3s 8.10nm 4.7mb
MFF 69.19 319 eP 47 01.60 0.3
1.4s 17.45nm 5.0mb
LDF 69.78 321 eP 47 04.80 0.0
1.3s 18.05nm 5.1mb
FLN 70.06 321 eP 47 06.20 -0.3
GRR 70.18 320 eP 47 07.20 -0.1
LPF 70.19 320 eP 47 07.60 0.2
1.3s 21.65nm 5.1mb
WRA 73.57 112 P 47 28.00 0.0
1.0s 5.10nm 4.5mb
WR2 73.59 112 eP 47 28.10 -0.1
1.1s 2.70nm 4.2mb
S.D. = 0.8 on 40 of 41 obs.

JUL 17, 1991 17h 50m 28.14± 0.66s
49.132 N ± 6.1km 6.881 E ± 8.8km
DEPTH = 10.0km (geophysicist)
GERMANY (543)
ML 2.5 (STR). MD 2.4 (UCC).

GWF 0.51 107 Pg 50 37.71 -0.8
WLF 0.71 319 iPd 50 40.88 -1.3
iS 50 50.44
CDF 0.77 160 Pg 50 42.03 -1.1
ECH 0.93 169 Pg 50 45.35 -0.7
VITF 1.09 213 Pg 50 47.97 -0.7
Sg 51 03.12
MOF 1.29 172 Pg 50 52.26 0.1
Sg 51 10.35
FEL 1.46 149 Pg 50 55.57 0.9
Sg 51 15.30
MEM 1.58 339 iP 50 56.60 0.4
ENN 1.75 340 ePn 51 00.00 1.3
0.7s 8.00nm
eSn 51 20.00
DOU 1.77 304 P 50 58.60 -0.4
LOMF 1.78 181 Pg 51 01.62 2.3
SNF 2.18 310 P 51 09.10 4.2X
S.D. = 1.3 on 11 of 12 obs.

JUL 17, 1991 18h 03m 51.61± 1.93s
43.197 N ±10.2km 126.649 W ±12.5km
DEPTH = 10.0km (geophysicist)
3.4mb (1 obs.)
OFF COAST OF OREGON (30)

DBO 2.49 91 Pd 04 32.49 -0.5
HSO 2.62 82 P 04 34.21 -0.5
HBO 3.21 77 P 04 43.59 0.3
KMOR 3.33 42 P 04 43.99 -0.8
S 05 24.66
NLO 3.68 37 P 04 49.74 -0.1
GT2 3.71 57 P 04 50.83 0.6
S 05 37.40
PGO 3.77 52 P 04 51.73 0.7
S 05 38.04
TCO 3.78 74 P 04 51.61 0.3
VLMM 4.05 53 P 04 55.61 0.6
S 05 44.28
RVW 4.06 42 P 04 55.12 0.0
TDH 4.07 57 P 04 55.89 0.5
S 05 46.12
BMW 4.08 35 P 04 54.49 -1.0
VBEM 4.09 61 P 04 55.77 0.1
LVP 4.17 45 P 04 57.01 0.2
VLL 4.22 56 P 04 58.31 0.7
MTMW 4.25 47 P 04 57.77 -0.1
S 05 49.02
VFP 4.29 59 P 04 59.56 1.0
FL2 4.29 44 P 04 58.84 0.3
GMO 4.30 71 P 04 58.39 -0.4
SHW 4.34 45 P 04 59.67 0.4
JLK 4.36 46 P 04 59.61 0.2
HSR 4.36 45 P 05 00.04 0.5
ERK 4.37 43 P 04 59.69 0.1
APM 4.37 53 Pc 05 00.08 0.5
CZM 4.38 41 P 04 59.68 0.0
STD 4.38 45 P 05 00.08 0.3
ESD 4.39 45 P 05 00.40 0.4
CDFW 4.39 47 P 04 59.98 0.1
S 05 53.82
SOSW 4.42 45 P 05 00.25 -0.2
CROR 4.45 64 P 05 00.26 -0.5
TDL 4.46 43 P 05 01.01 0.1
CPW 4.52 32 P 05 01.07 -0.6
GULW 4.53 51 P 05 02.12 0.3
KOSW 4.55 43 P 05 02.43 0.3
VIPM 4.55 71 P 05 01.93 -0.4
LMW 4.65 40 P 05 03.40 -0.2
ASR 4.66 49 P 05 04.08 0.3
VGB 4.81 59 P 05 05.73 -0.1
VTHM 4.81 64 P 05 05.63 -0.2
GLK 4.92 45 P 05 07.62 0.2
LON 4.94 42 P 05 08.07 0.4
REMR 4.97 42 P 05 08.42 0.2
S 06 07.35
GL2 5.00 54 P 05 08.54 0.1
WPW 5.04 44 P 05 09.12 0.0
S 06 08.19
OSD 5.07 23 P 05 08.65 -0.9
FMW 5.14 42 P 05 10.66 0.1
GSM 5.27 39 P 05 12.27 -0.2
S 06 14.70
JBO 5.39 63 P 05 13.54 -0.4
NAC 5.44 47 P 05 14.87 0.1
RMW 5.46 37 P 05 14.59 -0.5
PATW 5.61 59 P 05 17.02 0.0

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MXC      5.64  51 P      05 17.51   0.0
EBG      5.69  47 P      05 18.39   0.2
HTW      5.74  35 P      05 18.02  -1.0
BRVW     5.76  53 P      05 19.24   0.0
TBM      5.84  45 P      05 20.86   0.5
RSW      5.95  55 P      05 21.61  -0.4
JCW      5.99  32 P      05 21.96  -0.5
GBL      6.13  54 P      05 24.52   0.1
ETW      6.26  43 P      05 26.58   0.2
CRF      6.30  52 P      05 26.60  -0.1
RC1      6.33  51 P      05 27.76   0.4
RPW      6.36  33 P      05 26.73  -1.0
ET3      6.44  56 P      05 28.40  -0.4
MBW      6.49  29 P      05 30.32   0.6
WTV      6.51  44 P      05 29.48  -0.4
LNOR     6.55  63 P      05 29.31  -1.1
DPW      7.55  49 P      05 43.34  -1.0
YKA     20.59  16 eP     08 34.20   1.2
         0.7s      1.20nm          3.4mb
      S.D. = 0.5  on  69 of  69 obs.
-----------------------------------------
&  JUL  17, 1991  18h 34m 22.55s
   36.943 N          121.425 W
   DEPTH =   9.1km
 CENTRAL CALIFORNIA                  ( 39)
      <GM-P>. MD 2.5 (GM).

SAO      0.18 185 iPd    34 27.11   0.6
ARN      0.41 348 iPc    34 31.00   0.0
GCC      0.47 281 iPc    34 31.65  -0.3
                  eS     34 38.32
PRS      0.61 176 iPc    34 35.44   0.6
                  eS     34 43.60
PCC      0.94 306 iPd    34 40.27  -0.3
                  iS     34 56.67
PRI      1.01 142 iPc    34 42.94   1.2
                  iS     35 02.36
BKS      1.13 326 iPd    34 42.76  -1.1
CMB      1.37  37 ePc    34 46.71  -1.1
                  eS     35 04.46
FRI      1.38  87 iPc    34 47.07  -0.8
                  iS     35 04.33
         9 obs. associated
-----------------------------------------
   JUL  17, 1991  18h 54m 17.24± 0.50s
    3.786 N ±10.5km   63.280 E ± 4.6km
   DEPTH =  10.0km  (geophysicist)
   5.0mb ( 24 obs.)  4.4Msz (  8 obs.)
 CARLSBERG RIDGE                     (421)

KOD     15.46  65 eP     58 04.00   6.6X
                  eS     01 32.00
GBA     17.04  54 Pc     58 19.80   2.5
         1.1s     11.70nm          3.9mb X
HYB     20.19  47 eP     58 54.00  -1.1
AAE     24.90 283 eP     59 49.50   7.2X
QUE     26.49   7 eP     00 00.70   3.9X
NAI     26.93 260 ePd    00 06.00   4.9X
                  eS     04 44.00
MAIO    32.54 354 eP     00 53.00   2.2
LSA     36.89  43 Pc     01 28.00  -0.5
TAB     37.47 338 eP     01 34.00   1.0
BDT     37.49  66 eP     01 34.00   0.9
CHG     37.91  64 eP     01 37.80   1.0
         1.3s     28.37nm          4.9mb
LSZ     39.57 241 eP     01 53.00   2.2
KMI     43.44  57 Pd     02 25.00   2.4
         2.0s     54.00nm          5.0mb
WMO     45.34  25 P      02 38.50   1.1
         1.5s     20.00nm          4.8mb
      Z  26s      0.70um          4.5MszX
      E  14s      0.60um
                   pP     02 45.00  22kmX
                   sP     02 50.00
                   PcP    04 18.00
                   S      09 24.00
GYA     47.22  57 P      02 51.40  -1.2
      N  18s      0.30um
      E  18s      0.50um
                   S      09 43.00
GTA     48.50  38 eP     03 02.00  -0.5
         1.0s     10.00nm          4.8mb
      Z  22s      1.80um          5.0Msz
      N  16s      0.90um
                   pP     03 09.00  23kmX
                   S      10 08.00
XAN     51.98  49 P      03 28.00  -1.1
VAY     52.20 322 eP     03 31.00   0.5
VRI     52.63 328 ePd    03 34.50   0.8
MLR     52.79 328 eP     03 36.50   1.4
SKO     53.27 322 eP     03 38.70   0.2
OBN     55.52 342 eP     03 55.00   0.3
         2.0s  *******nm          8.3mb X
      Z  18s      0.40um          4.5Msz
                   e      04 10.00
BTO     55.72  42 eP     03 57.00   0.5
      N  14s      0.30um
      E  14s      0.30um
                   ePP    06 05.00
                   eS     11 43.00
TIY     56.11  46 eP     03 58.40  -1.0
      Z  20s      0.50um          4.6Msz
      N  20s      0.90um
                   S      11 45.00
HHC     56.88  43 eP     04 04.80  -0.1
      Z  18s      1.10um          5.0Msz
      N  15s      0.40um
      E  16s      0.50um
SRO     58.38 326 iP     04 16.00   0.9
KRA     58.81 329 eP     04 17.80  -0.3
TIA     59.02  50 eP     04 19.30  -0.5
IRK     59.05  28 eP     04 19.30  -0.4
ZST     59.27 326 e(P)   04 22.00   0.7
BJI     59.72  45 eP     04 24.00  -0.6
         1.5s     30.00nm          5.2mb
      Z  16s      0.50um          4.7MszX
                   eS     12 40.00
SSE     60.76  56 eP     04 43.00  11.2X
KSP     61.17 328 eP     04 34.50   0.3
PRU     61.65 327 eP     04 37.50   0.0
                   e      04 51.00
KHC     61.75 325 iP     04 37.00  -1.3
                   e      04 52.50
BRG     62.44 327 eP     04 43.10   0.3
         2.0s     40.00nm          5.3mb
                   e      04 59.60
CLL     63.17 327 iP     04 47.80   0.2
         2.1s     73.00nm          5.5mb
GRF     63.36 325 ePc    04 49.00   0.0
      Z  21s      0.06um          3.7MszX
MOX     63.60 326 eP     04 51.00   0.5
         2.2s     52.00nm          5.3mb
                   e      05 07.00
LPG     64.30 319 eP     04 54.90  -0.7
         0.8s      8.05nm          5.0mb
LPL     64.32 319 eP     04 54.90  -0.7
CDF     65.12 322 eP     05 00.20  -0.4
BSF     65.19 322 eP     05 00.20  -0.8
HAU     65.53 322 eP     05 02.40  -0.7
SNY     65.60  45 eP     05 02.80  -0.8
SMF     66.60 320 eP     05 09.40  -0.6
         1.0s      9.00nm          4.9mb
LBF     66.64 320 eP     05 09.90  -0.4
         0.9s      6.55nm          4.8mb
LOR     66.81 320 eP     05 11.00  -0.3
         0.9s      8.20nm          4.9mb
      Z  22s      0.10um          4.0Msz
SSF     66.97 320 eP     05 11.90  -0.4
         1.0s     10.00nm          5.0mb
AVF     66.97 320 eP     05 11.70  -0.6
CAF     67.20 318 eP     05 13.80  -0.1
         0.8s      5.35nm          4.8mb
BGF     67.22 319 eP     05 13.80  -0.1
         0.9s     16.40nm          5.2mb
MAF     67.29 319 eP     05 14.30  -0.1
         0.9s      6.55nm          4.8mb
CN2     67.51  44 eP     05 16.60   0.8
HFS     67.63 336 eP     05 14.70  -1.5
         0.8s      8.30nm          5.0mb
      Z  20s      0.18um          4.3Msz
                   LR     34 12.00
RJF     67.69 318 eP     05 17.10   0.2
      Z  22s      0.05um          3.7Msz
LPO     67.72 317 eP     05 17.60   0.5
         0.7s      8.80nm          5.1mb
LSF     67.98 319 eP     05 18.60  -0.1
         0.9s     10.65nm          5.0mb
TIC     68.04 276 (P)    05 20.40   0.8
LFF     68.10 317 eP     05 20.00   0.5
         0.7s      7.70nm          5.0mb
NB2     69.15 336 P      05 24.30  -1.5
         1.5s     19.80nm          5.1mb
MFF     69.19 319 eP     05 26.20   0 0
LDF     69.78 321 eP     05 29.30  -0.4
         1.0s     12.00nm          5.0mb
FLN     70.06 321 eP     05 31.00  -0.4
      Z  22s      0.10um          4.0Msz
GRR     70.18 320 eP     05 31.80  -0.4
LPF     70.19 320 eP     05 32.00  -0.3
WRA     73.59 112 P      05 52.00  -1.1
         2.2s      5.00nm          4.2mb
WR2     73.62 112 iPd    05 53.40   0.2
         0.7s      6.50nm          4.8mb
MAT     75.65  53 eP     06 04.00  -0.7
YAK     75.76  26 iPc    06 03.60  -1.1
      S.D. = 0.9  on  65 of  70 obs.
-----------------------------------------
%  JUL  17, 1991  20h 03m 25.54± 2.97s
   39.082 N ±21.1km   23.704 E ±19.8km
   DEPTH =  33.0km  (normal)
 AEGEAN SEA                          (365)

PAIG     0.84 359 ePc    03 40.60  -0.4
                  eS     03 51.04
AGG      1.07 267 iPc    03 44.21  -0.1
                  eS     03 57.76
OUR      1.27  10 ePc    03 47.60   0.6
LIT      1.38 318 ePd    03 49.16   0.4
                  eS     04 05.96
THE      1.65 340 ePd    03 52.48  -0.1
SOH      1.76 351 ePd    03 54.16   0.0
                  eS     04 15.44
SRS      2.03 358 ePd    03 57.93  -0.2
                  eS     04 21.48
GRG      2.12 332 ePd    03 59.48   0.1
KNT      2.17 344 ePd    03 59.84  -0.2
      S.D. = 0.4  on   9 of   9 obs.
-----------------------------------------
   JUL  17, 1991  20h 05m 49.61± 0.53s
   37.112 N ± 6.2km   20.794 E ± 3.4km
   DEPTH =  10.0km  (geophysicist)
   4.4mb ( 12 obs.)
 IONIAN SEA                          (399)
      MD 4.2 (ATH). ML 4.2 (ROM).

VLS      1.08 351 eP     06 10.30   0.4
VLI      1.76 102 eP     06 23.00   2.6
AGG      2.26  32 ePc    06 30.54   2.9
                  eS     06 57.82
IGT      2.44 352 ePd    06 31.42   1.3
                  eS     07 02.58
ATH      2.48  69 eP     06 33.10   2.5
KEK      2.71 344 eP     06 35.50   1.5
LIT      3.27  23 ePc    06 42.74   0.8
                  eS     07 22.38
PAIG     3.61  38 ePd    06 46.78   0.1
                  eS     07 30.02
FNA      3.69   7 ePc    06 48.94   0.9
                  eS     07 31.02
GRI      3.85 298 P      06 50.91   0.7
SOI      3.88 286 P      06 51.40   0.8
                  eSn    07 31.50
THE      3.90  25 ePc    06 50.78  -0.1
                  iS     07 36.62
LCI      3.91 326 P      06 50.60  -0.3
                  eSn    07 31.00
GRG      4.04  18 ePc    06 53.10   0.3
                  eS     07 40.30
OUR      4.07  37 ePc    06 53.18   0.0
ROI      4.13 308 P      06 57.80   3.7X
                  eSn    07 42.00
SOH      4.21  28 ePd    06 55.94   0.7
                  iS     07 43.82
CZI      4.23 301 P      06 55.90   0.4
                  eSn    07 37.00
TDS      4.33 307 P      06 59.10   2.2
                  eSn    07 40.50
ATN      4.36 286 P      06 58.50   1.1
KNT      4.36  21 ePc    06 57.89   0.5
VAY      4.42  18 ePn    06 53.00  -5.3X
                  i      06 58.30
CSI      4.42 308 P      07 02.30   4.0X
                  eSn    07 43.50
ORI      4.50 312 P      07 00.60   1.2
                  eSn    07 46.00
SRS      4.55  28 ePd    07 00.10   0.0
MMN      4.68 308 P      07 05.50   3.6X
                  eSn    07 51.60
BRT      4.69 324 P      07 01.90  -0.1
                  eSn    07 52.20
MEU      4.69 272 P      07 02.00  -0.2
```

17d 20h

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                    eSn   07 51.00
PRK     4 81   62 ePb   07 13.00    9.2X
SKO     4.88    6 iPnc  07 04.40   -0.4
      0.8s    172.00nm
                    i   08 02.50
                    i   08 04.00
MNO     4.92 281 P      07 06.00    0.5
                    eSn   07 54.90
BAI     5 03 324 P      07 05.50   -1.4
MGR     5 09 308 P      07 08.80    1.0
                    eSn   07 59.50
EZN     5.12   56 eP    07 09.00    0.9
IZM     5.28   74 eP    07 00.60  -10.0X
GIB     5.45 281 P      07 14.20    1.3
RDO     5.46   41 eP    07 12.60   -0.4
SGO     5.49 310 P      07 14.60    1.2
USI     6.23 287 P      07 22.80   -1.0
DUI     6.69 315 P      07 30.80    0.5
RFI     6.74 310 P      07 31.21    0.2
HVAR    6.91 333 ePn    07 30.50   -2.9X
                    iSn   08 46.20
SDI     7.09 312 P      07 35.10   -0.8
BEO     7.71 358 eP     07 40.50   -4.0X
MLR     9.22   23 eP    08 05.00   -0.7
VBY     9.36 335 e(Pn)  08 05.00   -2.4
                    eSn   09 47.40
VRI     9.81   25 eP    08 12.50   -1.2
VOY    10.30 332 e(P)   08 18.70   -1.8
                    eS    10 08.70
KHC    13.11 339 iP     08 57.50   -0.9
                    e   09 36.00
PRU    13.64 343 eP     09 09.00    3.7X
                    e   09 14.00
GRF    14.35 334 eP     09 22.60    7.8X
      1.1s     13.00nm          4.5mb
    Z  17s      0.10um          4.7MszX
BRG    14.60 343 eP     09 25.70    7.7X
BSF    14.86 321 eP     09 20.80   -0.7
      0.8s      8.05nm          4.3mb
CDF    15.01 323 eP     09 23.00   -0.4
      0.8s      8.05nm          4.2mb
MOX    15.04 337 eP     09 28.00    4.2X
HAU    15.20 320 eP     09 24.90   -0.9
      0.7s      5.50nm          4.1mb
CLL    15.24 341 eP     09 31.00    4.7X
      1.4s     16.00nm          4.2mb
HFS    23.49 351 eP     10 58.00   -2.0
      0.5s     10.30nm          4.6mb
IR7    24.00   84 eP    11 05.00   -0.3
IR5    24.08   86 eP    11 07.00    0.8
IR1    24.12   85 eP    11 06.00   -0.6
IR4    24.33   85 eP    11 09.00    0.4
EKA    24.43 326 P      11 09.00   -0.1
      0.8s      4.50nm          4.2mb
NB2    24.70 349 P      11 10.50   -1.4
      0.7s      3.40nm          4.1mb
KAF    25.26    6 iP    11 16.10   -1.0
      0.7s     10.90nm          4.7mb
GKN    53.69   80 P     15 13.00   -1.0
      1.0s     30.00nm          5.2mb
DMN    54.24   80 P     15 17.40   -0.8
      0.8s     27.00nm          5.3mb
PKI    54.49   80 P     15 18.00   -2.2
LSA    58.00   75 eP    15 42.00   -3.4X
GTA    60.14   61 eP    15 57.40   -2.4
      0.8s     10.00nm          5.0mb
CD2    66.97   68 eP    16 43.20   -1.5
CN2    74.46   47 eP    17 28.90   -0.8
                    epP   17 37.00   26kmX
     S.D. = 1.2   on  58 of  72 obs.
-----------------------------------------
&  JUL  17, 1991  20h 14m 32.80s
   53.486 N          134.973 W
   DEPTH =  10.0km  (geophysicist)
   4.1mb (  1 obs.)
 QUEEN CHARLOTTE ISLANDS REGION  ( 22)
      <PGC>. ML 3.9 (PGC).

NDB     1.30   68 Pd    14 57.00    0.2
                    S   15 14.50
LIB     1.37   55 P     14 57.80   -0.1
                    S   15 15.30
PCB     1.45   80 Pd    15 00.00    0.9
                    S   15 19.50
VIB     1.48   98 P     14 58.90   -0.6
                    S   15 19.20
MSTB    1.77   72 P     15 03.80    0.1
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CWB     1.82   99 P      15 04.20   -0.1
                    S   15 28.00
BNB     2.15 114 P      15 07.50   -1.7
                    S   15 37.00
BNAB    2.59   88 P     15 14.70   -0 7
FKBC    4.14   35 Pd    15 36.80   -0.8
                    S   16 24.00
BOB     4 46   35 P     15 41.90   -0.2
TCBC    4.91   24 P     15 47.20   -1.3
                    S   16 41.20
DLB     5.67   27 P     15 58.20   -1.0
                    S   17 00.40
PLBC    6.04 353 P      16 00.80   -3.4
                    S   17 03.00
YKA    14.01   42 eP    17 51.00   -2.3
      0.6s      2.10nm          4.1mb
INK    14.89    2 eP    18 18.00   13.3
      15 obs. associated
-----------------------------------------
%  JUL  17, 1991  20h 49m 36.33± 1.17s
   43.267 N ±15.3km     8.165 E ±11.7km
   DEPTH =  10.0km  (geophysicist)
 CORSICA                            (380)

SBF     0.80 319 Pg     49 51.90    0.0
                    Sg  50 01.60
PGF     0.94 139 Pn     49 54.40    0.0
                    Sn  50 06.60
FRF     1.14 285 Pg     49 57.80    0.1
                    Sg  50 11.60
LMR     1.21 274 Pg     49 59.20    0.3
                    Sg  50 13.50
LRG     1.33 279 Pg     50 00.40   -0.4
                    Sg  50 17.00
     S.D. = 0.4   on   5 of   5 obs.
-----------------------------------------
*  JUL  17, 1991  21h 16m 09.42± 1.52s
   12.795 N ±16.5km   88.138 W ±14.1km
   DEPTH =  62.9 ± 10.0 km
   4.8mb (  6 obs.)
 OFF COAST OF CENTRAL AMERICA     ( 76)
      Felt (II) at San Salvador, El
      Salvador.

VSM     0.64 348 eP     16 25.20    1.6
OZA     1.11 311 iPd    16 28.10   -1.2
SJAS    1.32 311 iPc    16 31.40   -0.9
VSS     1.43 311 eP     16 33.80    0.1
TME     1.70 316 iPd    16 37.20   -0.2
YPE     2.00 311 eP     16 41.20   -0.5
TPX     4.52 298 iP     17 19.00    2.0
                    iS  17 55.50
SCX     5.85 313 (P)    18 15.00   39.3X
PBJ     7.91 298 (P)    18 01.50   -2.8
                    iS  19 21.50
OXX     9.33 298 (P)    18 22.50   -1.5
PPM    11.86 303 (P)    19 00.00    1.5
ALO    27.59 326 eP     21 53.50    0.5
      0.8s      3.73nm          4.0mb
ANMO   27.60 326 P      21 53.70    0.7
GOL    30.82 334 P      22 22.00    0.2
      0.9s     38.64nm          5.1mb
LRM    38.83 333 ePc    23 31.50    1.2
SIV    39.17 136 Pc     23 32.60   -0.6
SES    41.91 338 eP     23 56.00    0.7
FFC    43.22 348 iPc    24 06.50    0.6
      0.6s     17.00nm          5.0mb
PNT    44.70 331 eP     24 19.00    1.1
      0.6s     14.00nm          5.0mb
SCH    45.15   17 eP    24 19.00   -2.4
YKA    53.11 345 eP     25 20.90   -1.6
      0.7s      7.20nm          4.8mb
INK    62.68 343 eP     26 28.00   -1.5
                    pP  26 43.00   55kmX
MBC    65.59 352 eP     26 47.50   -0.8
      1.0s      6.00nm          4.5mb
WRA   138.72 254 PKP    35 27.00   -4.0X
      0.6s      1.80nm
ASPA  138.77 249 ePKP   35 32.10    1.0
      0.5s      4.40nm
CHG   147.83 347 ePKP   35 46.90    0.2
BDT   149.33 347 ePKP   35 50.00    1.0
GBA   150.13   29 PKPc  35 54.00    3.8X
      0.6s      2.00nm
KHT   151.80 346 ePKP   35 59.70    6.9X
     S.D. = 1.4   on  25 of  29 obs.
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?  JUL  17, 1991  21h 54m 19.27± 0.98s
   43.999 N ±12.0km    10.819 E ± 6.3km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                      (381)

BDI     0.17 292 P      54 23.20    0.0
                    eSg 54 28.50
PII     0.35 218 P      54 26.50    0.0
                    eSg 54 35.50
SFI     0.75   96 P     54 34.00    0.1
CRE     0.90 114 P      54 36.50   -0.1
                    eSg 54 50.50
     S.D. = 0.1   on   4 of   4 obs.
-----------------------------------------
&  JUL  17, 1991  21h 56m 33.10s
   61.452 N          140.015 W
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN YUKON TERRITORY, CANADA( 18)
      <PGC>. ML 4.1 (PGC), 3.5 (AEIC).

CTGM    0.80 233 eP     56 46.52   -2.3
                    eS  56 57.93
BALM    1.20 251 iP     56 53.58   -2.0
                    eS  57 09.47
HYT     1.37 116 Pc     56 57.10   -1.3
TGL     1.54 244 iP     56 59.29   -1.4
                    eS  57 17.89
CROM    1.67 247 eP     57 01.22   -1.5
                    eS  57 22.71
PNL     1.82 170 iP     57 05.17    0.5
                    eS  57 29.35
GLB     1.82 271 eP     57 05.08    0.3
                    eS  57 24.54
YKU     1.91 176 eP     57 09.00    3.0
      0.8s   1167.20nm
TMW     2.34 325 eP     57 11.69   -0.5
HMT     2.36 244 eP     57 13.98    1.5
WHC     2.49 105 P      57 13.70   -0.7
RAGM    2.51 247 eP     57 16.47    1.8
DWY     2.63    6 P     57 15.80   -0.4
PLBC    2.70 136 P      57 17.00   -0.3
SGAM    2.70 252 eP     57 18.78    1.4
SDG     2.82 295 eP     57 19.40    0.3
KLU     2.83 273 iP     57 20.82    1.5
CVA     2.94 255 eP     57 18.23   -2.4
PAX     2.97 303 eP     57 21.44    0.2
TOA     3.00 285 ePc    57 24.50    2.9
VLZ     3.07 267 eP     57 21.78   -0.6
VZW     3.18 266 eP     57 24.58    0.4
HIN     3.34 254 eP     57 27.63    1.2
MID     3.73 240 eP     57 29.77   -2.2
KNK     4.05 273 eP     57 36.19   -0.3
GHO     4.27 278 eP     57 38.46   -1.2
PLRM    4.37 276 eP     57 41.46    0.5
PMR     4.37 276 eP     57 43.90    3.0
      1.5s   6664.87nm
PMS     4.60 272 eP     57 42.14   -2.2
SLKM    5.06 264 e(P)   57 50.50   -0.3
INK     7.41   19 P     58 22.00   -1.8
      0.5s      5.10nm          5.0mb X
SVW     7.53 274 ePc    58 25.00   -0.5
     32 obs. associated
-----------------------------------------
%  JUL  17, 1991  23h 08m 25.17± 0.86s
   42.967 N ±10.3km   17.913 E ± 6.0km
   DEPTH =   8.7 ±  5.7 km
 ADRIATIC SEA                       (382)
      ML 2.2 (TTG).

BRY     0.47   98 iPgd  08 33.95   -0.7
                    iSg 08 41.18
HCY     0.67 140 iPgd   08 38.15   -0.5
                    iSg 08 48.88
NKY     0.81 101 iPgd   08 40.45   -0.7
                    iSg 08 53.18
BDV     0.96 135 iPgd   08 43.23   -0.3
                    iSg 08 58.10
HVAR    1.09 282 ePg    08 45.60   -0.2
                    iSg 09 01.50
TTG     1.13 118 iPgc   08 46.70    0.3
                    iSg 09 03.43
PLE     1.14   71 iPgc  08 46.40   -0.4
                    iSg 09 03.60
ULC     1.41 135 iPgc   08 51.46    0.4
                    iSg 09 12.95
IVA     1.46   93 iPgd  08 52.28    0.4
                    iSg 09 14.05
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PVY      1.56 103 iPgd  08 54.60   1.3
                  iSg   09 17.75
     S.D. = 0.8  on  10 of  10 obs.
-----------------------------------
?  JUL  17, 1991  23h 32m 13.34± 5.89s
   29.789 S ±24.4km  177.450 W ±44.7km
   DEPTH = 216.5 ± 45.0 km
   3.9mb (  3 obs.)
 KERMADEC ISLANDS                (178)

THZ     14.27 211 eP    35 28.70   1.6
KHZ     14.54 208 eP    35 28.80  -1.5
DZM     16.39 294 iPc   35 53.10   0.0
ASPA    43.62 266 eP    40 00.70   2.5X
        1.0s     4.90nm          3.9mb
WR2     44.53 271 iPd   40 05.80   0.4
        0.4s     4.10nm          4.2mb
WRA     44.55 271 P     40 05.00  -0.5
        1.0s     3.50nm          3.7mb
NB2    148.22 352 PKP   51 30.80   0.1
        0.9s     1.90nm
     S.D. = 1.6  on   6 of   7 obs.
-----------------------------------
%  JUL  17, 1991  23h 37m 01.24± 0.59s
   39.536 N ± 5.4km   28.842 E ± 5.4km
   DEPTH =   9.5 ±  4.5 km
 TURKEY                          (366)
     MD 2.9 (ISK).

OST      0.18 293 iPg   37 04.70  -0.6
                  iSg   37 07.20
IZI      0.94  31 ePn   37 19.00  -0.2
ALT      1.10 116 ePn   37 22.00   0.1
EDC      1.11 317 ePn   37 21.90  -0.1
YLV      1.11  21 ePn   37 21.50  -0.6
KHL      1.32 156 ePn   37 25.70  -0.1
HRT      1.43  26 ePn   37 27.00  -0.4
KGT      1.49 308 ePn   37 28.50   0.3
ISK      1.54   6 ePn   37 29.00   0.2
CTT      1.64 349 ePn   37 31.00   0.7
     S.D. = 0.5  on  10 of  10 obs.
-----------------------------------
*  JUL  17, 1991  23h 41m 48.91± 0.89s
   35.177 S ± 8.1km  179.744 E ±15.8km
   DEPTH =  33.0km  (normal)
   5.2mb (  7 obs.)
 OFF E. COAST OF N. ISLAND, N.Z. (160)
     ML 5.0 (WEL).

HBZ      2.68 205 eP    42 32.40   1.7
PUZ      3.13 202 P     42 39.40   2.4
NOZ      3.70 201 eP    42 46.90   1.8
WLZ      4.27 230 eP    42 57.40   4.1X
NGZ      5.18 218 eP    43 08.20   1.8
MNG      6.39 211 eP    43 21.10  -2.1
                  e     43 40.20
                  eS    44 36.70
KIW      6.84 212 P     43 26.70  -2.8
                  e     43 44.70
                  e     43 53.80
MTW      6.84 208 eP    43 26.80  -2.7
                  e     43 52.90
BLW      7.03 207 eP    43 28.70  -3.5X
WEL      7.25 211 eP    43 40.00   4.9X
                  S     44 54.00
TCW      7.40 214 eP    43 34.20  -3.2X
THZ      8.48 217 eP    43 52.40  -0.1
                  eS    45 28.40
KHZ      8.70 212 eP    43 49.50  -5.9X
DZM     17.49 315 iPc   45 53.90   1.9
BKM     20.22 327 iPc   46 23.30  -0.6
COO     23.80 273 iPc   47 06.00   6.4X
CAN     25.06 261 eP    47 19.40   7.6X
BWA     25.68 263 eP    47 19.10   1.5
RMO     27.89 279 eP    47 42.00   4.1X
        0.9s    48.00nm         5.2mb
QLP     31.52 276 eP    48 12.80   2.6X
STK     31.85 265 iPd   48 16.20   3.2X
        0.6s     5.90nm         4.6mb
CTAO    33.07 288 iP    48 24.00   0.2
        1.0s    22.50nm         5.0mb
QIS     38.09 282 eP    49 06.00  -0.4
ASPA    41.22 273 eP    49 31.50  -0.9
        0.7s    50.10nm         5.4mb
                  eS    55 43.50
WR2     42.62 279 iPc   49 42.70  -1.2
        0.5s    87.60nm         5.7mb
                  i     49 45.90
WRA     42.64 279 P     49 40.00  -4.1X
        0.6s    46.10nm         5.4mb
SPA     55.01 180 iPc   51 19.50   0.2
        1.0s    18.00nm         5.1mb
MAW     67.18 202 eP    52 40.50  -0.8
MBC    117.48  14 ePKP  00 31.00  -0.6
SOD    144.25 343 ePKP  01 15.00  -7.0X
OBN    147.78 320 ePKP  01 24.00  -4.2X
                  e     01 34.00
KAF    148.29 336 iPKP  01 27.10  -1.7
        0.6s     3.60nm
NUR    150.00 335 ePKP  01 32.20   0.7
LIC    150.85 170 PKP   01 34.68   0.5
        0.8s    21.00nm
KIC    151.03 171 PKP   01 35.06   0.6
        0.8s    17.50nm
TIC    151.27 170 PKP   01 35.54   0.7
NB2    153.09 348 PKP   01 39.50   3.4X
        0.7s     5.10nm
     S.D. = 1.6  on  23 of  37 obs.
-----------------------------------
%  JUL  17, 1991  23h 49m 06.73± 1.77s
   15.972 N ±17.3km   97.896 W ± 8.0km
   DEPTH =  33.0km  (normal)
 NEAR COAST OF OAXACA, MEXICO     ( 66)

OXX      1.58  45 iP    49 32.00  -0.9
                  iS    49 52.50
ACX      2.08 296 eP    49 39.50  -0.6
                  iS    50 04.25
PBJ      2.44  79 eP    49 45.50   0.4
                  iS    50 15.50
IISM     3.04   9 iP    49 54.50   0.9
                  iS    50 30.00
IIT      3.06 353 iP    49 53.75  -0.4
                  iS    50 30.00
PPM      3.16 347 eP    49 55.00  -0.7
                  iS    50 33.50
TAC      3.63 340 (P)   50 20.00  17.7X
                  (S)   50 50.00
LVVM     3.99  20 eP    50 07.25   0.1
MRX      4.86 320 (P)   50 20.50   1.1
     S.D. = 0.9  on   8 of   9 obs.
-----------------------------------
%  JUL  18, 1991  01h 16m 25.20± 0.93s
   40.659 N ± 8.8km   29.883 E ± 6.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
     MD 2.5 (ISK).

EYL      0.23 114 ePg   16 30.10  -0.1
                  eSg   16 33.10
HRT      0.23 315 iPg   16 30.00  -0.2
                  iSg   16 32.50
YLV      0.40 257 ePg   16 33.00  -0.4
IZI      0.45 224 ePg   16 34.60   0.2
                  eSg   16 41.10
CTT      1.20 294 ePn   16 48.00   0.4
     S.D. = 0.4  on   5 of   5 obs.
-----------------------------------
&  JUL  18, 1991  01h 41m 54.01s
   63.030 N          151.051 W
   DEPTH = 122.9km
 CENTRAL ALASKA                   (  1)
     <AEIC>.

KTH      0.53   6 iPd   42 12.49  -0.3
                  eS    42 26.20
TRF      0.55  39 iPd   42 12.57  -0.5
                  eS    42 27.18
HUR      0.65  94 ePd   42 12.87  -0.7
                  S     42 27.55
CUT      0.72 150 iPc   42 13.85  -0.2
RND      1.06  68 eP    42 16.93  -0.4
                  S     42 34.72
SKT      1.08 192 iPc   42 16.93  -0.4
                  eS    42 34.50
MCK      1.19  53 ePd   42 17.88  -0.6
BWN      1.35  31 iPd   42 20.04  -0.2
PWA      1.49 158 eP    42 21.80   0.0
SUA      1.58 175 ePc   42 23.03   0.0
GHO      1.60 141 iPc   42 22.57  -0.7
                  iS    42 45.25
PLRM     1.70 147 iPc   42 23.16  -1.2
PMR      1.70 147 iPc   42 23.50  -0.8
NCG      1.71 198 ePd   42 24.10  -0.5
NEA      1.78  29 ePd   42 24.04  -1.3
CGLM     1.79 195 eP    42 25.11  -0.4
                  S     42 49.35
BGL      1.88 200 eP    42 26.71   0.0
SPU      1.91 195 ePc   42 26.13  -0.9
                  S     42 51.08
PMS      1.92 158 ePc   42 26.08  -1.1
                  S     42 50.48
CKL      1.94 199 ePd   42 26.95  -0.4
WRH      1.96  41 ePd   42 26.26  -1.2
KNK      2.03 142 eP    42 26.94  -1.5
                  S     42 53.55
CCB      2.17  40 iPd   42 28.81  -1.4
TTA      2.27 270 eP    42 31.10  -0.4
NKA      2.30 182 eP    42 32.48   0.7
MDM      2.30  31 iPd   42 30.55  -1.4
FBA      2.36  36 ePd   42 31.80  -0.9
TOA      2.44 110 iPc   42 33.30  -0.5
PAX      2.55  89 ePc   42 33.91  -1.3
RDT      2.55 195 eP    42 34.45  -0.7
SLKM     2.56 171 eP    42 34.17  -1.1
DFR      2.57 198 eP    42 36.19   0.8
SDG      2.58  99 ePc   42 34.41  -1.1
RDN      2.65 199 eP    42 36.82   0.2
REF      2.67 198 eP    42 36.82   0.0
TZL      2.79 108 eP    42 37.05  -1.2
KLU      2.85 120 ePc   42 36.81  -2.4
VZW      2.90 131 ePc   42 37.37  -2.4
VLZ      2.93 129 ePc   42 37.40  -2.6
SEW      3.04 165 eP    42 39.95  -1.5
IMA      3.26 341 eP    42 44.48  -0.1
CNPM     3.52 182 ePc   42 46.92  -1.1
PDB      3.59 206 eP    42 48.40  -0.5
GLB      3.74 112 ePc   42 49.00  -2.1
TGL      4.51 117 ePc   42 58.92  -2.5
BALM     4.56 112 eP    42 59.54  -2.6
     46 obs. associated
-----------------------------------
&  JUL  18, 1991  03h 54m 21.30s
   37.608 N          118.843 W
   DEPTH =   4.0km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
     <BRK>. ML 3.0 (BRK), 3.4 (PAS).
     Felt at Mammoth Lakes,
     California.

BONR     0.55  51 iP    54 31.40  -1.0
FRI      0.92 229 iPc   54 38.31  -1.2
                  iS    54 49.42
CMB      1.29 290 iP    54 44.70  -1.2
TNP      1.37  69 eP    54 46.40  -1.0
KVN      1.55  22 eP    54 49.70  -0.3
PKEM     1.85 214 eP    54 54.50   0.5
CLC      2.05 150 eP    54 58.50   1.5
PRI      2.07 225 ePd   54 58.03   0.7
ARN      2.16 264 eP    54 58.80   0.3
PHAM     2.17 216 eP    54 58.70   0.0
SAO      2.24 249 iP    55 00.38   0.6
PRS      2.39 239 ePc   55 02.53   0.6
GCC      2.58 258 eP    55 05.26   0.7
BCH      2.62 203 eP    55 05.00  -0.2
BKS      2.70 277 ePc   55 06.30   0.0
ZSP      2.73 278 iPc   55 07.77   1.1
ABL      2.77 186 eP    55 07.40  -0.1
ORV      2.85 314 eP    55 09.85   1.4
                  eS    55 48.47
MIN      3.48 323 eP    55 24.12   6.7
PEC      3.95 159 eP    55 25.00   0.9
PLM      4.54 159 eP    55 33.00   0.4
     21 obs. associated
-----------------------------------
*  JUL  18, 1991  04h 42m 44.96± 1.23s
   8.131 N ±18.3km   94.247 E ±15.3km
   DEPTH =  33.0km  (normal)
   4.0mb (  3 obs.)
 NICOBAR ISLANDS REGION          (704)

SNG      6.38  98 eP    44 18.90  -0.3
IPM      7.60 117 ePd   44 37.00   0.7
CHG     11.56  23 eP    45 30.40  -0.4
PKI     21.07 338 P     47 28.80  -0.3
GUN     21.20 339 P     47 31.92   1.4
DMN     21.22 337 P     47 32.58   2.0
KKN     21.31 338 P     47 30.18  -1.3
GKN     21.75 337 P     47 35.88   0.0
WRA     48.33 126 P     51 33.00   7.4X
        1.0s     1.40nm         3.9mb
```

18d 04h

```
HFS     78.29 330 eP     54 41.80  -1.2
        0.4s     0.60nm          4.0mb
NB2     79.56 331 P      54 49.60  -0.4
        0.9s     2.50nm          4.2mb
      S.D. = 1.2  on  10 of  11 obs.
-----------------------------------------
    JUL  18, 1991  04h 54m 46.99± 0.23s
     8.122 S ± 4.4km  121.760 E ± 5.9km
    DEPTH =  32.1km  ( 13 depth phases)
    5.4mb ( 29 obs.)  5.0Msz ( 13 obs.)
  FLORES ISLAND REGION              (286)
       Slight damage in northern
       Flores.
       CENTROID, MOMENT TENSOR     (HRV)
       Data Used: GDSN
       L.P.B.: 21S, 46C
       Centroid Location:
       Origin Time        04:54:56.7 0.3
       Lat  7.61S 0.03 Lon 122.40E 0.04
       Dep  43.7 2.7 Half-duration  2.8
       Moment Tensor;   Scale 10**17 Nm
         Mrr= 0.77 0.15  Mtt=-2.94 0.16
         Mff= 2.17 0.27  Mrt=-0.71 0.24
         Mrf=-0.11 0.21  Mtf=-4.70 0.15
       Principal Axes:
         T  Val=  4.98  Plg= 4  Azm=239
         N        0.82       83      117
         P       -5.80        6      329
       Best Double Couple:Mo=5.4*10**17
        NP1:Strike= 14 Dip=83 Slip=  -1
        NP2:        104      89     -173

KUPT     2.72 138 eP     55 38.00   8.7X
MKS      3.67 322 iPd    55 44.00   1.1
                  iS     57 02.50
KHKI     6.09 267 eP     56 13.30  -3.9X
                  eS     57 17.10
TRT      9.05 272 iPc    56 58.80   0.3
                  iS     58 38.90
KNA     10.22 139 eP     57 12.30  -2.3
        0.3s    86.00nm          6.6mb X
                  e      59 00.00
MTN     10.34 118 eP     57 15.00  -1.3
        0.3s   243.00nm          7.0mb X
TSM     12.93 342 ePc    57 51.60   0.4
KKM     15.12 338 ePc    58 25.70   5.6X
        1.0s   117.70nm          5.1mb
NANU    15.56 202 iPd    58 22.90  -2.8
DAV     15.58  14 eP     58 31.00   5.0X
CGP     16.72  10 eP     58 56.50  15.9X
        1.2s   237.00nm
WR2     16.95 135 iPd    58 39.90  -3.5X
        0.4s    68.80nm          5.1mb
                  eS     01 49.00
MAP     18.46   7 iPd    59 08.00   5.9X
        1.0s   400.00nm          5.5mb
WARB    18.55 166 eP     59 03.00  -0.3
        0.5s    58.00nm          5.0mb
                  e      59 12.00
ASPA    19.35 144 iPd    59 12.60  -0.3
        0.9s   156.30nm          5.3mb
      Z  17s    14.30um          3.3Msz
                  eS     02 44.80
KGM     20.97 298 ePd    59 30.90   0.9
QIS     21.22 128 iPd    59 32.90   0.3
                  i      00 41.00
PGP     21.50 358 eP     59 30.00  -5.3X
MRWA    21.68 194 eP     59 37.20   0.2
        0.4s    27.00nm          5.0mb
COOL    22.65 181 eP     59 46.00  -0.8
BAL     22.86 191 eP     59 49.00   0.2
        0.4s    44.00nm          5.3mb
FORR    23.38 166 eP     59 54.10   0.4
        0.3s    15.00nm          5.0mb
KLB     23.65 189 eP     59 57.10   0.7
        0.4s    22.00nm          5.0mb
                  e      00 08.00  42km
IPM     24.23 301 ePd    00 02.80   0.6
        1.0s   390.60nm          5.9mb
                  e      00 07.00  15kmX
MUN     24.29 192 iPc    00 03.70   1.0
        0.7s    98.00nm          5.5mb
BAG     24.40 357 eP     00 02.00  -2.0
                  eS     04 18.00
NWAO    25.04 189 eP     00 10.00   0.2
      Z  20s     3.50um          4.9Msz
                  eS     04 40.00

PMG     25.13  95 eP     00 11.00   0.2
SNG     25.99 305 eP     00 19.00   0.2
        0.9s   115.97nm          5.5mb
                  eS     04 46.10
CTAO    26.52 119 iPd    00 25.00   1.2
                  epP    00 34.00  32km
                  esP    00 54.00
                  eS     04 31.00
QLP     28.15 133 e(P)   00 42.00   3.5X
QIZ     29.43 337 Pd     00 50.00  -0.1
      N  16s     2.20um
      E  16s     1.30um
                  eS     05 37.00
RAB     30.48  84 e(P)   01 02.00   2.5
ADE     30.92 152 e(P)   01 02.00  -1.2
RMQ     31.47 129 eP     01 12.00   3.9X
                  i      01 21.30  32km
                  e      08 16.00
NST     31.90 318 eP     01 12.50   0.6
GZH     32.09 345 eP     01 12.00  -1.5
      Z  20s     2.50um          4.9Msz
LOE     32.18 322 eP     01 14.00  -0.3
CMS     32.30 139 eP     01 16.00   0.7
KHT     32.34 315 iPd    01 17.00   1.3
QZH     33.01 355 eP     01 20.00  -1.4
      N  18s     1.88um
BDT     33.78 318 iPd    01 29.20   0.9
        0.8s   103.80nm          5.8mb
BFD     34.53 150 eP     01 32.00  -2.6
CHG     34.97 320 iPd    01 39.40   0.9
        1.3s   102.88nm          5.6mb
                  eS     07 12.00
BWA     35.86 141 eP     01 48.70   2.7
COO     35.95 132 eP     01 50.00   3.2X
                  e      01 55.80  20kmX
TOO     36.35 147 iPc    01 52.80   2.7
CAN     36.81 141 eP     01 58.10   4.2X
                  i      02 07.20  31km
GYA     37.37 337 iPd    01 58.60  -0.2
        1.4s   100.00nm          5.5mb
      N  17s     2.30um
      E  17s     4.00um
                  pP     02 12.00  50kmX
                  PP     03 28.00
                  S      07 43.00
KMI     37.88 331 Pd     02 05.00   1.7
        2.0s   350.00nm          5.9mb
      Z  18s     3.40um          5.2Msz
      E  13s     1.30um
                  sP     02 20.00
SSE     39.00 359 Pc     02 12.00  -0.2
        1.6s    67.00nm          5.2mb
      Z  20s     2.30um          5.0Msz
      N  16s     1.10um
      E  16s     0.70um
                  sP     02 24.00
                  ePP    03 42.00
                  S      08 06.00
                  s$     08 28.00
                  e$S    10 52.00
WHN     39.10 350 Pd     02 16.00   2.9X
        1.2s   100.00nm          5.4mb
      Z  18s     1.20um          4.8Msz
      N  15s     1.20um
      E  15s     1.50um
                  pP     02 27.00  39km
                  S      08 08.00
NJ2     40.04 356 Pd     02 21.50   0.6
        6.0s  1000.00nm          5.7mb X
      Z  20s     1.20um          4.7Msz
      E  12s     0.70um
                  sP     02 34.40
                  PP     04 02.00
                  S      08 20.50
TAU     41.28 151 eP     02 36.00   5.0X
CD2     42.47 337 iPd    02 41.30   0.3
        1.0s   300.00nm          6.0mb
      Z  16s     2.00um          5.1MszX
      E  15s     2.90um
                  sP     02 53.70
                  PP     04 21.30
XAN     43.66 344 iPd    02 50.00  -0.6
        1.0s    60.00nm          5.3mb
      N  16s     2.00um
      E  18s     2.00um
                  PP     04 36.00
                  S      09 14.00

TIA     44.31 355 Pc     02 55.60  -0.1
        4.5s   800.00nm          5.9mb X
      Z  17s     1.10um          4.8MszX
      N  14s     4.30um
      E  14s     0.80um
                  pP     03 08.30  47kmX
DZM     45.14 113 iPc    03 02.60  -0.1
TIY     46.42 350 Pc     03 12.30  -0.3
      Z  18s     1.46um          5.0Msz
      N  19s     2 53um
                  PP     05 01.00
                  S      09 55.00
                  sS     10 13.00
                  SS     13 15.00
DL2     46.79 360 eP     03 20.00   4.7X
      Z  24s     1.00um          4.7MszX
      N  16s     1.90um
MAT     47.04  18 iPd    03 26.30   8.9X
        1.3s    69.23nm          5.5mb
      Z  20s     1.42um          4.9Msz
                  eS     10 12.00
LZH     47.09 340 iPd    03 19.00   0.9
        2.0s   250.00nm          5.9mb
      Z  27s     2.04um          5.0MszX
      E  15s     1.94um
                  pP     03 27.50  28km
                  PP     05 08.00
KOD     47.72 292 eP     03 24.80   1.3
LSA     47.76 323 iPd    03 22.70  -1.1
                  PP     05 13.00
                  S      10 16.00
BJI     48.20 354 eP     03 25.50  -0.9
        1.7s    50.00nm          5.3mb
      Z  20s     1.79um          5.0Msz
      N  15s     0.88um
      E  15s     1.24um
                  esP    03 38.00
GBA     49.01 296 Pd     03 31.10  -2.0
        0.8s    24.60nm          5.3mb
HHC     49.62 350 eP     03 37.50  -0.1
      Z  20s     1.90um          5.1Msz
      E  16s     1.20um
                  ScS    13 21.00
HYB     49.67 301 eP     03 37.00  -1.2
        1.0s    90.00nm          5.8mb
BTO     49.67 348 P      03 36.50  -1.4
      Z  16s     1.40um          5.1MszX
      N  17s     1.80um
      E  16s     0.70um
                  pP     03 43.50  23km
                  S      10 38.00
SNY     49.73   2 eP     03 36.40  -1.8
      Z  20s     1.70um          5.0Msz
                  S      10 40.00
GTA     51.49 338 iPd    03 52.00   0.2
        1.0s    30.00nm          5.2mb
      Z  25s     2.20um          5.1MszX
      E  15s     2.20um
                  pP     04 02.00  33km
                  sP     04 04.80
                  PcP    05 06.00
                  PP     05 46.80
                  S      11 02.00
                  sS     11 22.00
CN2     51.78   3 Pd     03 57.50   3.7X
        4.0s   300.00nm          5.6mb X
      N  16s     1.00um
      E  16s     0.60um
                  esP    04 12.00
                  ePP    05 52.00
                  ScS    13 40.00
NDI     56.43 312 eP     04 26.00  -2.2
MRW     57.17 134 P      04 34.00   0.7
                  (pP)   04 43.00  29km
DRV     59.78 172 eP     05 02.30  11.3X
WMQ     60.21 332 iPd    04 54.50   0.1
        1.0s   100.00nm          5.9mb
      N  17s     1.70um
                  pP     05 05.00  35km
                  sP     05 08.00
                  PcP    05 35.50
                  PP     07 10.00
                  S      13 06.50
                  sS     13 19.00
                  ScS    14 42.00
KSH     63.53 322 P      05 17.00   0.2
      E  16s     3.30um
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                sP    05 30.00
                S     13 50.50
YAK    70.20    4 eP    05 58.90    0.5
                iPcP  06 06.00
                ePP   08 52.00
                ePPP  10 51.00
                iS    15 57.00
                eScS  16 08.00
                ePS   16 39.00
                eSS   20 44.00
                eSSS  23 46.00
MAIO   73.17 312 eP    06 17.00    0.2
                eS    15 44.00
SBA    73.41 171 P     06 31.10   13.7X
                S     16 02.00
TAB    83.66 310 eP    07 29.00   14.8X
NAI    84.83 269 ePd   07 22.00    1.3
     Z  24s     1.05um          5.1MszX
MTD    87.86 253 eP    07 35.20   -0.1
PTZ    88.44 256 iP    07 37.80   -0.3
                i     07 46.00   26km
                i     07 51.00
NVL    88.82 198 Pc    07 42.00    3.2X
                e     07 53.00   35km
                e     08 52.00
                e     20 51.00
                e     21 32.00
                e     33 57.00
                e     34 40.00
SEK    89.81 242 eP    07 47.60    3.1X
     1.0s     10.00nm          5.0mb
PRY    90.16 243 eP    07 45.00   -1.2
BUL    90.17 250 eP    07 46.80    0.5
                i     07 57.30   33km
LSZ    91.31 254 iPc   07 51.90    0.4
                i     08 05.00   43kmX
FRS    91.56 240 eP    07 52.70    0.4
     0.9s     16.81nm          5.4mb
                i     08 05.80   43kmX
OBN    93.83 325 eP    08 14.00   11.9X
     2.0s     *******nm
     Z  24s     1.70um          5.4MszX
                ePP   12 05.00
                eS    19 10.00
                ePS   20 20.00
                eSS   25 20.00
                eSSS  29 28.00
                LR    41 28.00
POF    96.22 239 eP    08 27.00   13.3X
KSP   106.02 321 ePKP  13 15.00    5.6X
PRU   107.24 320 ePKP  13 31.00   19.3X
     1.5s     13.30nm
                e     13 42.70
                e     13 58.00
BRG   107.49 321 ePKP  13 31.70   19.6X
KHC   107.98 319 PKP   13 29.50   16.3X
     Z  18s     1.00um          5.4Msz
     E  18s     0.80um
                e     22 40.00
MOX   108.98 321 e(PKP)13 37.00   22.0X
YKA   112.27  25 ePKP  13 34.40   13.6X
     0.9s     1.70nm
NEW   116.51  40 PKP   13 41.50   12.0X
CWC   118.96  53 ePKP  13 46.00   11.3X
TNP   119.27  51 e(PKP)13 36.00    0.7
CLC   119.47  53 ePKP  13 49.00   13.5X
SBB   119.51  55 ePKP  13 46.00   10.4X
GSC   120.21  54 ePKP  13 48.00   11.0X
FFC   121.96  28 ePKP  13 50.00   10.5X
     1.6s     30.00nm
BW06  123.41  44 e(PKP)13 45.00    1.9
     1.5s     17.16nm
PV09  125.24  48 e(PKP)13 47.50    0.6
RSSD  126.48  40 ePKPd 13 41.30   -7.7X
     0.5s     12.16nm
GOL   127.51  45 e(PKP)13 50.00   -1.2
     0.9s     11.36nm
ANMO  128.46  51 ePKPc 13 54.00    1.0
     0.8s     5.60nm
ALQ   128.46  51 ePKP  13 53.00    0.0
PNJ   144.41  21 iPKP  14 14.40   -7.5X
BLA   144.73  31 ePKPd 14 20.00   -2.7
     1.0s     80.00nm
CBN   145.42  27 ePKP  14 26.60    2.9X
     1.2s     40.00nm
                e     14 36.00
JSC   146.44  36 ePKPd 14 26.00    0.4
SLA   146.59 168 ePKP  14 28.70    2.4
VAO   147.16 199 ePKP  14 28.40    1.2
                e     14 42.20
PPD   149.27 193 ePKP  14 34.90    4.4X
                e     14 39.60
ARE   152.28 152 ePKP  14 54.00   18.6X
CNCB  153.42 159 PKP   14 47.00    9.7X
CCH   153.48 163 ePKP  14 52.00   14.9X
LPB   153.63 158 PKP   14 52.80   15.3X
ZOBO  153.87 158 PKP   14 41.00    3.0X
     Z  22s     0.55um          5.3Msz
                LR    07 44.00
BAO   154.31 203 e(PKP)14 36.00   -2.0
SOB1  155.61 225 ePKP  14 38.40   -1.3
SIV   155.88 173 PKP   14 39.40   -0.6
                i     15 08.40
UPA   158.92  86 (PKP) 14 23.50 -20.2X
     S.D. = 1.2  on  81 of 127 obs.
-----------------------------------------
?  JUL  18, 1991  05h 06m 29.06± 5.46s
    41.588 N ±38.4km   22.829 E ±16.2km
    DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                        (383)

KNT      0.43 173 ePc   06 37.88    0.1
                eS    06 46.36
GRG      0.71 207 ePd   06 42.68   -0.4
                iS    06 54.44
SRS      0.74 129 iPd   06 42.50   -1.1
                eS    06 54.00
SOH      0.86 152 ePd   06 45.60   -0.1
                eS    06 58.80
OUR      1.53 145 ePc   06 57.88    1.5
                eS    07 19.68
     S.D. = 1.4  on   5 of   5 obs.
-----------------------------------------
    JUL  18, 1991  05h 54m 05.60± 0.27s
    1.254 S ± 6.2km   23.978 W ± 5.7km
    DEPTH =  11.7km  (  2 depth phases)
    4.9mb ( 38 obs.)
 CENTRAL MID-ATLANTIC RIDGE        (406)

CAI      14.13 248 iPc   57 25.00   -2.9
MBO      17.03  24 iP    58 05.20   -0.1
                i     58 06.80
SOB1     18.60 244 eP    58 24.40   -0.4
LIC      20.33  68 P     58 43.12   -1.4
     1.1s     50.00nm          4.8mb
TIC      20.48  67 P     58 44.42   -1.8
KIC      20.64  68 P     58 46.28   -1.6
     0.9s     33.50nm          4.7mb
                TT    15 10.00
BAO      27.66 238 e(P)  59 56.00    0.3
PPD      33.68 230 (P)   00 47.00   -1.8
SIV      39.38 246 P     01 38.60    1.4
CCH      44.43 246 eP    02 25.00    6.1X
ZOBO     45.97 249 iPc   02 33.00    1.6
     1.0s     20.00nm          5.1mb
CNCB     45.97 248 P     02 33.00    1.6
LPB      46.01 248 P     02 33.20    1.6
     Z  24s     1.55um          4.9MszX
                LR    06 36.00
EPF      49.21  24 eP    02 56.90    1.1
     0.9s     11.45nm          4.9mb
LPO      50.93  23 eP    03 09.30    0.4
LFF      50.97  22 eP    03 09.80    0.6
CAF      51.48  23 eP    03 13.40    0.3
     1.1s     28.10nm          5.1mb
RJF      51.58  23 eP    03 13.80    0.0
CER      51.60 133 iPc   03 14.00   -0.2
     0.5s     5.41nm          4.7mb
MFF      52.06  21 eP    03 17.40    0.0
     1.1s     17.10nm          4.9mb
LMR      52.14  28 eP    03 18.40    0.4
     1.1s     31.75nm          5.2mb
LSF      52.37  22 eP    03 19.70   -0.1
TCF      52.67  23 eP    03 22.20    0.2
     1.1s     7.35nm          4.5mb
MAF      52.75  23 eP    03 23.10    0.5
     1.1s     14.65nm          4.8mb
LPF      53.00  19 eP    03 24.20   -0.2
     0.9s     11.45nm          4.8mb
BGF      53.13  23 eP    03 26.00    0.5
     1.1s     17.10nm          4.9mb
LSZ      53.31 108 iPc   03 28.80    1.5
GRR      53.37  19 eP    03 26.70   -0.4
     1.2s     26.80nm          5.1mb
AVF      53.52  23 eP    03 28.60    0.3
     1.2s     11.90nm          4.7mb
SMF      53.60  24 eP    03 29.20    0.3
     1.2s     16.35nm          4.9mb
LDF      53.79  19 eP    03 29.50   -0.7
     0.9s     6.55nm          4.6mb
SSF      53.81  23 eP    03 30.70    0.3
     1.1s     14.65nm          4.9mb
FLN      53.82  19 eP    03 29.80   -0.6
     0.9s     11.45nm          4.9mb
LPG      53.91  26 eP    03 32.40    0.9
     1.1s     19.55nm          5.0mb
LPL      53.92  26 eP    03 32.40    0.9
     1.1s     17.10nm          5.0mb
LBF      53.93  23 eP    03 31.70    0.4
     1.2s     23.80nm          5.1mb
LOR      54.11  23 eP    03 32.80    0.2
     1.1s     19.55nm          5.0mb
FRS      54.71 126 iPc   03 37.00   -0.3
     1.2s     46.88nm          5.4mb
LOMF     55.39  25 P     03 45.98    3.9X
HAU      55.71  24 eP    03 44.10   -0.2
     1.1s     19.55nm          5.0mb
VITF     55.73  24 P     03 48.17    3.8X
BSF      55.75  25 eP    03 44.30   -0.4
     1.1s     19.55nm          5.0mb
BBS      55.77  25 P     03 48.68    3.9X
MOF      55.91  25 P     03 48.62    2.8
SEK      56.10 124 iPc   03 49.30    1.7
     1.0s     15.00nm          5.0mb
PTZ      56.16 106 iPc   03 48.00   -0.1
ECH      56.21  25 P     03 51.77    3.9X
FEL      56.30  25 P     03 52.06    3.3X
CDF      56.41  25 eP    03 48.90   -0.5
     1.2s     17.85nm          5.0mb
CDF      56.41  25 P     03 53.44    4.0X
GRF      59.07  26 eP    04 07.70   -0.3
SKO      59.41  38 eP    04 01.50   -9.0X
KHC      59.72  28 iPc   04 12.00   -0.5
     1.0s     4.60nm          4.6mb
                e     04 23.00   37kmX
                e     06 23.50
MOX      59.95  25 eP    04 14.80    0.8
     1.2s     13.00nm          4.9mb
                e     04 18.20   11km
PRU      60.77  27 P     04 19.10   -0.5
ZST      60.79  30 iP    04 19.50   -0.2
CLL      61.03  26 eP    04 21.00   -0.4
     1.6s     21.00nm          5.0mb
BRG      61.13  26 e(P)  04 25.20    3.2X
     1.2s     11.00nm          4.9mb
KSP      62.17  28 eP    04 28.80   -0.3
KRA      63.41  30 ePc   04 37.20   -0.1
     0.7s     17.00nm          5.3mb
                e     04 41.00   12km
MLR      64.07  37 ePc   04 41.00   -0.9
VRI      64.73  37 ePd   04 41.00   -5.1X
NB2      67.75  18 P     05 04.30   -0.8
     0.8s     2.80nm          4.5mb
HFS      67.84  19 eP    05 05.10   -0.5
     0.6s     2.10nm          4.5mb
KAF      73.67  22 iP    05 41.20    0.4
OBN      74.66  31 eP    05 46.00   -0.6
     1.0s     *******nm          8.0mb X
RLO      75.52 308 eP    05 50.20   -1.8
TUL      76.08 307 eP    05 53.80   -1.4
     1.4s     24.70nm          5.1mb
MEO      78.11 306 iPd   06 05.70   -0.8
GOL      84.17 310 P     06 40.20    1.5
ALO      84.54 305 eP    06 40.80    0.2
     1.2s     10.94nm          5.0mb
MAIO     85.47  54 eP    06 46.00    1.0
YKA      91.39 332 eP    07 11.50   -1.1
     0.8s     3.40nm          4.7mb
MBC      92.50 346 eP    07 18.50    1.1
     1.2s     11.00nm          5.1mb
STK     144.32 159 iPKPc 13 43.00   -0.9
     0.6s     32.00nm
ASPA    147.20 140 iPKPd 13 49.90    0.9
     0.5s     158.00nm
WRA     150.07 136 PKP   13 53.00   -0.5
     0.8s     34.30nm
QLP     150.08 158 ePKP  13 59.00    5.6X
WR2     150.08 136 iPKPd 13 59.00    5.4X
     0.6s     51.30nm
RMO     151.54 166 iPKPc 14 06.00   10.4X
     0.9s     111.00nm
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18d 06h

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OIS    153.01 144 ePKPd 14 06.00    8.2X
     S.D. = 1.0  on  67 of  81 obs.
-----------------------------------------
?  JUL  18, 1991  05h 56m 47.15± 2.75s
   41.070 N ±39.3km   25.787 E ±18.0km
   DEPTH =  10.0km  (geophysicist)
 GREECE-BULGARIA BORDER REGION    (363)

ALN      0.26 131 iPc    56 52.66    0.0
                  iS     56 56.25
OUR      1.56 242 ePc    57 14.85    0.0
                  eS     57 33.76
SRS      1.66 272 ePd    57 17.44    1.0
                  eS     57 38.72
SOH      1.86 263 ePd    57 23.60    4.2X
                  iS     57 45.92
PAIG     1.97 235 ePc    57 24.66    3.7X
KNT      2.18 273 ePd    57 23.08   -1.0
                  eS     57 54.96
GRG      2.56 269 ePd    57 33.00    3.5X
                  eS     58 00.00
     S.D. = 1.4  on   4 of   7 obs.
-----------------------------------------
   JUL  18, 1991  06h 40m 21.87± 0.76s
   47.817 N ± 9.0km  113.754 W ± 4.7km
   DEPTH =   5.0km  (geophysicist)
   3.5mb (   1 obs.)
 MONTANA                          (456)
     ML 3.9 (BUT), 3.3 (GS). MD 3.8
     (SEA).

HRY      1.71 129 iPnd   40 52.90    0.2
BUT      1.98 155 ePn    40 56.90    0.3
                  iPg    40 58.00
                  iSn    41 22.10
                  iSg    41 24.00
HBMT     2.17 158 iPnd   40 59.20   -0.3
LRM      2.19 155 ePnd   40 59.40   -0.2
NEW      2.30 282 eP     41 01.80    0.7
SXM      2.41 133 ePn    41 03.50    0.7
BGMT     2.84 155 ePn    41 08.30   -0.7
MEMT     2.93 138 iPnd   41 10.10    0.0
DPW      3.00 273 eP     41 11.00    0.0
MCMT     3.06 168 ePn    41 11.60   -0.4
LTMT     3.48 160 ePn    41 18.10    0.0
LNOR     3.67 240 P      41 21.38    0.9
WIW      4.02 252 P      41 25.71    0.3
MJ2      4.03 254 P      41 25.49    0.0
PNT      4.17 293 P      41 32.00    4.4X
       0.5s     16.80nm
WTV      4.18 271 P      41 27.06   -0.7
RSW      4.23 252 P      41 28.68    0.2
BVW      4.29 259 P      41 29.51    0.2
VTG      4.32 261 P      41 29.94    0.2
PRW      4.36 251 P      41 30.49    0.1
ETW      4.45 270 P      41 30.59   -1.0
MXC      4.63 257 P      41 33.83   -0.2
TBM      4.69 265 P      41 34.54   -0.4
EBG      4.72 261 P      41 35.07   -0.4
NAC      4.93 260 P      41 38.59    0.1
VGB      5.35 247 P      41 50.00    5.6X
WPW      5.42 261 P      41 45.26   -0.2
FMW      5.45 264 P      41 44.98   -1.0
RMW      5.45 269 eP     41 46.50    0.6
GSM      5.48 267 P      41 46.92    0.6
GLK      5.50 260 P      41 46.69    0.1
LON      5.59 262 P      41 47.11   -0.6
VIPM     5.80 238 P      41 50.82    0.0
TDH      6.09 248 P      41 55.85    1.0
FFC     10.10  42 eP     42 48.00   -2.6X
       0.4s     3.00nm          5.1mb X
YKA     14.72 358 eP     43 56.70    4.4X
       0.4s     0.60nm          3.5mb
     S.D. = 0.5  on  32 of  36 obs.
-----------------------------------------
*  JUL  18, 1991  07h 33m 58.93± 1.08s
   43.194 N ±13.9km  146.464 E ±11.1km
   DEPTH =  33.0km  (normol)
   4.1mb (   1 obs.)
 KURIL ISLANDS                    (221)

KUSJ     1.29 266 iP+    34 20.40   -0.3
                  S      34 34.10
HOOJ     2.48 252 P      34 39.50    1.7
                  S      35 07.20
ASAJ     2.92 290 P      34 43.70   -0.4
MRRJ     4.04 261 eP     34 59.60   -0.4
                  S      35 43.80
OFUJ     5.48 223 eP     35 19.60   -0.7
                  eS     36 19.40
FBA     41.84  36 (P)    41 47.00    0.2
WRA     63.81 193 P      44 30.00    0.0
       0.7s     1.30nm          4.1mb
     S.D. = 1.0  on   7 of   7 obs.
-----------------------------------------
?  JUL  18, 1991  08h 34m 37.27± 2.06s
   3.402 S ±18.9km  103.983 E ±21.5km
   DEPTH = 180.7 ± 17.8 km
   4.7mb (   7 obs.)
 SOUTHERN SUMATERA                (274)

KGM      5.42 353 eP     36 03.50    6.0X
IPM      8.46 340 ePd    36 38.10    0.5
SNG     11.03 342 eP     37 04.00   -7.2X
                  e      04 11.50
CHG     22.63 348 eP     39 29.00    5.3X
       1.1s     22.15nm         4.6mb
WR2     33.89 121 iPc    41 05.50    0.5
       0.8s      8.90nm         4.5mb
ASPA    35.23 128 iPc    41 15.40   -0.9
       0.6s     15.20nm         4.8mb
PKI     35.62 331 P      41 19.46   -0.4
       0.6s      7.00nm         4.5mb
GUN     35.68 332 P      41 20.48    0.1
       0.5s     21.00nm         5.1mb
DMN     35.80 331 P      41 21.84    0.5
KKN     35.87 331 P      41 21.20   -0.6
GKN     36.36 330 P      41 25.04   -0.8
       0.6s     18.00nm         4.9mb
KUMJ    43.88  33 eP     42 27.20   -0.3
STK     45.27 133 eP     42 38.50   -0.1
       0.6s      2.60nm         3.9mb
                  e      44 47.70
YAK     68.15  13 eP     45 23.80    4.3X
TUL    142.85  27 ePKP   53 51.80    0.6
       0.8s     13.60nm
                  e      54 05.10
RLO    142.98  26 ePKP   53 52.10    0.6
                  e      54 04.60
FVM    143.14  19 PKP    53 52.10    0.4
     S.D. = 0.7  on  13 of  17 obs.
-----------------------------------------
?  JUL  18, 1991  08h 38m 30.43± 4.43s
   30.950 S ±28.7km  177.483 E ±54.8km
   DEPTH =  33.0km  (normol)
   4.0mb (   1 obs.)
 NORTH OF NEW ZEALAND             (176)

PUZ      7.13 175 eP     40 15.70    0.5
                  S      41 40.40
MNG      9.78 189 eP     40 50.90   -1.0
                  eS     42 46.10
MTW     10.31 188 eP     40 57.90   -1.3
CAW     10.32 190 eP     40 58.50   -0.8
MRW     10.50 192 P      41 04.00    2.3
                  S      43 06.00
TCW     10.56 193 eP     41 03.30    0.7
KHZ     11.87 194 eP     41 20.20   -0.1
                  eS     43 33.10
LTZ     12.52 198 eP     41 29.60    0.5
MOZ     13.30 195 eP     41 38.40   -0.9
                  eS     44 07.20
WRA     40.25 275 P      46 06.00    0.0
       0.4s      1.20nm          4.0mb
     S.D. = 1.2  on  10 of  10 obs.
-----------------------------------------
?  JUL  18, 1991  08h 55m 58.29± 3.76s
   37.494 N ±18.3km  16.430 E ±27.2km
   DEPTH =  10.0km  (geophysicist)
 IONIAN SEA                       (399)

SOI      0.65 333 Pd     56 11.90    0.6
                  eSg    56 18.70
ATN      1.01 311 P      56 17.30   -0.2
                  eSg    56 26.80
MEU      1.26 252 P      56 22.10    0.4
                  eSg    56 35.90
MNO      1.44 288 P      56 24.10   -0.6
                  eSg    56 38.70
CZI      1.74 352 P      56 28.40   -0.2
     S.D. = 0.7  on   5 of   5 obs.
-----------------------------------------
   JUL  18, 1991  09h 15m 24.07± 0.31s
   8.200 S ± 5.5km  121.775 E ± 7.1km
   DEPTH =  33.9km  (  6 depth phases)
   4.9mb ( 10 obs.)  4.9Msz (   1 obs.)
 FLORES ISLAND REGION             (286)

KHKI     6.11 268 eP     16 53.20   -1.2
                  eS     18 17.00
                  e      22 56.00
KNA     10.15 138 eP     17 48.80   -1.8
                  eS     19 39.00
MTN     10.29 117 eP     17 52.00   -0.5
NANU    15.49 202 eP     19 00.00   -1.8
WR2     16.88 135 iPd    19 16.70   -2.8
       0.4s     15.00nm         4.5mb
                  eS     22 19.60
WARB    18.47 166 iPd    19 40.30    1.0
       0.4s     11.00nm         4.4mb
ASPA    19.28 144 eP     19 48.70   -0.3
       1.0s     43.70nm         4.7mb
     Z  19s      0.60um         3.9MszX
                  eS     23 11.80
KGM     21.02 298 eP     20 07.50    0.1
QIS     21.17 127 iPc    20 09.50    0.6
       0.7s     72.00nm         5.2mb
MRWA    21.60 194 eP     20 13.80    0.6
COOL    22.58 181 eP     20 23.00    0.1
BAL     22.79 191 eP     20 25.00    0.0
FORR    23.30 166 eP     20 30.50    0.7
KLB     23.57 189 eP     20 33.00    0.4
MUN     24.22 192 eP     20 40.00    1.2
IPM     24.28 301 ePd    20 40.60    1.0
       1.0s     68.60nm         5.2mb
                  e      20 50.00   34km
NWAO    24.96 189 eP     20 45.00   -1.0
SNG     26.04 305 eP     20 56.80    0.6
CTAO    26.47 119 iPc    21 01.00    0.8
       1.0s     30.00nm         4.9mb
                  i      21 12.00   42km
STK     29.92 145 eP     21 31.60    0.4
       0.8s     10.30nm         4.7mb
RMO     31.41 129 iPd    21 48.00    3.5X
KHT     32.40 315 eP     21 54.00    0.8
BDT     33.85 318 eP     22 06.20    0.5
BFD     34.46 150 eP     22 09.00   -1.8
CHG     35.04 320 eP     22 16.00    0.0
BWA     35.79 141 eP     22 25.40    3.1X
COO     35.88 132 eP     22 25.00    1.9
TOO     36.28 147 iPd    22 29.20    2.9
CAN     36.74 141 eP     22 34.30    4.1X
GYA     37.45 337 eP     22 35.00   -1.3
KMI     37.96 331 Pd     22 41.00    0.2
       1.5s     42.00nm         5.1mb
                  pP     22 51.50   37km
WHN     39.17 350 eP     22 51.50    0.9
                  pP     23 00.60   31km
CD2     42.55 337 P      23 17.60   -0.8
XAN     43.74 345 P      23 26.50   -1.6
LZH     47.17 340 eP     23 55.00   -0.5
       1.5s     23.00nm         5.0mb
     Z  20s      1.19um         4.9Msz
                  pP     24 04.00   30km
LSA     47.83 323 P      24 00.00   -1.2
BJI     48.27 354 eP     24 05.00    1.2
HHC     49.70 350 eP     24 18.60    3.6X
WMO     60.28 332 P      25 31.50   -0.2
       1.0s     20.00nm         5.2mb
                  pP     25 41.00   31km
GOL    127.56  46 (PKP)  34 27.50   -0.6
ANMO   128.50  52 PKP    34 30.20    0.3
ALQ    128.50  52 ePKP   34 30.00    0.1
RLO    136.44  45 e(PKP) 34 44.10   -0.6
CBN    145.49  27 ePKP   35 00.00   -0.7
       1.1s     30.00nm
                  e      35 11.00
PPD    149.20 193 ePKP   35 10.40    3.2X
                  e      35 16.00
CNCB   153.34 159 PKP    35 23.00    8.9X
LPB    153.56 158 PKP    35 16.00    1.8
ZOBO   153.79 158 PKP    35 15.20    0.5
                  i      35 37.80
     S.D. = 1.2  on  42 of  48 obs.
-----------------------------------------
   JUL  18, 1991  09h 50m 36.77± 0.23s
   8.224 N ± 4.6km   94.112 E ± 4.2km
   DEPTH =  26.9km  ( 16 depth phases)
   5.4mb ( 63 obs.)  5.0Msz ( 16 obs.)
 NICOBAR ISLANDS REGION           (704)
     CENTROID, MOMENT TENSOR      (HRV)
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Data Used: GDSN
L.P.B.: 16S, 31C
Centroid Location:
Origin Time        09:50:41.6 1.2
Lat  8.37N 0.04 Lon  94.29E 0.11
Dep  41.9 4.2 Half-duration  2.2
Moment Tensor;   Scale 10**17 Nm
  Mrr= 0.01 0.06  Mtt=-1.18 0.10
  Mff= 1.17 0.12  Mrt= 0.01 0.15
  Mrf= 0.12 0.15  Mtf= 1.68 0.07
 Principal Axes:
  T  Val=  2.05  Plg= 3  Azm=297
  N        0.00      87      137
  P       -2.06       1       28
Best Double Couple:Mo=2.1*10**17
 NP1:Strike= 73 Dip=87 Slip=   1
 NP2:        342     89      177

SNG    6.53  99 eP    52 16.00   2.4
      0.7s  221.92nm          6.1mb
IPM    7.77 117 ePd   52 29.10  -1.8
      0.7s   50.00nm          5.8mb
               e     52 43.70
KHT    7.86  34 iPd   52 30.70  -1.6
NST    9.46  38 eP    52 52.00  -2.4
KGM   11.05 123 ePc   53 15.10  -1.1
CHG   11.53  24 ePc   53 22.80   0.1
      1.0s   37.50nm          5.6mb
               eS    55 32.00
LOE   11.76  38 eP    53 29.00   3.1X
KOD   16.55 278 eP    54 32.10   3.1X
               eS    59 21.50
GBA   17.22 290 Pd    54 37.90   0.7
      0.7s   15.10nm          4.2mb X
SHL   17.38 353 iP    54 38.00  -1.3
               eS    57 51.50
HYB   17.70 303 eP    54 45.00   1.8
      1.0s  110.00nm          4.9mb
               eS    58 00.00
QIZ   18.67  53 Pd    54 58.50   3.4X
    N  12s   20.60um
    E  13s    4.90um
KMI   18.71  25 Pd    54 58.00   2.2
      2.5s  180.00nm          4.8mb
    Z  18s    7.10um          4.6Msz
               sP    55 08.50
LSA   21.55 353 eP    55 23.50  -3.2X
    Z  16s    3.08um          4.8MszX
               S     59 16.00
GYA   21.70  32 iPc   55 28.00   0.1
      1.2s   43.00nm          4.8mb
    N  13s    8.00um
    E  13s    7.10um
               pP    55 40.00  49kmX
               sP    55 44.00
PQO   22.19 300 iPc   55 35.70   2.9X
      1.1s   91.14nm          5.1mb
               iS    59 41.00
GZH   23.65  49 eP    55 49.60   2.7
    Z  16s    8.90um          5.3MszX
    N  15s    9.90um
    E  15s    7.00um
TSM   23.93  98 eP    56 06.50  16.8X
CD2   24.30  20 P     55 54.10   0.8
    Z  12s    5.60um          5.3MszX
NDI   25.84 324 iPc   56 07.50  -0.3
XAN   29.09  26 P     56 35.70  -1.7
    N  12s    5.30um
    E  12s    3.10um
               S     01 22.00
LZH   29.12  16 eP    56 37.50  -0.3
      1.5s   28.00nm          4.8mb
    Z  18s    4.40um          5.1Msz
    E  12s    2.56um
               pP    56 45.00  26km
WHN   29.18  38 eP    56 40.50   2.3
      1.8s  100.00nm          5.3mb
    Z  16s    4.10um          5.1MszX
    N  11s    2.60um
    E  11s    4.30um
               sP    56 52.00
CGP   30.26  87 eP    56 51.00   3.0X
GTA   31.47   8 P     56 59.80   1.2
      1.0s   20.00nm          4.9mb
    Z  21s    3.60um          5.0Msz
    E  12s    2.50um
               pP    57 04.20  15kmX
               S     02 05.00
NJ2   33.03  41 Pc    57 12.60   0.6
    Z  20s    1.50um          4.7Msz
    N  10s    2.10um
    E  12s    2.50um
               pP    57 24.20  43kmX
TIY   33.72  27 eP    57 18.00  -0.1
    Z  16s    8.34um          5.6MszX
    N  14s    3.62um
    E  14s    5.14um
               pP    57 30.00  45kmX
               S     02 41.00
SSE   33.99  44 P     57 30.80  10.3X
      1.0s   20.00nm
    Z  20s    2.00um          4.8Msz
    N  14s    4.60um
    E  14s    3.60um
               epP   57 41.00  36km
               PcP   00 06.50
               S     02 38.00
               sS    02 52.00
               i     05 08.00
               ScS   07 44.00
TIA   34.88  34 eP    57 28.60   0.6
    Z  14s    3.30um          5.2MszX
    N  11s    1.60um
    E  11s    2.00um
               eS    02 51.00
KSH   35.09 335 eP    57 36.00   6.0X
    E  15s    4.30um
               PP    58 54.00
               eS    03 04.00
BTO   35.22  21 eP    57 32.00   1.0
    N  12s    2.50um
    E  12s    3.00um
               esP   57 43.00
               ePP   58 51.00
               eS    03 05.00
WMO   35.90 352 eP    57 36.50  -0.2
    N  15s    1.20um
               pP    57 45.00  29km
               sP    57 48.50
               eS    03 14.00
HHC   36.01  23 eP    57 38.20   0.5
      1.2s   50.00nm          5.3mb
    N  13s    1.80um
    E  12s    2.40um
               sP    57 52.00
BJI   37.31  28 eP    57 45.50  -3.0
      1.5s   40.00nm          5.0mb
    Z  22s    3.40um          5.1Msz
    E  17s    2.60um
               eS    03 41.00
DL2   39.30  35 eP    58 08.00   2.8X
    Z  20s    1.50um          4.8Msz
    N  15s    2.70um
    E  12s    2.30um
               S     04 06.00
MAIO  42.11 317 eP    58 33.00   4.5X
               e     00 31.00
               eS    04 52.00
SNY   42.40  33 Pd    58 30.00  -0.6
      1.4s  100.00nm          5.4mb
    Z  16s    2.40um          5.2MszX
    N  12s    1.90um
    E  12s    1.40um
               pP    58 40.00  34km
               eS    04 51.00
CN2   44.75  32 eP    58 50.20   0.5
      1.2s   30.00nm          5.1mb
    Z  17s    5.30um          5.5MszX
    N  13s    1.00um
    E  13s    1.70um
               esP   59 04.00
MUN   45.21 153 eP    58 54.00   0.5
KLB   45.60 151 eP    58 57.00   0.4
NWAO  46.47 153 eP    59 03.00  -0.4
    Z  20s    1.80um          5.0Msz
    N  20s    1.50um
    E  20s    0.60um
COOL  46.73 148 eP    59 06.00   0.4
IIDJ  48.30  49 P     59 27.00   9.0X
WR2   48.51 126 iPd   59 18.60  -1.1
      0.6s   10.60nm          5.0mb
MAT   48.95  48 (P)   59 26.00   3.1X
      1.8s   45.45nm          5.2mb
    Z  20s    1.77um          5.1Msz
               eS    06 48.00
ASPA  50.16 130 eP    59 31.00  -1.3
      1.3s    5.60nm          4.4mb X
PMG   55.66 107 e(P)  00 18.00   4.7X
NAI   57.90 263 ePd   00 40.00  10.4X
    Z  24s    0.78um          4.7MszX
CTAO  58.50 120 eP    00 33.00  -0.5
               e     00 40.00  23km
               i     01 17.00
DSI   59.16 302 eP    00 36.00  -1.9
PRNI  59.29 300 eP    00 38.50  -0.4
RMN   59.63 300 eP    00 41.00  -0.3
YAK   59.67  19 eP    00 40.00  -0.9
               ePcP  01 28.00
               ePP   02 52.00
               eS    08 47.00
               eSS   12 50.00
               eSSS  15 32.00
STK   60.37 134 eP    00 53.40   7.3X
      1.0s    6.00nm          4.7mb
RMO   63.24 125 eP    01 16.00  10.5X
               i     01 55.00 165kmX
OBN   65.05 328 iPd   01 22.00   5.2X
      1.0s  120.00nm          6.0mb
    Z  18s    1.50um          5.2Msz
    N  18s    1.40um
    E  18s    0.80um
               i     01 27.00  16kmX
               ePP   03 44.00
               eS    09 52.00
               ePS   10 28.00
               eSSS  17 04.00
PTZ   66.15 251 eP    01 25.00   0.4
               i     01 32.80  25km
BWA   66.58 133 e(P)  01 26.80  -0.3
               e     01 34.80  26km
MTD   66.63 248 eP    01 28.40   0.7
CAN   67.43 134 eP    01 32.50   0.1
               e     01 40.60  26km
COO   67.47 128 eP    01 34.00   1.2
               i     01 42.00  26km
VRI   68.43 316 ePd   01 36.50  -2.0
KRI   68.45 248 iPd   01 44.00   4.8X
MLR   68.90 316 ePc   01 47.00   5.4X
               e     04 18.50
LSZ   69.36 250 iP    01 50.00   5.2X
               i     01 54.20  14kmX
CMP   69.50 315 ePc   01 52.00   6.9X
OUR   69.59 310 ePc   01 51.10   5.4X
PAIG  69.77 309 ePd   01 52.78   6.0X
SRS   69.97 311 ePd   01 53.46   5.4X
SOH   70.12 310 ePc   01 54.54   5.5X
BUL   70.30 245 iPd   01 52.60   2.0
      1.0s   10.00nm          4.9mb
KNT   70.50 311 ePd   01 56.74   5.5X
LIT   70.70 310 ePd   01 57.34   4.8X
AGG   70.72 308 ePc   01 42.42 -10.3X
VAY   70.76 311 iP    01 58.60   5.8X
GRG   70.85 310 ePd   01 58.82   5.4X
KMZ   71.12 253 eP    02 05.00   9.4X
SKO   71.67 311 eP    01 58.20  -0.1
SLR   72.29 240 eP    02 07.00   4.5X
KAF   72.47 333 ePKP  02 01.30  -1.3
NUR   72.82 331 ePKP  02 04.20  -0.5
KRA   73.58 320 eP    02 15.50   6.1X
      0.9s   86.00nm          5.8mb
    Z  18s    1.00um          5.1Msz
               i     02 16.40   3kmX
               e     02 20.00
SEK   73.67 237 eP    02 10.00  -0.5
      0.8s   11.19nm          4.9mb
               i     02 22.10  41kmX
SOD   73.88 338 ePKP  02 10.00  -0.8
SRO   74.42 317 iP    02 21.60   7.4X
ZST   75.26 318 iPc   02 26.50   7.4X
TDS   75.40 309 P     02 28.00   7.9X
SOI   75.59 307 P     02 29.00   7.8X
VKA   75.78 318 iPc   02 29.60   7.5X
ZAG   75.88 315 iP    02 27.20   4.5X
PTJ   75.90 315 eP    02 29.26   6.3X
KSP   75.98 320 eP    02 22.60  -0.6
      0.9s   63.00nm          5.6mb
               i     02 30.00  24km
MGR   76.01 309 P     02 30.30   6.7X
FRS   76.04 237 eP    02 24.20   0.3
      0.7s   17.12nm          5.2mb
               i     02 33.00  28km
```

18d 10h

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DZM    76.96 115 iPc    02 39.20    9.9X
PRU    77.04 319 P      02 37.00    7.9X
       1.2s     34.50nm          5.3mb
                 e      02 46.80   31km
                 eS     12 20.00
BRG    77.46 320 eP     02 31.30   -0.1
       1.3s     80.00nm          5.6mb
                 i      02 39.10   25km
                 e      05 36.00
KHC    77.64 318 P      02 30.00   -2.5
       1.0s     16.40nm          5.0mb
     Z  16s      0.60um          5.0MszX
     E  16s      0.60um
                 i      02 39.50   30km
                 S      12 26.00
BHG    78.07 317 iPd    02 42.00    7.1X
       1.1s     92.00nm          5.7mb
CLL    78.07 321 i(P)   02 42.30    7.5X
       1.6s     72.00nm          5.5mb
HFS    78.14 330 eP     02 34.70   -0.2
       0.9s      9.20nm          4.8mb
VVI    78.37 315 P      02 44.30    7.8X
COP    78.57 325 iPc    02 45.00    7.7X
       1.1s    162.03nm          6.0mb
CRE    78.71 313 P      02 46.00    7.4X
HOF    78.77 320 eP     02 46.20    7.5X
       1.0s     20.00nm          5.1mb
PGD    78.88 313 P      02 39.90    0.3
CTI    78.91 315 P      02 47.20    7.6X
MOX    78.94 320 eP     02 39.50   -0.1
       1.7s      8.00nm          4.5mb
     Z  20s      0.70um          5.0Msz
                 eS     12 38.00
GRF    79.19 319 e(P)   02 41.30    0.4
                 ec     02 48.70   24km
NAO    79.59 330 P      02 41.60   -1.3
       0.9s     53.90nm          5.6mb
MME    79.61 313 P      02 52.00    8.4X
OSS    79.94 316 ePd    02 45.20   -0.1
KONO   80.18 329 eP     02 53.50    7.5X
POF    80.42 238 eP     02 46.00   -1.9
LLS    80.72 316 ePd    02 49.10   -0.4
TMA    80.84 315 ePd    02 49.20   -0.9
PGF    80.91 312 eP     02 50.00   -0.4
       1.1s     46.40nm          5.4mb
FIN    81.40 313 P      02 56.69    3.9X
ORX    81.48 315 P      02 55.79    2.4
ROB    81.63 314 P      02 56.89    2.8X
IMI    81.64 313 P      02 57.87    3.7X
BNS    81.75 320 iPc    03 02.80    8.4X
CDF    81.82 318 eP     02 54.30   -0.7
       0.9s     26.20nm          5.3mb
DIX    81.86 315 ePd    02 55.70    0.2
ENR    81.96 314 P      03 02.83    7.0X
SBF    81.97 313 eP     02 55.60   -0.3
       0.8s     72.55nm          5.8mb
CER    82.00 235 eP     03 04.50    8.4X
RSP    82.02 314 P      02 56.61    0.5
STV    82.03 314 P      02 59.88    3.7X
PZZ    82.17 314 P      02 59.94    2.9X
LPG    82.35 315 eP     02 57.90   -0.2
       0.8s     73.45nm          5.8mb
LPL    82.36 315 eP     02 58.00   -0.1
RRL    82.37 314 P      03 00.40    2.3
BNI    82.44 314 P      02 59.20    0.8
HAU    82.46 317 eP     02 57.60   -0.7
       0.9s     75.35nm          5.8mb
     Z  22s      0.35um          4.7Msz
WLF    82.48 319 iPd    03 06.95    8.7X
MEM    82.51 320 iPc    03 06.30    7.9X
FRF    82.56 313 eP     02 58.90    0.0
       1.1s     73.25nm          5.7mb
LMR    82.68 313 eP     02 59.40   -0.1
       1.1s     56.15nm          5.6mb
LRG    82.78 313 eP     03 00.20    0.2
       0.9s     65.50nm          5.7mb
     Z  21s      0.43um          4.8Msz
CDR    83.19 313 ePc    03 10.00    7.9X
SNF    83.61 320 iPc    03 11.95    7.9X
LBF    84.15 317 eP     03 06.60   -0.4
       0.9s     47.50nm          5.7mb
LOR    84.20 317 eP     03 07.00   -0.2
       0.9s     51.20nm          5.7mb
     Z  21s      0.43um          4.8Msz
SMF    84.27 316 eP     03 07.00   -0.6
       0.9s     50.80nm          5.7mb
SSF    84.46 317 eP     03 08.60    0.1
       1.2s     44.65nm          5.6mb
AVF    84.59 316 eP     03 08.80   -0.3
       1.0s     40.00nm          5.6mb
BGF    84.97 316 eP     03 11.10    0.1
       1.0s     47.00nm          5.7mb
MAF    85.20 316 eP     03 12.10   -0.1
       0.9s     26.20nm          5.5mb
TCF    85.43 316 eP     03 13.60    0.2
       1.1s     23.20nm          5.3mb
CAF    85.71 315 eP     03 15.00    0.2
       1.0s     31.00nm          5.5mb
LSF    85.91 316 eP     03 15.50   -0.2
       0.9s     25.40nm          5.4mb
RJF    86.04 315 eP     03 16.70    0.3
       0.9s     31.10nm          5.5mb
LPO    86.36 314 eP     03 18.40    0.4
       0.9s     47.50nm          5.7mb
LFF    86.64 315 eP     03 19.80    0.5
       1.0s     32.00nm          5.5mb
LDF    86.69 318 eP     03 19.40   -0.1
       1.0s     58.00nm          5.8mb
FLN    86.90 319 eP     03 20.50    0.0
       0.9s     45.85nm          5.7mb
     Z  21s      0.60um          5.0Msz
MFF    87.00 316 eP     03 21.00   -0.1
       0.9s     29.50nm          5.5mb
EPF    87.20 313 eP     03 22.00   -0.2
GRR    87.21 318 eP     03 22.20    0.2
       1.1s     36.65nm          5.5mb
LPF    87.38 318 eP     03 23.00    0.2
       1.0s     40.00nm          5.6mb
EBR    87.41 311 eP     03 32.00    8.9X
                 e      12 15.00
EKA    87.42 325 Pd     03 23.40    0.5
       0.8s      5.40nm          4.9mb
BRW    88.29  18 eP     03 28.70    1.9
TTA    91.58  25 eP     03 52.10    9.7X
       1.3s     37.60nm          5.6mb
SVW    92.42  27 eP     03 56.20    9.9X
MBC    93.42   8 eP     03 53.50    3.0X
       1.5s     19.00nm          5.3mb
FBA    94.03  22 eP     04 02.30    8.7X
       1.2s     11.60nm          5.2mb
FBA    94.03  22 (P)    03 56.00    2.4
                 e      04 02.30   20km
INK    96.67  16 eP     04 06.00    0.5
KIC    97.80 278 (P)    04 21.00    9.3X
YKA   106.09  13 ePKP   09 16.50   16.8X
       0.8s      1.10nm
TNP   125.45  30 PKP    09 41.80    4.1X
CWC   126.26  32 ePKP   09 48.00    8.6X
ISA   126.63  33 ePKP   09 48.00    8.1X
CLC   126.99  32 ePKP   09 50.00    9.4X
                 e      10 03.00
SBB   127.71  33 ePKP   09 51.00    9.0X
GSC   127.80  32 ePKP   09 45.00    2.8X
GOL   129.02  19 PKP    09 52.30    7.7X
ALQ   132.87  23 ePKP   09 55.00    3.0X
RLQ   135.02  10 e(PKP)09 55.30   -0.5
TUL   135.12  11 e(PKP)10 00.70    4.8X
       1.4s     11.50nm
     Z  20s      0.47um          5.2Msz
                 LR     04 14.00
SOB1  135.54 265 (PKP) 10 03.00    5.6X
BAO   142.24 255 ePKPc 10 14.50    4.8X
PPD   144.02 244 ePKP  10 13.50    1.0
                 e      10 20.70
MRX   148.42  28 (PKP) 10 28.50    8.8X
PPM   150.12  25 (PKP) 10 32.50    9.5X
IIT   150.29  24 (PKP) 10 37.00   14.1X
LVVM  150.33  20 (PKP) 10 27.50    4.9X
IISM  150.68  23 (PKP) 10 38.00   14.9X
ACX   151.50  29 (PKP) 10 40.50   16.0X
CNCB  160.56 242 PKP   10 48.00   11.3X
LPB   160.77 243 PKP   10 47.80   11.1X
     Z  16s      1.35um
                 LR     08 14.00
ZOBO  160.90 244 PKP   10 44.00    7.0X
       1.0s     12.50nm
     Z  24s      0.30um
                 LR     09 04.00
     S.D. = 1.1  on 102 of 194 obs.
-----------------------------------
   JUL  18, 1991  11h 56m 30.65± 0.11s
   44.888 N ± 1.6km    22.407 E ± 1.3km
   DEPTH =  11.6km  (geophysicist)
   5.7mb ( 64 obs.)  5.5Msz ( 15 obs.)
```

ROMANIA (358)

Ms 5.6 (BRK). ML 5.5 (TTG). At least 615 houses damaged (VIII) in the Orsova area. Landslides occurred in the epicentral area. Felt strongly in western Romania and (IV) in northwestern Bulgaria. Also felt in southeastern Hungary and in parts of Yugoslavia. Depth from broadband displacement seismograms.

```
FAULT PLANE SOLUTION: P-Waves
 NP1:Strike=300 Dip=65 Slip= -30
 NP2:          44     63      -152
 Principal Axes:
  T                 Plg= 1  Azm=352
  P                      38      261
Comment: The focal mechanism is
  poorly controlled and
  corresponds to strike-slip
  faulting with a large normal
  component. The preferred fault
  plane is not determined.
RADIATED ENERGY
 No. of sta:  13  Focal mech.  M
 Energy          1.1±0.3*10**12 Nm
MOMENT TENSOR SOLUTION
Dep  18            No. of sta: 11
Moment Tensor;    Scale 10**17 Nm
  Mrr=-1.19        Mtt= 1.01
  Mff= 0.18        Mrt=-0.20
  Mrf=-0.33        Mtf=-0.53
 Principal axes:
  T  Val=  1.27  Plg= 1  Azm=206
  N        0.04      17      115
  P       -1.31      73      299
Best Double Couple:Mo=1.3*10**17
 NP1:Strike=313 Dip=47 Slip= -66
 NP2:         99     48      -113
CENTROID, MOMENT TENSOR    (HRV)
Data Used: GDSN
L.P.B.: 16S, 29C
Centroid Location:
Origin Time        11:56:38.5 1.8
Lat 44.88N 0.14 Lon  22.43E 0.08
Dep  15.0 BDY Half-duration  2.5
Moment Tensor;    Scale 10**17 Nm
  Mrr=-2.34 0.10  Mtt= 2.73 0.17
  Mff=-0.39 0.18  Mrt=-0.35 0.57
  Mrf=-1.20 0.42  Mtf=-0.52 0.11
 Principal Axes:
  T  Val=  2.83  Plg= 2  Azm=189
  N        0.14      26       98
  P       -2.96      64      282
Best Double Couple:Mo=2.9*10**17
 NP1:Strike=303 Dip=49 Slip= -54
 NP2:         75     52      -124
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DEV     1.05  19 iPd    56 52.50    2.1
DRA     1.33  98 iPd    56 57.00    1.9
BEO     1.39 268 iPgd   56 58.70    2.9
                 iSg    57 17.20
CMP     1.90  78 iPc    57 08.00    4.7X
MTUR    1.91  79 iPd    57 05.00    1.5
VTS     2.37 166 iP     57 10.00   -0.1
MLR     2.57  75 iPd    57 14.00    1.0
BUC1    2.64 101 iPd    57 13.50   -0.3
PLE     2.67 235 iPnc   57 15.93    1.5
                 iSn    57 47.78
BUC     2.68  99 iPd    57 30.00   15.7X
PVL     2.69 127 iPd    57 14.00   -0.5
IVA     2.71 223 iPnc   57 16.66    1.7
                 iSn    57 48.71
CEI     2.80   1 eP     57 16.00    0.0
BMR     2.89  15 iPc    57 23.00    5.7X
PVY     2.89 218 iPnc   57 19.28    1.8
                 iSn    57 53.83
ISR     2.95  84 iPd    57 18.00   -0.2
SKO     3.00 194 iPnc   57 19.60    0.7
       3.0s  107.50nm
                 iPb    57 25.50
                 iPg    57 28.20
                 iSn    57 56.50
                 i      58 03.60
                 i      58 05.00
                 iSg    58 10.00
```

18d 11h

KKB	3.06	170	iPd	57	21.00	1.2
UZD	3.17	304	i(Pn)	57	22.80	1.4
VRI	3.20	71	ePc	57	22.00	0.3
			e	09	50.00	
NKY	3.22	231	iPnc	57	23.66	1.5
			iSn	58	00.93	
PLD	3.25	148	iPd	57	22.00	-0.4
BRD	3.34	78	ePc	57	26.00	2.2
TTG	3.35	224	iPnc	57	25.28	1.4
			iSn	58	04.00	
BRY	3.43	236	iPnc	57	26.40	1.3
			iSn	58	06.30	
MMB	3.44	163	iPd	57	22.00	-3.1X
PTT	3.45	52	ePd	57	28.00	2.7
PSZ	3.49	331	i(Pn)	57	26.60	0.6
BUD	3.50	319	i(Pn)	57	26.50	0.5
VAY	3.57	178	iPnc	57	27.00	0.0
	1.0s	8270.00nm				
			i	58	25.60	
			Lg	58	51.00	
DIM	3.64	140	iP	57	28.00	0.0
BDV	3.68	226	iPnc	57	30.68	2.1
			iSn	58	12.15	
BLY	3.72	270	Pn	57	29.70	0.5
			Sn	58	04.70	
ULC	3.72	219	iPnc	57	30.10	0.9
			iSn	58	13.43	
HCY	3.74	231	iPnc	57	30.58	1.1
			iSn	58	13.45	
KNT	3.74	174	ePd	57	29.14	-0.4
CLI	3.80	62	eP	57	33.50	3.2X
SRS	3.87	167	ePc	57	30.74	-0.5
PPE	3.89	68	eP	57	35.50	3.9X
GRG	3.93	180	ePc	57	32.14	0.0
TLB	4.02	92	iPc	57	32.00	-1.3
SRO	4.07	317	iPnd	57	35.30	1.2
CFR	4.08	84	eP	57	33.00	-1.2
SOH	4.12	170	ePd	57	34.26	-0.6
FNA	4.17	191	ePd	57	36.98	1.4
IAS	4.27	55	iPd	57	37.00	0.1
THE	4.27	174	iPc	57	36.70	-0.3
PSN	4.32	104	iPc	57	37.00	-0.6
RDO	4.39	147	iPd	57	37.50	-1.1
SPC	4.55	342	iPn	57	42.80	1.7
ZAG	4.62	284	iPnd	57	42.50	0.6
			iSn	58	36.00	
			iSg	59	00.50	
HVAR	4.62	250	iPnd	57	43.90	1.9
			iSn	58	37.60	
PTJ	4.65	285	iPnd	57	42.50	0.0
			eSn	58	34.50	
OUR	4.70	165	ePc	57	41.70	-1.3
LIT	4.78	179	ePc	57	43.70	-0.6
ALN	4.80	145	ePd	57	43.46	-1.0
ZST	4.93	314	iPn	57	46.20	-0.1
			e	58	43.30	
PAIG	5.05	169	iPc	57	46.66	-1.3
VBY	5.09	279	ePnd	57	49.40	0.8
			i	57	54.40	
VKA	5.39	311	iPnd	57	53.10	0.3
			i	58	05.30	
			i	58	38.70	
			i	59	01.30	
KRA	5.43	343	iPc	57	54.50	1.1
	0.5s	225.00nm				6.1mb
	Z 11s	22.80um				4.9Msz
	E 11s	38.00um				
			i	57	57.50	
			i	58	17.00	
			i	59	00.00	
KEK	5.52	201	eP	57	55.50	0.8
BRT	5.54	225	P	57	56.00	1.1
			eSn	58	51.00	
BAI	5.54	229	P	57	54.00	-0.9
IGT	5.57	197	ePc	57	58.10	2.7
LCI	5.61	217	P	57	55.80	-0.1
			eSn	58	54.90	
LJU	5.66	285	iPn	57	57.40	0.8
			iSn	58	59.30	
			e	00	30.00	
CEY	5.69	281	ePn	57	57.50	0.4
RIY	5.70	277	iPnc	57	59.60	2.5
			i(Sn)	59	02.60	
KGT	5.72	139	iP	57	55.80	-1.6
CTT	5.78	128	iP	57	56.00	-2.3
EZN	5.83	149	iP	57	57.30	-1.7
AGG	5.86	181	ePc	57	59.06	-0.4

EDC	6.07	137	iP	57	59.40	-2.9
VOY	6.10	284	ePn	58	03.20	0.4
			e	58	35.20	
			eSn	59	07.10	
ITU	6.14	126	eP	58	04.00	0.6
TRI	6.15	281	iPnd	58	03.40	-0.1
			iSn	59	13.60	
			iSg	59	50.10	
ISK	6.20	126	eP	58	02.00	-2.1
PRK	6.33	152	iPd	58	05.00	-1.0
ORI	6.53	224	P	58	09.80	0.9
KMR	6.53	302	iPn-	58	10.30	1.3
			iSn	59	03.70	
GBZT	6.60	126	eP	58	08.00	-1.8
KBA	6.68	292	iPn	58	11.50	0.3
			i	58	12.00	
			iSn	58	29.00	
			i	59	57.80	
			i	00	13.80	
YLV	6.70	128	eP	58	05.10	-6.3X
HRT	6.71	125	eP	58	08.50	-2.9
SGO	6.78	233	P	58	12.70	0.3
			eSn	59	23.30	
CSI	6.83	224	P	58	12.10	-1.0
VLS	6.84	192	eP	58	13.50	0.2
ROI	6.85	221	P	58	14.30	0.8
MMN	6.89	226	P	58	15.20	1.3
			eSn	59	33.00	
TDS	6.90	223	P	58	16.00	2.0
MGR	6.94	229	P	58	15.20	0.6
			eSn	59	30.20	
ARV	6.94	262	P	58	15.30	0.6
FVI	6.95	288	P	58	15.80	1.1
			eSn	59	33.90	
ATH	6.98	171	eP	58	10.50	-4.7X
AQU	7.01	252	P	58	17.40	1.8
DST	7.01	137	iP	58	13.70	-2.0
SDI	7.03	246	P	58	16.80	0.9
			eSn	59	28.80	
VVI	7.11	282	P	58	18.20	1.2
			eSn	59	36.90	
EYL	7.16	124	iP	58	16.00	-1.8
BHG	7.18	297	eP	58	19.00	1.0
RSM	7.19	266	P	58	19.50	1.3
KSP	7.24	328	iPnd	58	18.40	-0.4
ASS	7.26	259	P	58	19.80	0.6
CZI	7.34	222	P	58	19.20	-1.0
KHC	7.38	308	iPnd	58	20.50	-0.3
	1.0s	175.00nm				6.2mb
			e	58	31.80	
			e	59	41.00	
PRU	7.38	317	Pnd	58	19.50	-1.2
	Z 11s	60.70um				
			e	58	28.80	
			e	58	32.80	
			Sn	59	53.30	
GPA	7.42	126	iP	58	20.60	-0.8
IZM	7.43	149	iP	58	20.50	-1.1
MNS	7.49	254	P	58	23.00	0.7
CRE	7.61	264	P	58	26.10	2.0
SFI	7.62	266	P	58	25.30	1.2
RMP	7.71	250	P	58	25.90	0.5
PGD	7.72	266	P	58	26.90	1.1
WET	7.78	307	iPd	58	26.20	-0.2
WTTA	7.86	291	iPnd	58	29.60	1.9
	0.8s	506.70nm				6.8mb X
			i	58	30.10	
			iSn	59	57.90	
			i	00	19.10	
VLI	8:17	177	eP	58	30.50	-1.4
BRG	8.25	320	iPn	58	31.70	-1.3
	2.0s	130.00nm				5.8mb
			i	58	36.50	
			i	58	45.40	
			i	59	21.00	
SOI	8.31	217	P	58	33.10	-0.7
			eSn	00	02.10	
FUR	8.35	297	iPd	58	34.80	0.5
MME	8.39	269	P	58	36.40	1.2
SAL	8.42	279	P	58	36.20	0.9
CIN	8.44	148	eP	58	33.00	-2.6
KHL	8.45	138	eP	58	34.10	-1.7
BDI	8.49	269	P	58	36.40	0.0
ATN	8.50	220	P	58	36.10	-0.4
MAO	8.53	257	P	58	36.60	-0.2
PII	8.60	266	P	58	38.00	0.2
OSS	8.76	286	ePc	58	42.10	1.9

YER	8.93	148	eP	58	40.30	-2.1
HOF	8.94	311	iPc	58	41.50	-1.1
CLL	8.99	319	iPn	58	41.80	-1.3
	1.3s	155.00nm				6.2mb
			i(Sg)	00	58.00	
GRF	8.99	306	iPd	58	42.40	-0.8
GRFO	8.99	306	ePd	58	41.25	-2.0
KAS	9.02	109	eP	58	43.50	-0.2
MNO	9.04	222	P	58	45.60	1.4
VDL	9.20	285	ePd	58	47.60	1.3
BOB	9.21	274	P	58	47.00	0.6
MOX	9.27	312	iPn	58	45.50	-1.5
	1.4s	130.00nm				6.1mb
	N 10s	14.40um				
	E 10s	20.20um				
			(Sg)	00	40.00	
GIB	9.33	225	P	58	48.70	0.7
LLS	9.56	287	ePc	58	52.10	0.8
TMA	9.58	282	ePd	58	51.80	0.2
MEU	9.61	219	P	58	52.00	0.1
BCK	9.64	137	eP	58	51.50	-0.8
BRN	9.68	324	eP	58	52.00	-0.7
STU	9.85	298	iPd	58	53.00	-2.1
	1.2s	312.50nm				6.6mb
PCP	9.88	273	P	58	55.96	0.5
ELL	9.92	142	iP	59	06.00	9.9X
NPS	9.92	165	eP	58	56.50	0.4
PGF	9.99	261	P	58	55.65	-1.4
SLE	10.05	292	ePc	58	57.30	-0.5
ZLA	10.06	290	eP+	58	58.20	0.1
CKI	10.08	272	P	58	57.90	-0.3
FIN	10.16	271	P	58	57.91	-1.5
ORX	10.20	279	P	58	58.73	-1.3
MMK	10.21	282	ePc	58	59.20	-1.1
TOD	10.38	302	eP	59	00.27	-2.1
FEL	10.39	292	P	59	01.01	-1.5
ROB	10.39	272	P	59	00.67	-1.9
IMI	10.44	270	P	59	01.60	-1.6
DIX	10.60	282	ePc	59	05.50	-0.1
BBS	10.65	289	P	59	04.51	-1.6
SAOF	10.66	270	P	59	05.10	-1.2
KVT	10.69	106	eP	59	05.30	-1.4
LIBD	10.71	293	P	59	05.94	-0.9
ENR	10.72	272	P	59	06.72	-0.4
RSP	10.73	277	P	59	04.57	-2.7
AUTN	10.75	271	P	59	06.57	-1.1
SBF	10.77	270	eP	59	06.80	-1.0
STV	10.78	272	P	59	06.52	-1.5
DOI	10.80	273	P	59	06.80	-1.4
TNS	10.83	304	ePd	59	07.00	-1.6
			e	01	35.50	
AURF	10.84	270	P	59	07.44	-1.3
TOUF	10.88	271	P	59	08.50	-0.8
GWF	10.90	297	P	59	08.81	-0.7
PZZ	10.91	273	P	59	07.75	-1.9
MOF	10.96	291	P	59	08.95	-1.5
MVIF	10.96	270	P	59	09.52	-1.0
CDF	10.98	294	P	59	09.28	-1.4
ECH	11.02	293	P	59	09.54	-1.5
LPG	11.07	279	eP	59	10.50	-1.6
	1.3s	1156.40nm				7.1mb X
LPL	11.08	279	eP	59	10.80	-1.4
RRL	11.09	276	P	59	11.16	-1.1
LOMF	11.09	288	P	59	10.76	-1.4
BNI	11.15	276	P	59	11.70	-1.3
RSL	11.15	280	P	59	14.09	1.0
CALN	11.18	270	P	59	12.53	-0.9
BSF	11.19	291	eP	59	11.40	-2.1
ABH	11.24	302	eP	59	12.23	-1.9
FRF	11.39	269	eP	59	14.80	-1.3
RUP	11.48	300	eP	59	15.98	-1.4
BGG	11.48	303	iPc	59	17.90	0.5
HAU	11.51	291	eP	59	16.10	-1.7
	1.5s	326.45nm				6.4mb
	Z 15s	35.00um				4.9Msz
LMR	11.54	268	eP	59	16.80	-1.3
LRG	11.62	269	eP	59	18.10	-1.1
	1.4s	510.55nm				6.6mb
	Z 14s	18.00um				
VITF	11.79	292	P	59	21.86	0.3
BNS	11.88	306	iPc	59	23.20	0.5
	2.0s	1950.00nm				7.0mb X
	Z 10s	28.00um				4.7Msz
			i	02	23.00	
CDR	11.99	270	iPd	59	23.30	-1.0
			e	02	36.30	
WLF	12.02	299	iPc	59	24.37	-0.3

18d 11h

Sta	Dist	Azm	Phase	Min	Sec	Res
MEM	12.42	303	iPd	59	29.46	-0.6
ENN	12.53	304	eP	59	31.50	0.0
	1.0s	142.00nm				6.2mb
			eS	01	55.00	
COP	12.53	333	eP+	59	31.70	0.3
	0.9s	346.22nm				6.6mb
PPCY	12.56	139	eP	59	44.50	12.6X
SSB	12.64	278	P	59	31.65	-1.3
CSS	12.97	136	eP	59	39.50	2.1
LBF	13.00	286	eP	59	35.90	-1.9
WIT	13.03	313	eP	59	44.00	5.9X
SMF	13.08	284	eP	59	36.80	-2.1
LOR	13.10	287	eP	59	36.40	-2.7
	1.8s	269.75nm				6.1mb
Z	15s	3.50um				
COLF	13.21	279	P	59	39.04	-1.6
PLDF	13.24	281	P	59	39.32	-1.7
SSF	13.33	286	eP	59	40.40	-1.7
AVF	13.42	285	eP	59	41.70	-1.6
SNF	13.43	301	iPd	59	37.43	-5.9X
UCC	13.47	302	Pd-	59	43.70	-0.3
DBN	13.49	308	eP	59	46.00	1.B
Z	10s	14.50um				
			eS	02	20.00	
LBL	13.55	278	P	59	43.55	-1.6
AGO	13.58	282	P	59	44.08	-1.4
OBN	13.68	37	iPc+	59	42.80	-3.8X
	1.3s	570.00nm				6.3mb
Z	12s	21.00um				4.2Msz
N	24s	22.00um				
E	16s	16.00um				
			i	00	00.00	
			iS	02	04.00	
			i	02	40.00	
			i	03	12.00	
			LQ	03	36.00	
PYM	13.68	280	P	59	45.25	-1.6
BGF	13.77	284	eP	59	46.60	-1.3
MAF	13.97	283	eP	59	48.60	-1.9
TCF	14.21	283	eP	59	52.30	-1.5
PERF	14.34	267	P	59	55.34	-0.1
ETER	14.40	267	eP	59	56.80	0.6
CAF	14.42	277	eP	59	55.60	-0.9
MTHF	14.46	269	P	59	57.06	0.1
LSF	14.69	283	eP	59	58.90	-1.0
RJF	14.76	279	eP	00	00.90	0.0
	1.6s	323.40nm				5.6mb
Z	10s	8.75um				6.1Msz
LSPF	14.90	270	P	00	03.65	0.9
BHL	14.98	133	P	00	07.00	3.0X
			S	02	59.00	
LPO	15.07	277	eP	00	05.40	0.5
GRBF	15.19	270	P	00	07.63	1.0
ESEL	15.30	257	eP	00	08.90	0.9
LESF	15.32	270	P	00	09.10	0.8
LFF	15.35	278	eP	00	07.90	-0.7
MLS	15.48	270	P	00	11.10	0.7
HRI	15.52	134	eP	00	12.00	1.0
NUR	15.71	4	iP	00	10.40	-2.7
	0.9s	148.70nm				5.2mb
			eS	03	24.00	
MFF	15.83	284	eP	00	14.80	0.0
LDF	15.87	292	eP	00	13.60	-1.7
	1.1s	107.45nm				4.9mb
SHMJ	15.97	135	P	00	17.50	0.8
EPF	15.99	271	eP	00	15.40	-1.6
	1.6s	242.90nm				5.1mb
ENSF	16.05	270	P	00	22.99	5.1X
FLN	16.12	292	eP	00	16.70	-1.8
	1.8s	578.30nm				5.4mb
Z	16s	22.50um				
HFS	16.14	344	eP	00	14.80	-3.9X
	0.9s	23.20nm				4.3mb X
Z	15s	11.62um				6.3Msz
			LR	04	50.00	
GRR	16.34	291	eP	00	19.70	-1.6
BTH	16.36	272	eP	00	21.90	0.3
			ipP	00	25.50	
			S	03	36.00	
			eScP	12	16.00	
			ePKKP	13	35.00	
LPF	16.44	289	eP	00	19.60	-3.0X
EBR	16.56	263	eP	00	24.00	-0.2
			(S)	03	26.00	
HLW	16.58	152	eP	00	22.00	-2.5
			eS	03	08.00	
EROQ	16.62	264	eP	00	25.20	0.3

Sta	Dist	Azm	Phase	Min	Sec	Res
KONO	16.68	337	ePc	00	25.28	-0.3
			eS	03	41.28	
ABA	16.71	248	iP	00	27.00	0.9
DSI	16.72	138	eP	00	26.00	-0.3
MKRJ	16.86	13B	P	00	30.00	1.9
KAF	17.41	6	eP	00	32.50	-2.1
	1.1s	297.70nm				5.3mb
NB2	17.48	342	P	00	31.B0	-3.8X
	1.2s	90.30nm				4.8mb
MSL	17.85	111	ePc	00	42.50	2.1
			e	00	47.00	
			ePP	00	53.50	
			eS	04	07.00	
			eLQ	06	26.50	
			eLR	07	15.50	
MBH	18.02	143	eP	00	42.00	-0.6
ECHE	18.07	261	eP	00	43.00	-0.2
ACU	18.16	257	eP	00	46.00	1.8
ETOR	18.37	266	eP	00	46.30	-0.5
HOL	18.53	143	ePd	00	48.60	-0.2
BER	18.56	333	eP	00	51.00	2.1
TAB	19.14	103	eP	00	46.00	-10.3X
EALH	19.17	257	eP	00	57.00	0.4
ESY	19.28	314	ePd	00	57.10	-0.7
EKA	19.33	312	P	00	58.00	-0.4
	1.0s	59.00nm				4.8mb
ESK	19.35	312	ePd	00	58.20	-0.4
	1.0s	120.00nm				5.1mb
RGS	19.42	343	eP	01	05.00	5.6X
EVIA	19.56	260	eP	01	02.30	1.0
FOO	19.59	335	eP	01	00.53	-0.7
EDU	19.75	315	ePd	01	01.80	-1.3
	1.1s	264.00nm				5.5mb
FRO	19.76	335	eP	01	05.04	2.0
SLY	19.86	110	iPd	01	04.00	-0.4
EBH	19.87	314	ePd	01	04.00	-0.3
	1.1s	237.00nm				5.4mb
GUD	19.92	267	eP	01	05.10	0.0
EHUE	20.01	258	eP	01	07.00	1.0
ELO	20.07	315	ePd	01	05.90	-0.5
ENIJ	20.16	255	eP	01	08.00	0.5
EAB	20.27	313	ePd	01	08.30	-0.3
ETA	20.30	303	eP	01	15.30	6.4X
BHD	20.56	117	iPc	01	12.00	0.3
			iPPP	01	45.00	
			iS	05	00.00	
			eS$	05	50.00	
			eLQ	06	34.00	
ECB	20.59	302	eP	01	11.20	-0.6
DLF	20.62	304	iPd	01	12.00	-0.1
	1.3s	554.00nm				5.8mb
EBAN	20.68	260	eP	01	13.00	0.1
AFC	20.94	258	eP	01	16.00	0.2
ECOG	20.94	258	eP	01	16.00	0.2
DMU	20.97	306	iPd	01	15.80	0.0
	1.3s	513.00nm				5.7mb
DCN	21.06	304	eP	01	17.20	0.5
EGUA	21.16	257	eP	01	18.00	0.1
ERUA	21.48	274	eP	01	21.20	0.1
EPLA	21.50	267	eP	01	21.90	0.5
MAL	21.80	257	iPd	01	24.00	-0.3
STS	22.34	276	eP	01	30.00	0.4
LIJA	22.41	259	eP	01	34.50	4.0X
ASW	22.45	154	iPd	01	32.00	1.2
			eS	05	40.00	
AMAN	22.60	154	eP	01	33.50	1.2
VAL	22.65	300	P	01	32.00	-0.6
			S	05	38.00	
SOD	22.65	4	iP	01	34.20	1.7
EZAM	22.65	274	eP	01	33.10	0.3
ALJ	22.66	259	eP	01	36.00	3.0X
AAHD	22.72	155	eP	01	34.00	0.5
GIBL	22.83	259	eP	01	35.00	0.5
AGMR	22.85	155	iPd	01	36.50	1.7
AKSR	22.90	154	eP	01	35.50	0.2
MOMI	22.92	258	eP	01	36.50	1.1
AGAL	23.04	155	eP	01	38.00	1.4
PLAT	23.05	257	eP	01	37.50	0.8
IR7	23.29	103	ePd	01	40.00	0.8
IR1	23.50	104	ePc	01	42.00	0.8
IR5	23.53	104	eP	01	43.00	1.5
IR4	23.74	104	ePd	01	45.00	1.5
LOF	23.76	352	eP	01	44.81	1.6
KTK1	24.19	1	iPc	01	48.75	1.3
TRO	24.B7	357	eP	01	54.91	0.9
KEV	25.04	4	ePd	01	55.99	0.3
			eS	06	19.45	

Sta	Dist	Azm	Phase	Min	Sec	Res
			esS	06	26.07	
AVE	25.73	254	iPc	02	04.50	2.0
			i	02	17.20	51kmX
TIO	27.07	249	iP	02	16.50	1.5
			i	02	36.00	86kmX
RYD	28.10	128	ePd	02	25.00	0.7
			eS	07	10.00	
DHR	28.98	120	ePc	02	33.00	0.9
			eS	07	20.00	
MAIO	29.23	94	eP	02	35.00	0.5
			eS	07	26.00	
AKU	30.23	328	iP	02	45.00	2.0
	1.8s	218.18nm				5.7mb
KMSA	30.53	136	ePd	02	46.00	-0.1
KBS	34.38	356	iP	03	19.90	0.8
KSH	39.47	79	P	04	04.00	1.5
E	10s	5.90um				
			PP	05	33.00	
			eS	10	08.00	
TIC	44.96	220	Pd	04	48.02	0.6
	1.2s	106.50nm				5.6mb
KIC	45.08	220	Pd	04	49.16	0.8
	1.3s	179.00nm				5.8mb
LIC	45.33	220	Pd	04	51.10	0.7
	1.3s	230.00nm				6.0mb
Z	20s	0.69um				4.6Msz
WMQ	45.54	67	ePd	04	52.61	0.7
N	11s	5.40um				
E	11s	4.40um				
			epPc	04	55.92	11kmX
			ScS	14	49.00	
NDI	45.91	91	iPd	04	54.00	-0.9
NAI	47.71	160	ePd	05	10.00	0.6
Z	16s	0.67um				4.7MszX
			eSS	16	06.00	
FRB	51.34	325	eP	05	35.00	-1.4
IRK	51.95	51	eP	05	41.40	0.1
			e	05	45.00	12kmX
			e	06	00.00	
			e	16	00.00	
HYB	54.03	102	iPc	05	55.80	-1.3
	1.0s	70.00nm				5.6mb
SCH	54.59	315	eP	06	00.00	-0.9
LSA	55.18	81	eP	06	03.80	-2.3
Z	21s	6.B8um				5.7Msz
GTA	55.61	66	iPd	06	08.40	-0.2
	1.0s	40.00nm				5.4mb
Z	18s	5.30um				5.7Msz
N	15s	3.50um				
			PcP	07	07.40	
			PP	08	09.00	
			S	13	56.00	
MBC	56.68	350	ePd	06	15.40	-0.3
	0.6s	11.00nm				5.1mb
KMZ	58.15	176	iPd	06	27.00	0.3
			i	06	31.50	15kmX
			i	06	47.50	
KOD	58.34	109	iP	06	27.10	-1.3
	1.2s	221.88nm				6.1mb
YAK	58.64	32	iPd-	06	27.50	-2.1
			ePcP	07	06.00	
			ePP	08	33.00	
			ePPP	09	51.00	
			eScP	11	18.00	
			ePcS	11	26.00	
			eS	14	32.00	
			ePS	14	39.00	
			eScS	16	18.00	
PTZ	59.41	170	iP	06	34.00	-1.5
			i	07	23.00	215kmX
LSZ	60.10	174	iPc	06	40.20	0.0
			i	06	45.00	16kmX
LZH	60.12	67	ePd	06	40.67	0.3
	1.5s	260.00nm				6.1mb
			ec	06	42.49	
			epPc	06	43.98	11kmX
			eS	14	57.07	
			sS	15	00.00	
BTO	61.41	60	P	06	48.00	-1.1
Z	13s	1.20um				5.2MszX
N	15s	3.60um				
E	16s	3.00um				
			pP	06	52.00	13kmX
			PP	09	08.00	
			S	15	12.00	
KRI	61.77	172	iPc	06	51.50	-0.1
HIA	61.84	47	ePd	06	51.51	-0.2

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                ipPc   06 55.40   13kmX
                eS     15 21.73
                eScS   16 32.80
MTD    61.94 170 iPc   06 53.00    0.4
HHC    62.21  59 Pd    06 54.40   -0.1
       1.4s   130.00nm          5.9mb
     Z  18s     5.10um          5.7Msz
     N  11s     2.30um
     E  12s     2.80um
                pP     06 59.00   15kmX
BNH    62.64 307 P     06 57.50    0.4
CD2    63.17  72 iPd   07 00.80    0.0
       1.2s   200.00nm          6.2mb
     Z  12s     1.80um          5.5MszX
     E  12s     2.30um
HRV    64.08 305 eP    07 04.96   -1.6
                isPc   07 10.17
BRW    64.12 360 ePd   07 07.40    1.1
TIY    64.65  61 Pd    07 09.80   -0.7
       1.5s    88.00nm          5.7mb
     Z  12s     3.98um          5.8MszX
     N  15s     4.84um
     E  15s     3.91um
                S      15 44.00
                sS     15 53.00
XAN    64.67  66 iPd   07 10.50   -0.1
       1.2s   100.00nm          5.9mb
     N  14s     2.50um
     E  12s     1.30um
                S      15 46.00
BUL    64.96 174 iPc   07 11.00   -1.5
       1.2s    39.06nm          5.5mb
BJI    65.49  57 iPd   07 14.98   -0.7
       1.6s   120.00nm          5.8mb
     Z  12s     4.20um          5.9MszX
     N  15s     3.40um
     E  14s    26.00um
                ipPc   07 18.95   13kmX
                eS     16 00.00
INK    65.69 350 eP    07 15.00   -1.6
KMI    66.10  78 iPd   07 19.37   -0.7
       2.5s   400.00nm          6.2mb
     Z  15s     2.20um          5.5MszX
                ec     07 21.53
                ipPc   07 22.93   11kmX
                eS     16 03.14
PNJ    66.60 305 iP    07 24.20    1.5
LVNJ   67.01 305 P     07 25.90    0.5
YKA    67.57 340 eP    07 28.30   -0.3
       1.1s    76.20nm          5.8mb
GYA    67.95  74 iPd   07 30.60   -1.1
       1.4s   200.00nm          6.1mb
     N  12s     2.60um
     E  12s     2.50um
                pP     07 35.00   14kmX
WVLY   68.10 308 P     07 22.80   -9.5X
CN2    68.35  49 Pd    07 33.00   -0.8
       4.0s   600.00nm          6.1mb X
     Z  14s    10.90um          6.2MszX
     N  12s     1.90um
     E  12s     1.50um
                ePP    10 04.00
                eSS    20 52.00
TIA    68.51  60 Pd    07 33.70   -1.2
     Z  20s     2.00um          5.3Msz
     N  13s     2.10um
     E  11s     1.20um
SNY    68.63  52 Pc    07 35.00   -0.5
       1.6s   100.00nm          5.7mb
     Z  16s     4.40um          5.8MszX
     E  12s     2.40um
                PP     10 11.00
                eS     16 31.00
SCP    68.81 307 ePd   07 36.30   -0.4
                esPc   07 41.93
IMA    69.34 358 iPd   07 40.70    1.0
       1.2s    75.76nm          5.7mb
KHT    69.97  89 eP    07 39.00   -5.1X
FFC    70.12 329 ePd   07 44.10   -0.3
       1.3s   125.00nm          5.9mb
COL    70.28 356 ePd   07 45.45    0.2
                ipPc   07 49.09   12kmX
                esPc   07 51.32
                iS     16 59.56
FBA    70.28 356 eP    07 45.80    0.5
       1.1s    56.25nm          5.6mb
CLE    70.40 309 iP    07 46.70    0.3
WHN    70.44  66 eP    07 45.70   -1.0
     E  12s     1.20um
NST    70.46  87 iPd   07 47.90    0.8
SLR    70.48 174 ePd   07 46.17   -0.9
       1.3s    67.31nm          5.6mb
                esPc   07 51.55
NA2    70.51 305 P     07 47.00   -0.1
PRY    71.62 175 iPd   07 55.00    1.1
       1.0s    30.00nm          5.3mb
NJ2    72.32  62 Pd    07 56.70   -1.4
       6.0s   900.00nm          6.0mb X
     Z  16s     1.20um          5.3MszX
     N  12s     1.00um
     E  10s     1.00um
                eS     17 20.00
JOZ    72.52 171 eP    07 56.50   -2.6
TTA    72.52 359 eP    07 59.90    1.1
       1.2s    49.24nm          5.5mb
NAV    72.83 306 P     08 01.20    0.1
TOA    72.96 354 eP    08 02.20    0.8
SEK    73.01 175 iPd   08 04.10    2.0
       1.1s    50.63nm          5.5mb
KLU    73.55 354 P     08 04.70   -0.2
PWA    73.63 356 eP    08 05.50    0.3
       1.2s    97.20nm          5.7mb
PMR    73.65 356 P     08 04.60   -0.7
       1.0s    45.00nm          5.5mb
CAI    73.82 243 eP    08 08.70    1.7
FRS    74.33 177 iPd   08 09.40   -0.1
       0.8s    63.43nm          5.7mb
SVW    74.35 359 ePd   08 10.70    1.3
SSE    74.43  62 Pc    08 09.80   -0.6
       1.2s    34.00nm          5.3mb
     Z  22s     1.04um          5.1Msz
     N  11s     1.20um
     E  11s     0.80um
                pP     08 14.20   14kmX
GZH    74.72  73 P     08 13.40    1.3
     Z  16s     2.90um          5.7MszX
     N  14s     3.40um
     E  14s     2.80um
LHS    74.81 304 P     08 13.00    0.5
JSC    75.21 304 P     08 15.00    0.2
TKL    75.71 306 P     08 17.40   -0.3
HKC    75.81  73 eP    08 19.40    1.0
GBTN   75.95 306 P     08 19.30    0.2
PRM    76.00 304 P     08 20.00    0.7
SES    76.85 331 ePd   08 24.60    0.7
       1.4s   331.00nm          6.2mb
KDC    77.64 357 eP    08 29.20    1.2
       1.3s   292.20nm          6.2mb
FVM    77.70 312 P     08 28.10   -0.6
CER    77.93 183 iPd   08 28.50   -1.3
       1.0s    50.00nm          5.6mb
SOB1   78.26 244 eP    08 31.90   -0.2
PWLA   78.62 308 P     08 33.30   -0.5
RSSD   79.41 324 P     08 37.80   -0.4
     Z  18s     3.23um          5.7Msz
OLY    80.10 311 P     08 42.00    0.2
SDN    80.11   2 eP    08 45.70    4.3X
MAJO   80.34  47 iPd   08 42.38   -0.7
                ipPc   08 46.35   13kmX
                eS     18 49.79
                ePS    19 26.04
MAT    80.34  47 eP    08 42.00   -1.1
       1.6s    40.00nm          5.2mb
     Z  20s     0.71um          5.0Msz
                eS     18 46.00
PNT    80.50 336 ePd   08 45.00    1.3
       1.2s   133.00nm          5.8mb
NEW    80.68 334 P     08 44.90    0.1
LRM    81.25 330 ePd   08 49.00    1.0
DPW    81.37 334 P     08 49.00    0.6
RLO    81.48 313 ePd   08 49.30    0.2
TUL    82.07 314 iPd   08 52.10    0.0
       1.4s   215.90nm          6.0mb
     Z  18s     1.30um          5.3Msz
     N  18s     0.52um
     E  20s     1.44um
                LR     40 49.00
PGC    82.17 338 eP    08 54.00    1.6
BW06   82.76 327 P     08 55.80   -0.2
RMW    82.80 336 P     08 55.70   -0.2
GMW    83.00 337 P     08 57.80    1.0
LON    83.45 336 iPd   08 59.95    0.8
                ed     09 02.44    8kmX
GLD    83.49 322 P     09 05.00    5.3X
     Z  18s     2.12um          5.6Msz
GOL    83.60 322 P     09 00.70    0.4
     Z  20s     2.25um          5.5Msz
PTI    83.76 328 P     09 02.20    1.2
SHW    84.08 336 P     09 01.50   -1.0
BMW    84.10 337 P     09 03.80    1.3
MEO    84.37 315 iPd   09 05.00    1.0
DAU    85.44 326 P     09 10.20    0.5
COR    85.85 336 iPd   09 12.96    1.8
                esPc   09 17.26
DUG    86.24 327 P     09 14.00    0.6
MSU    87.44 326 P     09 20.50    1.1
BAO    87.63 245 ePd   09 22.50    2.2
ANMO   88.02 320 P     09 30.00    7.8X
     Z  18s     2.06um          5.6Msz
ANMO   88.02 320 ePd   09 23.02    0.9
     Z  18s     2.06um          5.6Msz
                epPc   09 26.66   11kmX
                esPc   09 28.65
ALQ    88.02 320 ePd   09 22.70    0.5
       1.0s    31.75nm          5.6mb
     Z  18s     1.37um          5.4Msz
WDC    89.28 334 ePd   09 28.00    0.1
TNP    89.73 329 P     09 31.00    0.7
       1.3s    43.37nm          5.5mb
ORV    89.88 333 ePd   09 30.95    0.2
CMB    90.89 331 ePd   09 35.52    0.1
CWC    91.51 329 eP    09 39.00    0.5
FRI    91.60 331 ePd   09 39.98    1.4
BKS    91.65 333 ePd   09 39.50    0.6
       1.4s    54.00nm          5.7mb
     Z  20s     2.30um          5.6Msz
     N  20s     1.60um
     E  20s     1.10um
                ePP    13 24.00
                eLQ    34 14.00
BRK    91.66 333 eP    09 43.70    4.8X
CLC    91.88 328 eP    09 41.00    0.9
GSC    92.04 328 eP    09 41.74    0.9
                epPc   09 45.13   11kmX
UPA    92.08 285 (P)   09 42.60    1.5
GCC    92.34 332_eP    09 44.10    2.1
ISA    92.34 329 eP    09 43.00    0.8
SAO    92.40 332 eP    09 44.70    2.4
PRI    92.69 331 eP    09 46.19    2.3
TPC    92.80 327 eP    09 46.00    1.7
SBB    92.97 328 eP    09 46.00    0.9
GLA    93.24 325 eP    09 48.00    1.7
RVR    93.42 327 eP    09 48.00    0.9
PEC    93.42 327 P     09 43.30   -3.9X
MWC    93.47 328 eP    09 49.00    1.4
PAS    93.58 328 ePd   09 48.83    1.0
PLM    93.78 327 eP    09 50.00    1.0
BAR    94.30 326 eP    09 52.00    0.8
NVL   115.60 184 PKP   15 14.00    1.1
                e      15 18.50
MAW   116.26 164 ePKP  15 14.00   -0.3
WRA   119.23  90 PKP   15 20.00   -1.4
       1.4s     4.60nm
CTAO  127.75  81 ePdiff12 17.95   -2.7
SBA   144.07 168 iPKPd 16 04.80   -1.5
      S.D. = 1.2  on 436 of 466 obs.
-----------------------------------------
*  JUL  18, 1991  12h 03m 37.68± 1.82s
    8.418 N ± 9.8km   94.472 E ±17.2km
   DEPTH =  76.1 ± 19.9 km
   4.8mb (  8 obs.)
 NICOBAR ISLANDS REGION            (704)

BSI     3.02 164 eP    04 25.00    0.9
                eS     05 04.00
                eS     05 04.50
                e      11 30.00
SNG     6.21 101 eP    05 09.00    0.2
       0.7s   193.15nm          5.6mb
KHT     7.50  32 eP    05 26.70    0.1
IPM     7.55 120 ePc   05 24.70   -2.5
       0.7s    24.60nm          5.0mb
                e      06 50.50
BDT     9.82  26 eP    05 59.10    0.8
       1.2s   210.60nm          6.0mb X
KGM    10.86 125 eP    06 12.00   -0.5
CHG    11.21  22 ePc   06 18.50    1.4
       1.1s    30.06nm          5.1mb
                e      07 29.00
LOE    11.39  38 eP    06 23.00    3.4X
PKI    20.89 337 P     08 15.08   -1.1
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18d 12h

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GUN     21.02 338 P      08 17.52   0.0
DMN     21.04 336 P      08 18.48   0.8
KKN     21.14 337 P      08 16.40  -2.2
        0.9s   119.00nm          5.2mb
WR2     48.33 126 iPc    12 16.00   2.2
        0.6s     6.00nm          4.7mb
HFS     78.15 330 eP     15 29.60  -0.3
        0.4s     1.60nm          4.3mb
NB2     79.42 331 P      15 36.90   0.0
        0.7s     2.30nm          4.2mb
EKA     87.46 325 P      16 20.00   2.1
        0.8s     2.30nm          4.4mb
FBA     93.72  22 (P)    16 45.00  -1.9
INK     96.38  16 eP     17 03.00   4.0X
      S.D. = 1.6  on  16 of  18 obs.
-----------------------------------------
• JUL  18, 1991  12h 35m 45.83± 1.61s
  44.804 N ±10.4km   22.167 E ±17.2km
  DEPTH =  10.0km  (geophysicist)
 ROMANIA                              (358)

DEV      1.20  25 iPd    36 07.50  -0.6
DRA      1.49  94 iPc    36 12.00  -0.7
MTUR     2.10  77 eP     36 22.00   0.5
MLR      2.76  74 ePc    36 33.00   2.0
SKO      2.88 191 ePn    36 34.00   1.4
VRI      3.39  70 eP     36 39.00  -0.8
VAY      3.49 175 ePn    36 40.00  -1.3
RZN      3.63 148 iP     36 43.00  -0.4
      S.D. = 1.4  on   8 of   8 obs.
-----------------------------------------
• JUL  18, 1991  12h 43m 18.28± 1.16s
  19.476 S ± 8.7km   70.166 W ±11.5km
  DEPTH =  85.9 ± 11.4 km
  4.5mb (  2 obs.)
 NEAR COAST OF NORTHERN CHILE         (122)

CNCB     3.37  38 P      44 11.00   0.8
LPB      3.53  34 P      44 12.90   0.6
        1.0s   500.00nm
      Z  20s     1.42um
                  LR     49 26.00
ZOBO     3.74  32 P      44 14.40  -0.9
      Z  20s     0.79um
                  LR     49 00.00
ANT      4.21 183 eP     44 21.00  -0.4
CCH      4.35  62 P      44 24.00   0.3
                  i      44 38.50
PPD     17.82 101 (P)    47 22.00  -0.1
BAO     21.48  83 e(P)   48 02.00   0.3
RLO     60.13 337 eP     53 17.30  -1.7
ALO     64.16 327 eP     53 45.00  -1.2
ANMO    64.17 327 P      53 45.60  -0.6
GOL     67.42 331 P      54 07.00   0.0
KIC     69.30  75 (P)    54 17.00  -1.8
TNP     72.32 323 P      54 37.80   1.0
        1.0s     5.00nm          4.4mb
SES     78.35 335 eP     55 11.00   0.4
PNT     81.33 330 eP     55 28.00   1.6
YKA     88.90 341 eP     56 03.70  -0.1
        0.8s     4.30nm          4.7mb
WRA    134.05 213 PKP    02 30.00   1.9
        0.8s     0.80nm
      S.D. = 1.2  on  17 of  17 obs.
-----------------------------------------
  JUL  18, 1991  13h 24m 59.90± 0.22s
  30.363 N ± 4.1km   94.870 E ± 3.5km
  DEPTH =  33.0km  (normal)
  5.0mb ( 36 obs.)
 TIBET                                (306)

LSA      3.29 259 Pg     25 59.00   8.2X
                  Sg     26 45.00
SHL      5.46 210 iP     26 20.80  -0.4
                  eS     27 45.00
KMI      8.71 125 Pc     27 06.50  -0.3
                  sP     27 19.00
LZH      9.44  50 eP     27 17.50   0.8
        1.5s    43.00nm          5.4mb
      Z  10s     0.80um          4.2Msz
                  pP     27 23.50
                  eS     29 00.00
GTA      9.89  23 eP     27 22.40  -0.6
      Z  10s     0.60um
                  S      29 16.00
GYA     11.09 108 iPc    27 37.80  -1.5
        1.0s    30.00nm          5.4mb
CHG     12.08 161 eP     27 52.40  -0.3
XAN     12.45  69 eP     27 58.00   0.3
WMQ     14.59 339 P      28 24.50  -1.3
        1.0s   100.00nm          5.2mb
                  PP     28 32.50
KHT     15.88 167 eP     28 47.00   4.4X
BTO     15.99  46 eP     28 43.50  -0.6
                  pP     28 49.00
TIY     16.29  59 eP     28 46.50  -1.3
WHN     16.80  84 ePc    28 53.00  -1.2
        1.5s   100.00nm          4.7mb
HHC     17.11  48 eP     28 56.80  -1.4
        1.5s    60.00nm          4.5mb
OIZ     17.65 126 eP     29 04.00  -0.9
TIA     19.48  67 eP     29 28.20   1.2
HYB     19.68 233 eP     29 27.70  -1.6
                  e      30 11.50
BJI     19.87  55 eP     29 32.00   1.0
        1.5s    40.00nm          4.5mb
NJ2     20.58  79 Pc     29 39.80   1.3
SSE     22.62  81 Pc     30 01.30   2.2
        1.5s    43.00nm          4.7mb
                  pP     30 08.50  26kmX
GBA     23.17 228 Pd     30 04.30  -0.2
        0.7s    12.90nm          4.5mb
SNG     23.69 166 eP     30 11.00   1.4
KOD     25.77 223 eP     30 31.80   2.0
IPM     26.30 166 ePc    30 35.20   0.8
CN2     27.66  53 eP     30 46.50  -0.1
        1.3s    30.00nm          4.8mb
      Z  14s     1.20um          4.6MszX
      N  10s     0.20um
      E  10s     0.20um
                  esP    31 02.00
                  ePcP   34 06.00
                  eS     35 22.00
MAIO    30.03 291 eP     31 09.00   0.9
YAK     38.92  25 eP     32 24.00   0.1
OBN     47.71 319 iPc    33 35.20   0.0
        1.7s   100.00nm          5.6mb
VRI     54.22 307 ePc    34 25.00   0.5
MLR     54.82 307 ePc    34 29.00  -0.1
KRA     58.04 313 eP     34 52.00   0.2
SKO     58.74 303 eP     34 56.00  -0.8
HFS     59.88 325 eP     35 03.20  -1.3
        1.4s    53.30nm          5.5mb
KSP     60.17 314 eP     35 06.70   0.2
NB2     60.93 326 P      35 10.80  -0.9
        1.3s    23.40nm          5.2mb
PRU     61.45 314 P      35 16.00   0.7
BRG     61.61 315 eP     35 17.10   0.8
        1.4s    16.00nm          5.0mb
                  e      35 39.70
CLL     62.08 315 e(P)   35 19.00  -0.5
KHC     62.28 313 P      35 23.00   2.1
WRA     62.80 138 P      35 24.00  -0.6
        0.7s     3.90nm          4.6mb
WR2     62.81 138 iPd    35 24.40  -0.3
        0.7s     5.10nm          4.8mb
MOX     63.10 315 iPc    35 28.00   1.7
        1.8s    23.00nm          5.0mb
BHG     63.11 311 eP     35 37.00  10.6X
GRF     63.61 314 eP     35 30.80   1.2
        0.8s    14.00nm          5.1mb
ASPA    65.49 141 eP     35 42.00  -0.2
        0.8s     6.50nm          4.8mb
CDF     66.47 313 eP     35 47.50  -0.8
BSF     66.97 313 eP     35 50.70  -0.8
        1.2s    17.85nm          5.0mb
HAU     67.19 313 eP     35 52.30  -0.5
LPG     67.82 311 eP     35 57.00  -0.2
        0.9s    19.65nm          5.2mb
LPL     67.83 311 eP     35 57.00  -0.1
        0.9s    17.20nm          5.1mb
SBF     67.96 309 eP     35 57.10  -0.6
        1.0s    26.00nm          5.3mb
LOR     69.03 313 eP     36 03.40  -0.9
LBF     69.06 313 eP     36 03.70  -0.8
        1.0s     9.00nm          4.8mb
SMF     69.28 313 eP     36 05.00  -0.8
        1.1s    19.55nm          5.1mb
SSF     69.33 313 eP     36 05.50  -0.6
        1.0s    15.00nm          5.0mb
AVF     69.53 313 eP     36 06.90  -0.4
        1.1s    17.10nm          5.0mb
EKA     69.89 323 P      36 12.00   2.7
        1.3s    16.00nm          4.9mb
BGF     69.94 313 eP     36 09.20  -0.6
MAF     70.25 313 eP     36 11.90   0.1
        1.1s    15.85nm          5.0mb
TCF     70.45 313 eP     36 12.90  -0.1
        1.1s    20.75nm          5.1mb
LSF     70.90 313 eP     36 15.00  -0.7
CAF     71.10 311 eP     36 17.00   0.1
        1.0s    14.00nm          5.0mb
RJF     71.30 312 eP     36 18.50   0.4
        1.1s    24.40nm          5.2mb
MBC     71.50   8 eP     36 20.50   1.7
        1.5s    26.00nm          5.0mb
LPO     71.77 311 eP     36 20.90   0.0
        1.1s    14.65nm          4.9mb
LFF     71.95 312 eP     36 22.10   0.1
        1.1s    17.10nm          5.0mb
FBA     73.41  23 P      36 31.20   1.0
INK     75.32  17 eP     36 41.00  -0.1
MTD     76.83 242 iPc    36 50.20  -0.4
BUL     81.09 241 iPd    37 12.70  -1.0
        1.0s    12.50nm          4.9mb
BUL     81.09 241 iPc    37 14.00   0.3
        1.0s    12.50nm          4.9mb
      S.D. = 1.0  on  68 of  71 obs.
-----------------------------------------
  JUL  18, 1991  13h 25m 41.06± 0.57s
  46.675 N ± 5.8km   10.503 E ± 5.0km
  DEPTH =   7.2 ±  4.6 km
 NORTHERN ITALY                       (545)
      MD 3.0 (TRI). ML 2.5 (VIE).

OSS      0.25 273 ePd    25 44.60  -1.7
VDL      0.74 256 ePd    25 53.20  -2.6
SCE      0.90  66 iPgd   25 56.90  -1.9
WTTA     0.97  52 iPg    25 58.40  -1.6
        0.4s    34.00nm
                  iSg    26 12.50
SAL      1.07 179 P      25 59.80  -1.6
                  eSg    26 12.40
TMA      1.26 244 ePc    26 03.60  -1.3
FVI      1.57  92 P      26 09.10  -0.2
                  eSg    26 28.80
ZLA      1.66 300 eP+    26 12.20   1.5
SLE      1.75 309 ePc    26 13.10   1.1
MMK      1.86 251 ePc    26 13.40  -0.5
BOB      2.05 202 P      26 17.30   1.0
                  eSg    26 42.90
FEL      2.08 306 ePn    26 16.68  -0.2
TRI      2.46 112 ePn    26 25.90   3.7X
                  iSn    26 57.90
SFI      2.91 160 P      26 28.40  -0.2
PGD      2.93 162 P      26 29.20   0.2
GRF      3.06   9 ePg    26 41.80  11.1X
                  eSg    27 17.00
BNI      3.13 240 P      26 34.50   2.7X
KHC      3.21  39 ePn    26 32.50  -0.4
                  ePg    26 40.50
                  eSn    27 10.30
                  Sg     27 24.70
SBF      3.55 219 Pg     26 39.00   1.3
                  Sg     26 53.50
FRF      4.14 223 Pg     26 45.40  -0.6
LRG      4.36 224 Pg     26 50.50   1.4
LMR      4.38 222 Pg     26 49.00  -0.4
      S.D. = 1.3  on  19 of  22 obs.
-----------------------------------------
  JUL  18, 1991  14h 03m 44.97± 0.67s
  44.843 N ± 6.3km   22.323 E ± 7.1km
  DEPTH =  10.0km  (geophysicist)
 ROMANIA                              (358)

DEV      1.12  21 iPd    04 06.00   0.1
DRA      1.39  96 iPd    04 11.00   0.7
CMP      1.97  77 iPc    04 20.00   1.2
MTUR     1.98  78 ePd    04 20.00   1.0
VTS      2.34 164 iP     04 24.00  -0.2
MLR      2.64  75 eP     04 28.00  -0.5
SKO      2.94 193 ePn    04 32.00  -0.6
                  e      04 38.80
BMR      2.95  16 iPc    04 45.00  12.4X
VRI      3.27  70 eP     04 40.00   2.7X
BUD      3.50 320 ePn    04 41.00   0.6
VAY      3.52 177 ePn    04 42.30   1.4
RZN      3.61 150 eP     04 42.00  -0.2
TLB      4.08  92 eP     04 46.00  -2.7
KHC      7.36 309 eP     05 34.30  -0.7
                  e      08 24.20
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      S.D. = 1.2  on  12 of  14 obs.
-----------------------------------------
   JUL  18, 1991  14h 28m 53.50± 0.21s
   13.233 N ± 3.5km   144.125 E ± 4.6km
   DEPTH = 104.1km  (  5 depth phases)
   5.4mb ( 23 obs.)
 MARIANA ISLANDS                    (216)
      Felt (III) on Guam.
      CENTROID, MOMENT TENSOR      (HRV)
      Data Used: GDSN
      L.P.B.: 16S, 35C
      Centroid Location:
      Origin Time        14:28:57.9 0.6
      Lat 13.04N 0.05 Lon 144.18E 0.06
      Dep  94.3 4.8 Half-duration  1.6
      Moment Tensor;   Scale 10**16 Nm
        Mrr=-6.22 0.47  Mtt= 1.10 0.69
        Mff= 5.11 0.89  Mrt=-4.34 0.49
        Mrf=-3.96 0.51  Mtf= 2.88 0.60
       Principal Axes:
        T  Val=  8.72  Plg=21  Azm=122
        N       -0.03       10       216
        P       -8.69       66       331
      Best Double Couple:Mo=8.7*10**16
       NP1:Strike=194 Dip=26 Slip=-115
       NP2:         41      67       -79

PJG      0.80  64 iPd    29 13.30   0.8
GUA      0.82  68 iPd    29 13.60   0.9
RAB     19.06 155 iPc    33 11.00   0.5
DAV     19.25 253 eP     33 13.80   1.4
CGP     19.66 258 iPd    33 17.00   0.3
        1.3s   163.00nm          5.2mb
LAT     19.96 172 eP     33 27.20   7.3X
KAGJ    21.63 328 eP     33 37.70   1.1
PMG     22.69 172 e(P)   33 43.00  -4.1X
KUMJ    22.74 330 eP     33 48.80   1.4
IIDJ    22.85 347 P      33 49.50   1.0
KAKJ    23.15 352 eP     33 51.40   0.1
CHJJ    23.18 349 P      33 51.20  -0.5
TSRJ    23.39 343 eP     33 55.50   1.8
MAT     23.81 348 iPd    33 56.90  -0.9
        1.8s   259.09nm          5.3mb
                eS       38 02.00
SHNJ    23.93 333 eP     33 57.30  -1.6
MTMJ    23.94 347 P      33 59.10   0.0
NIIJ    24.34 350 eP     34 02.90   0.0
YAMJ    25.10 352 P      34 10.10   0.0
OFUJ    25.84 356 eP     34 16.70  -0.1
SSE     27.60 314 Pd     34 32.70  -0.3
        1.4s    51.00nm          4.9mb
      Z  20s     0.90um          4.3Msz
      E  12s     0.30um
MTN     28.94 207 eP     34 44.30  -0.8
NJ2     29.78 313 eP     34 52.30  -0.2
WHN     32.41 307 iPc    35 16.50   1.0
        1.2s   100.00nm          5.5mb
                pP       35 38.50  96km
KNA     32.56 208 eP     35 16.00  -0.9
CTAO    33.18 176 iP     35 22.00  -0.3
        0.9s    17.30nm          4.9mb
TIA     33.33 318 Pd     35 23.10  -0.4
QIZ     33.39 285 Pd     35 25.00   0.8
QIS     33.87 188 iPd    35 28.00  -0.3
        0.8s    26.00nm          5.1mb
                i        35 53.50 114km
WR2     34.34 196 iPc    35 31.90  -0.4
        1.0s    88.80nm          5.6mb
CN2     34.43 336 eP     35 32.00  -0.8
        6.0s   400.00nm          5.5mb X
      Z  18s     1.50um          4.8Msz
      N  14s     0.40um
      E  14s     0.50um
                PcP      38 02.00
                eS       41 00.00
BJI     36.28 323 eP     35 48.00  -0.5
        1.0s    40.00nm          5.3mb
      Z  20s     0.30um          4.1Msz
                epP      36 16.00 123kmX
TIY     37.28 317 eP     35 56.70  -0.4
        1.0s    40.00nm          5.3mb
      Z  30s     1.26um          4.5MszX
GYA     37.47 296 iPd    36 00.00   1.2
        1.2s   100.00nm          5.6mb
                PcP      38 15.00
ASPA    38.01 195 iPd    36 03.30   0.0
        0.8s    30.90nm          5.3mb
      Z  19s     0.40um          4.2Msz
                iS       38 46.80
                i        41 46.00
XAN     38.05 309 eP     36 03.50  -0.1
HHC     39.57 320 P      36 15.80  -0.4
BTO     40.41 319 P      36 23.80   0.7
CD2     41.07 302 iPd    36 28.90   0.4
        0.6s   100.00nm          5.8mb
DZM     41.35 148 iPd    36 31.90   1.0
KGM     41.88 258 ePc    36 36.50   1.2
LZH     42.68 309 Pd     36 42.50   0.7
        1.5s   210.00nm          5.7mb
                pP       37 07.50 108km
                sP       37 20.00
                PP       38 23.50
                eS       43 00.00
                sS       43 41.00
WARB    42.71 203 eP     36 43.00   1.1
        0.3s    41.00nm          5.7mb
SNG     43.20 266 eP     36 47.10   1.1
                e        37 10.20  98km
IPM     43.38 263 ePd    36 48.50   1.0
CHG     43.69 283 eP     36 50.40   0.4
STK     44.92 183 iPd    36 59.20  -0.4
        0.9s     5.20nm          4.3mb X
FORR    46.46 199 eP     37 12.00   0.3
        0.3s    31.00nm          5.6mb
GTA     46.87 312 Pd     37 15.20   0.0
        0.8s    40.00nm          5.3mb
      Z  20s     0.30um          4.2Msz
                pP       37 40.00 105km
COOL    49.11 206 eP     37 31.70  -0.7
        0.3s    22.00nm          5.6mb
YAK     49.80 351 iPc    37 36.10  -1.2
                i        38 06.00 129kmX
BFD     50.16 182 ePd    37 38.30  -2.0
        0.9s   105.00nm          5.8mb
MRWA    50.19 212 eP     37 40.00  -0.7
        0.3s    14.00nm          5.4mb
SHL     50.49 292 iP     37 43.00  -0.3
TOO     50.55 179 iPd    37 45.00   1.7
        0.5s    40.00nm          5.7mb
BAL     50.95 211 eP     37 45.30  -1.1
KLB     51.24 209 eP     37 47.00  -1.7
        0.3s    12.00nm          5.4mb
LSA     51.52 297 Pd     37 49.80  -1.6
MUN     52.31 210 eP     37 55.50  -1.1
NWAO    52.60 209 eP     37 58.00  -0.8
RKG     54.07 208 eP     38 12.00   2.5
WMQ     56.86 314 P      38 29.50  -0.2
                pP       38 59.50 126kmX
HYB     63.12 283 iPd    39 12.00  -0.7
GBA     64.67 279 Pd     39 21.10  -1.7
        0.4s     3.40nm          4.6mb
KOD     65.17 275 eP     39 25.40  -1.1
INK     74.97  22 eP     40 23.00  -1.6
MAIO    78.01 305 iPd    40 42.80   0.4
MBC     78.79  14 eP     40 44.00  -1.8
        0.5s     2.00nm          4.2mb X
YKA     83.51  27 eP     41 09.20  -1.5
        0.9s     3.70nm          4.3mb X
PNT     84.12  41 ePc    41 14.00  -0.1
        0.6s     5.00nm          4.6mb
ISA     88.29  54 eP     41 35.00   0.1
TNP     88.62  51 P      41 36.20  -0.4
PAS     88.92  55 eP     41 38.00   0.2
CLC     88.94  54 eP     41 38.00   0.1
MWC     88.99  55 eP     41 39.00   0.6
SBB     89.06  55 eP     41 39.00   0.5
RVR     89.60  55 eP     41 40.00  -1.0
GSC     89.70  54 eP     41 42.00   0.4
BAR     90.52  56 eP     41 45.00  -0.3
TPC     90.63  55 eP     41 46.00   0.2
GLA     91.91  56 eP     41 53.00   1.3
BW06    92.73  45 P      41 53.60  -2.0
LSZ    118.07 260 iPKP   47 31.00   0.2
KIC    143.46 300 PKP    48 14.60  -3.8X
TIC    143.54 301 PKP    48 14.72  -3.9X
LIC    143.77 300 PKP    48 15.64  -3.3X
ARE    145.45 100 ePKP   48 24.00   1.9
ZOBO   148.69 100 PKP    48 27.30  -0.4
        1.6s   119.05nm
                i        48 33.00
LPB    148.70 100 PKP    48 33.30   5.8X
CNCB   148.81 101 PKP    48 29.90   2.0
                i        48 34.00
CCH    150.53 102 ePKP   48 31.00   0.9
      S.D. = 1.0  on  84 of  90 obs.
-----------------------------------------
*  JUL  18, 1991  15h 13m 55.55± 0.94s
   45.487 N ± 9.7km   21.059 E ± 9.7km
   DEPTH =  10.0km  (geophysicist)
 ROMANIA                            (358)

BEO      0.79 213 iPg    14 12.20   1.3
                iSg      14 24.00
DEV      1.35  72 ePc    14 21.00   0.6
SRO      3.00 322 i(P)   14 43.90   0.0
MLR      3.44  88 eP     14 59.00   8.7X
SKO      3.52 175 ePn    14 55.50   4.0X
                e        15 01.00
PTJ      3.60 278 eP     14 52.00  -0.6
VAY      4.31 165 ePn    15 01.30  -1.3
      S.D. = 1.4  on   5 of   7 obs.
-----------------------------------------
   JUL  18, 1991  15h 24m 05.12± 0.29s
    8.439 N ± 5.4km   94.629 E ± 5.2km
   DEPTH =  16.2km  (  5 depth phases)
   5.1mb ( 41 obs.)
 NICOBAR ISLANDS REGION             (704)

BSI      3.00 167 eP     24 55.00   2.2
                eS       25 01.50
                e        30 00.00
SNG      6.06 102 eP     25 37.60   1.4
        0.5s   270.42nm          6.3mb X
KHT      7.41  31 eP     25 56.00   0.8
IPM      7.42 121 ePd    25 53.00  -2.4
        0.5s    17.10nm          5.5mb
                e        27 19.60
NST      8.98  36 eP     26 18.40   1.3
BDT      9.73  26 eP     26 28.20   0.7
KGM     10.75 126 ePd    26 42.00   0.6
CHG     11.13  22 eP     26 48.00   1.3
        1.0s    12.00nm          5.1mb
KOD     17.03 277 eP     27 58.00  -6.5X
SHL     17.23 352 eP     28 05.00  -1.9
                eS       31 25.00
GBA     17.64 288 Pd     28 14.90   3.1X
        0.7s     9.00nm          4.0mb X
HYB     18.02 301 eP     28 11.00  -5.6X
QIZ     18.13  53 eP     28 24.00   6.1X
      N  12s     2.90um
      E  13s     0.80um
KMI     18.31  24 Pd     28 23.50   3.2X
      Z  16s     1.90um
                pP       28 30.00
PKI     20.93 337 P      28 46.44  -3.6X
GUN     21.06 338 P      28 46.42  -4.9X
DMN     21.09 336 P      28 47.36  -4.1X
KKN     21.18 337 P      28 48.50  -3.9X
GYA     21.25  31 P      28 53.00   0.0
      N  12s     1.10um
      E  12s     1.30um
GKN     21.63 335 P      28 51.82  -5.0X
        0.7s   105.00nm          5.3mb
CD2     23.93  20 eP     29 19.20  -0.1
NDI     25.97 323 eP     29 35.00  -3.8X
XAN     28.68  25 eP     30 02.40  -1.1
WHN     28.70  37 eP     30 10.00   6.4X
LZH     28.78  16 eP     30 07.50   3.0X
        2.0s    63.00nm          5.0mb
      Z  19s     0.69um          4.3Msz
GTA     31.19   8 eP     30 26.60   0.8
        0.8s    10.00nm          4.7mb
      Z  22s     0.70um          4.3Msz
                pP       30 31.60  17km
NJ2     32.53  40 eP     30 38.20   0.7
TIY     33.30  26 eP     30 44.00  -0.2
BTO     34.83  21 eP     31 02.00   4.5X
HHC     35.62  22 eP     31 04.80   0.6
WMO     35.76 351 P      31 03.50  -1.8
BJI     36.88  28 eP     31 22.00   7.3X
        0.8s    94.00nm          5.6mb
      Z  22s     0.61um          4.3Msz
                eS       37 04.00
SNY     41.94  33 Pc     32 02.70   6.1X
MAIO    42.31 316 eP     32 00.00   0.1
CN2     44.30  32 eP     32 21.50   5.7X
      Z  16s     0.60um          4.6MszX
                ePcP     34 03.00
                eS       38 50.00
WR2     48.22 126 iPd    32 44.30  -3.0
        0.6s     3.70nm          4.6mb
```

18d 15h

```
                 i       32 50.80   22km
ASPA    49.91 131 iPd    33 03.10   2.9X
        1.0s     7.20nm            4.6mb
YAK     59.31  18 eP     34 06.70   -1.5
OBN     65.14 327 iPc    34 47.50    0.2
        1.1s   *******nm           8.5mb X
      Z  18s     0.50um            4.8Msz
                 i       34 52.00   14km
KAF     72.51 333 iP     35 32.70   -0.1
        0.8s    12.00nm            5.0mb
NUR     72.88 331 eP     35 34.00   -1.0
KRA     73.75 320 ePc    35 39.90   -0.3
        0.7s    25.00nm            5.4mb
                 e       35 43.90   13km
SOD     73.87 338 eP     35 36.00   -4.6X
KEV     74.47 340 eP     35 46.00    1.9
SRO     74.61 317 iP     35 46.20    0.9
ZST     75.44 318 eP     35 49.40   -0.7
KSP     76.14 320 iP     35 54.00    0.0
        0.8s    20.00nm            5.2mb
LJU     77.11 315 e(P)   36 00.00    0.5
PRU     77.22 319 eP     36 00.50    0.5
VOY     77.55 315 e(P)   36 01.90   -0.2
BRG     77.63 320 iP     36 02.70    0.5
        1.2s    22.00nm            5.1mb
KHC     77.82 318 iP     36 04.00    0.6
HFS     78.21 330 eP     35 59.90   -5.3X
        0.6s     3.30nm            4.6mb
CLL     78.23 321 iP     36 05.90    0.4
        1.7s    26.00nm            5.0mb
WET     78.28 318 iPc    36 06.80    0.9
        1.0s    18.00nm            5.1mb
SFI     79.01 313 P      36 11.30    1.4
MOX     79.10 320 iPc    36 11.00    0.6
        1.4s    14.00nm            4.8mb
GRF     79.36 319 eP     36 12.90    1.1
        1.5s    46.00nm            5.3mb
                 e       36 17.50   15km
NB2     79.48 331 P      36 06.00   -6.2X
        0.7s     1.30nm            4.1mb X
CDF     82.00 318 eP     36 25.20   -0.7
        0.9s     8.20nm            4.8mb
SBF     82.20 313 eP     36 26.50   -0.5
        0.8s    25.50nm            5.4mb
BSF     82.36 317 eP     36 27.00   -0.8
LPG     82.56 315 eP     36 28.60   -0.5
        0.8s    22.15nm            5.3mb
LPL     82.58 315 eP     36 28.60   -0.5
        0.7s    27.55nm            5.5mb
HAU     82.65 317 eP     36 28.60   -0.6
        0.8s    16.10nm            5.2mb
      Z  20s     0.08um            4.1Msz
BNI     82.65 314 P      36 30.20    0.8
FRF     82.79 313 eP     36 29.60   -0.4
        1.0s    28.00nm            5.4mb
LRG     83.01 313 eP     36 31.00   -0.1
        1.1s    31.75nm            5.4mb
LBF     84.34 317 eP     36 37.30   -0.6
        0.8s    10.75nm            5.1mb
LOR     84.39 317 eP     36 37.80   -0.3
        1.1s    26.85nm            5.4mb
      Z  20s     0.08um            4.1Msz
SMF     84.47 316 eP     36 38.00   -0.5
        0.8s    10.75nm            5.1mb
SSF     84.66 317 eP     36 39.60    0.2
        0.8s     5.35nm            4.8mb
AVF     84.79 316 eP     36 39.60   -0.4
        1.0s    14.00nm            5.1mb
BGF     85.17 316 eP     36 42.00    0.1
        1.2s    25.30nm            5.3mb
MAF     85.40 316 eP     36 43.10    0.0
        0.7s     4.40nm            4.8mb
CAF     85.92 315 eP     36 46.00    0.2
        0.9s     8.20nm            4.9mb
LSF     86.11 316 eP     36 46.50   -0.1
        0.8s     5.35nm            4.8mb
RJF     86.25 315 eP     36 47.40    0.0
        0.8s     8.05nm            5.0mb
LPO     86.57 314 eP     36 49.20    0.3
        0.7s     8.80nm            5.1mb
LFF     86.85 315 eP     36 50.60    0.3
        0.8s     8.05nm            5.0mb
LDF     86.87 319 eP     36 50.00   -0.3
        0.8s    10.75nm            5.1mb
FLN     87.08 319 eP     36 51.30    0.0
        0.8s    10.75nm            5.1mb
      Z  20s     0.08um            4.1Msz
MFF     87.20 317 eP     36 51.80   -0.1
        0.8s     8.05nm            5.0mb
EKA     87.53 325 Pc     36 48.40   -4.9X
        1.0s     4.80nm            4.7mb
LPF     87.57 318 eP     36 54.00    0.4
        1.0s    14.00nm            5.2mb
INK     96.32  16 eP     37 31.00   -2.9
PPD    144.57 244 ePKP   43 44.50    1.1
ZOBO   161.45 244 PKP    44 11.00    3.4X
     S.D. = 1.0  on  65 of  88 obs.
----------------------------------------
? JUL 18, 1991  15h 28m 00.32± 7.29s
  39.499 N ±61.6km   28.846 E ±17.3km
  DEPTH =  10.0km (geophysicist)
 TURKEY                            (366)
      MD 2.9 (ISK).

DST      0.20 302 iPg    28 03.90   -0.8
IZI      0.97  30 ePn    28 18.50   -0.2
YLV      1.14  21 iPn    28 22.00    0.3
HRT      1.46  25 ePn    28 26.50   -0.3
KGT      1.52 309 ePn    28 28.50    1.0
CTT      1.68 349 ePn    28 30.00    0.2
     S.D. = 0.8  on  6 of  6 obs.
----------------------------------------
* JUL 18, 1991  15h 38m 41.81± 0.82s
  26.338 S ± 7.2km   27.206 E ±13.4km
  DEPTH =   5.0km (geophysicist)
 REPUBLIC OF SOUTH AFRICA          (584)
      mbLg 3.6 (BUL).

PRY      0.64 158 eP     38 55.00    0.5
        1.0s   940.00nm
                  S      39 00.50
SLR      1.14  58 iPd    39 03.00   -0.7
                  S      39 16.00
SEK      2.01 169 iPd    39 21.80    4.8X
                  S      39 44.30
FRS      3.79 206 e(P)   39 43.00    0.9
                  S      40 21.00
JOZ      4.49 105 e(P)   39 57.00    4.9X
        0.5s    56.34nm
                  S      40 46.50
BUL      6.30  12 iPnc   40 19.50    1.7
                  iSn    41 25.00
                  iSg    41 59.00
KRI      9.72  14 iPn    41 06.50    0.9
                  iSn    42 50.00
                  iSg    43 44.00
CER      9.80 223 eP     41 05.10   -1.4
                  S      42 52.20
LSZ     11.04   5 iPn    41 24.00    0.3
                  iSn    43 23.00
                  iSg    44 36.00
PTZ     12.63  19 iPn    41 43.00   -2.2
                  iSn    43 57.40
                  iSg    45 13.00
     S.D. = 1.6  on  8 of  10 obs.
----------------------------------------
* JUL 18, 1991  16h 56m 27.01± 2.14s
  0.071 N ±16.0km  123.321 E ±17.4km
  DEPTH = 213.7 ± 23.9 km
  4.6mb (  7 obs.)
 MINAHASSA PENINSULA               (265)

TSM      6.87 308 iPd    58 05.70   -0.7
WR2     22.65 152 iPd    01 10.80   -0.1
        0.5s    30.20nm            5.1mb
IPM     22.72 282 ePd    01 12.10    0.5
        0.7s    23.70nm            4.9mb
SNG     23.72 288 eP     01 22.80    1.6
ASPA    25.74 157 eP     01 40.10    0.3
        0.6s     7.20nm            4.5mb
CHG     30.32 309 eP     02 21.00    0.2
        0.8s     9.51nm            4.5mb
STK     36.18 153 eP     03 11.30    0.5
        0.9s     2.00nm            3.7mb
MAT     38.83  19 eP     03 33.00    0.1
        0.7s     4.11nm            4.1mb
BUL     94.45 250 iPc    09 22.30   -2.3
        0.9s     5.46nm            4.7mb
     S.D. = 1.3  on  9 of  9 obs.
----------------------------------------
* JUL 18, 1991  17h 02m 11.65± 0.89s
  44.766 N ± 8.6km   22.530 E ± 9.0km
  DEPTH =  10.0km (geophysicist)
 ROMANIA                           (358)
DEV      1.15  13 iPd    02 31.00   -2.1
DRA      1.23  93 iPc    02 35.00    0.4
MTUR     1.86  75 ePc    02 45.00    1.2
MLR      2.52  72 ePc    02 53.00   -0.5
SKO      2.90 196 ePn    02 59.00    0.2
                  e      03 03.40
BMR      2.98  13 ePd    03 10.00   10.2X
VRI      3.16  68 eP     03 03.00    0.6
VAY      3.44 179 ePn    03 05.00   -1.4
KHC      7.52 309 eP     04 05.50    1.5
     S.D. = 1.5  on  8 of  9 obs.
----------------------------------------
* JUL 18, 1991  17h 38m 50.57± 1.09s
  45.776 N ±10.5km   26.501 E ±12.5km
  DEPTH = 150.4 ± 12.5 km
  3.4mb (  1 obs.)
 ROMANIA                           (358)

VRI      0.18  59 iPc    39 11.00    0.6
BRD      0.46 124 iPc    39 12.50    0.5
MLR      0.48 234 ePc    39 11.00   -1.3
PPE      0.89  60 ePd    39 16.50    1.7
CMP      1.15 244 iPc    39 19.00    2.0
MTUR     1.15 242 iPc    39 15.50   -1.6
CFR      1.30 116 iPd    39 17.50   -0.9
IAS      1.60  27 ePc    39 21.00   -0.5
TLB      1.61 137 iPc    39 20.00   -1.6
CTT      4.83 162 ePn    40 04.50    1.9
HRT      5.46 154 ePn    40 10.50   -0.5
NB2     17.72 335 P      42 48.80   -0.3
        0.6s     1.10nm            3.4mb
     S.D. = 1.6  on  12 of  12 obs.
----------------------------------------
* JUL 18, 1991  17h 45m 43.54± 0.80s
  30.362 N ±10.1km   94.667 E ±12.4km
  DEPTH =  33.0km (normol)
  4.2mb (  2 obs.)
 TIBET                             (306)

LSA      3.12 259 Pn     46 36.00    4.0X
                  Pg     46 43.20
                  Sn     47 20.00
SHL      5.37 208 eP     47 04.00    0.3
                  eS     48 28.00
CD2      7.85  84 ePn    47 43.60    5.2X
KMI      8.85 124 eP     48 02.50   10.1X
LZH      9.57  51 eP     48 00.00   -2.3
        2.0s    28.00nm            5.1mb X
CHG     12.14 160 eP     48 36.00   -1.1
WMQ     14.53 340 P      49 08.00   -0.7
BTO     16.12  47 eP     49 32.00    2.7
TIY     16.44  59 eP     49 34.00    0.7
HHC     17.24  48 eP     49 42.60   -0.8
BJI     20.01  55 eP     50 17.50    1.3
CN2     27.80  53 eP     51 31.30   -0.2
OBN     47.60 319 eP     54 20.00    2.1
        1.0s  8000.00nm            7.7mb X
NB2     60.84 326 P      55 53.70   -1.0
        0.7s     1.70nm            4.3mb
WRA     62.91 138 P      56 10.00    1.0
        0.6s     0.90nm            4.1mb
INK     75.37  17 eP     57 23.00   -2.0
     S.D. = 1.7  on  13 of  16 obs.
----------------------------------------
& JUL 18, 1991  17h 48m 17.55s
  64.721 N           150.972 W
  DEPTH =  25.0km (geophysicist)
 CENTRAL ALASKA                    (  1)
      <AEIC>. ML 2.5 (AEIC).

NEA      0.83  99 eP     48 33.34    0.1
                  eS     48 45.03
BWN      0.86 129 eP     48 34.63    0.9
KTH      1.17 179 eP     48 37.88   -0.6
MDM      1.20  77 eP     48 38.11   -0.7
RDS      1.22  84 eP     48 38.56   -0.5
WRH      1.27 100 eP     48 38.91   -0.8
TRF      1.31 166 eP     48 39.87   -0.6
                  eS     48 56.41
MCK      1.33 137 eP     48 40.48   -0.2
CCB      1.36  92 eP     48 40.35   -0.7
                  S      48 57.96
FBA      1.37  81 eP     48 40.67   -0.5
RND      1.62 144 eP     48 44.76   -0.1
IMA      1.76 321 eP     48 46.69   -0.3
SKT      2.76 185 eP     49 00.09   -1.1
     13 obs. ossociated
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&  JUL  18, 1991  18h 03m 23.99s
   59.331 N          151.578 W
   DEPTH =  48.7km
 KENAI PENINSULA, ALASKA                ( 14)
      <AEIC>. ML 3.4 (AEIC), 3.4
      (PMR).

XLV     0.14 329 iPd    03 31.02   0.7
                 eS     03 36.93
CNPM    0.26  42 iPc    03 32.52  -0.2
                 eS     03 39.04
HOM     0.33 354 iPd    03 33.20  -0.1
NNL     0.73  11 iPd    03 38.73   0.6
SYI     0.84 211 iPd    03 38.74  -0.9
                 eS     03 50.84
AUE     0.92 273 iPc    03 40.01  -0.7
AUI     0.95 271 eP     03 40.38  -0.8
                 eS     03 52.89
AUH     0.96 273 ePc    03 40.69  -0.7
IVS     1.02 312 eP     03 41.54  -0.9
CDD     1.14 250 iPc    03 42.94  -0.9
RED     1.25 332 iPc    03 44.44  -1.0
                 eS     04 00.42
REF     1.29 335 iPc    03 45.36  -0.8
RDW     1.31 332 iPc    03 45.52  -0.9
RDT     1.31 342 iPc    03 45.65  -0.7
                 eS     04 02.69
RDN     1.33 334 iPc    03 45.77  -0.8
SEW     1.33  53 iPd    03 46.03  -0.4
SLKM    1.36  29 iPd    03 46.86  -0.2
                 eS     04 05.17
DFR     1.38 337 ePc    03 46.45  -0.9
PDB     1.41 290 ePc    03 46.61  -1.0
                 eS     04 04.05
NCT     1.41 332 iPc    03 46.77  -1.0
MCNL    1.42 265 ePc    03 46.61  -1.2
                 eS     04 04.69
NKA     1.43   7 iPd    03 49.49   1.7
KDC     1.66 197 iPc    03 50.40  -0.7
        0.5s   379.80nm
SPU     1.87 353 iPd    03 53.81  -0.4
CKL     1.91 349 iPd    03 54.43  -0.4
BGL     1.98 349 eP     03 55.70  -0.1
CGLM    1.99 354 iPd    03 55.82  -0.1
NCG     2.10 352 ePd    03 57.43   0.0
PMS     2.17  27 iPd    03 58.31   0.0
SUA     2.18  11 ePd    03 58.50  -0.1
PWA     2.48  19 eP     04 02.90   0.3
PMR     2.57  27 ePd    04 03.70  -0.3
SKT     2.66   0 iPd    04 05.28   0.0
                 S      04 35.79
SVW     2.69 313 ePc    04 04.50  -1.3
TOA     3.85  41 iPc    04 22.30   0.1
TZL     4.07  45 eP     04 24.41  -0.9
TTA     4.20 331 eP     04 27.80   0.6
SDG     4.35  40 eP     04 28.17  -1.1
GLB     4.40  58 ePd    04 27.95  -2.0
CRQM    4.47  68 ePc    04 29.15  -1.9
MCK     4.59  15 eP     04 31.61  -1.1
TGL     4.61  68 eP     04 31.18  -1.8
PAX     4.70  36 eP     04 32.86  -1.3
BALM    4.92  66 eP     04 35.29  -2.1
CTGM    5.37  68 eP     04 42.35  -1.5
NEA     5.40  12 eP     04 41.65  -2.3
WRH     5.42  16 eP     04 42.25  -2.0
CCB     5.62  17 eP     04 45.25  -1.9
RDS     5.75  15 eP     04 46.64  -2.3
MDM     5.86  14 eP     04 48.49  -2.0
FBA     5.86  16 eP     04 49.30  -1.2
PNL     6.21  82 eP     04 53.09  -2.4
        52 obs. associated
-----------------------------------------
*  JUL  18, 1991  18h 48m 56.41± 1.18s
   39.711 N ±15.0km   25.642 E ± 6.4km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                             (365)
      MD 3.1 (ISK).

EZN     0.54  77 iPg    49 07.50   0.2
                 eSg    49 14.20
ALN     1.22  14 ePd    49 18.32  -0.8
                 eS     49 34.88
KGT     1.47  59 iPn    49 24.50   1.5
PAIG    1.53 279 ePc    49 23.84   0.1
                 iS     49 45.16
EDC     1.82  69 ePn    49 28.00   0.0
SRS     2.10 313 ePc    49 32.24   0.1
                 eS     50 01.88
DST     2.31  92 ePn    49 34.00  -1.1
      S.D. = 1.0  on   7 of   7 obs.
-----------------------------------------
?  JUL  18, 1991  18h 55m 56.83± 2.65s
   19.016 N ±29.4km   65.502 W ± 7.0km
   DEPTH =  33.0km  (normal)
 PUERTO RICO REGION                     ( 90)

LPR     0.79 206 P      56 11.60   0.1
                 S      56 21.60
CSB     0.95 221 P      56 13.60  -0.3
CPD     1.05 202 P      56 15.30   0.0
SJG     1.09 214 iP     56 15.90   0.0
CLLP    1.38 228 P      56 20.30   0.3
MGP     1.81 237 P      56 26.00  -0.2
BPA     3.98 119 eP     56 57.50   0.3
PAG     4.70 129 eP     57 07.00  -0.4
      S.D. = 0.3  on   8 of   8 obs.
-----------------------------------------
%  JUL  18, 1991  20h 37m 53.73± 0.63s
   39.126 N ± 4.9km   29.432 E ± 6.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                                 (366)
      MD 3.1 (ISK).

DST     0.79 308 iPg    38 08.50  -0.6
                 iSg    38 19.50
KHL     0.80 175 ePg    38 08.90  -0.5
                 eSg    38 21.00
IZI     1.21   1 ePn    38 15.50  -0.8
GPA     1.34  30 iPn    38 18.80   0.3
YLV     1.44 358 iPn    38 19.70  -0.2
EYL     1.54  21 iPn    38 22.00   0.6
HRT     1.70   6 ePn    38 23.50  -0.2
EDC     1.72 316 ePn    38 24.50   0.7
IZM     1.84 247 ePn    38 26.50   0.8
ISK     1.96 352 ePn    38 28.00   0.7
KGT     2.11 310 ePn    38 29.00  -0.5
CTT     2.16 339 ePn    38 30.00  -0.3
      S.D. = 0.6  on  12 of  12 obs.
-----------------------------------------
   JUL  18, 1991  20h 40m 05.55± 0.30s
   36.077 N ± 3.1km   27.187 E ± 2.7km
   DEPTH = 106.3 ±  4.0 km
   4.7mb ( 50 obs.)
 DODECANESE ISLANDS                     (369)
      MD 4.4 (HLW), 4.2 (ISK).

YER     1.38  40 iPn    40 30.10  -1.0
NPS     1.52 238 iPc    40 34.00   1.2
ELL     2.30  72 iPn    40 47.00   4.1X
IZM     2.32   1 iPn    40 43.00  -0.1
KHL     2.92  39 iPn    40 51.60   0.5
BCK     3.06  62 iPn    40 56.00   2.9
PRK     3.25 347 iPd    40 56.00   0.5
ATH     3.36 305 eP     40 58.50   1.4
VLI     3.49 282 eP     41 00.00   1.2
DST     3.70  18 iPn    41 02.10   0.3
EZN     3.80 350 ePn    41 03.70   0.6
EDC     4.30   7 ePn    41 10.00   0.1
KGT     4.37   1 ePn    41 11.00   0.2
PAIG    4.74 325 iPc    41 16.78   0.9
YLV     4.80  20 iPn    41 17.00   0.1
GPA     4.87  29 iPn    41 17.80   0.0
OUR     4.94 330 ePc    41 19.38   0.7
GBZT    5.03  20 eP     41 19.50  -0.4
HRT     5.12  22 ePn    41 20.50  -0.8
CTT     5.16  10 ePn    41 21.00  -0.7
ISK     5.19  16 ePn    41 21.50  -0.7
RDO     5.22 346 iPc    41 23.00   0.4
LIT     5.46 319 ePc    41 26.78   0.8
SOH     5.61 329 ePc    41 28.94   0.9
THE     5.63 325 ePc    41 29.70   1.5
VLS     5.67 294 eP     41 29.50   0.6
SRS     5.77 332 iPc    41 30.70   0.6
DIM     6.10 348 iP     41 35.00   0.3
MMB     6.13 335 iPKP   41 36.00   0.9
PLD     6.32 343 iPc    41 39.00   1.3
VAY     6.36 327 iPn    41 39.70   1.5
KKB     6.61 332 iPd    41 42.00   0.4
KEK     6.88 304 eP     41 46.50   1.1
HLW     7.11 149 eP-    41 49.00   0.4
                 eS     43 33.00
VTS     7.20 336 iP     41 50.00   0.1
KOT     7.26 146 ePn    41 50.70   0.1
                 eSn    43 01.60
ADI     7.27 112 eP     41 50.00  -0.8
PVL     7.27 349 iPc    41 49.00  -1.7
BHL     7.28 105 Pn     41 48.50  -2.4
                 Sn     43 01.50
SKO     7.39 325 ePn    41 52.50   0.1
ZNT     7.54 118 eP     41 53.00  -1.5
                 eS     43 12.50
SALJ    8.13 117 Pc     42 02.45  -0.1
JARJ    8.21 115 P      42 03.22  -0.3
KFNJ    8.21 118 P      42 02.50  -1.0
MKT     8.39 125 eP     42 05.00  -1.0
                 eS     43 33.00
LCI     8.42 303 P      42 04.00  -2.3
                 eSn    43 30.50
GRI     8.99 291 P      42 13.57  -0.6
MBH     9.02 132 eP     42 13.80  -0.8
ROI     9.10 296 P      42 13.20  -2.4
                 eSn    43 44.00
SOI     9.12 286 P      42 14.30  -1.5
                 eSn    43 42.90
BRT     9.18 304 P      42 15.53  -1.1
MTUR    9.28 351 eP     42 26.00   7.9X
GMB     9.28 286 P      42 18.05  -0.2
TDS     9.29 296 P      42 18.30   0.1
CZI     9.31 293 P      42 16.30  -2.1
                 eSn    43 47.50
CMP     9.33 351 iPc    42 19.00   0.3
CSTJ    9.33 119 Pd     42 18.27  -0.5
ORI     9.35 298 P      42 17.50  -1.6
CSI     9.37 296 P      42 18.60  -0.7
                 eSn    43 53.50
MLR     9.45 355 ePc    42 20.00  -0.5
BAI     9.52 305 P      42 18.00  -3.2X
MMN     9.62 297 P      42 21.80  -0.8
                 eSn    44 04.20
VRI     9.79 358 eP     42 21.50  -3.4X
MEU     9.91 280 P      42 26.84   0.2
PZI     9.92 279 P      42 25.31  -1.4
MGR    10.02 297 P      42 25.90  -2.1
MNO    10.16 284 P      42 30.50   0.4
SGO    10.35 299 P      42 30.80  -1.5
SDI    11.83 302 P      42 53.40   1.3
MNS    12.88 304 P      43 06.55   0.7
AMAN   13.08 156 eP     43 08.50   0.1
                 eS     45 26.00
ASS    13.19 306 P      43 11.00   1.1
ARV    13.22 308 P      43 16.50   6.4X
AGMR   13.33 158 eP     43 09.50  -2.1
                 eS     45 44.00
AKSR   13.39 156 eP     43 13.50   1.2
                 eS     45 35.50
SRO    13.45 333 eP     43 13.50   0.5
CRE    13.91 307 P      43 24.30   5.1X
MAO    13.94 302 P      43 24.60   5.1X
TRI    13.97 318 iPd    43 20.20   0.4
                 i      43 24.80
SFI    14.11 308 P      43 23.20   1.5
PGD    14.17 308 P      43 24.15   1.5
ZST    14.22 332 e(P)   43 25.70   2.7
KRA    14.93 342 iPc    43 36.00   3.9X
       0.9s   140.00nm          5.2mb
MME    14.97 308 P      43 34.08   1.1
BDI    14.98 307 P      43 31.80  -1.1
FVI    15.06 319 P      43 34.41   0.7
FVI    15.06 319 P      43 37.70   4.0X
PGF    15.48 300 eP     43 39.50   0.3
       1.0s    32.00nm          4.5mb
BHG    15.74 322 eP     43 44.10   1.7
SAL    15.77 312 P      43 45.40   2.7
BOB    16.03 308 P      43 46.40   0.3
WTTA   16.09 319 iP     43 47.80   0.9
KHC    16.41 327 iPc    43 51.50   0.8
       0.9s    30.50nm          4.5mb
CKI    16.64 306 P      43 57.00   3.4X
PRU    16.66 330 P      43 53.50  -0.2
       0.7s    18.60nm          4.4mb
                 e      44 15.40
                 e      45 21.40
KSP    16.72 335 iPc    43 55.10   0.7
       1.1s    65.00nm          4.8mb
FUR    16.85 321 iPd    43 57.00   0.9
       1.0s    76.00nm          4.9mb
SBF    17.00 303 eP     43 56.80  -1.2
       0.7s    52.90nm          4.9mb
FRF    17.43 302 eP     44 02.40  -0.9
       0.8s    25.50nm          4.5mb
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18d 20h

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LMR    17.46 301 eP    44 03.70   0.1
       1.0s    12.00nm          4.1mb
BRG    17.60 331 eP    44 04.90  -0.3
       1.0s    14.00nm          4.2mb
                i      44 06.60
LRG    17.60 301 eP    44 04.10  -1.2
       0.8s    18.80nm          4.4mb
GRF    17.89 324 iPc   44 08.30  -0.5
     Z  25s     0.10um
                e      44 10.20
LPG    18.07 308 eP    44 10.60  -0.7
       0.6s    25.25nm          4.6mb
LPL    18.09 308 eP    44 10.60  -0.9
       0.6s    25.70nm          4.7mb
CLL    18.31 331 iPc   44 12.10  -1.7
       1.3s    39.00nm          4.5mb
                i      44 25.10
MOX    18.39 327 eP    44 13.50  -1.3
       1.3s    75.00nm          4.8mb
BSF    19.12 314 eP    44 21.20  -1.5
       0.8s    14.80nm          4.4mb
CDF    19.15 316 eP    44 22.40  -0.6
       0.6s    24.35nm          4.7mb
HAU    19.46 314 eP    44 25.40  -0.9
       0.6s    22.55nm          4.7mb
     Z  18s     0.05um          5.9Msz
TNS    19.59 322 ePd   44 26.70  -0.9
ABH    19.84 320 eP    44 29.40  -0.7
OBN    20.10  16 iPc   44 31.50  -1.2
       0.4s   110.00nm          5.6mb
     Z  16s     0.30um          3.7MszX
                i      44 34.00
SMF    20.39 308 eP    44 34.60  -1.1
       0.6s    28.85nm          4.8mb
LBF    20.43 309 eP    44 34.60  -1.7
       0.6s    24.35nm          4.7mb
WLF    20.45 318 iPc   44 36.68   0.4
LOR    20.62 310 eP    44 37.10  -1.1
       0.6s    16.70nm          4.6mb
     Z  22s     0.08um          3.0Msz
BNS    20.69 322 iPc   44 43.50   4.8X
AVF    20.75 308 eP    44 38.30  -1.1
       0.8s    41.65nm          4.8mb
SSF    20.76 309 eP    44 38.00  -1.5
CAF    20.98 303 eP    44 41.40  -0.4
       1.0s    52.00nm          4.8mb
BGF    20.99 307 eP    44 41.20  -0.6
MAF    21.05 306 eP    44 41.80  -0.6
       0.8s    12.10nm          4.3mb
MEM    21.07 320 iPc   44 44.30   1.8
ENN    21.20 320 eP    44 45.00   1.2
       0.8s    20.00nm          4.5mb
TCF    21.31 306 eP    44 44.80  -0.2
       0.8s    14.80nm          4.4mb
RJF    21.46 303 eP    44 46.40  -0.2
       0.6s    13.55nm          4.5mb
WTS    21.51 324 eP    44 53.00   6.1X
       0.8s     7.00nm          4.1mb
LPO    21.52 302 eP    44 47.20   0.1
       0.6s    12.65nm          4.4mb
LSF    21.74 306 eP    44 49.20  -0.1
       0.6s     9.00nm          4.3mb
EPF    21.78 297 eP    44 51.00   1.3
LFF    21.89 302 eP    44 51.60   0.8
       0.6s     9.00nm          4.3mb
SNF    21.92 318 P     44 51.20   0.2
COP    22.05 337 iPc   44 52.40   0.2
       0.6s    13.33nm          4.5mb
MFF    22.95 306 eP    45 01.80   0.7
       0.8s    25.50nm          4.6mb
LDF    23.61 310 eP    45 07.60   0.2
       0.6s    20.75nm          4.7mb
FLN    23.89 311 eP    45 09.60  -0.6
       0.6s    36.05nm          5.0mb
     Z  20s     0.08um          3.2Msz
LPF    23.98 309 eP    45 10.80  -0.2
       0.6s    19.85nm          4.7mb
GRR    23.99 310 eP    45 10.40  -0.7
       0.6s    49.60nm          5.1mb
NUR    24.50 357 eP    45 15.60  -0.3
HFS    25.60 344 eP    45 24.50  -1.6
       0.6s    22.00nm          4.8mb
     Z  17s     0.06um          3.2MszX
                LR     54 00.00
KAF    26.07 359 iP    45 29.10  -1.3
       0.5s     8.70nm          4.6mb
NB2    26.97 343 P     45 37.50  -1.3
       0.6s     0.70nm          3.4mb X
EKA    28.28 322 P     45 50.00  -0.5
       0.7s     5.50nm          4.3mb
SOD    31.34 360 eP    46 16.00  -1.5
TIC    41.56 233 P     47 45.84   1.6
       0.5s    12.00nm          5.0mb
KIC    41.59 232 Pd    47 46.20   1.7
       0.5s    16.00nm          5.1mb
LIC    41.88 233 Pd    47 48.52   1.7
       0.5s    11.00nm          5.0mb
WMO    46.12  61 P     48 22.50   1.8
       1.0s    20.00nm          4.9mb
                pP     48 45.80  98kmX
                PcP    49 58.50
                PP     50 07.00
                eS     55 00.00
KRI    52.67 177 iPc   49 13.60   2.5
BUL    55.93 178 iPc   49 35.20   0.4
       0.6s    10.00nm          5.0mb
LZH    60.31  65 eP    50 07.00   1.6
       1.0s    26.00nm          5.3mb
CD2    62.52  70 P     50 21.40   1.2
HHC    63.76  57 P     50 30.00   1.8
SEK    64.06 180 iPc   50 35.20   5.0X
       0.7s    13.70nm          5.0mb
YAK    64.27  31 iPc   50 29.90  -1.2
FRS    65.50 182 iPd   50 41.70   2.5
       0.6s    16.67nm          5.1mb
TIY    65.77  60 eP    50 42.00   0.8
TIY    65.77  60 eP    50 42.50   1.3
YKA    77.07 343 eP    51 46.70  -1.4
       0.6s     1.30nm          3.9mb
SES    86.34 335 eP    52 37.00   0.3
     S.D. = 1.2  on 148 of 161 obs.
-----------------------------------------
*  JUL  18, 1991  21h 07m 06.28± 1.02s
   45.195 N ±15.1km  151.056 E ±15.2km
   DEPTH =  33.0km  (normal)
   4.5mb ( 11 obs.)
 KURIL ISLANDS                        (221)

KUSJ    5.02 248 eP    08 19.50  -1.8
                eS     09 13.40
ASAJ    6.10 263 eP    08 38.90   2.4
HOOJ    6.29 246 eP    08 39.00  -0.1
                eS     09 48.10
MRRJ    7.73 253 eP    08 59.50   0.2
                eS     10 24.20
AOMJ    9.11 243 eP    09 17.40  -0.9
YAK    20.90 331 eP    11 47.50  -0.4
                i      11 53.00
WRA    66.59 197 P     17 56.00   0.7
       0.9s     0.70nm          3.8mb
NB2    69.22 340 P     18 10.40  -1.0
       0.7s     1.80nm          4.2mb
HFS    69.40 339 eP    18 10.70  -1.7
       0.6s     2.10nm          4.4mb
CLL    77.27 335 iPd   18 58.80   0.3
       1.0s     8.00nm          4.7mb
PRU    77.94 333 eP    19 03.00   0.8
KHC    79.00 333 eP    19 09.00   0.9
CDF    81.53 337 eP    19 21.40  -0.3
       0.8s     2.70nm          4.3mb
LOR    83.51 338 eP    19 31.20  -0.6
       0.6s     2.25nm          4.5mb
SSF    83.79 338 eP    19 33.40   0.2
       0.7s     2.75nm          4.5mb
AVF    84.08 338 eP    19 34.30  -0.4
       0.8s     2.70nm          4.5mb
SMF    84.09 338 eP    19 34.20  -0.6
       0.8s     4.05nm          4.6mb
MAF    84.82 339 eP    19 39.40   1.0
       0.9s     6.55nm          4.8mb
TCF    84.85 339 eP    19 39.90   1.3
       0.7s     2.20nm          4.5mb
     S.D. = 1.1  on  19 of  19 obs.
-----------------------------------------
*  JUL  18, 1991  21h 25m 55.36± 1.05s
   40.324 N ± 8.0km  143.420 E ±12.9km
   DEPTH =  26.9 ±  4.8 km
   4.7mb ( 21 obs.)
 OFF EAST COAST OF HONSHU, JAPAN (229)

OFUJ    1.84 228 iP+   26 26.50   0.9
                S      26 52.90
HOOJ    2.06 357 eP    26 28.50  -0.3
                eS     26 53.10
AOMJ    2.34 277 P     26 34.60   1.9
                eS     27 02.70
MRRJ    2.74 321 eP    26 39.90   1.4
                eS     27 14.60
KUSJ    2.94  19 P     26 39.60  -1.6
                eS     27 11.70
YAMJ    3.39 232 iP+   26 48.60   0.8
ASAJ    3.84 352 eP    26 53.50  -0.5
NIIJ    4.63 230 iPd   27 06.30   1.0
KAKJ    4.84 213 P     27 06.30  -2.0
                eS     28 31.30
CHJJ    5.51 221 iPd   27 17.10  -0.7
MAT     5.57 229 iPc   27 19.20   0.6
                eS     28 35.00
MTMJ    5.77 232 iPd   27 22.80   1.2
SSE    20.22 250 eP    30 35.40   4.4X
       1.0s    12.00nm          4.2mb
     Z  16s     0.40um          3.9MszX
BJI    20.79 278 eP    30 33.50  -3.3X
TIA    21.02 267 eP    30 37.00  -2.2
NJ2    21.43 255 eP    30 40.80  -2.5
YAK    23.26 344 eP    30 58.50  -2.7
                e      35 07.00
BTO    25.33 282 eP    31 22.00   0.5
XAN    28.07 268 eP    31 45.00  -1.6
GTA    33.23 283 iPc   32 32.00  -0.3
       1.0s    20.00nm          5.0mb
     Z  16s     0.40um          4.2MszX
                pP     32 41.00  31kmX
CD2    33.35 266 P     32 31.80  -1.5
GYA    33.41 257 P     32 32.20  -1.8
WMO    40.85 294 P     33 36.80   0.4
CHG    43.67 254 eP    34 03.00   3.4X
WRA    60.55 190 P     36 09.00   3.4X
       0.7s     1.30nm          4.2mb
KAF    66.11 333 iP    36 40.50  -1.3
       0.5s     1.70nm          4.4mb
NUR    67.79 332 eP    36 51.00  -1.5
HFS    71.73 336 eP    37 15.20  -1.4
       0.8s     5.20nm          4.6mb
     Z  16s     0.06um          3.9MszX
                LR     08 58.00
NB2    71.75 338 P     37 16.00  -0.8
       0.9s     4.00nm          4.5mb
KSP    78.12 329 eP    37 54.00   0.7
CLL    79.01 331 iPd   37 58.30   0.2
PRU    79.48 329 Pd    38 01.60   0.9
KHC    80.55 329 P     38 07.70   1.2
GRF    80.99 331 ePc   38 09.90   1.1
       1.0s     9.00nm          4.7mb
CDF    83.49 332 eP    38 22.10   0.2
       0.8s     2.70nm          4.5mb
HAU    84.17 333 eP    38 26.10   0.9
       0.7s     2.20nm          4.5mb
LOR    85.66 334 eP    38 33.00   0.3
       0.7s     5.50nm          4.9mb
LBF    85.87 333 eP    38 34.00   0.2
       0.9s     7.35nm          4.9mb
LPL    86.15 331 eP    38 36.20   0.8
       0.7s     4.40nm          4.8mb
LPG    86.16 331 eP    38 36.20   0.6
       0.8s     4.05nm          4.7mb
SMF    86.21 333 eP    38 35.80   0.4
       0.9s     5.75nm          4.8mb
AVF    86.25 334 eP    38 36.00   0.4
       0.9s    14.75nm          5.2mb
MAF    87.01 334 eP    38 40.30   1.0
       0.9s    10.65nm          5.1mb
TCF    87.07 334 eP    38 40.20   0.5
       0.9s     4.10nm          4.7mb
LSF    87.33 335 eP    38 41.50   0.6
       0.9s    11.45nm          5.1mb
MFF    87.55 336 eP    38 42.60   0.7
       0.7s     3.30nm          4.7mb
RJF    88.16 334 eP    38 45.90   1.0
       0.8s     5.35nm          4.9mb
CAF    88.31 334 eP    38 46.70   1.0
       0.7s     3.85nm          4.8mb
     S.D. = 1.2  on  44 of  48 obs.
-----------------------------------------
   JUL  18, 1991  21h 51m 05.71± 0.60s
   44.843 N ± 6.8km   22.289 E ± 5.8km
   DEPTH =  10.0km  (geophysicist)
 ROMANIA                              (358)

DEV     1.13  22 iPd   51 26.00  -0.8
BEO     1.30 270 iPg   51 30.20   0.4
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                    eSg   51 49.20
DRA      1.41  96 ePd   51 31.00  -0.4
CMP      1.99  77 ePd   51 45.00   5.1X
MTUR     2.00  78 ePd   51 40.00  -0.1
MLR      2.67  75 ePd   51 51.00   1.4
SKO      2.94 192 ePn   51 53.40   0.1
                  e     51 58.50
BMR      2.95  16 ePd   52 06.00  12.5X
UZD      3.13 305 e(Pn) 51 56.00   0.0
VAY      3.53 177 ePn   52 01.00  -0.6
     S.D. = 0.8  on   8 of  10 obs.
-----------------------------------
*  JUL  18, 1991  23h 01m 38.75± 0.48s
   37.786 S ±10.8km   17.532 W ± 9.6km
   DEPTH =  10.0km  (geophysicist)
   4.9mb ( 15 obs.)  4.4Msz (  4 obs.)
 SOUTH ATLANTIC RIDGE              (410)

CER     30.15  93 iPd   07 49.60  -1.5
        1.0s    20.00nm          4.9mb
SNA     33.58 171 iPd   08 21.50   0.9
        0.9s    35.29nm          5.3mb
SOB1    35.40 317 (P)   08 33.00  -3.9X
FRS     36.26  90 iPc   08 42.00  -2.0
        1.0s    30.00nm          5.1mb
NVL     36.44 164 Pc    08 47.00   2.0
                  e     08 51.00
AIA     38.55 209 eP    09 02.30  -0.5
BUL     43.56  79 iPc   09 40.90  -3.8X
        1.1s    18.99nm          4.8mb
LIC     45.31  18 P     09 57.38  -1.2
      Z  20s     0.34um          4.3Msz
KMZ     45.46  70 eP    09 59.00  -1.0
KIC     45.51  18 P     09 58.90  -1.3
        1.0s    23.00nm          5.1mb
TIC     45.72  17 P     10 00.36  -1.5
LSZ     46.08  74 iPc   10 05.00   0.1
KRI     46.24  76 iPc   10 05.20  -1.0
CCH     47.05 282 P     10 12.50  -0.3
CNCB    48.81 281 iPc   10 25.90  -0.9
LPB     49.06 281 P     10 26.50  -2.1
PTZ     49.12  75 iPc   10 27.00  -1.6
ZOBO    49.23 282 iPc   10 28.00  -2.1
        1.1s    20.30nm          5.1mb
                  LR    24 36.00
CAF     84.21  14 eP    14 12.20   0.9
        1.0s     6.00nm          4.8mb
LSF     85.39  13 eP    14 18.40   1.3
        1.1s     9.75nm          4.9mb
TCF     85.55  14 eP    14 19.30   1.4
        1.1s     7.35nm          4.8mb
LPG     85.74  17 eP    14 20.30   1.0
        0.9s     4.90nm          4.7mb
LPL     85.76  17 eP    14 20.20   1.0
        0.9s     4.10nm          4.6mb
AVF     86.25  14 eP    14 22.60   1.3
        0.8s     4.05nm          4.7mb
SSF     86.54  14 eP    14 23.70   0.9
        0.8s     3.35nm          4.6mb
LPF     86.70  11 eP    14 24.70   1.2
LOR     86.81  14 eP    14 25.10   1.0
        1.1s     9.75nm          4.9mb
      Z  19s     0.15um          4.4Msz
FLN     87.49  11 eP    14 28.30   1.0
      Z  21s     0.25um          4.6Msz
GRF     90.74  18 ePd   14 43.70   1.0
        1.7s    47.00nm          5.5mb
      Z  18s     0.10um          4.3Msz
KHC     90.83  20 P     14 44.00   0.9
                  e     17 57.00
ZST     90.99  22 eP    14 39.20  -4.6X
PRU     91.87  20 P     14 49.00   1.2
INK    134.07 332 ePKP  21 09.00  12.1X
     S.D. = 1.3  on  29 of  33 obs.
-----------------------------------
?  JUL  18, 1991  23h 09m 10.91± 7.55s
   41.895 N ±53.5km   23.333 E ±13.9km
   DEPTH =  10.0km  (geophysicist)
 GREECE-BULGARIA BORDER REGION     (363)
      MD 2.4 (THE).

SRS      0.80 166 iPc   09 26.25  -0.2
                  eS    09 37.66
KNT      0.80 204 iPc   09 25.82  -0.7
                  eS    09 36.38
SOH      1.07 179 iPc   09 31.10   0.0
                  eS    09 45.90
GRG      1.17 217 ePd   09 32.94   0.2
                  eS    09 48.42
THE      1.29 193 ePc   09 35.50   0.7
                  iS    09 52.10
OUR      1.63 162 ePc   09 39.86   0.1
     S.D. = 0.6  on   6 of   6 obs.
-----------------------------------
?  JUL  19, 1991  00h 26m 35.37± 6.80s
   18.846 N ±58.7km   66.685 W ±18.6km
   DEPTH =  33.0km  (normal)
 PUERTO RICO REGION                ( 90)

CSB      0.75 138 P     26 50.00   0.5
CLLP     0.77 172 P     26 50.00   0.3
                  S     27 01.00
SJG      0.89 145 iP    26 51.20  -0.3
                  S     27 04.40
MGP      0.92 205 P     26 51.80  -0.1
                  S     27 04.30
LPR      0.94 125 P     26 52.40   0.1
                  S     27 05.40
CPD      1.08 138 P     26 53.80  -0.5
     S.D. = 0.5  on   6 of   6 obs.
-----------------------------------
*  JUL  19, 1991  00h 38m 11.66± 1.77s
   18.155 N ±10.4km   94.933 W ±17.4km
   DEPTH =  33.0km  (normal)
 GULF OF CAMPECHE                  (527)

PBJ      1.77 195 iP    38 39.50  -0.9
                  iS    39 01.50
OXX      2.01 238 iP    38 45.50   1.3
                  iS    39 06.00
LVVM     2.13 318 eP    38 44.50  -1.1
                  iS    39 06.00
IISM     2.46 290 eP    38 50.50   0.1
                  iS    39 14.00
SCX      2.61 122 eP    39 10.00  17.6X
IIT      3.31 286 (P)   39 00.50  -2.2
PPM      3.62 285 eP    39 08.50   1.2
III      4.31 274 iP    39 17.50   0.6
TUL     17.70 358 e(P)  42 18.20   0.9
ANMO    19.62 331 P     42 47.00   6.4X
     S.D. = 1.5  on   8 of  10 obs.
-----------------------------------
   JUL  19, 1991  01h 19m 52.47± 0.22s
   45.344 N ± 2.4km   21.123 E ± 2.2km
   DEPTH =  10.0km  (geophysicist)
   4.4mb (  5 obs.)
 ROMANIA                           (358)
      MD 4.8 (TRI). ML 4.7 (ZAG), 4.4
      (TTG). Felt (III) at Banloc.
      Also felt in Vojvodina and
      eastern Serbia, Yugoslavia.

BEO      0.70 222 iPgc  20 07.40   1.0
                  iSg   20 19.60
DEV      1.36  66 iPd   20 19.50   2.1
UZD      2.17 306 iPn   20 29.90   0.8
DRA      2.32 106 ePd   20 36.00   4.7X
PLE      2.36 212 iPnd  20 32.42   0.4
                  iSn   21 02.67
CEI      2.52  21 eP    20 45.00  11.0X
BUD      2.59 327 iPn   20 35.30   0.3
IVA      2.62 200 iPnc  20 36.98   1.3
                  iSn   21 12.03
PSZ      2.71 342 iPn   20 37.20   0.2
CMP      2.76  90 iPc   20 41.00   3.4X
MTUR     2.78  91 eP    20 36.00  -2.0
BMR      2.85  34 iPd   20 48.00   9.2X
BLY      2.85 259 Pn    20 38.80  -0.1
                  Sn    21 13.80
PVY      2.87 197 iPnc  20 40.20   1.0
                  iSn   21 18.32
NKY      2.96 212 iPnc  20 41.03   0.6
                  iSn   21 16.87
BRY      3.07 218 iPnd  20 42.23   0.2
                  iSn   21 19.68
VTS      3.14 151 iP    20 43.00   0.0
SRO      3.14 323 iPn   20 43.80   1.0
                  i     21 26.00
                  i     21 40.30
TTG      3.21 205 iPnc  20 44.77   0.9
                  iSn   21 24.03
SKO      3.38 176 ePn   20 46.50   0.2
       1.2s    277.00nm
                  iPg   20 56.10
                  iSn   21 29.00
                  i     21 34.50
                  iSg   21 41.70
                  Lg    21 56.50
MLR      3.40  86 ePc   20 48.00   1.3
HCY      3.46 214 iPnc  20 48.92   1.5
                  iSn   21 28.50
BDV      3.48 209 iPnc  20 47.82   0.1
                  iSn   21 29.70
BUC1     3.63 104 ePd   21 00.00  10.1X
ZAG      3.64 279 ePn   20 50.00   0.0
                  iSn   21 31.50
                  iSg   21 46.00
ULC      3.64 203 iPnc  20 52.18   2.1
                  iSn   21 35.72
BUC      3.66 103 eP    21 05.00  14.8X
PTJ      3.67 281 iPnd  20 50.00  -0.5
PVL      3.70 124 iP    20 51.00   0.2
ISR      3.84  91 eP    20 55.00   2.1
VRI      3.97  80 iPc   20 55.50   0.9
ZST      3.97 317 ePn   20 54.70   0.0
PTT      3.99  65 eP    21 02.50   7.5X
HVAR     4.00 239 iPn   20 55.60   0.6
VBY      4.13 274 ePn   20 57.00   0.0
                  iPb   21 05.10
PLD      4.15 140 iPc   20 58.00   0.8
VAY      4.16 165 iPn   20 57.00  -0.3
       0.8s    475.00nm
                  i     22 03.00
                  Lg    22 15.70
BRD      4.18  86 eP    21 12.00  14.4X
                  e     28 40.00
MMB      4.20 152 iP    20 59.00   0.9
KNT      4.38 162 ePc   21 00.06  -0.4
VKA      4.41 313 iPnc  21 01.30   0.4
                  i     21 15.60
                  i     22 20.40
GRG      4.48 168 ePc   21 01.82  -0.2
RZN      4.49 143 iPc   21 03.00   0.7
FNA      4.56 178 ePc   21 03.10  -0.1
DIM      4.59 134 iP    21 04.00   0.5
SRS      4.59 156 ePc   21 02.10  -1.5
PPE      4.63  77 eP    21 15.00  11.0X
                  e     28 47.50
LJU      4.67 281 e(Pn) 21 04.50  -0.2
                  e     21 07.00
CEY      4.72 277 e(Pn) 21 06.00   0.6
                  eSg   22 27.00
RIY      4.75 272 ePn   21 06.30   0.5
KRA      4.78 351 iPd   21 07.00   0.8
       0.5s     99.00nm
      Z  12s     1.80um
      E  12s     4.80um
                  i     21 10.00
                  i     21 33.50
SOH      4.81 159 iPd   21 05.94  -0.7
KDZ      4.84 138 iPc   21 07.00   0.0
THE      4.90 163 ePc   21 07.58  -0.3
TLB      4.96  96 eP    21 10.00   1.3
CFR      4.97  89 eP    21 08.00  -0.8
VOY      5.11 280 ePn   21 11.90   0.9
                  e(Sn) 22 18.00
TRI      5.18 277 P     21 12.50   0.6
PSN      5.32 106 eP    21 21.00   7.2X
LIT      5.34 169 ePd   21 14.38   0.3
OUR      5.43 156 ePc   21 14.34  -1.0
KMR      5.52 302 ePn   21 18.00   1.3
                  i     22 23.60
LCI      5.52 206 P     21 15.00  -1.7
KBA      5.67 291 iPnc  21 18.80  -0.2
ALN      5.72 139 iPc   21 19.38  -0.1
PAIG     5.73 160 ePd   21 18.66  -1.0
FVI      5.95 285 P     21 25.70   3.1X
                  eSn   22 30.90
DUI      6.09 235 P     21 27.40   2.7X
VVI      6.13 279 P     21 26.10   0.8
ARV      6.14 255 P     21 25.10  -0.3
BHG      6.16 296 ePn   21 28.60   2.9X
ORI      6.30 215 P     21 28.40   0.7
AQU      6.33 245 P     21 29.80   1.6
RSM      6.35 260 P     21 31.00   2.7X
AGG      6.38 172 ePc   21 29.30   0.4
KHC      6.38 309 iPn   21 28.50  -0.4
                  e     22 55.00
SGO      6.41 224 P     21 28.00  -1.2
PRU      6.43 319 Pnd   21 28.00  -1.5
      E  11s     1.00um
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19d 01h

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                e      21 30.50
                e      22 05.60
                Sn     22 38.00
SDI     6.44 238 P     21 29.40   -0.3
ASS     6.49 252 P     21 30.40    0.0
CSI     6.61 214 P     21 30.50   -1.5
MGR     6.62 220 P     21 31.90   -0.3
KGT     6.67 135 eP    21 33.00    0.1
CTI     6.67 279 P     21 32.24   -0.8
ROI     6.68 212 P     21 32.20   -0.8
TDS     6.69 214 P     21 32.90   -0.3
EZN     6.72 143 iP    21 33.20   -0.3
SFI     6.77 261 P     21 35.80    1.6
WET     6.78 307 ePn   21 34.40    0.0
CRE     6.78 259 P     21 36.30    1.8
MNS     6.78 247 P     21 35.00    0.5
CTT     6.79 126 iP    21 33.50   -1.0
WTTA    6.85 290 iPn   21 33.00   -2.5
PGD     6.87 261 P     21 36.90    1.1
EDC     7.03 133 eP    21 32.50   -5.4X
CZI     7.15 213 P     21 38.60   -1.0
ISK     7.20 124 eP    21 39.50   -0.8
BRG     7.33 322 ePn   21 43.00    1.0
                i      21 57.00
                i      23 00.00
                i      23 11.00
                i      24 02.00
SAL     7.46 276 P     21 44.50    0.7
MME     7.51 265 P     21 46.00    1.2
BDI     7.61 264 P     21 46.00   -0.1
HRT     7.71 123 eP    21 46.50   -1.0
OSS     7.76 284 ePd   21 49.70    1.4
DST     7.98 133 eP    21 50.00   -1.2
GRF     7.99 307 eP    21 50.00   -1.3
                e(S)   23 41.00
CLL     8.05 321 ePn   21 53.00    0.8
      Z  12s     1.00um
      N  12s     1.00um
      E  12s     1.50um
SOI     8.19 209 P     21 53.20   -0.9
                eSn    23 20.50
MOX     8.29 313 ePn   21 54.50   -1.1
      1.6s    23.00nm          5.2mb X
      Z  11s     0.30um          5.0Msz
      N  11s     0.60um
      E  12s     0.50um
LLS     8.56 285 ePd   21 59.60    0.0
TMA     8.61 279 ePc   22 02.40    2.3
SLE     9.03 290 ePc   22 04.70   -1.2
ZLA     9.06 288 ePd   22 06.00   -0.2
CKI     9.17 269 P     22 07.50   -0.2
PGF     9.18 257 eP    22 07.80   -0.2
DIX     9.62 279 ePd   22 14.70    0.5
TNS     9.83 304 ePd   22 16.00   -0.8
SBF     9.88 266 eP    22 16.70   -0.8
CDF     9.97 293 eP    22 17.50   -1.3
      0.8s     5.35nm          5.0mb X
LPG    10.11 276 eP    22 22.20    1.2
      0.7s    14.35nm          5.5mb X
LPL    10.12 276 eP    22 22.10    1.0
      0.9s    14.75nm          5.4mb X
BSF    10.18 289 eP    22 18.90   -2.8X
      0.8s     6.70nm          5.1mb X
BNI    10.21 273 P     22 24.10    2.0
FRF    10.51 265 eP    22 23.80   -2.3
      0.6s     5.40nm          5.1mb X
LMR    10.66 264 eP    22 25.90   -2.3
      0.6s     3.60nm          4.9mb X
BNS    10.88 306 eP    22 35.80    4.7X
WLF    11.01 298 P     22 36.00    3.1X
MEM    11.41 303 P     22 40.70    2.3
ENN    11.52 304 eP    22 43.00    3.1X
      1.0s    17.00nm          5.3mb X
                eS     24 47.00
SMF    12.09 282 eP    22 45.50   -2.2
      0.7s     3.30nm          4.7mb
SSF    12.33 284 eP    22 48.40   -2.4
      0.9s     4.10nm          4.7mb
AVF    12.43 283 eP    22 49.90   -2.3
      0.7s     3.30nm          4.7mb
MAF    12.99 280 eP    22 58.70   -0.9
TCF    13.23 281 eP    23 00.80   -2.1
OBN    13.88  40 eP    23 10.00   -1.3
      1.0s   *******nm          7.9mb X
      Z  10s     0.60um          5.2MszX
HFS    15.47 346 eP    23 32.50    0.5
      0.4s     1.30nm          3.6mb
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      Z  15s     0.53um          4.7Msz
                 LR     29 11.00
NB2    16.77 343 P     23 47.20   -1.6
      0.8s     6.40nm          3.8mb
    S.D. = 1.1  on 117 of 136 obs.
-----------------------------------------
   JUL  19, 1991  01h 27m 32.06± 0.16s
   45.312 N ± 2.1km    21.053 E ± 1.6km
   DEPTH =  10.0km  (geophysicist)
   5.3mb ( 26 obs.)  4.9Msz (  4 obs.)
 ROMANIA                            (358)
      ML 5.3 (ZAG). MD 5.2 (TTG). Felt
      (V) at Banloc. Also felt in
      Vojvodina and eastern Serbia,
      Yugoslavia.
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 16S, 30C
      Centroid Location:
      Origin Time        01:27:35.0 1.3
      Lat 44.79N 0.17 Lon  20.93E 0.12
      Dep  15.0 FIX Half-duration  1.9
      Moment Tensor;   Scale 10**16 Nm
        Mrr= 0.32 0.34  Mtt= 2.48 0.54
        Mff=-2.80 0.39  Mrt=-0.84 1.07
        Mrf= 2.06 1.31  Mtf= 3.62 0.29
      Principal Axes:
        T  Val=  4.33  Plg=  3  Azm=332
        N        1.16       69       235
        P       -5.49       21        63
    Best Double Couple:Mo=4.9*10**16
      NP1:Strike=106 Dip=73 Slip= -13
      NP2:        199      77      -163
BEO     0.65 221 iPgc  27 46.90   1.9
                iSg    27 58.40
DEV     1.42  66 iPc   27 59.00   1.1
UZD     2.15 308 iPn   28 09.50   1.1
PLE     2.31 212 iPnd  28 12.20   1.3
                iSn    28 41.41
DRA     2.36 104 ePc   28 13.00   1.6
CEI     2.57  22 eP    28 21.00   6.7X
IVA     2.58 199 iPnd  28 16.00   1.4
                iSn    28 47.40
BUD     2.59 328 iPn   28 15.80   1.2
BLY     2.80 260 Pn    28 17.90   0.2
                Sn     29 03.90
CMP     2.81  89 iPd   28 20.00   2.1
PVY     2.83 196 iPnd  28 19.85   1.7
                iSn    28 55.03
MTUR    2.83  90 eP    28 21.00   2.7
BMR     2.90  35 iPc   28 25.00   5.9X
NKY     2.90 211 iPnd  28 20.41   1.1
                iSn    28 55.58
BRY     3.01 218 ePn   28 20.96   0.2
                iSn    28 58.16
VTS     3.13 149 iP    28 22.00  -0.5
SRO     3.14 324 iPn   28 23.20   0.8
TTG     3.16 205 iPnd  28 23.70   1.0
                iSn    29 01.55
SKO     3.35 175 iPn   28 26.00   0.5
                i      28 27.20
SKO     3.35 175 iPg   28 36.00  10.5X
      1.0s  1843.00nm
      Z  11s    16.20um
      N  12s    20.01um
      E  11s    33.97um
                i      28 40.00
                iSn    29 07.00
                iSg    29 20.00
                LR     29 48.00
HCY     3.41 214 iPnd  28 28.06   1.8
                iSn    29 07.40
BDV     3.43 209 iPnc  28 28.85   2.2
                iSn    29 08.61
MLR     3.45  85 ePd   28 27.50   0.5
ULC     3.59 202 iPnc  28 31.36   2.4
                iSn    29 13.96
ZAG     3.60 280 iPn   28 29.40   0.4
                i(Sn)  29 25.20
PTJ     3.62 281 iPn   28 29.40  -0.1
BUC1    3.67 103 eP    28 40.00  10.0X
BUC     3.70 102 eP    28 32.00   1.6
PVL     3.72 123 iPc   28 30.00  -0.8
KKB     3.75 156 iPd   28 32.00   0.8
ISR     3.88  91 ePc   28 34.00   0.9
HVAR    3.94 239 iPnc  28 35.10   1.3
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ZST     3.96 318 iPnc  28 33.80  -0.3
VRI     4.02  80 iPc   28 35.00   0.0
VBY     4.09 275 ePnc  28 36.40   0.5
                i      28 44.00
                i      28 56.70
                i      29 49.50
VAY     4.14 164 iPn   28 36.40  -0.3
      1.0s  3082.00nm
                i      29 40.00
                Lg     29 50.00
PLD     4.16 139 iPc   28 37.00   0.1
MMB     4.20 151 iPc   28 38.00   0.4
KNT     4.36 161 ePd   28 39.24  -0.6
VKA     4.39 314 iPnc  28 40.50   0.2
                i      29 30.10
                i      30 03.20
GRG     4.46 167 ePc   28 41.08  -0.2
RZN     4.50 142 iPc   28 42.00   0.1
FNA     4.53 177 iPc   28 42.66   0.3
SRS     4.58 155 ePd   28 42.29  -0.7
DIM     4.60 134 iPc   28 44.00   0.7
LJU     4.63 281 ePn   28 44.00   0.4
                iPg    29 07.00
                eSg    30 09.00
CEY     4.68 278 ePn   28 45.00   0.6
                eSg    29 07.50
RIY     4.70 273 ePn   28 46.10   1.4
                iPg    29 03.10
                iSg    30 04.30
SOH     4.79 159 iPd   28 45.48  -0.6
KRA     4.81 351 iPc   28 46.60   0.4
      Z  12s     9.10um
      E  12s    34.50um
                i      28 49.90
                i      29 12.00
                i      29 37.00
                i      29 54.00
THE     4.88 163 ePd   28 47.36   0.1
IAS     4.89  65 eP    28 45.00  -2.4
TLB     5.01  96 eP    28 47.00  -2.0
CFR     5.02  89 eP    28 46.50  -2.6
VOY     5.07 281 ePn   28 50.10   0.1
                eSn    29 53.70
TRI     5.14 277 P     28 52.00   1.2
                eSn    29 49.00
BAI     5.19 218 P     28 51.00  -0.5
BRT     5.25 214 P     28 52.60   0.1
                eSn    29 51.20
RDO     5.30 140 iPd   28 52.50  -0.6
LIT     5.31 168 ePd   28 53.68   0.3
PSN     5.35 105 iPd   28 54.00   0.1
OUR     5.42 156 ePd   28 53.60  -1.2
LCI     5.47 206 P     28 54.20  -1.4
                eSn    29 52.10
KMR     5.50 302 iPn+  28 57.00   1.1
                iSn    29 57.70
KBA     5.64 291 iPnc  28 58.20   0.1
                i      29 01.70
KEK     5.67 190 eP    28 59.50   1.1
PAIG    5.72 159 iPc   28 58.08  -1.0
ALN     5.73 139 ePd   28 58.80  -0.4
IGT     5.80 186 ePd   29 01.48   1.3
FVI     5.91 285 P     29 02.00   0.3
DUI     6.03 235 P     29 03.70   0.3
ARV     6.09 256 P     29 04.30   0.1
VVI     6.09 279 P     29 06.57   2.3
BHG     6.13 296 eP    29 05.70   0.8
ORI     6.25 214 P     29 06.00  -0.5
AQU     6.27 245 P     29 07.00   0.1
RSM     6.29 260 P     29 09.00   1.9
SGO     6.35 224 P     29 07.40  -0.5
                eSn    30 17.30
AGG     6.36 171 ePd   29 07.96  -0.1
KHC     6.36 310 iPnc  29 08.00  -0.2
                e      29 18.50
                e      30 27.30
SDI     6.38 238 P     29 08.50   0.1
KSP     6.39 332 iPnc  29 07.80  -0.7
      1.0s   216.00nm          6.0mb
                iS     30 21.50
PRU     6.42 319 Pnc   29 07.00  -1.9
      N  11s    12.90um
      E  11s    10.70um
                e      29 15.40
                e      29 22.80
                eSn    30 32.00
ASS     6.43 253 P     29 09.00  -0.2
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RFI	6.53	235	P	29	11.07	0.6
CSI	6.55	214	P	29	09.50	-1.4
MGR	6.57	220	P	29	10.50	-0.5
MMN	6.58	216	P	29	11.80	0.6
			eSn	30	22.80	
ROI	6.62	212	P	29	11.10	-0.8
TDS	6.64	213	P	29	11.50	-0.5
KGT	6.68	134	eP	29	12.00	-0.6
SFI	6.71	261	P	29	13.00	0.0
EZN	6.72	143	iP	29	12.00	-1.2
MNS	6.72	247	P	29	13.00	-0.3
CRE	6.73	259	P	29	15.00	1.6
WET	6.76	307	ePn	29	13.30	-0.4
CTT	6.81	125	iP	29	13.00	-1.4
WTTA	6.81	290	iPnc	29	15.50	0.9
			i	29	18.00	
PGD	6.82	261	P	29	15.15	0.5
RMP	7.00	243	P	29	17.60	0.5
EDC	7.05	132	iP	29	16.50	-1.2
CZI	7.10	213	P	29	16.10	-2.3
			eSn	30	38.50	
VLS	7.14	183	eP	29	18.50	-0.5
OGA	7.14	286	eP	29	21.00	1.7
ITU	7.18	123	ePn	29	19.00	-0.5
PRK	7.19	146	eP	29	19.00	-0.7
ISK	7.23	123	eP	29	18.50	-1.7
FUR	7.30	297	iPc	29	21.30	0.0
BRG	7.32	322	ePn	29	19.00	-2.5
			i	29	26.00	
			i	29	32.00	
			i	30	40.00	
			i	31	35.00	
			i	31	57.00	
GRI	7.35	210	P	29	20.79	-1.2
SAL	7.41	276	P	29	23.50	0.7
MME	7.46	265	P	29	24.00	0.3
BDI	7.56	264	P	29	24.00	-0.9
GBZT	7.63	123	eP	29	24.50	-1.4
PII	7.69	262	P	29	26.70	0.0
MAO	7.72	251	P	29	28.70	1.6
MAO	7.72	251	P	29	25.60	-1.5
OSS	7.72	284	ePd	29	29.60	2.2
YLV	7.73	125	eP	29	25.00	-2.3
HRT	7.74	122	eP	29	25.50	-2.0
IZI	7.94	126	eP	29	28.50	-1.8
GRF	7.97	307	iPc	29	29.30	-1.3
Z	14s	4.40um				
			eS	31	12.70	
DST	7.99	133	iP	29	29.10	-1.9
CLL	8.05	321	ePn	29	29.00	-2.7
	1.3s	70.00nm				5.7mb X
Z	11s	7.50um				6.4MszX
N	11s	11.00um				
E	11s	7.50um				
			e	31	56.00	
GMB	8.12	210	P	29	32.09	-0.8
SOI	8.14	209	P	29	31.20	-1.8
			eSn	30	56.00	
VDL	8.17	282	ePc	29	35.30	1.7
EYL	8.19	122	iP	29	32.50	-1.3
BOB	8.24	270	P	29	35.00	0.5
MOX	8.28	314	iPn	29	33.10	-1.9
	1.5s	84.00nm				5.8mb X
Z	17s	3.80um				4.4Msz
N	13s	5.40um				
E	13s	4.00um				
			(Sg)	31	40.00	
IZM	8.32	144	eP	29	35.10	-0.4
GPA	8.45	123	eP	29	38.00	0.5
LLS	8.52	285	ePc	29	39.50	0.9
TMA	8.56	280	ePc	29	39.70	0.6
VLI	8.70	170	eP	29	41.00	0.1
MNO	8.77	215	P	29	41.00	-1.0
PCP	8.91	269	P	29	43.74	0.0
SLE	9.00	290	ePc	29	44.00	-1.0
GIB	9.01	218	P	29	46.00	0.9
ZLA	9.02	288	ePd	29	45.30	0.0
CKI	9.12	269	P	29	46.00	-0.6
PGF	9.13	257	eP	29	46.70	-0.1
	0.9s	49.15nm				5.9mb
ALT	9.18	130	eP	29	46.90	-0.6
ORX	9.19	277	P	29	45.38	-2.4
MMK	9.19	279	ePc	29	50.20	2.3
FIN	9.21	268	P	29	46.61	-1.2
FEL	9.34	291	P	29	48.59	-1.2
MEU	9.41	211	P	29	48.40	-2.3
KHL	9.42	135	eP	29	50.50	-0.3

ROB	9.43	268	P	29	48.05	-2.9X
IMI	9.49	266	P	29	50.20	-1.7
DIX	9.58	279	ePc	29	53.70	0.5
BBS	9.61	288	P	29	52.50	-0.9
STR	9.66	295	P	29	55.01	1.0
LIBD	9.66	292	P	29	54.53	0.4
RSP	9.74	274	P	29	53.99	-1.3
ENR	9.76	268	P	29	54.30	-1.2
TNS	9.80	305	eP	29	54.90	-1.2
			e	32	23.10	
STV	9.82	269	P	29	55.53	-0.9
SBF	9.83	266	eP	29	54.90	-1.5
	0.5s	26.25nm				5.9mb
DOI	9.83	270	P	29	57.90	1.4
DOI	9.83	270	P	29	54.50	-2.0
GWF	9.86	297	P	29	55.79	-1.0
MOF	9.92	290	P	29	57.05	-0.7
CDF	9.93	293	P	29	56.94	-1.0
PZZ	9.93	270	P	29	55.63	-2.4
ECH	9.97	292	P	29	58.30	0.0
LOMF	10.05	287	P	29	59.02	-0.5
KAS	10.06	109	ePn	30	06.00	6.3X
			iSg	31	45.50	
LPG	10.06	276	eP	30	01.20	1.3
	0.8s	62.95nm				6.1mb
LPL	10.08	276	eP	30	01.30	1.3
RRL	10.10	273	P	29	59.53	-0.8
BSF	10.14	289	eP	29	59.40	-1.4
	1.0s	56.00nm				6.0mb
RSL	10.14	277	P	30	01.66	0.8
BNI	10.16	274	P	30	01.00	-0.1
FRF	10.45	265	eP	30	03.20	-1.8
	0.5s	17.50nm				5.7mb X
HAU	10.46	290	eP	30	04.10	-1.0
	0.8s	21.50nm				5.6mb X
Z	22s	2.08um				
LMR	10.61	264	eP	30	05.30	-1.8
	0.5s	10.20nm				5.5mb X
BCK	10.62	134	eP	30	07.70	0.4
LRG	10.68	265	eP	30	06.70	-1.4
Z	18s	7.50um				
VITF	10.74	291	P	30	08.07	-0.8
ELL	10.85	139	eP	30	21.00	10.5X
BNS	10.86	306	ePc	30	10.80	0.4
	2.0s	655.00nm				6.6mb X
Z	10s	4.60um				5.1MszX
WLF	10.98	299	iP	30	13.42	1.3
CDR	11.04	267	ePc	30	16.50	3.5X
			e	33	37.50	
MEM	11.39	303	iP	30	18.40	0.7
ENN	11.50	304	eP	30	20.50	1.3
	1.0s	111.00nm				6.1mb
			eS	32	23.50	
WTS	11.54	311	eP	30	33.00	13.3X
	0.7s	18.00nm				
SSB	11.63	276	P	30	19.77	-1.3
KVT	11.73	106	eP	30	24.00	1.6
COP	11.73	335	eP	30	19.50	-2.8X
			i	30	29.00	
LBF	11.96	284	eP	30	23.90	-1.7
	0.9s	22.95nm				5.5mb
SMF	12.05	282	eP	30	27.50	0.8
	0.9s	22.95nm				5.5mb
LOR	12.06	285	eP	30	25.00	-1.8
	0.8s	13.45nm				5.3mb
Z	22s	2.15um				
COLF	12.20	277	P	30	27.16	-1.7
PLDF	12.22	279	P	30	27.61	-1.5
SSF	12.29	284	eP	30	28.20	-1.7
	0.8s	12.10nm				5.2mb
SNF	12.39	301	P	30	30.20	-1.0
AVF	12.39	283	eP	30	30.60	-0.6
	1.0s	24.00nm				5.4mb
LBL	12.55	276	P	30	33.82	0.4
AGO	12.56	280	P	30	32.00	-1.5
GRC	12.59	285	P	30	32.58	-1.4
PYM	12.66	278	P	30	32.29	-2.7
BGF	12.74	282	eP	30	34.80	-1.1
	0.9s	27.85nm				5.5mb
MAF	12.94	281	eP	30	38.30	-0.3
	0.7s	15.45nm				5.3mb
TCF	13.19	281	eP	30	41.30	-0.6
	0.8s	16.10nm				5.2mb
CAF	13.42	275	eP	30	44.80	-0.2
	1.0s	24.00nm				5.2mb
RJF	13.75	277	eP	30	50.60	1.3
	1.0s	32.00nm				5.2mb

Z	20s	1.63um				
OBN	13.94	40	iPc	30	48.00	-3.6X
	1.2s	130.00nm				5.6mb
Z	16s	3.60um				
			i	31	06.00	
			eS	33	11.00	
			e	33	20.00	
			i	33	45.00	
LFF	14.35	276	eP	30	57.60	0.5
	0.9s	88.45nm				5.4mb
MFF	14.80	283	eP	31	02.70	-0.3
	0.7s	11.00nm				4.5mb
NUR	15.37	7	iP	31	07.10	-3.3X
LPF	15.40	288	eP	31	10.70	-0.1
	0.9s	19.65nm				4.4mb
HFS	15.49	346	eP	31	09.00	-2.9X
	0.4s	5.90nm				4.2mb X
Z	15s	4.34um				
			LR	37	15.00	
ADI	16.40	133	eP	31	27.00	3.2X
NB2	16.79	343	P	31	24.40	-4.2X
	0.5s	4.10nm				3.8mb X
KAF	17.11	8	iP	31	29.90	-2.6
	0.4s	13.90nm				4.4mb
JVI	17.38	135	eP	31	37.60	1.4
EKA	18.33	312	P	31	48.00	0.2
	1.1s	8.40nm				3.8mb X
EVIA	18.70	257	eP	31	53.70	1.1
MSL	18.90	110	eP	31	57.50	2.6
			eS	35	33.50	
			eLR	39	40.50	
MBH	18.95	140	eP	31	56.50	0.8
GUD	18.99	265	eP	31	56.22	0.1
EHUE	19.17	255	eP	31	59.46	1.2
ENIJ	19.35	253	eP	32	01.17	0.7
DMU	19.95	306	eP	32	07.40	0.6
AFC	20.11	255	eP	32	08.92	0.1
ECOG	20.11	255	eP	32	09.00	0.2
TAB	20.16	102	eP	32	11.00	1.6
EMON	20.34	275	eP	32	11.15	0.1
EGUA	20.34	254	eP	32	09.89	-1.2
ERUA	20.50	272	eP	32	12.59	-0.1
EPLA	20.57	265	eP	32	13.31	-0.2
MAL	20.97	255	eP	32	25.00	7.4X
EHOR	20.99	258	eP	32	17.81	0.0
STS	21.35	274	eP	32	22.30	0.9
EPRU	21.41	256	eP	32	24.82	2.7
BHD	21.61	116	eP	32	29.00	5.0X
			eS	36	15.00	
			eLR	39	51.00	
EJIF	21.84	255	eP	32	30.58	4.2X
EVAL	22.15	259	eP	32	29.50	0.1
SOD	22.31	6	iP	32	31.20	0.4
LOF	23.21	353	eP	32	47.55	7.9X
KTK1	23.79	2	eP	32	45.75	0.5
TRO	24.41	358	eP	32	53.22	2.0
KEV	24.69	5	eP	32	55.00	1.0
AVE	24.95	251	iPc	32	58.80	2.1
			i	33	08.00	33kmX
TIO	26.34	247	iP	33	11.50	1.5
			i	33	18.50	25kmX
MAIO	30.22	94	eP	33	53.00	8.1X
TIC	44.68	218	Pc	35	47.92	1.1
	1.0s	28.00nm				5.1mb
KIC	44.81	218	Pc	35	49.14	1.3
	0.8s	16.00nm				5.0mb
LIC	45.06	218	Pc	35	51.08	1.2
	1.1s	42.00nm				5.3mb
Z	20s	0.38um				4.3Msz
GKN	52.52	86	P	36	48.46	0.7
DMN	53.09	86	P	36	50.62	-1.5
KKN	53.10	86	P	36	52.58	0.4
PKI	53.32	86	P	36	52.96	-1.0
GUN	53.45	86	P	36	55.10	0.2
LSA	56.06	80	eP	37	12.50	-1.5
MBC	56.10	349	eP	37	13.50	0.4
GTA	56.32	66	eP	37	15.80	0.4
Z	20s	1.80um				5.2Msz
N	13s	0.60um				
LZH	60.84	67	eP	37	48.00	1.0
	2.0s	32.00nm				5.1mb
Z	20s	1.23um				5.1Msz
N	10s	0.38um				
			sP	38	00.00	
INK	65.11	350	eP	38	15.00	0.5
XAN	65.38	66	eP	38	20.00	3.2X
CHG	68.45	85	eP	38	36.90	0.5

19d 01h

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CN2     68.80  49 eP     38 37.60  -0.6
     Z  14s      2.60um          5.6MszX
     N  17s      0.80um
     E  17s      1.30um
                 epP    38 43.00  17kmX
FBA     69.78 355 P      38 45.90   2.0
FRS     74.80 176 eP     39 14.70   0.8
SES     76.01 331 eP     39 22.00   1.1
CER     78.32 182 eP     39 53.00  19.4X
PNT     79.71 335 eP     39 46.00   4.8X
TUL     81.08 313 eP     39 49.70   1.0
     0.8s      7.10nm          4.8mb
     Z  18s      0.41um          4.8Msz
     N  18s      0.11um
     E  18s      0.27um
                 LR     13 57.00
BW06    81.88 326 P      39 54.90   1.9
GOL     82.67 321 P      40 00.00   2.7
MEO     83.39 314 e(P)   40 01.00   0.3
     S.D. = 1.2  on 250 of 273 obs.
-----------------------------------------
*  JUL  19, 1991  02h 23m 49.82± 0.73s
   45.329 N ± 6.8km   20.966 E ± 8.2km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                          (383)

BEO      0.62 216 iPgd   24 03.00   0.7
                 iSg    24 15.30
DEV      1.47  67 iPd    24 17.00   0.7
UZD      2.09 308 ePn    24 29.40   4.1X
BUD      2.54 329 ePn    24 31.80   0.1
CMP      2.87  90 ePd    24 46.00   9.5X
MTUR     2.89  91 eP     24 43.00   6.1X
                 e      44 17.00
BMR      2.92  36 ePd    24 55.00  17.8X
SRO      3.09 325 e(Pn)  24 37.80  -1.6
                 i      24 40.50
                 i(Sn)  25 24.50
SKO      3.37 174 ePn    24 48.20   4.6X
      1.0s    61.00nm
                 ePb    24 52.00
                 ePg    24 56.40
                 iSg    25 39.80
MLR      3.51  86 eP     24 51.00   5.4X
PTJ      3.56 281 eP     24 46.40   0.1
ZST      3.91 319 e(Pn)  24 50.70  -0.5
VRI      4.08  80 eP     25 04.00  10.4X
VAY      4.17 163 ePn    24 54.00  -0.9
KRA      4.78 352 eP     24 58.20  -5.4X
                 e      25 03.50
KHC      6.31 310 ePn    25 25.60   0.5
                 e      26 44.60
PRU      6.37 319 ePn    25 27.00   1.1
                 eSn    26 36.00
                 e      26 45.80
     S.D. = 1.0  on   9 of  17 obs.
-----------------------------------------
&  JUL  19, 1991  02h 41m 36.80s
   33.210 N          115.970 W
   DEPTH =   3.0km
 SOUTHERN CALIFORNIA                 ( 43)
     <PAS-P>. ML 4.0 (PAS). Felt (V)
     at Solton City and (III) at Palm
     Springs and White Water. Also
     Felt at Coachella.

IKP      0.57 192 iPc    41 47.60  -0.6
PLM      0.76 281 iPc    41 51.40  -0.6
BAR      0.79 228 iPc    41 51.50  -1.1
TPC      0.90 356 iPd    41 53.30  -1.4
GLA      0.97  99 iPc    41 54.00  -2.0
CPE      1.00 251 iPc    41 54.80  -1.7
PEC      1.20 305 iPc    41 57.60  -2.3
SSK      1.75 305 eP     42 08.90   0.5
ABL      3.16 302 eP     42 25.50  -3.1
BCH      3.94 301 eP     42 36.70  -2.9
PHAM     4.50 307 P      42 50.50   3.1
PRI      4.85 308 eP     42 55.40   2.8
                 ePg    43 11.10
FRI      4.86 322 eP     42 52.50  -0.1
                 ePg    43 05.00
                 iSg    44 08.30
TNP      4.97 349 e(P)   42 47.00  -7.3
BONR     5.10 339 e(P)   42 52.00  -4.3
PRS      5.43 307 eP     43 02.70   2.1
CMB      6.01 324 eP     43 11.60   2.8
                 ePg    43 25.70
MHC      6.20 313 eP     43 14.50   2.8
      18 obs. associated
-----------------------------------------
?  JUL  19, 1991  02h 43m 21.23± 0.82s
   45.273 N ± 8.3km   21.113 E ± 9.5km
   DEPTH =  10.0km  (geophysicist)
 ROMANIA                             (358)
      ML 3.8 (ZAG).

BEO      0.65 226 ePg    43 34.50   0.3
DEV      1.40  63 ePd    43 48.00   1.3
UZD      2.21 308 e(Pn)  44 03.00   4.6X
SRO      3.19 324 iPn    44 11.60  -0.8
                 i      44 18.40
                 i      45 02.40
SKO      3.31 176 ePn    44 16.00   1.9
      0.9s    68.00nm
                 iPg    44 30.20
                 iSg    45 19.40
                 Lg     45 26.00
MLR      3.41  85 eP     44 25.50   9.8X
ZAG      3.65 280 ePb    44 25.00   6.2X
                 iSn    45 01.50
                 iSg    45 19.50
PTJ      3.67 282 ePn    44 20.10   0.7
                 eSn    45 13.70
HVAR     3.95 240 e(Pn)  44 29.60   6.4X
VRI      3.99  79 eP     44 31.00   7.3X
ZST      4.02 318 e(Pn)  44 23.50  -0.6
VAY      4.09 164 ePn    44 29.00   3.9X
VBY      4.13 275 e(Pn)  44 41.20  15.5X
                 eSn    45 31.00
KNT      4.31 162 ePc    44 33.30   5.0X
GRG      4.42 167 iPc    44 37.94   8.1X
SRS      4.53 156 ePd    44 30.54  -0.9
SOH      4.74 159 ePd    44 41.54   7.0X
OUR      5.37 156 ePd    44 41.34  -1.9
KHC      6.42 310 ePn    45 02.10   3.9X
                 e      46 12.60
KSP      6.44 332 ePn    45 05.20   6.8X
PRU      6.48 319 Pn     45 02.50   3.6X
                 Sn     46 11.80
                 e      46 23.00
     S.D. = 1.5  on   8 of  21 obs.
-----------------------------------------
*  JUL  19, 1991  04h 01m 28.30± 0.78s
   13.094 N ±11.6km   88.446 W ±11.3km
   DEPTH =  73.0 ±  6.6 km
   4.6mb (  5 obs.)
 EL SALVADOR                         ( 73)
      Felt (III) at San Salvadar.

VSM      0.37  27 iPc    01 43.00   2.2
QZA      0.69 309 iPd    01 42.00  -1.5
SJAS     0.90 309 iPd    01 44.80  -1.3
VSS      1.01 310 iPd    01 46.80  -0.6
TME      1.27 316 iPd    01 50.20  -0.6
YPE      1.58 311 iPd    01 54.00  -1.0
TPX      4.12 296 iP     02 28.50  -1.7
                 iS     03 06.00
SCX      5.43 312 (P)    02 58.00   9.5X
PBJ      7.51 297 (P)    03 13.00  -4.4X
                 (S)    04 21.50
OXX      8.92 297 (P)    03 38.00   1.0
IISM    10.39 305 (P)    03 57.50   0.7
IIT     11.16 303 (P)    04 09.50   2.1
PPM     11.44 303 eP     04 12.50   1.0
III     11.84 298 (P)    04 18.00   1.6
MRX     13.88 300 (P)    05 00.00  16.9X
MEO     23.47 339 iPd    06 34.20   2.1
TUL     23.66 345 eP     06 34.60   0.6
      0.6s      5.70nm          4.2mb
     Z  20s      0.09um          3.2Msz
                 e      06 59.40
                 LR     14 22.00
GOL     30.42 334 P      07 35.40  -0.8
ZOBO    35.42 145 P      08 20.00  -0.1
     Z  24s      0.11um          3.5MszX
                 LR     20 28.00
LPB     35.65 145 P      08 22.00   0.1
CNCB    35.94 145 P      08 26.00   1.5
LRM     38.43 333 eP     08 45.40   0.6
SIV     39.60 136 P      08 53.00  -1.5
SES     41.52 338 ePc    09 10.20   0.2
FFC     42.87 348 eP     09 21.00   0.1
      0.5s     11.00nm          4.9mb
PNT     44.29 331 eP     09 33.00   0.5
      0.7s      8.00nm          4.7mb
YKA     52.74 345 eP     10 36.50  -1.1
      0.8s     12.80nm          5.0mb
INK     62.30 343 ePc    11 43.10  -1.7
MBC     65.25 352 ePc    12 02.50  -1.4
      0.5s      2.00nm          4.3mb
FBA     65.45 336 P      12 03.60  -1.7
WR2    138.48 255 iPKPc  20 48.80   0.6
      0.6s      5.90nm
                 i      21 06.80
WRA    138.51 255 PKP    20 48.00  -0.2
      0.7s      3.10nm
     S.D. = 1.3  on  29 of  32 obs.
-----------------------------------------
*  JUL  19, 1991  04h 44m 40.34± 0.74s
   42.699 N ±15.5km  149.761 E ± 8.8km
   DEPTH =  33.0km  (normal)
   4.4mb (  6 obs.)
 OFF COAST OF HOKKAIDO, JAPAN        (225)

KUSJ     3.73 278 eP     45 35.10  -1.9
                 eS     46 13.70
HOOJ     4.79 268 eP     45 52.90   0.9
                 eS     46 43.70
ASAJ     5.38 288 eP     46 01.40   1.1
OFUJ     7.12 242 eP     46 24.00  -0.8
                 eS     47 38.00
SSE     25.50 252 P      50 11.00   3.9X
      0.6s     44.00nm          5.2mb
     Z  12s      1.10um          4.6MszX
INK     46.35  30 eP     53 05.00   0.5
YKA     55.61  34 eP     54 13.70  -1.0
      0.8s      1.90nm          4.2mb
WRA     63.93 196 P      55 13.00   0.7
      1.0s      1.60nm          4.1mb
FFC     65.39  37 eP     55 21.00  -0.5
      0.8s     10.00nm          5.0mb
TNP     67.40  59 P      55 35.00   0 2
BW06    69.11  51 (P)    55 45.00  -0.4
NB2     71.26 340 P      55 57.70  -0.2
      0.5s      1.10nm          4.2mb
HFS     71.38 339 eP     55 57.80  -0.8
      0.9s      3.50nm          4.4mb
KHC     80.79 333 eP     56 53.90   2.1
     S.D. = 1.2  on  13 of  14 obs.
-----------------------------------------
*  JUL  19, 1991  04h 48m 36.62± 0.81s
   24.613 N ±10.1km  122.341 E ±12.2km
   DEPTH =  33.0km  (normal)
   4.1mb (  2 obs.)
 TAIWAN REGION                       (243)
      ML 3.9 (BJI).

TWC      0.45 270 iPc    48 44.90  -1.5
                 eS     48 51.10
TWZ      0.84 305 iPc    48 53.60   1.5
                 eS     49 05.30
TWK      2.16 232 ePc    49 14.30   3.2X
OZH      3.42 276 ePn    49 30.00   1.0
NJ2      8.02 338 Pd     50 31.40  -2.3
      0.6s     50.00nm          5.8mb X
     Z  10s      0.60um          4.6MszX
                 S      51 59.40
HHC     18.53 333 eP     52 53.60   1.1
BTO     18.99 330 eP     53 02.00   3.9X
     N  11s      0.50um
     E  11s      0.30um
CN2     19.31   7 eP     53 02.40   0.6
     Z  12s      1.30um
     N  10s      0.30um
     E  10s      0.30um
                 esP    53 11.50
WRA     45.80 164 P      56 57.00  -0.2
      0.7s      5.10nm          4.6mb
WR2     45.81 164 iPc    56 57.20  -0.1
      0.5s      6.00nm          4.8mb X
ASPA    49.28 166 iPd    57 24.80   0.4
      0.5s      6.60nm          4.9mb X
NB2     78.34 332 P      00 34.50  -0.4
      0.7s      0.60nm          3.7mb
     S.D. = 1.4  on  10 of  12 obs.
-----------------------------------------
%  JUL  19, 1991  04h 54m 58.47± 0.59s
   43.081 N ± 8.0km    0.764 W ± 4.4km
   DEPTH =  10.0km  (geophysicist)
 PYRENEES                            (378)
      ML 1.3 (STR).
```

```
ATE      0.05  84 Pg    55 00.58  -0.1
                Sg    55 02.11
ISSF     0.06 203 Pg    55 00.95   0.1
                Sg    55 02.79
MADF     0.08 328 Pg    55 01.23   0.3
                Sg    55 03.07
ESCF     0.14  91 Pg    55 01.90   0.1
                Sg    55 04.21
BOH      0.18 277 Pg    55 02.29  -0.3
                Sg    55 05.63
ELYF     0.19 298 Pgd   55 02.75   0.0
                Sg    55 05.89
OGE      0.23  68 Pg    55 03.24  -0.2
     S.D. = 0.3  on   7 of   7 obs.
-----------------------------------------
*  JUL  19, 1991  05h 00m 18.71± 1.65s
   45.579 N ±12.7km   26.649 E ± 8.3km
   DEPTH = 131.6 ± 17.3 km
 ROMANIA                              (358)
      Felt (II) in the Vrancea area.

BRD      0.29 102 iPc   00 37.50   0.9
VRI      0.30  10 iPc   00 36.00  -0.6
ISR      0.45 189 iPc   00 37.00  -1.0
MLR      0.50 260 iPc   00 37.00  -1.4
PPE      0.93  46 iPd   00 42.50   1.1
CLI      1.07  24 iPd   00 42.00  -0.7
CFR      1.13 110 iPd   00 44.00   0.7
MTUR     1.17 253 iPc   00 42.50  -1.3
CMP      1.18 255 ePc   00 46.00   2.2
PTT      1.37 352 eP    01 00.00  14.2X
TLB      1.39 135 iPc   00 45.50  -0.5
IAS      1.73  21 eP    01 00.00  10.0X
PSN      2.19 149 iPg   00 57.00   1.5
PVL      2.54 202 iPd   01 02.00   2.0
DIM      3.62 193 eP    01 14.00  -0.2
PLD      3.75 203 eP    01 15.00  -0.9
VTS      3.88 221 iP    01 17.00  -0.8
KDZ      4.03 193 iPd   01 20.00   0.3
RZN      4.13 201 iP    01 21.00  -0.3
ALN      4.70 186 ePc   01 28.60  -0.1
SRS      4.98 208 ePc   01 31.64  -0.9
VAY      5.19 216 ePn   01 41.40   6.1X
KNT      5.19 213 ePd   01 35.44   0.1
HRT      5.24 154 eP    01 34.00  -2.1
GRG      5.56 215 ePc   01 42.32   1.9
OUR      5.59 201 iPd   01 40.92   0.1
PAIG     6.06 202 iPc   01 47.17   0.0
     S.D. = 1.2  on  24 of  27 obs.
-----------------------------------------
%  JUL  19, 1991  05h 11m 37.23± 0.74s
   40.133 N ± 6.2km   29.151 E ± 7.1km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                               (366)
      MD 3.2 (ISK).

IZI      0.32  50 iPg   11 43.50  -0.4
YLV      0.47  21 iPg   11 47.00   0.3
DST      0.66 218 ePg   11 50.00  -0.5
                eSg   12 00.00
GBZT     0.69  19 ePg   11 49.00  -1.9
                iSg   12 05.20
EYL      0.88  60 iPg   11 55.00   0.7
                eSg   12 07.50
ISK      0.93 356 iPn   11 56.30   1.3
EDC      1.01 283 ePg   11 56.50   0.2
ALT      1.31 145 ePn   12 01.80   0.3
     S.D. = 1.1  on   8 of   8 obs.
-----------------------------------------
   JUL  19, 1991  05h 24m 20.11± 0.55s
   45.315 N ± 5.9km   21.104 E ± 5.8km
   DEPTH =  10.0km  (geophysicist)
 ROMANIA                              (358)
      ML 2.9 (SKO).

BEO      0.67 223 iPg   24 32.50  -1.0
                iSg   24 44.00
DEV      1.39  65 iPc   24 46.00   0.6
DRA      2.33 105 ePd   25 10.00  11.0X
CMP      2.78  90 ePc   25 11.00   5.5X
MTUR     2.80  90 eP    25 16.00  10.2X
BMR      2.88  34 ePd   25 22.00  15.1X
VTS      3.12 150 iP    25 10.00  -0.4
SRO      3.15 323 i(Pn) 25 11.20   0.5
SKO      3.35 176 ePn   25 15.00   1.4
                iPg   25 22.70
                iSg   26 09.50
MLR      3.41  85 iPc   25 20.00   5.4X
                e     32 25.00
PTJ      3.66 281 ePn   25 17.30  -0.7
                eSn   26 10.70
KKB      3.73 157 eP    25 20.00   0.9
HVAR     3.97 239 e(Pn) 25 23.60   1.3
ZST      3.98 318 eP    25 22.20  -0.3
VRI      3.99  80 ePc   25 22.00  -0.5
VAY      4.13 164 ePn   25 23.00  -1.6
PLD      4.14 140 eP    25 33.00   8.4X
MMB      4.19 152 ePc   25 26.00   0.6
RZN      4.48 143 iP    25 29.00  -0.7
KDZ      4.82 138 iP    25 39.00   4.5X
     S.D. = 1.0  on  13 of  20 obs.
-----------------------------------------
&  JUL  19, 1991  05h 33m 47.50s
   59.490 N          152.632 W
   DEPTH =  72.9km
   3.7mb (  1 obs.)
 SOUTHERN ALASKA                      (  2)
      <AEIC>.

AUE      0.40 251 iPd   33 59.44  -0.4
AUH      0.43 253 iPd   33 59.79  -0.5
AUI      0.44 249 iPd   33 59.63  -0.5
                S     34 09.27
XLV      0.47  94 iPc   33 59.78  -0.7
                iS    34 09.59
HOM      0.53  71 iPc   34 00.81  -0.2
                eS    34 10.86
IVS      0.57 337 eP    34 00.96  -0.8
                S     34 11.70
CNPM     0.71  87 iPc   34 02.27  -0.7
                iS    34 13.85
CDD      0.77 223 iPd   34 02.68  -0.9
PDB      0.85 291 iPc   34 03.49  -1.0
                eS    34 16.15
NNL      0.87  50 iPd   34 05.06   0.2
SYI      0.89 172 iPd   34 04.36  -0.7
                eS    34 17.22
MCNL     0.93 251 iPd   34 04.30  -1.2
                eS    34 17.38
BRLK     0.93  72 eP    34 04.65  -0.9
                S     34 17.78
RED      0.93 356 ePd   34 04.97  -0.7
                eS    34 18.43
RDW      1.00 355 iPd   34 05.87  -0.7
REF      1.00 358 iPd   34 06.00  -0.6
RDN      1.03 356 iPd   34 06.31  -0.6
NCT      1.09 352 iPd   34 06.98  -0.6
                iS    34 21.42
RDT      1.09   6 iPd   34 06.80  -0.9
                iS    34 22.03
DFR      1.11 359 iPd   34 07.22  -0.6
BGM      1.33 267 eP    34 09.87  -0.9
NKA      1.44  28 ePd   34 12.97   0.9
SLKM     1.58  49 ePd   34 12.48  -1.7
                eS    34 33.40
CKL      1.72   5 iPd   34 15.37  -0.7
SPU      1.72   9 iPd   34 15.30  -0.7
                eS    34 37.24
SEW      1.72  68 eP    34 14.46  -1.5
KDC      1.75 178 iPd   34 15.20  -1.1
BGL      1.78   4 iPd   34 16.34  -0.6
CGLM     1.85   9 iPd   34 17.21  -0.6
NCG      1.93   7 iPd   34 18.37  -0.6
SUA      2.19  24 iPd   34 21.88  -0.6
                eS    34 48.82
SVW      2.20 319 iPc   34 21.70  -0.9
PMS      2.33  40 ePd   34 23.07  -1.3
SKT      2.56  12 ePd   34 26.33  -1.2
PWA      2.56  31 ePc   34 26.70  -0.8
PLRM     2.73  38 iPd   34 27.83  -2.0
PMR      2.73  38 ePd   34 28.20  -1.6
KNK      2.83  45 iPd   34 29.16  -2.1
GHO      2.93  37 ePd   34 30.72  -2.0
CUT      3.14  20 iPd   34 34.39  -1.3
MID      3.21  88 ePc   34 34.67  -1.9
HIN      3.22  71 iPc   34 33.89  -2.8
VZW      3.41  60 ePd   34 36.35  -3.1
VLZ      3.54  60 ePd   34 38.33  -2.8
CVA      3.61  70 eP    34 38.83  -3.4
HUR      3.79  21 ePd   34 43.55  -1.1
TTA      3.82 336 ePc   34 43.90  -1.3
SGAM     3.86  72 eP    34 42.30  -3.4
KLU      3.88  56 iPd   34 43.31  -2.7
RAGM     4.10  74 eP    34 46.81  -2.3
TOA      4.11  48 eP    34 47.30  -2.0
TRF      4.13  15 eP    34 47.65  -2.0
KTH      4.16  11 eP    34 48.97  -1.0
HMT      4.30  75 eP    34 48.73  -3.2
RND      4.33  23 eP    34 50.29  -2.1
TZL      4.37  51 eP    34 50.63  -2.2
SDG      4.60  46 eP    34 53.49  -2.6
MCK      4.61  21 eP    34 54.48  -1.7
GLB      4.78  62 ePd   34 55.14  -3.6
CROM     4.91  71 eP    34 57.80  -2.9
PAX      4.92  42 ePd   34 57.83  -2.8
BWN      4.93  16 ePd   34 59.06  -1.7
WAX      5.01  75 eP    34 58.91  -2.9
TGL      5.06  71 eP    34 59.79  -2.9
BALM     5.35  69 eP    35 03.12  -3.6
NEA      5.37  17 eP    35 03.97  -2.9
WRH      5.44  21 eP    35 04.49  -3.3
CCB      5.65  22 eP    35 07.55  -3.2
CTGM     5.82  70 eP    35 10.95  -2.3
MDM      5.86  19 eP    35 10.46  -3.2
FBA      5.88  21 ePd   35 11.30  -2.7
BCPM     6.59  80 eP    35 20.98  -2.8
PNL      6.73  83 ePd   35 22.17  -3.5
HON      7.01  84 eP    35 25.64  -3.9
INK     12.14  35 eP    36 35.00  -4.1
                pP    36 48.00
YKA     18.50  64 eP    37 56.60  -3.3
        0.3s     1.50nm          3.7mb
MBC     20.42  22 eP    38 20.00  -0.4
        77 obs. associated
-----------------------------------------
   JUL  19, 1991  07h 05m 29.57± 0.86s
   25.149 N ± 5.9km   95.259 E ± 5.3km
   DEPTH = 121.0 ±  9.1 km
   4.8mb ( 42 obs.)
 BURMA-INDIA BORDER REGION            (294)

KMI      6.78  89 Pc    07 10.50   2.3
        2.0s   120.00nm          5.0mb
CHG      7.17 151 ePn   07 13.50   0.2
                eSg   09 15.00
CD2      9.45  51 P     07 43.80  -0.3
GYA     10.36  80 P     07 55.40  -0.9
LZH     13.16  32 eP    08 29.50  -3.6X
GTA     14.73  14 iPd   08 56.80   3.7X
        0.8s    30.00nm          4.6mb
                pP    09 02.20
XAN     14.81  50 eP    08 53.00  -1.1
NDI     16.47 286 iPd   09 12.70  -2.1
        0.5s    17.61nm          4.6mb
                iS    12 02.00
HYB     17.35 247 eP    09 26.20   0.5
                e     09 36.00
                eS    12 37.50
TIY     19.24  45 eP    09 43.40  -3.6X
WMQ     19.63 344 P     09 51.40   0.5
        0.5s    40.00nm          5.0mb
                pP    10 12.50 120kmX
GBA     20.33 239 Pd    09 58.60   0.4
        0.5s    13.70nm          4.6mb
KOD     22.48 232 eP    10 23.00   3.1X
MAIO    32.52 299 eP    11 52.00   1.0
BHL     51.97 294 P     14 29.00   0.5
KAF     58.26 329 eP    15 13.20  -0.1
        0.3s     1.50nm          4.5mb
MLR     58.29 309 ePc   15 13.50  -0.4
WRA     58.77 136 P     15 16.00  -1.3
        0.6s    10.20nm          5.0mb
WR2     58.78 136 iPc   15 17.00  -0.4
        0.6s    16.30nm          5.2mb
WARB    59.35 147 eP    15 21.00  -0.3
        0.4s     7.00nm          5.1mb
ASPA    61.29 139 iPd   15 33.90  -0.6
        0.5s     7.40nm          4.9mb
KSP     64.10 316 eP    15 52.60  -0.1
HFS     64.38 327 eP    15 54.10  -0.3
        0.5s    23.30nm          5.4mb
PRU     65.35 315 eP    16 01.20   0.5
NB2     65.48 328 P     16 01.00  -0.5
        0.5s     5.40nm          4.7mb
BRG     65.56 317 iP    16 02.40   0.3
        0.5s    14.00nm          5.1mb
CLL     66.07 317 iP    16 05.30   0.0
KHC     66.12 315 eP    16 06.50   0.7
MOX     67.06 317 e(P)  16 12.00   0.3
GRF     67.51 316 eP    16 15.60   1.1
        0.9s    10.00nm          4.7mb
```

19d 07h

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CDF     70.34 315 eP     16 31.90  -0.1
        0.6s      9.00nm          4.8mb
PCP     70.57 311 P      16 32.32  -1.2
WLF     70.71 316 Pc     16 35.00   1.0
BSF     70.81 315 eP     16 34.60  -0.3
        0.7s      6.60nm          4.6mb
PGF     70.83 309 eP     16 35.00  -0.1
        0.5s      8.75nm          4.8mb
FIN     70.90 311 P      16 33.35  -2.1
HAU     71.05 315 eP     16 36.30   0.0
        0.8s      8.05nm          4.6mb
ROB     71.11 311 P      16 36.11  -0.6
IMI     71.21 310 P      16 35.91  -1.4
RSP     71.28 312 P      16 35.09  -2.7
ENR     71.44 311 P      16 37.45  -1.3
STV     71.50 311 P      16 37.75  -1.3
LPG     71.52 312 iPd    16 39.60   0.2
        0.5s     14.20nm          5.0mb
LPL     71.52 312 iPd    16 39.80   0.4
        0.4s     20.60nm          5.3mb
PZZ     71.57 311 P      16 36.52  -3.1X
RRL     71.67 312 P      16 39.09  -1.2
FRF     72.17 310 eP     16 42.90  -0.1
        0.5s      2.90nm          4.3mb
LMR     72.34 310 eP     16 44.00   0.1
LRG     72.40 310 eP     16 44.70   0.4
        0.5s      9.50nm          4.8mb
LOR     72.88 315 eP     16 47.10   0.1
        0.5s      5.85nm          4.6mb
LBF     72.89 314 eP     16 47.20   0.0
        0.4s      5.45nm          4.7mb
SMF     73.09 314 iPd    16 48.10  -0.2
        0.5s     13.10nm          5.0mb
SSF     73.17 314 eP     16 49.20   0.5
        0.5s     13.10nm          5.0mb
AVF     73.36 314 iPd    16 49.80   0.0
        0.6s      9.90nm          4.8mb
BGF     73.77 314 eP     16 52.50   0.3
        0.5s      7.65nm          4.7mb
MAF     74.06 314 eP     16 54.60   0.7
        0.5s      6.55nm          4.7mb
TCF     74.27 314 eP     16 55.40   0.2
        0.5s     14.60nm          5.0mb
EKA     74.27 324 Pd     16 55.80   0.9
        0.7s     13.80nm          4.9mb
LSF     74.73 314 eP     16 58.00   0.2
        0.6s      5.40nm          4.5mb
CAF     74.84 313 iPd    16 59.20   0.8
        0.5s      6.55nm          4.7mb
LDF     74.95 317 eP     16 59.30   0.3
        0.6s     10.80nm          4.8mb
RJF     75.07 313 eP     17 00.80   1.1
        0.5s     13.10nm          5.0mb
GRR     75.48 317 eP     17 02.50   0.5
        0.5s      8.75nm          4.8mb
LPO     75.51 313 eP     17 03.10   0.9
        0.4s     16.05nm          5.2mb
MFF     75.69 315 eP     17 03.60   0.4
        0.5s      2.90nm          4.3mb
LFF     75.71 313 eP     17 04.40   1.1
        0.4s      8.60nm          4.9mb
LPF     75.73 316 eP     17 04.20   0.8
        0.5s      9.50nm          4.8mb
MBC     76.60   8 ePd    17 07.90   0.2
        0.5s      8.00nm          4.8mb
EPF     76.68 311 eP     17 09.40   0.5
FBA     78.05  23 (P)     17 20.00   4.1X
BUL     78.88 242 iPc    17 22.30   0.9
        0.7s      8.22nm          4.6mb
INK     80.20  16 ePd    17 27.90   0.5
      S.D. = 0.9  on  66 of  72 obs.
-----------------------------------------
   JUL  19, 1991  07h 45m 13.24± 0.76s
   46.359 N ± 5.9km   12.606 E ± 7.0km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                    (545)
      ML 2.3 (VIE). MD 2.2 (TRI).

FVI     0.26  27 P       45 18.60  -0.2
                eSg     45 22.10
VVI     0.40 199 P       45 22.00   0.6
                eSg     45 25.90
CTI     0.73 245 P       45 26.30  -1.4
                eSg     45 36.80
SCE     0.92 318 iPgd    45 30.70  -0.2
TRI     1.04 128 iPgc    45 32.80   0.0
                iSg     45 46.90
WTTA    1.12 324 iPgd    45 34.30  -0.1
                iSg     45 49.90
OGA     1.20 296 ePg     45 37.10   1.3
      S.D. = 1.0  on   7 of   7 obs.
-----------------------------------------
*  JUL  19, 1991  08h 06m 33.26± 0.66s
   45.324 N ± 7.4km   21.064 E ± 7.2km
   DEPTH =  10.0km  (geophysicist)
 ROMANIA                           (358)

BEO     0.66 221 iPg     06 48.00   1.6
                eSg     07 00.00
SSR     0.67 134 iPc     06 47.00   0.5
DEV     1.41  66 iPc     07 00.00   1.1
PSZ     2.72 343 iPnd    07 17.80   0.0
MTUR    2.83  91 eP      07 38.50  19.1X
SRO     3.13 324 ePn     07 27.20   3.7X
                i        08 14.50
VTS     3.14 150 iP      07 23.00  -0.8
SKO     3.36 175 ePn     07 36.00   9.1X
MLR     3.44  85 eP      07 35.00   6.9X
PTJ     3.63 281 e(Pn)   07 30.20  -0.6
                e(Sn)    08 24.10
PVL     3.72 123 eP      07 42.00  10.0X
ZST     3.96 318 e(Pn)   07 33.30  -2.0
                i        07 42.10
                e        08 25.10
VRI     4.01  80 eP      07 36.00  -0.1
VAY     4.15 164 ePn     07 36.70  -1.3
PLD     4.16 139 eP      07 51.00  12.8X
MMB     4.21 152 ePd     07 32.00  -6.9X
KHC     6.36 309 ePn     08 11.00   1.6
                e        08 44.00
                e        09 37.50
      S.D. = 1.4  on  10 of  17 obs.
-----------------------------------------
?  JUL  19, 1991  08h 32m 20.91± 1.07s
   9.525 N ±16.5km  122.480 E ±10.6km
   DEPTH =  79.0 ± 22.7 km
   4.7mb (  2 obs.)
 NEGROS, PHILIPPINE ISLANDS        (257)

MAP     1.68  62 iPc     32 51.00   2.1
                iS       33 03.00
CGP     2.43 116 ePc     32 58.50  -0.8
                eS       33 28.00
PLP     2.95  56 iPc     33 05.00  -1.4
                eS       33 27.00
PPR     3.71 274 ePc     33 17.00   0.0
                eS       34 00.00
PGP     4.23 339 ePc     33 24.00  -0.3
                eS       33 53.00
WR2    31.54 158 eP      38 37.40  -0.5
        0.6s      6.50nm          4.6mb
ASPA   34.83 161 iPd     39 07.30   0.9
        0.7s      7.60nm          4.7mb
      S.D. = 1.6  on   7 of   7 obs.
-----------------------------------------
?  JUL  19, 1991  08h 49m 20.82± 5.98s
   43.405 N ±13.8km   5.498 E ±46.1km
   DEPTH =  10.0km  (geophysicist)
 NEAR SOUTH COAST OF FRANCE        (379)
      ML 2.5 (LDG).

CDR     0.33  36 ePgd    49 26.90  -0.8
                i(Sg)    49 31.40
CALN    1.07  71 Pg      49 40.87  -0.2
MVIF    1.30  67 Pn      49 44.91   0.0
TOUF    1.41  64 Pn      49 47.83   1.2
AURF    1.41  69 Pn      49 46.86   0.2
AUTN    1.52  66 Pn      49 48.70   0.4
                Sg       50 10.39
SAOF    1.60  68 Pn      49 49.24   0.0
                Sg       50 12.71
PGF     2.71 107 Pn      50 04.56  -0.7
      S.D. = 0.8  on   8 of   8 obs.
-----------------------------------------
%  JUL  19, 1991  08h 50m 54.53± 0.63s
   43.070 N ± 5.6km   0.576 W ± 4.7km
   DEPTH =   5.0km  (geophysicist)
 PYRENEES                          (378)
      ML 1.0 (STR).

ESCF    0.01   8 Pg      50 55.42  -0.1
ATE     0.09 280 Pg      50 56.22  -0.4
                Sg       50 58.00
OGE     0.12  38 Pg      50 57.78   0.6
JAU     0.16 102 Pg      50 57.18  -0.6
LHE     0.16 192 Pg      50 58.28   0.4
ISSF    0.17 255 Pg      50 58.30   0.3
MADF    0.19 293 Pg      50 58.30  -0.2
                Sg       51 01.92
      S.D. = 0.6  on   7 of   7 obs.
-----------------------------------------
?  JUL  19, 1991  09h 13m 05.46± 6.74s
   40.163 N ±44.8km   29.669 E ± 9.5km
   DEPTH =   5.0km  (geophysicist)
 TURKEY                            (366)
      MD 2.7 (ISK).

IZI     0.23 319 iPg     13 10.00  -0.2
                iSg     13 13.00
YLV     0.46 331 ePn     13 15.00   0.3
EYL     0.55  43 ePn     13 16.50   0.0
HRT     0.66 360 ePn     13 18.50  -0.1
      S.D. = 0.3  on   4 of   4 obs.
-----------------------------------------
?  JUL  19, 1991  09h 16m 38.46± 3.98s
   39.536 N ±30.2km   29.427 E ±21.1km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      MD 2.8 (ISK).

DST     0.62 277 ePn     16 51.00   0.0
IZI     0.80   3 iPn     16 53.50  -0.6
YLV     1.03 358 iPn     16 58.50   0.5
EYL     1.17  28 ePn     17 00.50   0.1
HRT     1.30   8 ePn     17 02.50   0.0
      S.D. = 0.5  on   5 of   5 obs.
-----------------------------------------
%  JUL  19, 1991  09h 45m 26.87± 0.78s
   42.322 N ± 6.3km   19.493 E ± 5.4km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                        (383)
      ML 1.8 (TTG).

TTG     0.20 302 iPgc    45 32.27   1.0
                iSg     45 35.67
ULC     0.40 207 iPgc    45 35.10   0.0
                iSg     45 42.02
PVY     0.45  52 iPgd    45 36.02   0.0
                iSg     45 43.33
BDV     0.49 266 iPgd    45 36.77  -0.1
                iSg     45 44.32
NKY     0.61 323 iPgc    45 38.93  -0.3
                iSg     45 48.60
IVA     0.63  28 iPgc    45 39.62   0.1
                iSg     45 48.60
HCY     0.75 280 iPgc    45 41.43  -0.1
                iSg     45 52.88
BRY     0.91 310 iPgc    45 43.78  -0.6
                iSg     45 57.87
      S.D. = 0.5  on   8 of   8 obs.
-----------------------------------------
&  JUL  19, 1991  09h 52m 23.55s
   37.479 N          118.844 W
   DEPTH =   8.6km
 CALIFORNIA-NEVADA BORDER REGION ( 40)
      <GM-P>. MD 3.1 (GM).

BONR    0.64  42 iP      52 35.90  -0.6
CMB     1.34 295 e(P)    52 47.00  -1.4
TNP     1.42  64 eP      52 49.80   0.0
PHAM    2.06 218 eP      52 59.30   0.5
ARN     2.14 267 eP      53 00.50   0.4
        5 abs. associoted
-----------------------------------------
   JUL  19, 1991  10h 08m 07.20± 0.91s
   42.004 N ±10.9km   24.731 E ± 4.9km
   DEPTH =  10.0km  (geophysicist)
 BULGARIA                          (359)
      MD 2.9 (THE).

DIM     0.60  85 iPg     08 19.00  -0.3
MMB     0.86 241 iPgc    08 23.00  -0.7
SRS     1.23 224 ePc     08 30.12   0.0
                eS       08 48.76
KKB     1.24 264 eP      08 30.00  -0.2
ALN     1.48 138 ePd     08 34.36   0.5
                eS       08 54.52
SOH     1.57 222 ePd     08 35.08  -0.1
                eS       08 56.32
KNT     1.61 239 ePc     08 36.40   0.6
VAY     1.76 248 ePn     08 38.60   0.7
```

```
OUR      1.76 199 iPd    08 37.88    0.0
PAIG     2.22 201 ePd    08 44.16   -0.5
      S.D. = 0.5  on  10 of  10 obs.
-----------------------------------------
%  JUL  19, 1991  10h 43m 37.49± 1.98s
   16.715 N ±17.9km   99.720 W ±10.3km
   DEPTH =  17.4 ±  8.2 km
 NEAR COAST OF GUERRERO, MEXICO   ( 58)

ACX      0.20 319 iP     43 42.50    0.0
                  iS     43 48.50
III      1.67   8 eP     44 07.00    0.7
                  iS     44 32.00
PPM      2.56  24 eP     44 19.50    0.1
ITT      2.66  30 eP     44 20.50   -0.1
OXX      2.89  82 (P)    44 34.50   10.7X
IISM     3.18  44 eP     44 27.50   -0.1
                  eS     45 10.00
MRX      3.29 335 eP     44 29.00   -0.2
PBJ      4.15  93 (P)    44 41.50    0.1
      S.D. = 0.4  on   7 of   8 obs.
-----------------------------------------
*  JUL  19, 1991  11h 02m 16.57± 1.73s
    2.914 N ± 7.2km  126.259 E ±15.7km
   DEPTH =  56.3 ± 19.1 km
   5.0mb (  4 obs.)
 MOLUCCA PASSAGE                   (266)

MNI      2.04 224 ePd    02 48.90   -0.1
                  eS     03 11.00
CGP      5.72 344 ePd    03 40.50   -0.5
                  eS     04 47.00
MAP      7.70 343 iPc    04 11.00    2.4
TSM      8.48 280 eP     04 16.50   -2.9
PPR     10.12 313 ePc    04 41.00   -0.9
MTN     16.39 163 eP     06 03.00   -1.4
WR2     24.07 161 iPd    07 28.10    0.2
        0.7s     63.60nm          5.2mb
                  eS     11 41.50
IPM     25.23 275 eP     07 40.00    0.9
QIS     26.75 151 eP     07 53.00    0.0
ASPA    27.45 165 iPd    07 59.20   -0.2
        0.5s     22.00nm          5.0mb
                  eS     12 35.90
FORR    33.62 177 eP     08 53.00   -0.8
XAN     34.94 334 eP     09 02.50   -2.7
MAT     35.23  17 (P)    09 06.00   -1.6
STK     37.55 158 iPd    09 28.10    1.0
        0.7s     6.00nm           4.6mb
BJI     38.07 347 P      09 32.50    1.1
SNY     38.82 357 iPd    09 38.40    0.8
        0.8s    20.00nm          5.0mb
ADE     39.45 164 e(P)   09 45.00    1.9
CN2     40.72 359 eP     09 53.20   -0.1
                  pP     10 03.20   34kmX
CAN     43.60 153 eP     10 22.90    5.8X
YAK     59.02   2 iPd    12 12.80    0.2
INK     91.09  21 eP     15 12.00   -3.9X
      S.D. = 1.5  on  19 of  21 obs.
-----------------------------------------
&  JUL  19, 1991  11h 20m 04.26s
   62.121 N          150.387 W
   DEPTH =   8.8km
 CENTRAL ALASKA                    (  1)
      <AEIC>. ML 2.5 (AEIC).

CUT      0.29  11 iP     20 10.41    0.1
PWA      0.53 153 eP     20 15.10    0.2
SKT      0.56 256 iP     20 15.17   -0.3
                  eS     20 23.77
SUA      0.68 195 eP     20 18.09    0.1
                  eS     20 27.60
GHO      0.78 116 eP     20 18.61   -0.9
PLRM     0.80 131 eP     20 19.38   -0.5
                  S      20 30.62
PMR      0.80 131 e(P)   20 20.00    0.2
        0.5s    132.23nm
HUR      0.93  22 eP     20 20.98   -1.1
                  eS     20 32.90
PMS      0.96 156 eP     20 22.49   -0.2
                  S      20 35.36
NCG      1.11 230 eP     20 24.73   -0.5
CGLM     1.12 224 eP     20 25.01   -0.5
KNK      1.16 127 eP     20 25.30   -0.8
                  S      20 40.72
SPU      1.23 221 eP     20 26.96   -0.4
                  eS     20 43.10
BGL      1.29 229 eP     20 27.95   -0.3
CKL      1.31 226 eP     20 28.50   -0.2
                  S      20 45.23
TRF      1.34   2 eP     20 27.69   -1.4
                  eS     20 45.75
KTH      1.46 351 iP     20 29.98   -0.9
                  S      20 49.26
RND      1.47  28 eP     20 29.85   -1.2
                  eS     20 48.65
SLKM     1.62 177 eP     20 33.43    0.3
                  S      20 54.50
RDT      1.83 213 eP     20 36.19   -0.1
DFR      1.89 217 eP     20 35.79   -1.3
RDN      1.98 216 eP     20 37.51   -0.9
TOA      1.98  89 eP     20 38.46    0.1
REF      1.98 215 eP     20 38.50    0.0
NCT      1.99 219 eP     20 38.37   -0.1
RDW      2.02 216 eP     20 39.30    0.3
RED      2.06 215 eP     20 39.59    0.0
VZW      2.12 118 eP     20 40.97    0.6
VLZ      2.18 115 eP     20 41.05   -0.1
KLU      2.21 105 eP     20 41.63   -0.1
SDG      2.30  78 eP     20 42.39   -0.6
TZL      2.34  90 eP     20 44.02    0.6
PAX      2.43  67 eP     20 44.28   -0.6
      33 obs. associated
-----------------------------------------
   JUL  19, 1991  12h 01m 45.55± 0.47s
   40.522 N ± 5.8km   26.452 E ± 4.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      MD 3.3 (ISK), 3.2 (ATH), 3.0
      (THE).

ALN      0.49 321 ePd    01 54.26   -1.2
                  eS     02 00.90
KGT      0.65  96 iPg    01 58.50   -0.1
EZN      0.70 188 iPg    01 58.00   -1.4
                  eSg    02 05.50
RDO      0.93 312 ePb    02 01.50   -1.8
EDC      1.09  99 ePn    02 06.00   -0.1
PRK      1.28 186 ePb    02 08.60   -0.7
                  eSb    02 25.50
KDZ      1.37 326 iPd    02 10.00   -0.7
DIM      1.68 336 iPg    02 16.00    1.0
OUR      1.90 265 ePc    02 19.34    1.1
                  eS     02 43.98
DST      1.90 118 ePn    02 18.00   -0.4
ISK      2.05  74 ePn    02 21.00    0.5
PLD      2.06 321 eP     02 20.00   -0.6
PAIG     2.20 255 iPd    02 24.10    1.4
YLV      2.23  88 ePn    02 24.00    0.9
SRS      2.25 286 ePd    02 25.70    2.3
                  eS     02 54.06
MMB      2.32 298 ePd    02 24.00   -0.4
HRT      2.46  82 ePn    02 26.60    0.2
KKB      2.88 299 ePd    02 39.00    6.7X
VTS      3.19 311 Pg     02 45.00    8.1X
      S.D. = 1.2  on  17 of  19 obs.
-----------------------------------------
   JUL  19, 1991  12h 09m 06.43± 0.72s
   40.480 N ± 9.3km   26.425 E ± 6.1km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      MD 3.2 (ISK).

ALN      0.51 325 iPd    09 15.82   -0.9
                  eS     09 22.54
EZN      0.66 187 iPg    09 19.50    0.0
                  eSg    09 28.50
KGT      0.67  92 ePg    09 19.50   -0.3
                  eSg    09 28.50
EDC      1.11  96 ePn    09 27.30    0.1
CTT      1.66  66 iPn    09 35.50   -0.2
OUR      1.87 266 ePd    09 36.98   -1.8
                  iS     10 05.66
DST      1.90 117 ePn    09 39.00   -0.3
SRS      2.24 287 ePc    09 46.78    2.6
                  eS     10 16.62
YLV      2.25  87 ePn    09 45.00    0.7
      S.D. = 1.4  on   9 of   9 obs.
-----------------------------------------
?  JUL  19, 1991  12h 22m 25.28± 5.71s
   42.458 N ±43.6km   23.391 E ±22.0km
   DEPTH =  10.0km  (geophysicist)
 BULGARIA                          (359)
KNT      1.35 196 ePd    22 50.64    0.6
                  eS     23 11.92
SRS      1.35 174 iPd    22 50.26    0.2
                  eS     23 10.80
SOH      1.63 181 ePc    22 54.84    0.6
                  eS     23 18.56
OUR      2.17 168 ePd    23 01.08   -0.8
                  eS     23 33.12
LIT      2.45 196 ePc    23 05.40   -0.6
ALN      2.53 127 ePd    23 07.20    0.2
                  eS     23 41.48
      S.D. = 0.8  on   6 of   6 obs.
-----------------------------------------
&  JUL  19, 1991  13h 01m 05.04s
   60.451 N          153.704 W
   DEPTH =  11.7km
 SOUTHERN ALASKA                   (  2)
      <AEIC>. ML 2.8 (AEIC).

NCT      0.40  74 iP     01 13.11   -0.2
                  S      01 19.37
RDW      0.44  86 iP     01 14.18   -0.1
                  S      01 21.07
RED      0.46  94 iP     01 14.44   -0.2
                  eS     01 21.47
                  eS     01 21.50
RDN      0.47  82 iP     01 14.73    0.0
                  eS     01 21.84
REF      0.50  85 eP     01 15.03   -0.2
                  eS     01 22.02
DFR      0.52  74 iP     01 15.22   -0.5
                  eS     01 22.62
RDT      0.65  79 eP     01 17.53   -0.4
PDB      0.71 200 iP     01 18.15   -0.7
CKL      1.00  41 iP     01 22.80   -1.2
                  eS     01 35.88
BGL      1.04  38 eP     01 23.24   -1.3
SPU      1.09  47 iP     01 24.56   -0.9
AUH      1.10 173 eP     01 26.25    0.7
AUE      1.11 171 eP     01 24.84   -0.8
SVW      1.15 306 eP     01 24.67   -1.7
                  eS     01 38.63
CGLM     1.20  43 iP     01 26.37   -0.9
NCG      1.22  38 eP     01 26.48   -1.2
NNL      1.27 108 eP     01 30.07    1.6
MCNL     1.31 194 iP     01 28.77   -0.3
                  eS     01 45.95
XLV      1.41 134 eP     01 30.59    0.0
CDD      1.53 179 eP     01 32.98    0.8
CNPM     1.55 126 eP     01 32.80    0.3
                  S      01 53.32
SLKM     1.73  87 eP     01 34.37   -0.7
                  S      01 56.28
SUA      1.77  54 eP     01 35.74    0.0
SKT      1.86  33 eP     01 36.07   -1.0
SEW      2.15  97 eP     01 40.11   -1.0
PMS      2.18  67 eP     01 41.62   -0.1
GHO      2.67  58 eP     01 47.98   -0.8
      27 obs. associated
-----------------------------------------
?  JUL  19, 1991  14h 28m 27.38± 1.16s
   39.293 N ± 7.9km   28.887 E ±14.5km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      MD 3.0 (ISK).

DST      0.37 327 ePg    28 35.00    0.0
                  eSg    28 40.00
KHL      1.09 153 ePn    28 47.90    0.0
IZI      1.14  23 ePn    28 48.60   -0.1
YLV      1.33  16 ePn    28 52.00    0.1
      S.D. = 0.1  on   4 of   4 obs.
-----------------------------------------
   JUL  19, 1991  15h 42m 21.69± 0.76s
   44.769 N ± 7.6km   22.354 E ± 7.6km
   DEPTH =  10.0km  (geophysicist)
 ROMANIA                           (358)

SSR      0.45 283 iPd    42 31.00    0.2
DEV      1.18  19 iPd    42 42.00   -1.7
BEO      1.35 273 ePg    42 47.20    0.7
                  eSg    43 06.50
CMP      1.97  74 ePc    43 04.00    8.5X
MTUR     1.98  76 eP     42 59.00    3.4X
VTS      2.26 164 iP     42 58.00   -1.9
MLR      2.64  73 ePc    43 07.00    1.8
PVL      2.65 125 eP     43 06.00    0.8
```

19d 15h

```
SKO      2.87 194 ePn    43 09.20    0.8
                  i      43 16.40
KKB      2.95 169 iP     43 20.00   10.6X
ISR      3.00  81 eP     43 21.00   10.8X
PLD      3.16 146 eP     43 22.00    9.5X
MMB      3.33 162 ePg    43 15.00    0.1
VAY      3.45 177 ePn    43 15.70   -0.8
DIM      3.57 138 eP     43 28.00    9.8X
      S.D. = 1.4  on   9 of  15 obs.
-----------------------------------------
%  JUL  19, 1991  15h 47m 57.85± 0.46s
   11.224 N ± 4.5km   61.036 W ± 6.6km
   DEPTH =  33.0km  (normal)
 WINDWARD ISLANDS                    ( 95)
      MD 3.4 (TRN).

PIG      0.20 108 iP     48 04.78    0.3
                  eS     48 10.37
TPR      0.26  98 iP     48 05.05    0.0
BOT      0.32 100 iP     48 05.52   -0.3
TRN      0.68 212 iP     48 10.20   -0.7
                  eS     48 19.43
TBH      0.74 182 eP     48 11.02   -0.8
TCE      0.88 233 eP     48 13.61   -0.2
                  iS     48 25.02
TPP      0.99 204 eP     48 17.08    1.7
                  eS     48 29.11
GRW      1.11 327 iP     48 16.97   -0.3
SVB      2.05 354 eP     48 30.30   -0.4
SVV      2.09 355 eP     48 30.66   -0.6
SOA      2.14 357 eP     48 33.02    1.1
SLB      2.59 360 eP     48 38.47    0.1
                  eS     49 11.17
      S.D. = 0.8  on  12 of  12 obs.
-----------------------------------------
   JUL  19, 1991  16h 19m 27.52± 0.72s
   44.724 N ± 6.8km   22.491 E ± 7.9km
   DEPTH =  10.0km  (geophysicist)
 ROMANIA                             (358)

SSR      0.55 285 iPd    19 39.00    0.3
DEV      1.20  14 iPd    19 48.00   -1.8
DRA      1.26  91 ePc    20 05.00   14.1X
BEO      1.45 275 ePg    19 54.50    0.7
                  eSg    20 15.50
VTS      2.19 166 iP     20 04.00   -0.7
MLR      2.56  71 eP     20 12.00    2.1
SKO      2.86 196 ePn    20 13.50   -0.5
                  eSn    21 10.70
KKB      2.89 171 eP     20 15.00    0.6
PLD      3.07 148 eP     20 27.00   10.0X
VRI      3.20  68 eP     20 23.00    4.2X
MMB      3.26 163 ePc    20 30.00   10.2X
VAY      3.40 179 ePn    20 21.50   -0.2
KDZ      3.74 144 iP     20 26.00   -0.6
      S.D. = 1.3  on   9 of  13 obs.
-----------------------------------------
   JUL  19, 1991  16h 28m 35.65± 0.68s
   36.295 N ± 7.4km  141.288 E ± 7.7km
   DEPTH =  33.0km  (normal)
   4.7mb (  5 obs.)
 NEAR EAST COAST OF HONSHU, JAPAN(228)

KAKJ     0.91 265 iPd    28 51.50   -0.5
                  S      29 00.80
CHJJ     1.87 263 iPd    29 05.30   -0.6
                  S      29 26.20
NIIJ     2.06 298 P      29 08.90    0.2
YAMJ     2.12 332 iPd    29 10.40    0.9
MAT      2.50 277 eP     29 14.00   -0.9
                  eS     29 42.00
OFUJ     2.80   6 eP     29 20.40    1.4
MTMJ     2.82 277 P      29 20.10    0.6
IIDJ     2.86 254 P      29 21.50    1.5
AOMJ     4.32 351 P      29 43.80    3.2X
TSRJ     4.37 262 P      29 42.30    0.8
HOOJ     6.27  14 eP     30 08.60    0.4
                  eS     31 15.00
KUSJ     7.29  20 eP     30 20.70   -1.7
                  eS     31 37.90
ASAJ     7.88   7 eP     30 31.70    0.9
XAN     26.49 275 eP     34 09.60   -2.2
YAK     26.75 348 iPc    34 12.80   -1.0
WMQ     41.09 298 eP     36 18.50    0.6
INK     55.09  27 eP     38 06.00   -0.3
WRA     56.32 188 P      38 15.00   -0.6
        0.3s      3.30nm          4.8mb
WR2     56.32 188 eP     38 15.50   -0.1
        0.4s      5.80nm          5.0mb
ASPA    60.04 188 eP     38 43.80    2.2
        0.7s      3.50nm          4.6mb
GBA     61.06 266 Pd     38 47.50   -1.3
        0.7s      3.60nm          4.6mb
FFC     74.38  33 eP     40 26.00   14.3X
        1.0s     12.00nm
NB2     74.83 337 P      40 14.00   -0.2
        0.8s      2.00nm          4.2mb
      S.D. = 1.2  on  21 of  23 obs.
-----------------------------------------
?  JUL  19, 1991  17h 30m 39.69± 3.97s
   40.736 N ±16.2km   30.214 E ±27.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 2.6 (ISK).

EYL      0.18 194 iPg    30 43.60   -0.1
                  eSg    30 48.60
HRT      0.42 282 iPg    30 48.10   -0.3
                  iSg    30 56.10
YLV      0.66 255 ePg    30 53.00    0.1
IZI      0.69 235 iPg    30 53.60    0.2
CTT      1.41 287 ePn    31 05.60    0.2
      S.D. = 0.3  on   5 of   5 obs.
-----------------------------------------
?  JUL  19, 1991  18h 23m 32.02± 0.90s
   17.964 N ±15.2km   97.168 W ±20.9km
   DEPTH =  33.0km  (normal)
 OAXACA, MEXICO                      ( 60)

OXX      0.97 154 iP     23 50.00    0.4
                  iS     24 03.50
IISM     1.04 349 iP     23 50.50    0.2
                  iS     24 04.00
IIT      1.51 314 (P)    23 50.50   -6.8X
PPM      1.77 309 iP     24 01.00   -0.2
PBJ      2.27 132 eP     24 07.50   -0.4
                  (S)    24 33.50
      S.D. = 0.7  on   4 of   5 obs.
-----------------------------------------
*  JUL  19, 1991  18h 42m 14.95± 1.13s
   23.608 N ± 8.0km  121.540 E ±12.2km
   DEPTH =  10.0km  (geophysicist)
   4.0mb (  1 obs.)
 TAIWAN                              (244)
      ML 4.2 (BJI).

TWF1     0.34 221 iPc    42 22.70    0.8
                  eS     42 26.70
TWD      0.47   6 iPc    42 25.80    1.3
                  eS     42 33.20
TWO      0.92 316 iPc    42 32.20   -0.4
                  eS     42 44.30
TWK      1.02 251 iPc    42 34.20   -0.1
TWC      1.04  16 iPd    42 35.80    1.3
                  eS     42 51.00
OZH      3.00 297 ePn    43 01.80   -1.6
SSE      7.47 358 eP     44 05.70   -0.8
      Z  12s      0.50um
                  S      45 30.80
NJ2      8.74 345 eP     44 23.00   -1.3
WHN      9.42 319 eP     44 40.50    6.8X
                  pP     44 42.50
                  S      46 19.50
QIZ     11.81 250 eP     45 07.00    0.5
TIY     16.08 333 eP     46 08.80    6.1X
      Z  12s      0.48um
HHC     19.13 336 eP     46 43.40    2.6X
CN2     20.40   8 eP     47 04.00    9.4X
      Z  12s      0.40um          4.0MszX
CHG     21.59 262 eP     47 09.30    2.2
WR2     45.06 163 eP     50 31.20   -1.8
        1.4s      2.70nm          4.0mb
INK     73.64  22 eP     53 53.00    3.0X
      S.D. = 1.5  on  11 of  16 obs.
-----------------------------------------
*  JUL  19, 1991  19h 49m 00.38± 1.88s
     0.485 S ± 9.2km  119.928 E ±14.4km
   DEPTH =  37.5 ± 18.5 km
   4.4mb (  5 obs.)
 MINAHASSA PENINSULA                 (265)

BKB2     3.13 256 iPc    49 47.70   -0.7
TSM      5.17 337 ePd    50 17.00   -0.4
KKM      7.47 330 eP     50 51.00    1.2
IPM     19.54 285 ePd    53 26.40   -1.6
WR2     23.96 145 iPc    54 12.30   -0.1
        0.9s     14.20nm          4.5mb
LOE     25.24 316 eP     54 25.00    0.2
ASPA    26.74 151 iPd    54 38.60    0.0
        0.9s      6.80nm          4.3mb
CHG     28.15 314 eP     54 55.90    4.4X
CD2     34.80 335 P      55 49.00   -0.8
XAN     35.86 344 eP     55 58.50   -0.3
TIA     36.60 356 eP     56 07.00    2.1
STK     37.34 149 eP     56 11.00   -0.2
        1.3s      3.30nm          4.1mb
LZH     39.34 339 eP     56 27.50   -0.7
        2.0s     28.00nm          4.7mb
      Z  25s      0.32um          4.1MszX
BJI     40.48 356 eP     56 37.60    0.4
MAT     40.56  23 eP     56 35.00   -3.0
LSA     40.67 320 Pc     56 38.60   -0.9
GTA     43.77 337 Pd     57 05.00    0.7
        1.0s     10.00nm          4.5mb
                  pP     57 10.80   19kmX
                  sP     57 14.00
CAN     43.98 145 eP     57 07.00    1.0
WMQ     52.67 331 eP     58 15.30    1.9
YAK     62.78   5 eP     59 22.20   -1.9
MAIO    66.82 310 eP     59 52.00    1.1
      S.D. = 1.4  on  20 of  21 obs.
-----------------------------------------
?  JUL  19, 1991  20h 06m 45.22± 2.40s
   15.191 N ±29.3km   94.982 W ±14.6km
   DEPTH =  33.0km  (normal)
 NEAR COAST OF OAXACA, MEXICO        ( 66)

PBJ      1.30 342 iP     07 06.00   -1.2
                  eS     07 30.00
OXX      2.52 319 iP     07 25.00    0.1
                  iS     07 55.50
TPX      2.64  96 eP     07 26.00   -0.5
SCX      2.73  55 iP     07 28.50    0.8
                  iS     08 06.00
IISM     4.42 329 (P)    08 01.00    9.3X
                  iS     08 45.00
PPM      5.20 318 eP     08 04.00    0.8
      S.D. = 1.2  on   5 of   6 obs.
-----------------------------------------
%  JUL  19, 1991  21h 15m 46.77± 0.74s
   17.143 N ±11.0km   95.615 W ± 8.9km
   DEPTH =  33.0km  (normal)
 OAXACA, MEXICO                      ( 60)

PBJ      0.73 164 iP     16 00.50   -0.1
                  iS     16 12.50
OXX      1.06 267 iP     16 05.50   -0.1
                  iS     16 21.50
IISM     2.48 318 iP     16 25.00   -0.8
                  iS     16 55.00
SCX      2.88  98 eP     16 31.50    0.1
IIT      3.17 306 (P)    16 36.00    0.2
PPM      3.44 304 iP     16 40.50    0.6
      S.D. = 0.6  on   6 of   6 obs.
-----------------------------------------
   JUL  19, 1991  21h 31m 50.12± 0.25s
   14.913 S ± 5.5km  167.288 E ± 8.2km
   DEPTH =  88.0km  (  8 depth phases)
   4.9mb ( 16 obs.)
 VANUATU ISLANDS                     (186)

BKM      2.89 162 iPc    32 36.00    1.1
PVC      2.98 161 iPc    32 36.80    0.7
                  iS     33 17.00
DZM      7.16 186 iPd    33 32.70   -1.5
                  iS     34 51.70
HNR      9.01 306 eP     34 02.00    2.6
                  eS     35 39.00
CTAO    20.70 253 iPc    36 25.00   -0.4
        1.0s     25.00nm          4.5mb
                  i      36 42.00   80km
RMQ     20.78 233 iPd    36 29.00    2.8
                  i      36 48.00   91km
RIV     23.83 215 eP     36 57.70    1.7
                  e      37 17.00   87km
CMS     25.63 226 iPd    37 13.00   -0.2
CNB     25.92 215 eP     37 15.00   -0.8
CAN     26.13 216 eP     37 19.00    1.3
STK     28.89 230 eP     37 42.50   -0.3
        0.5s      7.70nm          4.6mb
WR2     31.78 256 eP     38 06.10   -2.3
```

	0.6s	3.50nm			4.3mb	
ASPA	32.63	249	iPd	38 14.30	-1.5	
	0.7s	11.80nm			4.8mb	
			i	38 34.80	89km	
FORR	39.20	239	eP	39 10.50	-0.9	
CHJJ	57.31	333	P	41 30.60	-0.6	
IIDJ	57.33	332	P	41 30.70	-0.6	
MAT	58.07	333	iPc	41 35.30	-1.2	
	0.6s	19.33nm			5.4mb	
TSRJ	58.28	330	eP	41 37.60	-0.3	
MTMJ	58.29	332	P	41 37.40	-0.7	
NIIJ	58.31	334	P	41 37.70	-0.4	
YAMJ	58.67	335	eP	41 41.00	0.4	
OFUJ	58.81	337	P	41 41.40	-0.1	
KUSJ	61.33	341	eP	41 57.90	-0.8	
ASAJ	62.91	340	eP	42 10.20	1.0	
NJ2	65.82	316	Pc	42 28.00	-0.3	
QIZ	65.84	299	Pd	42 29.40	0.7	
WHN	68.08	312	Pd	42 42.50	-0.1	
TIA	69.49	318	eP	42 50.40	-0.8	
CN2	69.81	329	iPc	42 52.70	-0.3	
			sP	43 23.00		
GYA	71.83	305	P	43 04.80	-0.9	
BJI	72.42	321	eP	43 08.80	0.1	
	1.0s	20.00nm			4.9mb	
TIY	73.41	317	Pc	43 15.00	0.3	
	1.0s	30.00nm			5.1mb	
			pP	43 39.00	92km	
XAN	73.83	313	Pc	43 16.30	-0.8	
KMI	74.42	302	Pc	43 22.50	1.5	
	1.5s	83.00nm			5.4mb	
			pP	43 45.00	85km	
CHG	75.17	294	ePc	43 26.00	0.9	
	0.9s	14.08nm			4.8mb	
HHC	75.74	320	eP	43 29.00	1.0	
CD2	76.13	308	eP	43 30.40	0.0	
LZH	78.46	312	eP	43 44.50	1.2	
	1.5s	48.00nm			5.2mb	
			pP	44 08.50	91km	
			sP	44 17.00		
SVW	81.32	17	eP	44 01.80	3.9X	
MAW	81.72	202	eP	44 01.00	1.1	
	1.0s	10.00nm			4.6mb	
YAK	82.19	343	iPc	44 02.40	0.1	
TTA	82.69	16	eP	44 06.60	1.6	
	0.9s	9.10nm			4.7mb	
GTA	82.81	314	iPc	44 07.40	1.2	
	1.2s	30.00nm			5.1mb	
			pP	44 31.00	89km	
PMR	83.67	19	ePc	44 09.80	-0.1	
	1.3s	28.40nm			5.1mb	
LSA	85.67	302	Pc	44 22.00	0.8	
FBA	86.52	18	eP	44 24.10	0.0	
PNT	90.54	39	eP	44 46.00	2.6	
WMQ	92.87	315	P	44 55.00	0.6	
	1.5s	20.00nm			5.3mb	
ANMO	95.39	55	P	45 22.00	15.7X	
YKA	97.70	27	eP	45 15.30	-0.5	
	0.9s	2.50nm			4.7mb	
KAF	125.37	339	iPKP	50 41.00	-0.9	
	0.5s	2.80nm				
BUL	126.48	231	iPKPc	50 43.70	-1.8	
	0.8s	7.09nm				
NB2	130.80	345	PKP	50 50.20	-2.2	
	0.9s	2.60nm				
BRG	138.18	335	ePKP	51 10.20	3.6X	
CLL	138.23	336	ePKP	51 04.00	-2.7	
	1.1s	10.00nm				
ZST	138.70	330	ePKP	51 06.40	-1.2	
MOX	139.29	336	ePKP	51 04.00	-4.7X	
KHC	139.65	333	ePKP	50 50.00	-19.4X	
			e	51 03.00		
			e	51 09.00		
GRF	140.20	336	ePKP	51 04.40	-5.9X	
	Z 23s	0.10um			4.5MszX	
DMU	140.84	355	ePKP	51 05.60	-5.7X	
DCN	141.42	355	ePKP	51 07.30	-5.0X	
WLF	142.08	340	iPKPc	51 09.32	-4.3X	
CDF	142.75	338	ePKP	51 11.60	-3.4X	
	0.8s	6.70nm				
BSF	143.41	338	ePKP	51 13.70	-2.4	
	0.6s	5.40nm				
HAU	143.43	338	ePKP	51 14.00	-2.0	
	0.7s	12.15nm				
	Z 22s	0.10um			4.5Msz	
ARV	144.05	328	PKP	51 16.00	-1.2	
ORI	144.28	320	PKP	51 16.90	-0.8	
SFI	144.31	329	PKPc	51 17.40	-0.2	
PGD	144.40	329	PKP	51 17.70	-0.3	
CRE	144.47	329	PKP	51 17.00	-1.1	
ROI	144.49	319	PKP	51 17.30	-0.8	
ASS	144.50	327	PKP	51 17.00	-1.1	
CSI	144.55	320	PKP	51 16.80	-1.4	
TDS	144.58	320	PKP	51 17.60	-0.6	
AOU	144.60	326	PKP	51 17.80	-0.5	
MMN	144.66	320	PKP	51 16.60	-1.7	
MME	144.67	330	PKP	51 18.40	-0.2	
SGO	144.67	322	PKP	51 17.20	-1.1	
ORX	144.76	335	PKP	51 17.25	-1.3	
FLN	144.78	346	iPKPc	51 17.50	-0.8	
	0.7s	57.35nm				
	Z 21s	0.13um			4.7Msz	
MGR	144.78	321	PKP	51 17.10	-1.5	
SDI	144.80	325	PKP	51 17.60	-1.0	
BOB	144.81	332	PKPc	51 18.40	-0.2	
BDI	144.81	330	PKPc	51 17.00	-1.6	
LDF	144.85	345	iPKPc	51 17.70	-0.7	
	0.7s	44.10nm				
LOR	144.92	340	ePKP	51 18.40	-0.2	
	0.7s	51.70nm				
	Z 21s	0.13um			4.7Msz	
MNS	144.97	326	PKP	51 18.20	-0.7	
CZI	144.97	319	PKP	51 17.50	-1.4	
PII	145.10	330	PKP	51 17.70	-1.3	
LBF	145.12	340	ePKP	51 19.20	0.2	
SSF	145.21	340	ePKP	51 19.60	0.5	
GRR	145.22	346	iPKPc	51 19.40	0.4	
RMP	145.35	326	PKP	51 19.80	0.3	
LPL	145.37	336	ePKP	51 20.60	0.9	
LPG	145.37	336	ePKP	51 20.60	0.8	
	0.7s	68.90nm				
PCP	145.39	333	PKP	51 18.99	-0.6	
RSP	145.45	335	PKP	51 18.99	-0.7	
SMF	145.47	340	ePKP	51 20.10	0.6	
AVF	145.50	340	ePKP	51 20.10	0.5	
	1.0s	40.00nm				
LPF	145.59	346	iPKPc	51 20.60	0.9	
CKI	145.60	333	PKP	51 19.80	0.0	
SOI	145.68	318	PKPd	51 21.00	0.9	
BNI	145.77	335	PKP	51 21.50	1.2	
FIN	145.80	333	PKP	51 20.22	0.0	
RRL	145.84	335	PKP	51 20.63	0.1	
BGF	145.87	341	ePKP	51 21.40	1.2	
ROB	145.88	333	PKP	51 20.43	0.0	
PZZ	146.04	334	PKP	51 20.63	-0.1	
ENR	146.13	334	PKP	51 20.63	-0.2	
STV	146.16	334	PKP	51 20.43	-0.4	
IMI	146.18	333	PKP	51 21.35	0.4	
MAF	146.26	341	ePKP	51 22.70	1.8	
	0.9s	47.50nm				
TCF	146.31	341	ePKP	51 22.80	1.8	
SBF	146.42	333	iPKPc	51 22.60	1.3	
LSF	146.55	342	ePKP	51 23.20	1.9	
	0.9s	55.70nm				
MFF	146.70	344	iPKPc	51 23.90	2.4	
	0.7s	81.60nm				
PGF	146.72	330	ePKP	51 23.70	1.8	
	0.9s	49.15nm				
FRF	147.00	334	iPKPc	51 24.40	2.3	
	0.7s	28.65nm				
LRG	147.21	334	ePKP	51 25.30	2.9	
	Z 21s	0.08um			4.5Msz	
LMR	147.24	334	iPKPc	51 25.00	2.5	
	0.7s	18.75nm				
RJF	147.41	341	iPKPc	51 26.10	3.4X	
	0.7s	29.75nm				
	Z 22s	0.05um			4.3Msz	
CAF	147.57	340	iPKPc	51 26.50	3.5X	
	1.0s	26.00nm				
LFF	147.97	342	iPKPc	51 27.40	3.8X	
	0.8s	53.75nm				
LPO	148.07	341	iPKPc	51 27.80	4.0X	
	0.8s	45.65nm				
EPF	149.82	341	ePKP	51 33.20	6.6X	
	1.0s	20.00nm				
LKO	171.23	233	PKP	51 49.72	-0.1	
	0.7s	6.00nm				

S.D. = 1.2 on 111 of 126 obs.

? JUL 19, 1991 21h 33m 22.61± 2.38s
14.683 N ±30.5km 94.355 W ±14.1km
DEPTH = 33.0km (normal)
4.3mb (2 obs.)
OFF COAST OF CHIAPAS, MEXICO (68)

PBJ	2.02	330	iP	33 55.50	0.5	
			eS	34 16.50		
TPX	2.04	84	iP	33 55.71	0.4	
			iS	34 18.00		
SCX	2.63	39	iP	34 03.22	-0.4	
			iS	34 31.71		
OXX	3.30	317	iP	34 15.50	2.1	
			iS	34 54.54		
IISM	5.17	326	eP	34 40.50	0.8	
			iS	35 40.28		
LVVM	5.41	339	iP	34 43.09	0.0	
			iS	35 42.28		
ACX	5.73	293	(P)	34 53.00	5.4X	
IIT	5.74	319	(P)	34 53.49	5.5X	
PPM	5.98	317	eP	34 48.50	-3.1	
			iS	36 01.50		
IIA	6.06	318	(P)	35 00.45	8.2X	
ANMO	22.93	334	(P)	38 26.40	1.3	
YKA	49.86	348	eP	42 13.10	-1.3	
	0.6s	1.30nm			4.1mb	
INK	59.15	344	eP	43 21.50	-0.7	
NB2	84.63	28	P	45 54.40	0.4	
	0.9s	3.00nm			4.5mb	

S.D. = 1.6 on 11 of 14 obs.

% JUL 19, 1991 21h 37m 13.72± 0.96s
38.922 N ± 5.8km 16.278 E ±15.5km
DEPTH = 10.0km (geophysicist)
SOUTHERN ITALY (390)

CZI	0.32	339	P	37 20.30	0.0	
			eSg	37 25.70		
ROI	0.69	19	P	37 25.90	-1.4	
TDS	0.74	4	P	37 27.90	-0.3	
			eSg	37 39.60		
CSI	0.85	1	P	37 30.80	0.6	
			eSg	37 44.50		
SOI	0.87	192	P	37 30.30	-0.1	
			eSg	37 45.80		
MMN	0.99	347	P	37 32.20	-0.3	
ATN	0.99	220	P	37 32.70	0.1	
			eSg	37 49.50		
ORI	1.15	7	P	37 37.10	1.9	
			eSn	37 52.70		
MGR	1.34	335	P	37 37.60	-0.7	

S.D. = 1.1 on 9 of 9 obs.

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* JUL 19, 1991 21h 38m 33.63± 1.29s
13.637 N ±17.6km 86.995 W ±10.8km
DEPTH = 56.0 ± 15.1 km
4.4mb (13 obs.)
NICARAGUA (75)

TPX	5.26	285	(P)	39 51.00	-0.6	
SCX	6.26	300	(P)	40 29.00	23.5X	
PBJ	8.59	290	(P)	40 37.50	-0.5	
UPA	8.66	122	eP	40 39.50	0.6	
MEO	23.52	336	e(P)	43 40.50	1.0	
ALQ	27.55	324	eP	44 22.20	4.7X	
	1.0s	5.50nm			4.1mb	
ANMO	27.55	324	eP	44 21.70	4.2X	
	1.0s	6.75nm			4.2mb	
GOL	30.59	331	P	44 47.40	2.7	
LRM	38.62	331	eP	45 57.20	3.8X	
YKA	52.59	344	eP	47 43.00	-0.7	
	0.9s	2.80nm			4.3mb	
INK	62.21	342	eP	48 51.00	-0.4	
MBC	64.91	352	eP	49 08.50	-0.5	
EKA	75.41	36	P	50 12.00	-1.1	
	1.0s	4.50nm			4.4mb	
LPF	77.31	43	eP	50 23.90	0.1	
GRR	77.39	43	eP	50 24.30	0.0	
MFF	78.08	45	eP	50 28.40	0.3	
EPF	78.91	48	eP	50 33.10	0.3	
	0.9s	3.30nm			4.3mb	
LFF	78.92	46	eP	50 33.00	0.3	
	0.9s	6.55nm			4.6mb	
LPO	79.27	47	eP	50 34.90	0.2	
	0.9s	9.85nm			4.7mb	
TCF	79.74	45	eP	50 36.90	-0.3	
	0.9s	4.90nm			4.4mb	
MAF	79.99	45	eP	50 38.40	-0.1	
	0.8s	4.05nm			4.4mb	
BGF	80.13	44	eP	50 38.90	-0.4	
	0.9s	8.20nm			4.7mb	
AVF	80.44	44	eP	50 40.00	-0.8	
SSF	80.49	44	eP	50 40.60	-0.6	

19d 21h

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        0.9s      4.10nm          4.4mb
LOR     80.70  44 eP     50 41.90  -0.4
        0.9s      6.55nm          4.6mb
SMF     80.79  44 eP     50 42.00  -0.8
PGF     85.25  48 eP     51 05.80   0.0
        0.5s      4.35nm          4.8mb
WRA    140.01 255 PKP    57 58.00  -0.4
        0.8s      1.40nm
HYB    146.01  25 ePKP   58 08.50  -0.4
GBA    148.85  30 PKPd   58 15.70   2.3
        0.3s      1.40nm
      S.D. = 0.9  on  26 of  30 obs.
-----------------------------------------
   JUL  19, 1991  23h 07m 53.79± 0.45s
    0.948 N ± 8.2km  123.708 E ±10.2km
   DEPTH =  28.2km  (  2 depth phases)
   4.6mb (  5 obs.)  4.0Msz (  1 obs.)
 MINAHASSA PENINSULA                (265)

MNI      1.23  67 ePc    08 15.00  -0.2
                  eS     08 28.50
CGP      7.52   7 eP     09 44.00  -0.4
WR2     23.25 154 eP     12 59.40  -0.5
        0.6s     46.30nm          5.2mb
ASPA    26.40 159 eP     13 28.00  -1.9
        1.1s     13.80nm          4.5mb
OIS     26.44 145 iP     13 29.50  -0.8
                  i      13 41.00  44kmX
CHG     30.09 308 eP     14 04.60   1.3
CD2     35.29 329 P      14 49.00   0.5
STK     36.79 154 iPd    15 01.20   0.2
        1.1s      4.40nm          4.2mb
LZH     39.52 334 eP     15 24.50   0.3
        2.0s     32.00nm          4.7mb
      Z  20s      0.25um          4.0Msz
                  pP     15 32.50  27km
BWA     42.13 149 iPd    15 47.80   2.3
LSA     42.15 316 eP     15 45.20  -1.0
CAN     43.13 149 iPd    15 54.80   1.2
GTA     44.06 333 eP     16 02.00   0.8
        1.0s     10.00nm          4.6mb
                  pP     16 10.80  29km
                  sP     16 17.00
GUN     45.04 310 P      16 10.44   0.8
PKI     45.24 309 P      16 10.04  -1.1
KKN     45.45 309 P      16 12.14  -0.5
DMN     45.49 309 P      16 11.32  -1.7
GKN     46.05 309 P      16 17.94   0.6
WMO     53.36 328 P      17 13.40   0.3
      S.D. = 1.1  on  19 of  19 obs.
-----------------------------------------
?  JUL  19, 1991  23h 26m 11.11± 1.04s
   43.573 N ±11.4km   12.588 E ± 8.2km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                      (381)

ARV      0.27 106 P       26 17.00   0.2
                  eSg    26 23.40
CRE      0.47 277 P       26 21.20   0.6
                  eSg    26 30.30
ASS      0.50 174 P       26 21.10  -0.3
                  eSg    26 30.20
SFI      0.64 303 P       26 23.30  -0.6
                  eSg    26 32.70
      S.D. = 0.9  on   4 of   4 obs.
-----------------------------------------
%  JUL  19, 1991  23h 42m 44.55± 1.34s
   43.646 N ±13.5km   10.884 E ± 6.7km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                      (381)

PII      0.27 286 Pd      42 50.20  -0.1
                  eSg    42 54.70
BDI      0.47 334 P       42 54.20   0.2
                  eSg    43 00.40
MME      0.56 346 P       42 56.00  -0.2
                  eSg    43 03.50
SFI      0.75  68 P       42 59.20  -0.1
                  eSg    43 09.40
CRE      0.78  91 P       42 59.80   0.1
                  eSg    43 10.50
      S.D. = 0.2  on   5 of   5 obs.
-----------------------------------------
   JUL  20, 1991  00h 03m 35.94± 0.72s
   28.650 S ± 5.2km   69.652 W ± 8.0km
   DEPTH =  90.2 ±  6.9 km
   5.0mb ( 12 obs.)
```

```
 CHILE-ARGENTINA BORDER REGION    (127)
RTLL     2.86 159 iPc     04 22.90   2.5
ZON      3.01 164 eP      04 24.50   2.0
PEL      4.57 191 iP      04 43.20  -0.8
IHA      4.68 201 ePn     04 43.00  -2.6
                  iPg     04 52.00
                  e       05 24.40
                  i(S)    05 48.50
ANT      4.97 352 eP      04 49.00  -0.6
                  iS      05 55.20
CNCB    11.88   8 P       06 23.70  -0.6
                  i       06 28.20
                  i       09 31.00
LPB     12.15   7 P       06 41.00  13.4X
                  i       09 26.00
ARE     12.25 352 e(P)    06 32.00   3.2X
ZOBO    12.40   7 P       06 30.00  -1.1
      Z  20s      0.15um
                  i       06 34.00
                  S       09 17.00
                  LR      12 00.00
SIV     14.88  34 P       06 59.20  -3.7X
VAO     21.17  80 eP      08 15.30  -0.4
                  e       08 20.30
                  e       08 46.30
BAO     23.83  62 ePc     08 42.00   0.2
SNA     55.70 158 iPd     13 03.30  -1.4
        1.0s     40.00nm          5.4mb
NVL     60.45 158 Pc      13 27.00 -10.9X
SPA     61.51 180 iPd     13 45.20  -0.2
        1.0s     75.00nm          5.7mb
                  i       14 14.00
TUL     68.78 337 ePc     14 31.40  -0.8
        1.0s     25.20nm          5.1mb
                  e       14 58.10
FVM     69.08 343 ePd     14 33.30  -0.7
        0.8s     37.88nm          5.3mb
LIC     71.15  72 P       14 46.90  -0.2
TIC     71.38  71 P       14 48.40  -0.1
KIC     71.46  72 P       14 48.70  -0.2
ALQ     72.17 329 eP      14 53.00   0.0
        1.0s      8.00nm          4.5mb
                  e       15 21.00
ANMO    72.17 329 P       14 52.80  -0.2
LKO     72.51  68 P       14 54.56  -0.6
        0.7s     12.00nm          4.9mb
GLA     74.84 322 eP      15 18.00   9.6X
GOL     75.70 332 P       15 13.80   0.4
PV09    76.31 329 P       15 17.90   1.0
WIN     76.82 109 iPd     15 20.00   0.0
GSC     77.61 322 eP      15 25.00   1.1
MAW     77.71 163 iPd     15 24.20   0.4
        0.9s     33.00nm          5.2mb
SBB     77.71 321 eP      15 26.00   1.6
CLC     78.43 322 eP      15 29.00   0.7
ISA     78.79 321 eP      15 32.00   1.7
SYP     78.80 320 eP      15 32.00   1.5
RSSD    78.96 336 P       15 32.00   0.8
        1.2s     21.87nm          4.9mb
TNP     79.92 324 P       15 36.20  -0.3
BW06    80.00 331 P       15 36.80  -0.1
                  e       16 01.00
FRS     80.26 118 iPc     15 37.20  -1.1
        0.7s     23.97nm          5.2mb
SEK     82.71 118 iPc     15 52.70   1.3
        0.6s     13.33nm          5.0mb
ORV     83.27 322 P       15 54.40   0.7
LRM     83.68 331 eP      15 57.00   1.1
SES     86.82 335 eP      16 11.00  -0.1
BUL     87.45 111 iPd     16 13.70  -1.3
        0.7s      3.42nm          4.5mb
                  ipP     16 53.20 156kmX
KMZ     88.37 104 eP      16 20.00   0.5
PNT     89.47 330 eP      16 24.00   0.3
LSZ     89.47 107 iPd     16 26.20   1.5
YKA     97.68 341 eP      17 00.60  -0.4
        0.8s      2.00nm          4.7mb
ASPA   123.25 206 ePKP    22 23.10  -1.1
        0.8s     10.20nm
WR2    126.40 208 iPKPc   22 29.50  -0.9
        0.5s     20.60nm
WRA    126.42 208 PKP     22 29.00  -1.5
        0.6s     15.50nm
YAK    144.26 344 iPKPd   23 00.90  -1.3
GBA    145.99 109 PKPd    23 06.20  -0.3
        0.7s     13.10nm
```

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HYB    148.77 104 iPKPc 23 14.90   3.9X
      S.D. = 1.1  on  46 of  52 obs.
-----------------------------------------
   JUL  20, 1991  00h 37m 57.13± 0.45s
   40.363 N ± 4.8km   26.200 E ± 4.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                             (366)
      MD 3.4 (ISK), 3.1 (ATH).

EZN      0.54 170 iPg     38 07.70  -0.4
                  iSg     38 15.90
KGT      0.85  84 ePg     38 13.20  -0.3
                  eSg     38 25.20
RDO      0.93 327 ePb     38 13.00  -1.9
PRK      1.12 177 ePb     38 18.00   0.0
                  eSb     38 35.20
EDC      1.27  90 ePn     38 21.50   0.8
KDZ      1.42 336 iPd     38 23.00   0.1
DIM      1.76 344 ePg     38 30.00   2.2X
CTT      1.87  64 iPn     38 29.20  -0.2
DST      2.01 111 ePn     38 32.00   0.4
PLD      2.07 328 eP      38 38.00   5.6X
                  iSg     39 03.00
IZM      2.13 157 ePn     38 33.00  -0.2
MMB      2.24 304 ePc     38 35.00   0.2
YLV      2.43  84 ePn     38 38.00   0.4
IZI      2.50  90 ePn     38 38.00  -0.6
KKB      2.79 304 eP      38 43.00   0.3
VAY      2.92 290 ePn     38 51.70   7.3X
PVL      2.92 347 eP      38 44.00  -0.5
VTS      3.16 316 eP      38 50.00   1.9
      S.D. = 0.9  on  15 of  18 obs.
-----------------------------------------
&  JUL  20, 1991  01h 21m 17.59s
   59.451 N          151.180 W
   DEPTH =  38.8km
 KENAI PENINSULA, ALASKA            ( 14)
      <AEIC>. ML 3.3 (AEIC), 3.2
      (PMR).

CNPM     0.08 339 iPc     21 23.48  -0.6
                  iS      21 28.53
XLV      0.28 271 iPd     21 24.37  -1.2
                  iS      21 30.22
HOM      0.31 312 ePd     21 25.73  -0.2
                  iS      21 32.71
BRLK     0.35  25 iPc     21 25.82  -0.6
NNL      0.60 354 iPd     21 29.61   0.0
SYI      1.05 217 ePc     21 35.10  -0.9
                  eS      21 49.99
SEW      1.09  52 ePd     21 35.53  -1.1
IVS      1.11 301 ePc     21 36.15  -1.0
                  eS      21 51.07
AUE      1.13 266 iPc     21 36.60  -0.5
                  eS      21 51.38
AUI      1.16 265 iPc     21 37.01  -0.5
                  eS      21 52.05
AUH      1.16 267 iPc     21 37.33  -0.3
                  eS      21 52.97
SLKM     1.16  24 ePd     21 37.05  -0.6
RED      1.26 321 iPc     21 38.23  -0.9
RDT      1.28 332 iPc     21 38.46  -1.0
                  eS      21 55.39
RSO      1.29 323 iPc     21 38.82  -0.8
                  eS      21 55.82
REF      1.29 324 iPc     21 38.88  -0.8
NKA      1.30 359 iPd     21 40.76   1.3
RDW      1.32 322 iPc     21 39.25  -0.8
RDN      1.33 324 iPc     21 39.22  -0.9
CDD      1.37 249 iPc     21 39.72  -0.9
                  S       21 57.86
DFR      1.37 327 iPc     21 39.66  -1.0
NCT      1.42 322 iPc     21 40.52  -0.9
PDB      1.57 284 iPc     21 42.37  -1.0
                  eS      22 01.77
MCNL     1.64 262 ePc     21 43.84  -0.6
                  eS      22 04.49
SPU      1.79 346 ePc     21 45.95  -0.7
KDC      1.84 202 ePd     21 45.60  -1.7
CKL      1.84 342 ePc     21 46.62  -0.9
CGLM     1.91 348 eP      21 47.95  -0.4
BGL      1.92 342 eP      21 47.81  -0.7
PMS      1.97  23 eP      21 48.39  -0.9
NCG      2.02 347 eP      21 49.65  -0.3
SUA      2.03   6 eP      21 49.55  -0.6
PWA      2.30  16 eP      21 54.00   0.2
PLRM     2.38  24 ePd     21 53.62  -1.3
```

```
PMR      2.38  24 ePc    21 53.20  -1.7
KNK      2.39  33 eP     21 53.73  -1.4
SKT      2.54 356 eP     21 56.96  -0.4
GHO      2.58  25 eP     21 57.01  -1.0
SVW      2.77 309 ePc    21 59.50  -1.1
VZW      2.81  53 eP     21 59.17  -2.1
VLZ      2.94  53 eP     22 01.14  -1.8
CUT      3.00   8 eP     22 03.50  -0.2
KLU      3.31  50 eP     22 06.06  -2.3
TOA      3.62  41 eP     22 12.20  -0.5
TRF      4.04   6 eP     22 17.92  -0.8
KTH      4.12   2 eP     22 19.13  -0.6
RND      4.12  15 eP     22 18.16  -1.7
SDG      4.13  39 eP     22 18.34  -1.5
GLB      4.16  58 ePc    22 17.49  -2.9
TTA      4.20 328 eP     22 19.60  -1.3
MCK      4.43  13 eP     22 23.59  -0.5
PAX      4.48  36 ePc    22 23.49  -1.4
BALM     4.68  66 eP     22 25.13  -2.7
WRH      5.24  15 eP     22 33.59  -2.0
FBA      5.69  15 ePc    22 40.50  -1.4
        55 obs. associated
-----------------------------------------
&  JUL  20, 1991  02h 44m 57.47s
   60.263 N          151.061 W
   DEPTH =  61.3km
 KENAI PENINSULA, ALASKA                ( 14)
     <AEIC>.

NNL      0.25 208 iPd    45 08.22   0.7
SLKM     0.48  59 iPc    45 09.29  -0.2
NKA      0.49 350 iPc    45 10.93   1.4
BRLK     0.51 170 iPd    45 09.26  -0.5
                  eS     45 18.25
HOM      0.67 206 iPd    45 11.42  -0.1
                  eS     45 21.74
RDT      0.74 296 iPd    45 11.87  -0.6
                  eS     45 23.54
CNPM     0.74 187 iPd    45 11.84  -0.6
                  eS     45 23.02
SEW      0.82 101 iPc    45 12.46  -0.9
REF      0.85 286 iPc    45 13.22  -0.7
RED      0.87 281 iPc    45 13.31  -0.7
                  eS     45 25.87
RSO      0.86 284 iPc    45 13.43  -0.7
DFR      0.87 293 iPc    45 13.44  -0.7
XLV      0.88 203 iPd    45 12.98  -1.1
                  S      45 25.50
RDN      0.88 287 iPc    45 13.46  -0.8
RDW      0.90 285 ePc    45 13.77  -0.8
NCT      0.97 289 iPc    45 14.77  -0.7
                  S      45 28.86
SPU      1.04 333 iPd    45 15.90  -0.4
                  S      45 30.54
CKL      1.13 327 iPd    45 17.13  -0.4
CGLM     1.15 337 eP     45 17.10  -0.7
                  S      45 33.07
BGL      1.20 328 iPd    45 18.21  -0.3
                  eS     45 34.76
SUA      1.22   7 iPd    45 18.39  -0.3
PMS      1.23  36 iPc    45 18.61  -0.2
NCG      1.26 335 iPd    45 19.21  -0.2
AUE      1.48 233 eP     45 21.41  -0.8
                  S      45 40.34
AUH      1.50 234 ePc    45 22.31  -0.3
                  S      45 40.53
PWA      1.51  22 eP     45 23.00   0.4
AUI      1.52 233 eP     45 22.40  -0.3
                  eS     45 40.94
PLRM     1.63  34 iPc    45 23.26  -1.1
PMR      1.63  34 ePc    45 23.70  -0.6
PDB      1.64 254 iPc    45 23.30  -1.2
                  eS     45 43.80
KNK      1.72  47 iPc    45 24.58  -1.0
                  eS     45 45.32
SKT      1.74 353 iPd    45 25.41  -0.4
                  S      45 46.30
SYI      1.79 203 iPd    45 25.58  -1.0
                  S      45 46.65
GHO      1.84  34 ePc    45 26.46  -0.8
CDD      1.87 226 iPc    45 26.77  -1.0
MCNL     1.98 238 eP     45 27.75  -1.4
CUT      2.18  10 eP     45 31.59  -0.4
VZW      2.36  68 iPc    45 32.14  -2.4
                  eS     45 59.99
SVW      2.40 293 ePc    45 33.40  -1.7
VLZ      2.48  67 eP     45 33.93  -2.3
                  S      46 03.47
KDC      2.63 197 iPd    45 36.10  -2.1
KLU      2.80  62 iPc    45 38.81  -2.0
                  eS     46 10.82
HUR      2.81  13 ePd    45 41.26   0.4
TOA      3.00  50 eP     45 43.30  -0.4
TRF      3.22   6 eP     45 46.09  -0.8
TZL      3.26  54 eP     45 45.52  -1.8
KTH      3.30   1 eP     45 47.29  -0.6
RND      3.32  17 iPd    45 47.63  -0.6
SDG      3.49  47 eP     45 49.10  -1.4
TTA      3.57 321 ePd    45 50.30  -1.4
MCK      3.62  15 ePd    45 51.76  -0.6
GLB      3.74  68 iPc    45 51.05  -3.0
PAX      3.81  42 ePd    45 53.52  -1.5
CROM     3.95  79 eP     45 54.71  -2.4
BWN      3.99  10 iPd    45 56.69  -0.8
TGL      4.10  80 eP     45 56.52  -2.6
BALM     4.36  76 eP     45 59.35  -3.4
NEA      4.43  11 iPd    46 01.77  -1.8
WRH      4.44  17 iPd    46 02.16  -1.7
CCB      4.65  18 iPd    46 04.72  -2.0
MDM      4.89  14 ePd    46 08.10  -2.1
FBA      4.89  17 ePd    46 08.80  -1.4
IMA      5.95 350 ePd    46 23.90  -1.1
        63 obs. associated
-----------------------------------------
*  JUL  20, 1991  03h 18m 20.34± 1.10s
     6.166 S ±13.8km  149.184 E ± 9.7km
   DEPTH =  70.7 ± 15.9 km
   5.2mb (  3 obs.)
 NEW BRITAIN REGION                     (192)

LAT      2.22 257 eP     18 56.30   0.6
MDG      3.51 285 eP     19 13.80   0.2
RAB      3.56  57 iPc    19 14.00  -0.4
PMG      3.80 212 iPc    19 17.50  -0.2
                  eS     20 04.00
QIS     17.06 212 iPd    22 15.00  -0.8
WR2     19.88 225 eP     22 46.10  -2.5
         0.4s    71.30nm          5.3mb
                  eS     26 23.90
RMQ     20.21 181 iPc    22 54.70   2.6
         0.7s    96.00nm          5.2mb
QLP     20.85 193 eP     22 58.00  -0.5
ASPA    22.78 219 eP     23 18.00   0.2
         0.5s    36.20nm          5.1mb
                  e      23 34.30
                  eS     27 23.20
DZM     22.98 135 iPd    23 19.70  -0.2
CMS     25.39 187 eP     23 42.00  -0.7
KUPT    25.62 259 eP     23 46.00   1.0
STK     26.55 195 eP     23 54.70   1.3
         0.9s     4.90nm          4.0mb X
WARB    29.31 225 eP     24 18.00  -0.5
BAO    152.46 142 ePKPc 38 11.20   7.3X
      S.D. = 1.3  on  14 of  15 obs.
-----------------------------------------
   JUL  20, 1991  03h 36m 29.88± 0.36s
   45.375 N ± 3.5km   21.240 E ± 3.9km
   DEPTH =  10.0km  (geophysicist)
   3.8mb (  2 obs.)
 ROMANIA                                (358)
      ML 4.1 (ZAG), 3.7 (TTG).

SSR      0.62 145 iPd    36 40.00  -2.4
BEO      0.78 225 iPg    36 45.00  -0.1
                  iSg    36 56.80
DEV      1.27  66 iPc    36 52.50  -1.0
UZD      2.22 304 iPn    37 07.60   0.4
DRA      2.25 107 ePc    37 19.00  11.3X
PLE      2.44 214 iPnc   37 09.64  -0.8
                  iSn    37 38.75
CEI      2.46  20 eP     37 25.00  14.4X
BUD      2.61 325 iPn    37 13.90   1.2
CMP      2.68  91 ePd    37 20.00   6.1X
IVA      2.68 202 iPnc   37 14.15   0.2
                  iSn    37 48.52
MTUR     2.70  92 ePd    37 21.00   6.8X
                  e      59 39.00
PSZ      2.71 340 iPnd   37 15.30   1.0
BMR      2.78  33 ePd    37 29.00  13.8X
PVY      2.93 199 ePn    37 17.34  -0.1
                  iSn    37 55.55
BLY      2.94 259 ePn    37 18.00   0.5
NKY      3.03 213 iPnc   37 17.80  -1.0
                  iSn    37 52.87
VTS      3.12 152 iP     37 21.00   0.8
BRY      3.14 219 iPnc   37 19.54  -0.9
                  iSn    37 53.84
SRO      3.17 321 iPn    37 21.50   0.9
                  i      37 29.70
                  i(Sn)  38 10.40
TTG      3.27 207 iPnc   37 22.90   0.7
                  iSn    38 01.25
MLR      3.31  86 ePc    37 27.00   4.1X
SKO      3.40 177 iPn    37 25.00   0.9
                  iPb    37 31.30
                  iPg    37 36.00
                  iSn    38 06.60
                  iSb    38 16.00
                  iSg    38 21.70
HCY      3.53 215 iPnc   37 24.55  -1.3
                  iSn    38 04.99
BDV      3.55 210 iPnc   37 25.95  -0.2
                  iSn    38 06.92
PVL      3.65 125 eP     37 38.00  10.5X
ULC      3.70 204 iPnc   37 29.04   0.7
                  iSn    38 12.30
ZAG      3.72 279 iPn    37 27.20  -1.3
                  iSg    38 28.50
PTJ      3.74 280 iPnc   37 27.20  -1.8
                  eSn    38 22.90
KKB      3.75 158 iP     37 31.00   1.9
VRI      3.88  81 eP     37 28.00  -2.9
ZST      4.01 316 i(Pn)  37 32.10  -0.5
                  i      37 40.00
                  i      37 46.00
HVAR     4.08 239 iPnd   37 32.90  -0.8
PLD      4.12 141 eP     37 35.00   0.8
VAY      4.17 166 ePn    37 35.50   0.6
                  iSn    38 44.50
MMB      4.19 154 iPc    37 37.00   1.7
VBY      4.21 274 ePn    37 36.50   0.9
                  i      37 51.40
VKA      4.45 312 iPnd   37 38.60  -0.3
                  i      38 18.30
LJU      4.75 280 ePn    37 42.00  -1.2
                  e(Sn)  38 55.00
KRA      4.77 350 iPd    37 44.90   1.5
         0.7s    72.00nm
      Z  11s     0.90um
      E  12s     1.50um
                  i      37 46.80
                  i      37 52.10
                  i      38 42.50
CEY      4.80 277 eP     37 56.00  12.0X
                  eSg    39 06.00
KDZ      4.80 139 iPc    37 44.00   0.0
RIY      4.83 272 eP     37 54.30  10.0X
VOY      5.19 280 ePn    37 49.30  -0.2
                  e(Sg)  39 22.50
TRI      5.26 276 ePnd   37 50.40   0.0
                  iSn    39 17.00
KMR      5.58 301 e(Pn)  38 02.00   7.1X
                  i      39 11.30
BHG      6.23 295 eP     38 05.40   1.4
KSP      6.39 331 ePnc   38 06.90   0.5
AQU      6.42 245 P      38 11.00   4.2X
KHC      6.43 309 iPn    38 06.00  -0.9
                  e      38 54.00
                  e      39 38.50
PRU      6.46 318 Pnd    38 05.70  -1.6
      N  10s     0.40um
                  e      38 12.00
                  eSn    39 24.50
SDI      6.52 238 P      38 11.00   2.7
ASS      6.58 253 P      38 08.00  -1.1
KGT      6.63 136 eP     38 09.70  -0.1
CTT      6.74 126 eP     38 11.00  -0.2
CTI      6.75 279 P      38 09.00  -2.5
SFJ      6.85 261 P      38 20.00   7.2X
CRE      6.87 259 P      38 15.00   1.8
WTTA     6.91 289 e(P)   38 15.00   1.1
         0.7s    12.30nm          5.1mb X
                  i      38 22.80
                  i      38 32.90
                  i      38 47.90
BRG      7.35 321 e(P)   38 27.00   7.2X
                  i      40 10.00
SAL      7.53 276 P      38 22.00  -0.4
GRF      8.04 306 eP     38 29.50   0.1
      Z  13s     0.10um
                  e(S)   40 03.00
```

20d 03h

```
CLL      8.08 320 ePn    38 35.00    5.0X
                  e      40 20.00
                  e      41 04.00
MOX      8.33 313 ePn    38 32.20   -1.3
                  e      40 42.00
MEM     11.47 303 P      39 26.20    9.7X
NB2     16.77 343 P      40 28.20    2.1
         0.8s     4.50nm          3.7mb
YKA     66.83 339 eP     47 24.00    0.6
         1.0s     1.00nm          4.0mb
      S.D. = 1.2  on  51 of  66 obs.
-----------------------------------------
&  JUL  20, 1991  03h 56m 02.37s
   61.546 N          151.887 W
   DEPTH = 101.8km
   3.8mb (  1 obs.)
 SOUTHERN ALASKA                    (  2)
      <AEIC>.

NCG      0.19 222 iPc    56 16.56    1.1
CGLM     0.25 194 iPc    56 16.66    1.1
                  eS     56 27.93
BGL      0.37 221 eP     56 17.14   -0.8
SPU      0.37 193 iPc    56 17.05   -0.8
                  eS     56 28.99
CKL      0.41 212 iPc    56 17.40   -0.7
SKT      0.47  21 iPc    56 17.65   -0.7
                  eS     56 29.74
SUA      0.55  98 iPc    56 18.91   -0.2
                  eS     56 31.69
NKA      0.87 158 iPd    56 22.69    0.9
PWA      0.97  83 iPc    56 22.40   -0.4
RDT      1.01 195 iPd    56 22.39   -1.0
                  eS     56 38.55
DFR      1.03 202 iPd    56 22.93   -0.8
                  eS     56 38.50
NCT      1.11 208 iPd    56 24.02   -0.5
                  eS     56 41.22
RDN      1.12 203 iPd    56 23.78   -0.9
                  eS     56 41.07
REF      1.13 201 iPd    56 24.06   -0.8
                  eS     56 41.16
CUT      1.15  41 iPc    56 24.29   -0.6
RDW      1.16 203 iPd    56 24.38   -0.8
PMS      1.16 104 iPc    56 24.30   -0.8
RSO      1.17 202 iPd    56 24.41   -0.9
RED      1.21 201 iPd    56 24.75   -0.9
                  eS     56 42.47
PLRM     1.32  87 iPc    56 25.20   -1.7
                  S      56 43.73
PMR      1.32  87 iPc    56 25.70   -1.2
SLKM     1.32 141 iPd    56 25.67   -1.3
                  S      56 43.97
GHO      1.43  80 ePc    56 26.68   -1.7
                  eS     56 47.24
NNL      1.54 169 iPd    56 29.25   -0.3
KNK      1.65  93 iPc    56 29.33   -1.7
                  eS     56 51.89
HUR      1.78  35 eP     56 31.67   -1.0
                  S      56 53.60
SVW      1.85 258 ePc    56 32.50   -1.2
BRLK     1.85 164 eP     56 32.77   -0.9
SEW      1.88 139 eP     56 32.03   -1.8
                  S      56 54.62
HOM      1.90 176 eP     56 33.26   -0.9
TRF      2.05  21 iPd    56 34.89   -1.5
                  eS     57 00.28
CNPM     2.05 171 iPd    56 34.30   -1.9
                  S      56 59.97
KTH      2.06  12 iPd    56 34.88   -1.5
                  S      56 59.65
PDB      2.10 214 iPd    56 35.83   -1.0
                  eS     57 00.73
XLV      2.10 178 ePd    56 34.85   -2.0
AUE      2.31 199 eP     56 38.54   -1.1
AUH      2.32 200 eP     56 39.01   -0.8
RND      2.34  36 eP     56 38.67   -1.4
AUI      2.35 200 eP     56 38.86   -1.2
TTA      2.38 308 iPd    56 39.30   -1.3
MCK      2.58  31 eP     56 41.64   -1.7
VZW      2.62  98 iPc    56 41.17   -2.6
                  S      57 13.33
MCNL     2.66 208 iPd    56 43.13   -1.2
VLZ      2.71  96 ePc    56 42.12   -2.8
                  eS     57 14.60
BGM      2.72 219 eP     56 42.92   -2.3
CDD      2.77 199 ePd    56 43.96   -1.8
TOA      2.77  76 iPc    56 45.00   -0.8
BWN      2.86  22 ePd    56 45.10   -1.9
KLU      2.86  88 iPc    56 44.35   -2.7
SYI      2.96 185 eP     56 47.00   -1.3
TZL      3.11  78 eP     56 48.89   -1.5
SDG      3.15  69 ePd    56 49.44   -1.5
NEA      3.30  22 eP     56 50.21   -2.8
PAX      3.32  62 eP     56 51.69   -1.7
WRH      3.41  29 eP     56 51.97   -2.5
MID      3.47 125 eP     56 54.20   -1.1
CCB      3.62  29 eP     56 54.77   -2.6
MDM      3.80  24 iPd    56 57.18   -2.7
KDC      3.82 185 eP     56 56.90   -3.2
FBA      3.84  27 ePd    56 58.20   -2.2
GLB      3.87  88 eP     56 58.11   -2.8
CROM     4.31  97 eP     57 04.15   -2.9
TGL      4.46  96 eP     57 07.13   -1.9
IMA      4.61 351 ePd    57 08.90   -2.2
BALM     4.63  92 ePc    57 08.23   -3.1
INK     10.29  41 P      58 25.00   -3.4
         0.2s     0.80nm          4.3mb X
MBC     18.38  24 eP     00 08.50   -2.9
         1.0s     6.00nm          3.8mb
         67 obs. associated
-----------------------------------------
*  JUL  20, 1991  03h 57m 37.47± 1.23s
   36.982 N ± 9.5km    3.215 W ± 8.6km
   DEPTH =  10.0km  (geophysicist)
 STRAIT OF GIBRALTAR                (385)

EGUA     0.32 242 eP     57 44.70    0.6
                  eS     57 49.00
AFC      0.38 316 eP     57 45.40    0.1
                  eS     57 49.30
ECOG     0.41 316 eP     57 45.90    0.1
                  eS     57 51.00
MAL      0.99 256 ePg    57 55.50   -0.8
SFI     13.39  54 P      00 50.00    0.0
      S.D. = 0.7  on   5 of   5 obs.
-----------------------------------------
   JUL  20, 1991  03h 58m 47.41± 0.31s
   45.346 N ± 3.1km   21.108 E ± 3.4km
   DEPTH =  10.0km  (geophysicist)
   4.1mb (  2 obs.)
 ROMANIA                            (358)
      ML 4.0 (ZAG), 3.6 (TTG).

BEO      0.70 222 iPg    59 02.20    1.0
                  iSg    59 15.00
DEV      1.37  66 iPc    59 14.00    1.5
UZD      2.16 306 ePn    59 24.00    0.1
DRA      2.33 106 ePd    59 36.00    9.6X
PLE      2.36 212 iPnd   59 28.04    1.1
                  iSn    59 58.09
CEI      2.52  21 eP     59 44.00   15.0X
BUD      2.58 327 ePn    59 30.00    0.1
IVA      2.62 200 iPnc   59 31.51    0.9
                  iSn    00 03.51
PSZ      2.71 342 iPnd   59 31.10   -0.7
CMP      2.77  90 ePd    59 37.00    4.3X
BLY      2.84 259 ePn    59 40.80    7.1X
                  Sn     00 17.80
BMR      2.85  34 ePd    59 47.00   13.2X
PVY      2.87 197 iPnc   59 34.46    0.3
                  iSn    00 06.59
NKY      2.95 212 iPnd   59 34.46   -0.8
                  iSn    00 12.23
BRY      3.06 218 iPnc   59 35.84   -1.0
                  iSn    00 15.09
SRO      3.13 323 iPn    59 38.30    0.6
                  i      59 44.80
                  i(Sn)  00 25.10
VTS      3.14 150 iP     59 37.00   -1.0
TTG      3.21 205 iPnc   59 38.59   -0.2
                  iSn    00 15.74
SKO      3.38 176 ePn    59 41.00   -0.3
                  iPb    59 46.50
                  iPg    59 51.40
                  iSn    00 22.00
                  iSb    00 30.50
                  iSg    00 35.00
MLR      3.41  86 ePc    59 42.50    0.7
HCY      3.46 214 iPnd   59 42.38    0.0
                  iSn    00 23.41
BDV      3.48 209 iPnd   59 43.96    1.3
                  iSn    00 24.61
ZAG      3.63 279 ePn    59 44.50   -0.3
                  iSn    00 28.50
ULC      3.64 202 iPnd   59 46.09    1.1
                  iSn    00 25.61
PTJ      3.66 281 ePn    59 44.40   -0.9
                  eSn    00 39.80
PVL      3.71 124 eP     59 46.00    0.1
KKB      3.76 157 iP     59 46.00   -0.7
ISR      3.85  91 ePd    59 48.50    0.5
ZST      3.96 317 i(Pn)  59 48.70   -0.8
                  i      59 56.60
VRI      3.98  80 ePc    59 50.00    0.3
HVAR     3.99 239 iPnc   59 49.60   -0.3
VBY      4.12 274 ePn    00 04.50   12.7X
                  i      00 16.40
PLD      4.16 140 eP     59 51.00   -1.3
VAY      4.16 165 iPn    59 51.60   -0.7
                  iSn    00 59.40
VKA      4.40 313 e(Pn)  59 50.00   -5.7X
                  i      00 52.30
LJU      4.66 281 e(Pn)  00 01.00    1.5
                  e(Sg)  01 25.50
CEY      4.71 277 eP     00 07.40    7.2X
                  e      00 17.50
                  eSg    01 26.50
RIY      4.74 272 eP     00 15.80   15.2X
KRA      4.78 351 iPd    00 01.40    0.3
         0.5s    59.00nm
      Z  10s     0.80um
      E  10s     1.70um
                  i      00 03.50
                  i      00 10.50
                  i      00 54.60
VOY      5.10 280 ePn    00 05.90    0.1
                  e(Sg)  01 48.10
TRI      5.17 277 ePn    00 12.00    5.3X
                  iSn    01 37.50
KHC      6.37 309 iPn    00 22.50   -1.2
                  e      00 35.50
                  e      01 54.00
KSP      6.37 331 ePn    00 23.00   -0.6
PRU      6.42 319 Pn     00 22.00   -2.3
                  e      00 24.50
                  e      00 51.50
                  Sn     01 32.50
SDI      6.43 238 P      00 26.00    1.5
ASS      6.48 252 P      00 25.00   -0.3
CTI      6.66 279 P      00 26.00   -1.8
KGT      6.68 135 ePn    00 26.70   -1.2
CRE      6.77 259 P      00 32.00    2.7X
WTTA     6.84 290 eP     00 33.00    2.7X
                  i      01 08.20
                  i      02 40.60
BRG      7.32 322 e(P)   00 51.00   14.2X
                  i      02 11.00
                  i      03 06.00
GRF      7.98 307 eP     00 48.00    1.9
      Z  21s     0.05um
                  e(S)   02 42.00
CLL      8.04 321 ePn    00 53.00    6.0X
                  eSg    03 17.00
MOX      8.28 313 ePn    01 00.00    9.6X
                  e      02 46.50
LPG     10.10 276 eP     01 24.00    8.3X
         0.8s     4.05nm          4.9mb
LPL     10.11 276 eP     01 24.00    8.2X
N82     16.77 343 P      02 45.20    1.5
         0.7s     1.90nm          3.3mb
      S.D. = 1.0  on  40 of  57 obs.
-----------------------------------------
?  JUL  20, 1991  05h 09m 24.02± 0.93s
   45.374 N ± 8.4km   20.964 E ± 9.8km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                         (383)

BEO      0.66 213 iPg    09 37.00   -0.1
                  iSg    09 47.50
SSR      0.75 133 iPc    09 39.00    0.3
DEV      1.45  69 iPd    09 50.00   -0.3
PSZ      2.65 344 eP     10 07.80    0.2
SKO      3.42 174 ePn    10 28.00    9.6X
MLR      3.51  86 eP     10 28.00    8.2X
PTJ      3.55 280 eP     10 37.00   16.6X
      S.D. = 0.5  on   4 of   7 obs.
-----------------------------------------
%  JUL  20, 1991  05h 13m 36.23± 3.42s
   12.012 N ± 9.2km   62.036 W ±22.7km
   DEPTH = 135.3 ± 34.3 km
```

WINDWARD ISLANDS (95)
MD 3.3 (TRN).

GRW	0.40	68	iP	13 55.80	0.1
TCE	1.34	168	eP	14 02.91	-0.3
			eS	14 23.01	
PIG	1.44	126	eP	14 04.77	0.4
			eS	14 27.84	
TPR	1.48	124	eP	14 04.75	-0.1
			eS	14 26.60	
TRN	1.49	155	eP	14 04.84	-0.1
			eS	14 25.79	
SVV	1.52	32	eP	14 05.30	0.0
BOT	1.54	123	eP	14 05.13	-0.3
TPP	1.78	161	eP	14 08.62	0.4
			eS	14 33.81	
TBH	1.79	148	eP	14 08.45	0.0

S.D. = 0.3 on 9 of 9 obs.

? JUL 20, 1991 07h 12m 23.93± 6.32s
61.638 N ±23.3km 4.196 E ±40.3km
DEPTH = 10.0km (geophysicist)
SOUTHERN NORWAY (535)
MD 1.2 (BER).

FRO	0.35	70	eP	12 31.04	-0.1
			eS	12 36.75	
FOO	0.41	95	iP	12 32.72	0.5
			iS	12 39.18	
SUE	0.64	155	iP	12 37.00	0.2
			iS	12 46.40	
HYA	1.07	115	eP	12 43.40	-0.6
			eS	12 58.60	

S.D. = 0.8 on 4 of 4 obs.

% JUL 20, 1991 07h 50m 41.78± 0.43s
39.866 N ± 3.5km 28.767 E ± 3.9km
DEPTH = 5.0km (geophysicist)
TURKEY (366)
MD 2.9 (ISK).

DST	0.28	202	iPg	50 47.20	-0.3
			iSg	50 51.20	
IZI	0.72	49	iPg	50 56.00	-0.1
			eSg	51 06.30	
YLV	0.84	33	ePg	50 58.00	-0.5
			eSg	51 09.80	
EDC	0.84	305	ePg	50 58.00	-0.5
			eSg	51 10.00	
GBZT	1.06	29	ePg	51 01.90	-0.3
			eSg	51 14.90	
HRT	1.18	36	ePn	51 03.70	-0.5
ISK	1.22	10	ePn	51 05.00	0.1
GPA	1.26	70	ePn	51 06.00	0.4
KGT	1.26	298	ePn	51 06.30	0.6
EYL	1.27	56	iPn	51 06.30	0.4
CTT	1.31	349	iPn	51 07.00	0.6
ALT	1.32	127	ePn	51 07.00	0.3
KHL	1.65	159	ePn	51 11.50	-0.1

S.D. = 0.5 on 13 of 13 obs.

• JUL 20, 1991 07h 51m 06.41± 0.45s
18.010 S ±15.1km 167.486 E ±12.3km
DEPTH = 33.0km (normal)
4.7mb (4 obs.)
VANUATU ISLANDS (186)

BKM	0.80	65	iPd	51 20.10	-1.1
			iS	51 31.30	
PVC	0.83	71	iPd	51 21.00	-0.7
			iS	51 33.00	
DZM	4.16	193	iPc	52 09.10	-0.1
			iS	52 57.00	
RMO	19.26	241	iPc	55 34.00	2.8X
	1.0s	59.00nm		4.8mb	
CTAO	20.18	261	iPc	55 39.00	-2.1
	1.0s	25.00nm		4.5mb	
QLP	23.11	244	iPd	56 10.10	-0.5
BWA	23.59	222	eP	56 14.50	-0.7
			e	56 36.60	
CMS	23.75	232	eP	56 17.00	0.3
CAN	23.81	220	eP	56 18.80	1.5
			i	56 41.80	
STK	27.15	235	iPc	56 47.80	-0.9
	0.6s	3.60nm		4.2mb	
ASPA	31.84	254	iPd	57 26.60	-4.1X
	0.6s	15.10nm		5.1mb	
	Z 22s	0.30um		3.9MszX	
CDF	145.66	336	ePKP	10 40.40	-2.7
	0.8s	39.90nm			
BSF	146.33	336	ePKP	10 42.10	-2.2
	1.0s	8.00nm			
HAU	146.35	337	ePKP	10 42.50	-1.7
	1.0s	12.00nm			
LOR	147.87	339	ePKP	10 46.60	0.0
	0.6s	4.50nm			
LBF	148.07	338	ePKP	10 47.40	0.4
	0.8s	9.40nm			
SSF	148.17	339	ePKP	10 47.60	0.5
	0.9s	13.10nm			
LPL	148.23	334	ePKP	10 48.40	0.8
	0.6s	3.60nm			
LPG	148.24	334	ePKP	10 48.50	0.8
	0.8s	9.40nm			
SMF	148.41	338	ePKP	10 48.10	0.6
	1.0s	8.00nm			
AVF	148.45	339	ePKP	10 48.10	0.6
	0.6s	5.40nm			
LPF	148.62	345	ePKP	10 48.60	0.8
	0.6s	5.40nm			
BGF	148.83	339	ePKP	10 49.20	1.0
	0.7s	7.70nm			
PGF	149.46	328	ePKP	10 51.00	1.6
	0.9s	27.85nm			
MFF	149.71	343	ePKP	10 51.50	2.0
	0.6s	5.40nm			
RJF	150.37	340	ePKP	10 52.10	1.6
	1.0s	10.00nm			
LFF	150.95	340	ePKP	10 54.60	3.2X
	0.6s	6.30nm			
LPO	151.03	340	ePKP	10 54.80	3.3X
	0.6s	4.50nm			

S.D. = 1.4 on 24 of 28 obs.

% JUL 20, 1991 07h 52m 07.91± 2.10s
44.167 N ±14.6km 10.623 E ±14.8km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)

MME	0.06	64	P	52 10.30	-0.1
			eSg	52 12.40	
BDI	0.11	190	P	52 11.00	0.2
			eSg	52 15.20	
PII	0.45	189	P	52 16.90	-0.2
			eSg	52 23.90	
SFI	0.92	105	P	52 25.70	0.2
			eSg	52 41.10	
CRE	1.10	119	P	52 28.50	-0.2
			eSn	52 45.00	

S.D. = 0.3 on 5 of 5 obs.

& JUL 20, 1991 08h 05m 06.45s
60.836 N 151.125 W
DEPTH = 60.5km
KENAI PENINSULA, ALASKA (14)
<AEIC>.

NKA	0.11	211	eP	05 16.69	2.7
SLKM	0.55	126	eP	05 18.45	-0.7
			eS	05 28.45	
SPU	0.57	308	eP	05 19.27	-0.1
			eS	05 29.21	
CGLM	0.64	318	eP	05 19.54	-0.7
			eS	05 30.11	
SUA	0.66	16	eP	05 19.95	-0.5
			eS	05 30.66	
RDT	0.68	248	eP	05 20.10	-0.6
			eS	05 31.01	
BGL	0.75	305	eP	05 20.66	-0.9
			S	05 32.85	
NNL	0.80	186	iP	05 22.39	0.3
DFR	0.81	253	eP	05 21.67	-0.6
			eS	05 33.49	
REF	0.85	247	eP	05 22.10	-0.8
			eS	05 35.18	
PMS	0.86	61	eP	05 22.05	-0.9
			S	05 34.63	
RDN	0.87	249	eP	05 21.97	-1.1
			eS	05 35.21	
RSO	0.89	246	eP	05 22.65	-0.7
			eS	05 36.11	
RDW	0.90	248	eP	05 23.13	-0.4
RED	0.91	243	iP	05 22.91	-0.7
			eS	05 36.05	
NCT	0.93	254	iP	05 23.39	-0.4
			eS	05 36.53	
PWA	1.02	36	eP	05 24.26	-0.6
BRLK	1.08	174	eP	05 24.99	-0.8
			eS	05 39.71	
SEW	1.11	131	eP	05 24.72	-1.3
SKT	1.16	351	iP	05 26.39	-0.5
			eS	05 42.12	
HOM	1.21	193	eP	05 27.10	-0.4
			S	05 43.43	
PLRM	1.23	51	eP	05 26.80	-0.9
			S	05 42.44	
CNPM	1.32	182	iP	05 28.01	-1.0
			S	05 44.96	
GHO	1.42	48	iP	05 29.57	-0.9
XLV	1.42	192	eP	05 29.12	-1.2
KNK	1.42	65	eP	05 29.17	-1.2
CUT	1.63	14	eP	05 32.67	-0.5
PDB	1.85	237	eP	05 34.91	-1.5
			eS	05 57.48	
AUE	1.86	218	iP	05 36.08	-0.4
AUH	1.88	219	eP	05 36.51	-0.3
SVW	2.21	279	eP	05 39.12	-2.3
VZW	2.24	82	eP	05 39.52	-2.3
CDD	2.30	215	eP	05 41.98	-0.6
SYI	2.32	197	eP	05 41.80	-1.1
VLZ	2.36	81	eP	05 40.95	-2.4
KLU	2.61	73	eP	05 44.60	-2.4
TRF	2.65	8	eP	05 47.37	-0.4
TOA	2.70	60	eP	05 46.64	-1.6
KTH	2.73	2	eP	05 48.33	-0.4
GLB	3.60	77	eP	05 57.84	-3.2

40 obs. associated

? JUL 20, 1991 08h 38m 00.67± 8.31s
43.106 N ±37.6km 128.133 W ±54.9km
DEPTH = 10.0km (geophysicist)
OFF COAST OF OREGON (30)

KMOR	4.18	51	P	39 05.04	-0.9
			S	39 48.18	
HBO	4.29	78	P	39 08.02	0.3
NLO	4.48	47	P	39 10.07	-0.1
GT2	4.69	62	P	39 13.54	0.3
PGO	4.71	58	P	39 13.86	0.4
BMW	4.85	44	P	39 14.78	-0.7
RVW	4.90	50	P	39 15.92	-0.3
VLMM	5.00	59	P	39 17.56	-0.1
LVP	5.05	52	P	39 18.25	0.0
TDH	5.06	62	P	39 18.80	0.3
VBEM	5.10	65	P	39 19.17	0.0
MTMW	5.14	53	P	39 19.58	0.0
FL2	5.15	51	P	39 19.88	0.1
VLL	5.20	61	P	39 20.70	0.3
CZM	5.21	48	P	39 20.17	-0.3
ERK	5.22	50	P	39 20.76	0.0
HSR	5.24	52	P	39 21.68	0.6
JLK	5.24	52	P	39 20.92	-0.1
CPW	5.24	41	P	39 20.40	-0.6
STD	5.25	51	P	39 21.05	-0.1
ESD	5.27	52	P	39 22.51	1.0
VFP	5.28	63	P	39 21.96	0.3
CDFW	5.28	53	P	39 21.43	-0.2
SOSW	5.30	52	P	39 22.26	0.4
APM	5.32	58	P	39 22.50	0.4
TDL	5.32	50	P	39 22.16	0.0
KOSW	5.40	50	P	39 23.28	0.1
GULW	5.46	57	P	39 24.38	0.3
LMW	5.47	47	P	39 24.04	-0.2
ASR	5.57	55	P	39 25.59	-0.2
VIPM	5.62	73	P	39 25.74	-0.7
MEW	5.64	42	P	39 27.39	0.8
LON	5.78	49	P	39 28.66	0.1
GLK	5.79	51	P	39 28.81	0.1
REMR	5.81	48	P	39 29.11	0.1
WPW	5.90	50	P	39 30.22	0.0
GL2	5.95	59	P	39 30.53	-0.5
FMW	5.97	48	P	39 31.24	-0.1
GSM	6.07	45	P	39 32.71	0.0
RMW	6.23	44	Pd	39 34.91	-0.1
JBO	6.40	66	P	39 36.89	-0.5
MXC	6.56	55	P	39 39.16	-0.5
EBG	6.57	52	P	39 39.77	0.0
JCW	6.69	38	P	39 41.85	0.5
RPW	7.07	39	P	39 46.79	0.1
CRF	7.23	56	P	39 48.68	-0.2

S.D. = 0.4 on 46 of 46 obs.

```
-----------------------------------------
%  JUL  20, 1991  09h 37m 48.77± 1.00s
   39.088 N ± 8.3km   27.879 E ±10.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 2.8 (ISK).

DST      0.78  48 ePg   38 04.00   0.0
IZM      0.84 215 ePg   38 05.00   0.0
                  eSg   38 16.90
EDC      1.26 359 ePn   38 12.00  -0.1
EZN      1.41 302 ePn   38 14.50   0.1
KGT      1.43 342 iPn   38 14.80   0.0
     S.D. = 0.1  on   5 of   5 obs.
-----------------------------------------
%  JUL  20, 1991  10h 02m 57.50± 2.39s
   40.174 N ±17.9km   29.667 E ± 9.5km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 2.7 (ISK).

IZI      0.22 318 ePg   03 01.30  -1.0
                  eSg   03 04.80
YLV      0.45 330 ePn   03 07.30   0.6
EYL      0.54  44 ePn   03 08.30  -0.2
HRT      0.65   0 ePn   03 10.80   0.3
KGT      1.83 279 ePn   03 29.50   0.3
     S.D. = 0.9  on   5 of   5 obs.
-----------------------------------------
   JUL  20, 1991  11h 45m 34.19± 0.96s
    0.430 S ± 6.4km  122.937 E ± 8.4km
   DEPTH = 117.1 ± 10.6 km
   4.7mb (  9 obs.)
 MINAHASSA PENINSULA                 (265)

MKS      5.88 216 iPc   47 01.00   0.6
                  iS    48 05.40
BKB2     6.10 262 iPc   47 00.50  -2.8
AAI      6.17 122 ePc   47 02.50  -1.8
TSM      6.90 313 ePc   47 11.50  -2.8
        0.5s   295.90nm          6.0mb X
                  e     48 31.00
CGP      9.00  11 eP    47 42.00  -0.7
MAP     10.73   6 eP    48 08.00   2.1
PPR     10.97 338 iPc   48 12.00   3.0
MTN     14.77 147 iPc   48 58.00  -0.4
CVP     18.05 357 ePd   49 39.20   0.1
        0.9s     1.23nm          3.2mb X
KGM     19.76 277 ePc   49 57.90   0.4
WR2     22.39 151 iPd   50 23.90   0.1
        0.8s    23.80nm          4.6mb
IPM     22.45 283 ePc   50 26.10   1.8
        0.8s    81.80nm          5.1mb
QIZ     23.22 327 P     50 33.00   1.2
SNG     23.51 289 eP    50 35.90   1.3
ASPA    25.43 156 iPd   50 53.30   0.5
        0.8s    20.40nm          4.7mb
QIS     25.80 142 eP    50 56.00  -0.2
WARB    25.85 172 eP    50 58.00   1.4
LOE     27.39 311 eP    51 10.60  -0.1
CHG     30.35 310 ePc   51 37.50   0.4
        1.4s    67.44nm          5.2mb
WHN     31.87 346 eP    51 49.00  -1.2
STK     35.91 152 eP    52 25.60   0.7
        1.0s     2.10nm          4.0mb
                  i     58 29.50
CD2     36.10 331 iPc   52 26.30  -0.3
XAN     36.73 340 Pc    52 31.80   0.0
TIY     39.17 347 eP    52 52.00  -0.3
MAT     39.42  20 eP    52 52.00  -2.3
        1.0s    15.00nm          4.7mb
SHL     39.60 313 eP    52 54.50  -1.6
LZH     40.44 336 eP    53 02.00  -0.8
        2.0s    39.00nm          4.8mb
CAN     42.36 148 eP    53 21.00   2.6
LSA     42.62 317 eP    53 19.70  -1.4
GTA     44.95 334 eP    53 39.60   0.3
        0.6s    10.00nm          4.8mb
GBA     47.18 289 P     53 57.00  -0.1
        0.6s     3.30nm          4.3mb
BUL     93.92 250 iPc   58 38.00  -2.5
        0.8s   135.07nm          6.4mb X
UPP     98.03 331 iP    59 06.10   8.0X
                  i     59 23.50
KIC    127.47 278 PKP   04 28.10   0.1
TIC    127.72 278 PKP   04 28.60   0.1
LIC    127.76 277 PKP   04 28.70   0.2
        Z  20s     0.66um          5.3Msz
LKO    127.99 282 PKP   04 28.74  -0.2
        0.4s     3.50nm
     S.D. = 1.5  on  36 of  37 obs.
-----------------------------------------
   JUL  20, 1991  11h 48m 47.18± 0.15s
   54.565 N ± 3.1km  161.654 W ± 2.2km
   DEPTH =  32.5km  ( 22 depth phases)
   5.8mb (111 obs.)  5.5Msz ( 32 obs.)
 ALASKA PENINSULA                    ( 12)
      ML 5.8 (PMR). Ms 5.6 (BRK).
      Mo=1.0*10**18 Nm (PPT). Felt
      (IV) at Cold Bay, King Cove and
      Sand Point.
      CENTROID, MOMENT TENSOR      (HRV)
      Data Used: GDSN
      L.P.B.: 24S, 64C
      Centroid Location:
      Origin Time        11:48:51.5 0.2
      Lat 54.59N 0.03 Lon 161.03W 0.04
      Dep  28.9 2.4 Half-duration  3.2
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 4.44 0.15  Mtt=-2.55 0.20
        Mff=-1.89 0.17  Mrt= 5.16 0.55
        Mrf= 4.28 0.46  Mtf=-2.92 0.19
       Principal Axes:
        T  Val=  7.89  Plg=63  Azm=322
        N        0.71       1       230
        P       -8.60      27       139
      Best Double Couple:Mo=8.2*10**17
       NP1:Strike=226 Dip=18 Slip=  86
       NP2:         50     72       91

SDN      1.02  40 iPd   49 07.20   1.9
KDC      6.03  54 eP    50 15.00  -1.4
MCNL     6.12  38 eP    50 18.25   0.5
CDD      6.21  42 eP    50 19.00   0.1
SYI      6.53  48 eP    50 22.66  -0.7
AUI      6.56  40 eP    50 25.38   1.5
                  S     51 38.32
AUH      6.58  40 eP    50 26.96   2.8
AUE      6.60  40 eP    50 25.19   0.8
PDB      6.62  35 eP    50 25.24   0.6
SVW      7.31  24 eP    50 33.50  -0.8
        0.5s   557.85nm          6.8mb X
XLV      7.31  44 eP    50 35.88   1.6
HOM      7.46  43 eP    50 37.21   0.8
CNPM     7.55  45 eP    50 36.87  -0.8
RED      7.57  36 eP    50 39.36   1.3
                  eS    52 04.15
RDW      7.60  35 eP    50 40.17   1.6
RSO      7.61  35 eP    50 40.28   1.6
NCT      7.62  34 eP    50 40.07   1.3
RDN      7.64  35 eP    50 40.64   1.6
REF      7.64  35 eP    50 40.69   1.5
DFR      7.72  35 eP    50 41.67   1.5
RDT      7.80  36 eP    50 42.25   0.9
BRLK     7.83  44 eP    50 41.90   0.2
NNL      7.84  41 eP    50 43.09   1.3
CKL      8.29  33 eP    50 49.92   1.8
BGL      8.32  33 eP    50 50.13   1.5
NKA      8.33  38 eP    50 51.50   2.9
SPU      8.37  34 eP    50 50.09   0.9
CGLM     8.48  33 eP    50 51.48   0.8
NCG      8.50  32 eP    50 52.63   1.5
SLKM     8.55  41 eP    50 51.05  -0.6
SEW      8.62  45 eP    50 51.25  -1.2
TTA      8.88  17 eP    50 56.00  -0.3
SUA      9.01  35 eP    50 57.00  -1.1
SKT      9.14  32 iP    51 00.85   1.1
PMS      9.28  39 eP    50 59.90  -1.8
ADK      9.41 260 eP    51 02.60  -0.8
        0.7s   395.35nm          6.7mb
                  e     52 57.00
                  e     53 08.20
PWA      9.44  36 eP    51 02.68  -1.1
PLRM     9.66  38 eP    51 05.16  -1.7
PMR      9.66  38 eP    51 04.00  -2.9
        0.6s   305.42nm          6.7mb
                  i     53 01.40
MID      9.66  54 eP    51 04.54  -2.4
KNK      9.79  40 eP    51 06.92  -1.9
CUT      9.85  33 eP    51 08.79  -0.7
GHO      9.85  38 eP    51 07.65  -2.0
ANM     10.21 351 eP    51 15.83   1.5
VZW     10.34  45 eP    51 13.86  -2.4
VLZ     10.47  45 eP    51 15.65  -2.3
HUR     10.47  32 eP    51 16.52  -1.5
KTH     10.55  27 eP    51 20.08   0.9
TRF     10.65  29 eP    51 20.06  -0.5
KLU     10.83  44 eP    51 20.62  -2.4
RND     11.03  31 eP    51 23.59  -2.1
TOA     11.08  41 eP    51 24.07  -2.3
MCK     11.25  30 eP    51 28.93   0.3
TZL     11.33  42 eP    51 29.16  -0.6
BWN     11.44  28 eP    51 31.52   0.4
SDG     11.57  40 eP    51 30.60  -2.3
CROM    11.67  50 eP    51 32.34  -2.1
GLB     11.68  47 eP    51 31.74  -2.7
TGL     11.81  51 eP    51 34.26  -2.0
PAX     11.86  38 eP    51 34.00  -3.0
NEA     11.86  27 eP    51 35.44  -1.4
THY     12.04  36 eP    51 38.43  -0.9
WRH     12.05  29 eP    51 35.80  -3.6X
BALM    12.14  50 eP    51 38.62  -2.1
IMA     12.18  16 eP    51 41.50   0.2
CCB     12.27  29 eP    51 38.23  -4.0X
MDM     12.39  27 eP    51 40.53  -3.4X
FBA     12.46  28 eP    51 40.50  -4.4X
CTGM    12.56  51 eP    51 42.64  -3.8X
TMW     12.98  40 eP    51 50.99  -0.8
BCPM    13.05  57 eP    51 50.85  -1.8
PNL     13.10  58 eP    51 50.11  -3.2X
HON     13.31  59 eP    51 54.72  -1.4
FYU     14.42  27 eP    52 08.75  -1.9
SMY     14.48 273 eP    52 11.52   0.1
SIT     14.97  70 eP    52 15.70  -2.2
BRW     16.94   5 eP    52 43.70   0.8
INK     18.99  33 P     53 04.30  -3.8X
        1.0s     9.00nm          4.0mb X
MCW     24.57  88 eP    54 06.50   1.4
GMW     25.16  90 eP    54 12.00   1.3
YKA     25.28  53 eP    54 11.30  -0.3
        0.8s    43.00nm          5.1mb
RMW     25.77  89 eP    54 17.20   0.7
PNT     26.14  84 eP    54 20.00   0.2
        1.0s    77.00nm          5.3mb
LON     26.14  91 eP    54 20.70   0.8
MBC     26.82  21 ePc   54 25.40  -0.4
        1.0s   100.00nm          5.4mb
NEW     28.09  84 eP    54 36.80  -0.8
        1.0s    40.00nm          5.1mb
      Z  20s    13.00um          5.5Msz
                   PP   55 22.00
                  (PcP) 57 50.50
                   ScP  01 27.20
FHC     28.47 103 e(P)  54 39.70  -1.3
LBFM    29.30 100 eP    54 50.00   1.2
WDC     29.43 102 e(P)  54 47.80  -1.9
LTCM    29.92 102 P     54 56.60   2.6
MIN     30.12 102 ePc   54 58.00   2.0
SES     30.56  77 eP    54 58.00  -1.6
ORV     30.71 103 eP    55 02.60   1.6
BRK     31.45 106 eP    55 14.20   6.7X
BKS     31.46 106 ePc   55 14.20   6.6X
        1.4s    62.00nm          5.3mb
LRM     32.09  85 eP    55 13.00  -0.4
ARN     32.22 106 P     55 15.00   0.6
CMB     32.39 104 eP    55 18.20   2.4
PRS     33.04 107 eP    55 23.10   1.6
FRI     33.50 104 e(P)  55 26.60   1.2
PRI     33.57 106 eP    55 30.60   4.4X
FFC     33.62  65 iPc   55 25.70  -0.6
        0.7s    15.00nm          5.0mb
PTI     33.87  89 eP    55 29.80   1.0
TNP     34.16 100 e(P)  55 31.70   0.3
        1.5s   303.03nm          6.0mb
                  epP  55 41.30  33km
                  (PcP) 58 06.00
                  ScP  01 48.50
BCH     34.59 107 eP    55 36.00   1.0
CWC     34.82 103 eP    55 39.00   2.0
                   e   55 47.00  27km
ISA     35.15 105 eP    55 43.00   3.3X
YAK     35.22 310 iPc+  55 39.60  -0.3
                  ePP  56 54.00
                  ePPP 57 13.00
                  iPcP 58 08.00
                  eS   01 05.00
                  eScP 01 44.00
                  iPcS 01 54.00
                  eSSS 03 36.00
                  iScS 05 57.00
DUG     35.30  94 eP    55 41.20   0.2
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        1.4s    150.13nm          5.7mb
CLC     35.53 103 eP     55 44.00   1.0
BW06    35.56  87 eP     55 43.70   0.3
        1.8s     71.18nm          5.3mb
                  ipP    55 52.80  31km
SBB     36.22 105 eP     55 47.00  -1.8
KUSJ    36.26 274 iP+    55 46.10  -2.8
GSC     36.35 103 eP     55 51.00   1.1
PAS     36.42 106 eP     55 56.00   5.6X
                  epP    56 03.00  24km
                  ePP    56 55.00
                  eS     01 31.00
                  ePcS   01 56.00
                  eLg    04 16.00
                  eLR    05 45.00
                  eScS   05 53.00
ASAJ    36.84 277 eP     55 53.10  -0.7
PEC     37.18 105 eP     55 58.50   1.7
                  epP    56 08.30  33km
                  PcP    58 14.80
                  ScP    01 59.20
HOOJ    37.53 274 eP     55 57.70  -1.8
TPC     37.65 104 eP     56 03.00   2.3
PLM     37.74 106 eP     56 03.00   1.3
RSSD    37.95  82 eP     56 02.10  -1.3
        0.7s     25.95nm          5.2mb
      Z  22s     10.58um          5.6Msz
                  PcP    58 16.80
BAR     38.35 106 eP     56 13.00   6.4X
PV09    38.56  92 eP     56 08.50  -0.1
                  epP    56 19.50  39km
                  e      02 04.80
MRRJ    38.78 276 eP     56 09.60  -0.5
GLA     39.11 104 eP     56 15.50   2.5
GOL     39.95  88 eP     56 19.70  -0.5
        0.8s     17.86nm          4.9mb
      Z  20s     11.00um          5.7Msz
                  epP    56 29.80  35km
                  PcP    58 24.30
GLD     40.00  88 eP     56 20.90   0.4
        1.4s    113.51nm          5.4mb
      Z  20s     12.00um          5.7Msz
                  epP    56 31.50  37km
                  (PcP)  58 25.30
AOMJ    40.37 274 eP     56 24.00   0.7
OFUJ    40.59 272 eP     56 24.50  -0.6
YAMJ    42.14 272 iPd    56 38.20   0.4
ANMO    42.56  94 ePc    56 42.80   1.3
        1.3s     58.65nm          5.2mb
                  e      56 51.30  28km
                  iPcP   58 33.20
                  ScP    02 19.50
ALQ     42.56  94 ePc    56 42.30   0.8
        1.5s     73.61nm          5.2mb
      Z  18s      2.15um          5.1Msz
                  epP    56 51.80  32km
                  ePcP   58 34.00
                  e      02 20.00
NIIJ    43.38 272 P      56 47.70  -0.2
KAKJ    43.41 270 P      56 47.70  -0.4
CHJJ    44.20 270 P      56 54.60   0.0
MAT     44.32 272 iPc    56 54.60  -1.0
        1.7s    838.46nm          6.3mb
      Z  20s      4.96um          5.4Msz
                  eS     03 22.00
FRB     44.43  39 eP     56 55.00  -1.1
        0.7s    102.00nm          5.8mb
MTMJ    44.53 272 P      56 58.10   0.8
IIDJ    45.23 271 P      57 02.80  -0.1
TSRJ    46.31 272 P      57 11.20  -0.2
KBS     46.72   2 iPc    57 15.50   1.4
CN2     46.79 288 Pc     57 13.60  -1.4
        1.0s    100.00nm          5.8mb
      N  19s      2.50um
      E  19s      5.30um
                  epP    57 23.00  31km
                  PP     59 00.00
DAG     46.83  11 iPd    57 20.40   5.4X
        0.9s    126.05nm          5.9mb
      Z  21s      8.32um          5.7Msz
      N  21s      4.44um
MEO     47.25  88 iPd    57 20.20   1.3
WKYJ    47.47 271 P      57 20.80   0.2
YONJ    48.02 274 iP+    57 24.90   0.0
RLO     48.35  84 ePc    57 25.20  -2.2
TKSJ    48.54 272 P      57 29.30   0.5
SHK     48.94 274 ePc    57 31.80  -0.2
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SNY     49.12 287 iPc    57 32.00  -1.2
        1.2s    300.00nm          6.2mb
      Z  22s      9.30um          5.7Msz
      N  17s      5.40um
      E  17s      3.50um
                  pP     57 44.00  43kmX
                  PcP    58 54.00
                  PP     59 25.00
                  PcS    02 52.00
                  S      04 32.00
                  sS     04 52.00
FVM     49.74  79 eP     57 35.40  -2.7
        1.1s     73.17nm          5.6mb
                  S      04 42.50
SHNJ    50.14 275 P      57 41.00  -0.2
POW     50.58  81 eP     57 41.30  -3.2X
OLY     50.87  82 eP     57 43.80  -2.9
ELC     50.91  78 eP     57 44.60  -2.3
KUMJ    51.45 274 P      57 50.90  -0.2
IRK     51.96 309 ePc    57 52.30  -2.5
                  e      57 56.20  13kmX
                  e      58 05.20
                  e      58 26.00
                  ePcP   59 06.20
                  ePP    59 53.00
                  ePPP   01 04.00
                  eS     05 16.00
DL2     52.20 286 Pc     57 56.00  -0.7
      Z  26s      4.30um          5.4MszX
      N  20s      3.70um
      E  20s      3.60um
                  eS     05 16.00
KAGJ    52.39 272 P      57 58.00  -0.3
BJI     54.42 291 eP     58 11.50  -1.6
        1.4s     80.00nm          5.6mb
      Z  21s      6.60um          5.7Msz
      N  16s      2.90um
                  pP     58 26.00  54kmX
BNH     55.54  60 eP     58 19.50  -1.7
NAV     55.64  72 eP     58 20.00  -2.1
KEV     55.83 356 iP     58 21.00  -1.9
        1.0s    120.00nm          5.9mb
                  e      02 48.00
                  e      06 04.00
8LA     55.92  72 eP     58 21.20  -2.9
        0.6s     27.27nm          5.5mb
TRO     56.11 360 eP     58 24.00  -0.9
HHC     56.33 294 Pc     58 24.50  -2.6
        6.0s    900.00nm          6.0mb X
      Z  24s      7.00um          5.7MszX
      N  18s      2.30um
      E  17s      3.60um
                  sP     58 39.00
                  PcP    59 21.00
                  S      06 14.00
                  sS     06 31.00
                  ScS    08 10.00
LVNJ    56.41  65 eP     58 26.00  -1.5
CVL     56.45  70 eP     58 26.20  -1.6
TBR     56.46  65 ePc    58 25.60  -2.3
TIA     56.63 287 eP     58 28.10  -1.1
        5.0s   1200.00nm          6.2mb X
      Z  22s      4.40um          5.5Msz
      N  15s      1.80um
      E  13s      1.10um
                  pP     58 36.00  26km
                  sP     58 43.00
                  PcP    59 23.00
                  eS     06 17.00
NA2     56.73  70 eP     58 27.80  -2.0
CBN     56.88  69 eP     58 31.00   0.1
AKU     56.91  17 iPc    58 31.80   1.1
        1.0s     68.00nm          5.6mb
PRM     57.09  76 eP     58 29.90  -2.6
8TO     57.32 295 iPc    58 33.00  -1.2
        5.0s   1200.00nm          6.2mb X
      Z  15s      4.50um          5.7MszX
      N  13s      1.80um
      E  15s      3.60um
                  pP     58 43.00  33km
                  ePP    00 41.50
                  S      06 27.00
JSC     57.57  75 ePc    58 33.10  -2.7
                  epP    58 44.30  38km
LHS     57.68  75 P      58 34.00  -2.6
SSE     58.08 280 iPc    58 38.00  -1.3
        1.4s    380.00nm          6.3mb
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      Z  20s      2.30um          5.3Msz
      N  20s      1.90um
      E  20s      2.00um
                  ePcS   03 28.00
                  S      06 40.00
TIY     58.12 291 iPc    58 39.00  -0.7
        1.4s    160.00nm          5.9mb
      Z  24s      6.10um          5.6MszX
      N  18s      4.30um
                  sP     58 52.00
                  S      06 41.50
PJG     58.21 247 eP     58 38.20  -2.2
SOD     58.23 356 iP     58 38.80  -1.2
GUA     58.23 247 eP     58 38.30  -2.3
        0.6s    165.33nm          6 3mb
NJ2     58.70 282 Pc     58 42.00  -1.7
        0.8s    100.00nm          6.0mb
      Z  20s      1.50um          5.1Msz
      N  15s      1.50um
      E  15s      1.30um
                  S      06 37.00
WHN     62.38 284 Pc     59 08.00  -0.8
        1.2s    100.00nm          5.8mb
      Z  18s      1.80um          5.3Msz
      N  18s      2.70um
      E  17s      1.40um
                  pP     59 16.70  28km
                  sP     59 24.00
                  S      07 34.00
XAN     62.76 291 Pc     59 10.00  -1.3
        1.4s    200.00nm          6.1mb
      N  15s      3.80um
                  pP     59 20.00  32km
                  PP     01 27.60
                  S      07 35.00
GTA     63.44 301 iPc    59 14.00  -1.9
        1.2s    240.00nm          6.2mb
      Z  20s     10.10um          6.0Msz
      E  16s      5.80um
                  pP     59 25.00  36km
                  sP     59 28.60
                  PcP    59 49.00
                  ScP    03 53.00
                  S      07 44.00
                  ScS    09 05.60
KAF     63.50 356 iP     59 14.30  -1.4
        0.6s    118.50nm          6.2mb
LZH     63.92 296 iPc    59 18.00  -1.1
        2.0s    490.00nm          6.3mb
                  pP     59 27.00  29km
                  sP     59 32.00
QZH     64.22 277 P      59 20.00  -0.9
      Z  35s      2.12um          5.1MszX
                  sP     59 36.00
                  S      07 57.00
NB2     64.60   4 P      59 21.80  -1.3
        1.0s    105.60nm          5.9mb
ASK     64.82   7 eP     59 24.00  -0.4
BER     64.93   7 eP     59 24.50  -0.6
WMQ     65.65 312 eP     59 29.00  -1.1
        1.0s    100.00nm          5.9mb
      Z  20s      7.60um          5.9Msz
      N  16s      3.00um
      E  16s      3.00um
                  pP     59 34.50  18kmX
                  sP     59 40.00
                  S      08 12.00
                  sS     08 27.00
KONO    65.92   5 iP     59 31.20  -0.2
ELO     67.87  13 ePc    59 43.20  -0.7
        1.1s    122.00nm          5.9mb
EDU     67.88  13 ePc    59 43.20  -0.7
        0.9s    164.00nm          6.1mb
CD2     67.95 292 iPc    59 44.40  -0.4
        1.2s    300.00nm          6.3mb
      Z  16s      3.60um          5.7MszX
      N  14s      1.80um
                  sP     00 00.00
                  sS     08 54.00
CVP     67.97 270 ePd    59 45.00   0.0
        1.2s     88.00nm          5.7mb
EAB     68.06  13 ePc    59 44.70  -0.3
EBH     68.11  13 ePc    59 45.00  -0.4
EAU     68.51  13 ePc    59 47.70  -0.2
        0.9s    164.00nm          6.1mb
EBL     68.64  13 ePc    59 48.10  -0.5
        1.0s    151.00nm          6.0mb
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20d 11h

Sta	Comp	Dist / Period	Az / Amplitude	Phase	Time	Res / Mag
GZH		68.67	280	eP	59 48.00	-1.3
	Z	32s	2.30um			5.2MszX
				S	08 50.00	
HKC		68.81	279	eP	59 51.70	1.6
EKA		69 05	13	P	59 50.00	-1.2
		0.8s	105.00nm			6.0mb
ESK		69.06	13	ePc	59 51.50	0.3
		1.0s	160.00nm			6.0mb
OBN		69.67	349	iPc	59 53.40	-1.5
	Z	24s	5.00um			5.7MszX
	N	24s	4.20um			
	E	24s	0.90um			
				iPcP	00 08.00	
				epP	00 14.00	78kmX
				esP	00 22.00	
				ePP	02 24.00	
				iPPP	04 12.00	
				eS	08 56.00	
				iScS	09 44.00	
				i	10 12.00	
				iSS	13 40.00	
				iSSS	17 06.00	
BAG		69.72	270	eP	59 54.00	-2.0
GYA		69.82	287	iPc	59 54.20	-2.3
		1.4s	260.00nm			6.1mb
	Z	30s	2.10um			5.2MszX
	N	20s	3.10um			
	E	20s	5.80um			
				sP	00 10.00	
				PP	02 31.00	
				S	09 02.00	
				sS	09 17.00	
DMU		69.90	16	eP	59 56.20	-0.2
		0.9s	182.00nm			6.1mb
COP		70.01	4	iPc	59 57.70	0.8
		1.1s	202.53nm			6.1mb
DCN		70.38	16	eP	59 59.20	-0.1
DLF		70.55	16	eP	59 59.90	-0.4
BSD		70.65	2	iPc	00 01.50	0.6
		0.9s	48.00nm			5.6mb
ETA		71.18	15	eP	00 04.00	-0.1
VAL		71.23	18	P	00 06.00	1.6
				S	09 16.00	
PLP		71.34	263	ePd	00 07.80	2.2
ECB		71.41	16	eP	00 05.30	-0.2
		1.0s	190.00nm			6.1mb
ECP		71.65	16	eP	00 06.80	-0.1
		1.0s	346.00nm			6.3mb
PGP		71.81	268	iPd	00 09.00	0.6
		1.0s	69.00nm			5.6mb
WIT		72.55	7	eP	00 13.50	1.2
MAP		72.59	263	eP	00 15.00	2.0
KMI		73.04	289	Pc	00 15.50	-0.4
		2.5s	300.00nm			5.8mb
	Z	28s	4.40um			5.6MszX
	N	17s	1.10um			
	E	15s	1.50um			
				pP	00 31.00	56kmX
				sP	00 36.50	
				S	09 40.00	
DBN		73.14	8	eP	00 17.00	1.3
	Z	20s	1.10um			5.1Msz
				eS	09 44.00	
BRN		73.30	3	ePc	00 17.50	0.9
WTS		73.38	7	iPc	00 17.40	0.3
		0.9s	156.00nm			6.0mb
CGP		73.69	262	eP	00 20.00	0.6
QIZ		73.87	280	eP	00 20.00	-0.5
		0.8s	20.00nm			5.2mb
	N	19s	13.00um			
	E	20s	15.00um			
				eS	09 47.00	
JAY		73.98	241	ePc	00 22.20	1.0
KSH		74.15	317	P	00 23.50	1.5
	E	16s	7.50um			
				PP	03 06.00	
DAV		74.29	260	eP	00 22.00	-0.9
UCC		74.36	9	P+	00 23.00	0.2
				e	00 39.00	58kmX
CLL		74.40	3	iPc	00 22.60	-0.5
	Z	18s	1.00um			5.2Msz
				eS	09 53.00	
BNS		74.43	7	iPc	00 20.50	-2.7
	Z	18s	1.50um			5.3Msz
ENN		74.53	8	ePc	00 23.50	-0.3
		1.0s	210.00nm			6.1mb
SNF		74.63	9	iPc	00 24.36	-0.1
MEM		74.69	8	iPc	00 24.73	0.0
BRG		74.87	3	iPc	00 25.40	-0.4
		1.1s	140.00nm			5.9mb
KSP		74.95	1	iPc	00 26.00	-0.3
		1.0s	117.00nm			5.8mb
				ic	00 27.30	4kmX
KOE		75.00	7	iPc	00 26.90	0.4
MOX		75.01	4	iPc	00 26.90	0.3
		1.2s	200.00nm			6.0mb
	Z	19s	1.50um			5.3Msz
	N	24s	0.70um			
	E	20s	1.10um			
				eS	10 05.00	
TNS		75.25	7	iPc	00 28.00	-0.1
HOF		75.35	4	iPc	00 28.60	0.0
		0.8s	34.00nm			5.4mb
LSA		75.47	301	iPc	00 28.50	-1.7
	Z	18s	5.76um			5.9Msz
				S	10 02.00	
WLF		75.64	8	iPc	00 30.74	0.6
KRA		75.74	359	iPc	00 30.50	-0.3
		1.0s	136.00nm			5.9mb
	Z	22s	2.20um			5.4Msz
	E	22s	3.00um			
				i	00 31.70	4kmX
				e	00 39.50	
				eS	10 30.00	
PRU		75.77	3	iPc	00 30.80	-0.1
		1.0s	58.00nm			5.5mb
	Z	20s	2.30um			5.5Msz
	N	21s	2.20um			
	E	20s	1.50um			
				e	02 27.70	551kmX
				S	10 11.00	
FLN		75.83	13	iPc	00 30.80	-0.5
		1.0s	92.00nm			5.7mb
	Z	20s	3.00um			5.6Msz
GRF		75.94	5	iPc	00 32.60	0.6
		1.3s	214.00nm			6.0mb
	Z	22s	10.00um			6.1Msz
				e(pP)	00 48.00	55kmX
				eS	10 13.00	
LDF		76.04	13	iPc	00 32.00	-0.5
		1.1s	112.35nm			5.8mb
PPR		76.08	267	ePd	00 36.50	3.3X
		1.0s	11.00nm			4.8mb
GRR		76.15	13	iPc	00 32.80	-0.3
		0.9s	67.15nm			5.6mb
GWF		76.44	7	P	00 34.83	0.1
LPF		76.48	13	iPc	00 34.80	-0.1
		0.9s	81.90nm			5.7mb
WET		76.56	4	iPc	00 36.00	0.6
		1.5s	219.00nm			6.0mb
KHC		76.60	3	iPc	00 36.10	0.4
		1.2s	135.00nm			5.8mb
	Z	20s	1.90um			5.4Msz
	N	22s	0.90um			
	E	22s	1.40um			
				e	00 46.50	33km
				e	01 04.50	
				S	10 20.00	
SPC		76.61	359	iP	00 36.80	0.9
PMG		76.81	232	eP	00 37.00	-0.2
STR		76.84	7	P	00 37.40	0.5
CDF		76.97	8	P	00 38.00	0.2
VITF		77.06	8	P	00 38.41	0.2
ECH		77.16	8	P	00 38.93	0.1
LIBD		77.26	7	P	00 39.43	0.2
HAU		77.30	8	iPc	00 39.50	-0.1
		0.8s	80.60nm			5.8mb
	Z	20s	2.00um			5.4Msz
FUR		77.47	5	iPc	00 41.00	0.5
		0.9s	89.00nm			5.8mb
BSF		77.51	8	P	00 40.71	-0.1
MOF		77.52	8	P	00 40.89	0.0
VKA		77.53	1	iPc	00 41.00	0.2
		3.0s	425.00nm			6.0mb
FEL		77.56	7	P	00 40.89	-0.2
ZST		77.61	1	iP	00 41.70	0.5
				i	00 53.60	40km
KMR		77.69	3	iP+	00 42.30	0.6
GRC		77.69	11	P	00 41.82	0.1
SLE		77.70	7	ePd	00 42.00	0.2
LOR		77.80	10	iPc	00 42.20	-0.1
		0.9s	64.00nm			5.7mb
	Z	20s	2.75um			5.6Msz
BBS		77.93	7	P	00 43.18	0.1
SSF		77.97	10	iPc	00 43.20	0.0
		0.9s	62.25nm			5.6mb
ZLA		77.98	7	ePd	00 43.80	0.5
BHG		77.98	4	iPc	00 43.90	0.6
		1.0s	102.00nm			5.8mb
LOMF		77.99	8	P	00 43.61	0.2
MFF		78.00	13	iPc	00 43.80	0.4
		0.9s	103.20nm			5.9mb
SRO		78.00	0	iP	00 44.30	1.0
BMR		78.04	356	ePd	00 50.00	6.4X
LBF		78.10	10	iPc	00 43.70	-0.3
		1.0s	44.00nm			5.4mb
AVF		78.22	10	iPc	00 44.40	-0.2
WTTA		78.39	5	iPc	00 46.10	0.4
		0.9s	116.00nm			5.9mb
				i	00 51.00	16kmX
BGF		78.40	11	eP	00 45.20	-0.4
		1.0s	75.00nm			5.7mb
SMF		78.42	10	iPc	00 45.40	-0.3
SHL		78.47	298	iP	00 45.30	-1.3
LSF		78.55	12	iPc	00 46.40	0.0
TCF		78.59	11	iPc	00 46.40	-0.3
LLS		78.63	7	ePd	00 48.00	0.9
KBA		78.64	3	iPc	00 48.10	1.0
		1.0s	188.00nm			6.1mb
				i	00 59.40	37km
MAF		78.70	11	eP	00 47.10	-0.2
		0.8s	29.55nm			5.3mb
OGA		78.75	5	iPc	00 48.40	0.6
		1.0s	67.00nm			5.6mb
OSS		78.88	6	ePd	00 49.50	1.0
AGO		78.93	11	P	00 48.79	0.3
VDL		79.04	6	ePd	00 50.30	0.9
PLDF		79.06	10	P	00 49.76	0.4
FVI		79.11	4	P	00 50.20	0.8
PYM		79.21	11	P	00 50.28	0.1
DIX		79.30	8	ePd	00 51.90	1.0
MMK		79.37	7	ePd	00 52.70	1.5
TMA		79.38	7	ePd	00 52.10	0.9
RJF		79.48	12	eP	00 51.20	-0.3
		1.0s	44.00nm			5.4mb
	Z	20s	3.50um			5.7Msz
COLF		79.52	10	P	00 51.95	0.2
GUN		79.54	304	Pc	00 52.74	0.2
RSL		79.63	8	P	00 53.08	0.6
VRI		79.69	354	ePc	00 51.50	-1.1
VVI		79.70	4	P	00 53.30	0.6
VOY		79.71	3	ePc	00 52.40	-0.4
LJU		79.71	3	eP	00 52.50	-0.2
LFF		79.74	13	iPc	00 53.00	0.1
		0.9s	72.05nm			5.7mb
LBL		79.75	11	P	00 53.28	0.2
LOE		79.77	285	eP	00 52.80	-0.6
ORX		79.79	7	P	00 54.38	1.1
LPL		79.81	8	eP	00 54.40	0.9
		1.0s	46.00nm			5.4mb
LPG		79.83	8	eP	00 54.60	0.9
		1.0s	42.00nm			5.4mb
SSB		79.84	10	P	00 53.82	0.3
DEV		79.85	357	ePc	00 56.00	2.5
PTJ		79.89	2	eP	00 53.90	0.1
CAF		79.92	12	eP	00 53.90	0.0
		1.0s	44.00nm			5.4mb
KKN		79.93	304	P	00 54.82	0.3
ZAG		79.97	2	iPc	00 54.60	0.5
SAL		79.98	6	P	00 55.22	1.1
		0.1s	186.50nm			7.0mb X
CEY		80.02	3	ePc	00 54.20	-0.2
TRI		80.03	3	P	00 54.40	0.0
TIM		80.04	358	iPc	00 55.00	0.5
PKI		80.05	304	P	00 55.20	-0.1
LPO		80.05	12	eP	00 54.40	-0.2
		1.0s	48.00nm			5.5mb
GKN		80.06	305	Pc	00 55.10	0.0
MLR		80.11	355	ePd	00 55.00	0.0
DMN		80.16	304	Pc	00 56.00	0.2
		0.6s	169.00nm			6.2mb
CHG		80.19	288	ePc	00 55.20	-0.5
		1.0s	43.75nm			5.4mb
				eS	11 16.00	
RSP		80.21	8	P	00 56.43	0.9
BNI		80.26	8	Pc	00 57.50	1.6
VBY		80.27	2	iPc	00 56.00	0.3
CFR		80.28	353	eP	00 55.00	-0.7
CMP		80.38	355	ePc	00 56.00	-0.3
RRL		80.40	8	P	00 58.48	1.7
RIY		80.41	3	iPc	00 56.00	-0.4

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MTUR   80.42 355 eP    00 58.00   1.4
BOB    80.75   6 Pc    00 59.50   1.1
PZZ    80.84   8 P     01 00.53   1.6
DOI    80.85   8 P     00 59.63   0.7
       0.1s     7.30nm          5.6mb
PCP    80.92   7 P     01 00.81   1.6
BEO    80.97 358 iP    00 58.50  -0.9
TSM    80.99 265 eP    01 02.00   2.0
CKI    81.01   7 P     00 59.93   0.3
       1.1s    84.50nm          5.7mb
DZM    81.09 210 iPd   01 01.30   1.0
ROB    81.11   8 P     01 01.25   1.0
STV    81.12   8 P     01 00.02  -0.3
ENR    81.14   8 P     00 59.71  -0.8
FIN    81.22   7 P     01 01.25   0.4
MME    81.40   6 P     01 03.30   1.3
BTH    81.41  14 eP    01 02.50   0.8
                iPcP   01 10.00
                iPP    04 07.90
                eS     11 10.00
IMI    81.50   8 P     01 02.68   0.4
SBF    81.51   8 eP    01 02.60   0.3
       0.9s    98.30nm          5.8mb
BDI    81.53   6 P     01 03.00   0.6
EPF    81.57  13 iPc   01 03.50   0.B
       0.9s    19.65nm          5.1mb
AAI    81.64 252 eP    00 59.50  -3.8X
LESF   81.69  13 P     01 04.52   1.3
SFI    81.73   5 P     01 05.00   1.6
FRF    81.74   9 eP    01 03.90   0.4
       1.0s    60.00nm          5.6mb
RSM    81.75   4 P     01 05.10   1.6
PGD    81.77   5 Pc    01 05.50   1.7
LRG    81.82   9 eP    01 04.80   1.0
       1.0s    48.00nm          5.5mb
     Z  20s     2.50um          5.6Msz
LSPF   81.85  12 P     01 04.64   0.6
PII    81.86   6 P     01 04.20   0.2
GRBF   81.91  12 P     01 04.67   0.2
LMR    81.95   9 iPc   01 05.50   0.9
       1.0s    54.00nm          5.5mb
CRE    82.03   5 P     01 06.00   0.9
NST    82.06 286 eP    01 06.50   1.0
ARV    82.20   4 P     01 07.10   1.2
PLE    82.48 359 iPc   01 08.55   1.1
ASS    82.62   4 P     01 09.00   0.9
HVAR   82.62   1 iP    01 07.70  -0.3
MAIO   82.83 328 iPc+  01 10.10   0.8
       1.2s    97.22nm          5.8mb
NDI    82.90 311 iPc   01 09.80   0.1
       1.1s   215.19nm          6.2mb
                eS     11 25.00
BRY    82.91 360 iPc   01 09.74   0.0
IVA    82.93 359 iPc   01 10.29   0.5
PGF    82.93   7 eP    01 10.40   0.6
       0.9s    91.75nm          5.9mb
NKY    83.00 360 iPc   01 10.27   0.1
PVY    83.20 359 iPc   01 11.40   0.2
MNS    83.30   4 P     01 11.89   0.3
       0.8s    21.40nm          5.3mb
HCY    83.36 360 iPc   01 11.67  -0.2
AQU    83.36   4 P     01 13.90   1.9
TTG    83.38 359 Pc    01 12.15   0.2
BDV    83.53 360 iPc   01 12.82   0.1
KAS    83.53 348 eP    01 14.50   1.6
KVT    83.53 347 iP    01 14.40   1.6
KHT    83.64 286 eP    01 15.00   1.3
EBR    83.76  14 eP    01 13.00  -0.9
                (S)    11 36.00
SKO    83.80 358 iPc   01 14.70   0.6
       1.0s   287.00nm          6.4mb
     Z  20s     2.17um          5.5Msz
     N  20s     2.16um
     E  19s     2.55um
                i      01 31.00  58kmX
                i      02 23.40
                iS     11 33.00
                i      15 12.00
ULC    83.84 359 iPc   01 14.45   0.1
SDI    84.02   3 P     01 15.90   0.6
DUI    84.09   3 P     01 16.80   1.1
CTT    84.27 352 eP    01 17.00   0.5
ISK    84.30 352 eP    01 15.70  -0.9
VAY    84.42 357 iP    01 18.00   0.8
RFI    84.44   3 P     01 18.44   1.2
       1.5s  1122.70nm          6.8mb X
RDO    84.46 355 eP    01 18.00   0.6
HRT    84.49 351 eP    01 17.80   0.1
EYL    84.70 351 eP    01 19.40   0.6
BRT    84.93   1 P     01 20.68   0.9
       0.5s    71.60nm          6.1mb
KGT    85.04 353 eP    01 21.40   1.0
SGO    85.21   2 P     01 21.80   0.6
KZN    85.46 357 eP    01 23.00   0.4
LCI    85.47   0 P     01 23.50   1.0
MGR    85.64   2 Pc    01 23.50   0.1
TEH    85.67 334 eP    01 26.00   2.2
EZN    85.73 354 eP    01 24.00   0.2
DST    85.79 352 eP    01 23.00  -1.2
MMN    85.90   2 P     01 25.60   1.0
CSI    86.01   2 P     01 26.20   0.9
KEK    86.09 359 eP    01 26.00   0.4
CGL    86.12   7 P     01 27.47   1.5
       1.3s    17.20nm          5.1mb
TDS    86.13   2 Pc    01 26.60   0.8
ROI    B6.22   1 P     01 27.70   1.4
CZI    86.57   2 P     01 26.70  -1.2
MSL    86.93 340 iPd   01 31.00   1.2
                eSKS   11 55.50
                eS     12 09.00
KHL    86.98 351 eP    01 21.80  -8.3X
MAL    86.99  18 iPd   01 30.50   0.5
                iS     12 10.00
IZM    87.09 353 eP    01 30.40  -0.2
VLS    87.61 358 eP    01 33.20   0.2
MTN    87.69 244 eP    01 34.00   0.5
YER    88.27 352 iP    01 36.80   0.5
ELL    88.51 351 eP    01 48.00  10.4X
SNG    88.67 280 eP    01 31.20  -7.2X
                e      12 24.80
VLI    89.00 356 eP    01 39.00  -0.7
BHD    89.68 338 ePd   01 43.50   0.5
                epP    01 59.00  53kmX
                eS     12 32.00
                ePS    13 49.00
IFR    89.97  19 ePd   01 46.00   1.4
                i      01 57.00  35km
OIS    90.03 233 eP    01 43.00  -1.6
                e      03 53.00 600kmX
IPM    90.54 279 ePd   01 50.50   3.3X
BHL    90.64 346 P     01 48.00   0.5
                SKS    12 14.00
HRI    91.25 345 eP    01 50.60   0.2
RMQ    91.28 223 eP    01 54.00   3.8X
       1.0s    92.00nm          6.1mb
HYB    91.97 304 eP    01 53.30  -0.5
       1.0s   100.00nm          6.2mb
WR2    92.03 238 eP    01 53.20  -0.6
       0.9s    16.70nm          5.5mb
WRA    92.04 238 P     01 52.00  -1.8
       1.0s    17.20nm          5.4mb
WRA    92.04 238 P     02 14.00  20.2X
       1.0s     9.20nm
TIO    92.04  22 eP    01 49.00  -5.1X
                i      01 55.00  19kmX
DSI    92.97 345 eP    01 57.50  -0.7
QLP    93.22 227 eP    02 00.00   0.9
MBH    94.81 346 eP    02 07.00   0.2
ASPA   95.40 236 eP    02 08.60  -0.7
       1.0s    14.30nm          5.4mb
GBA    95.79 303 Pd    02 10.20  -1.1
       0.7s    26.00nm          5.8mb
KOD    98.67 301 eP    02 26.80   2.1
ZOBO  105.12  97 Pdiff 02 51.00  -2.8X
     Z  22s     0.95um          5.3Msz
                LR     40 48.00
LPB   105.34  97 ePKP  07 26.00  17.5X
     Z  24s     2.33um          5.6MszX
                LR     40 46.00
LPB   105.34  97 ePdiff03 11.00  16.4X
     Z  24s     2.33um          5.6MszX
                LR     40 46.00
CNCB  105.63  97 PKP   07 23.70  14.5X
SBA   133.58 189 iPKP  08 02.30   2.2X
KRI   141.34 343 ePKP  08 12.00  -4.4X
SPA   144.38 180 iPKPc+08 17.30  -2.9
       1.0s   100.00nm
     Z  20s     2.12um          5.9Msz
                i      11 51.50
BUL   144.76 343 iPKPd 08 18.20  -4.0X
WIN   148.03   2 ePKP  08 30.00   2.4X
       1.0s    65.00nm
                i      08 32.00
JOZ   151.10 334 ePKP  08 36.00   4.1X
       1.0s    40.00nm
SEK   152.92 342 ePKP  08 37.80   3.1X
       0.7s    58.22nm
                i      08 43.50
FRS   154.69 346 iPKPd 08 36.70  -0.1
       1.0s    20.00nm
MAW   155.50 220 e(PKP)08 37.00   0.2
       1.0s    35.00nm
NVL   163.48 172 PKP   08 45.00  -0.6
                e      09 37.00
                e      09 47.00
                e      10 32.50
                e      13 13.00
                e      23 58.00
                e      24 42.00
                e      33 51.00
     S.D. = 1.2  on 426 of 461 obs.
-----------------------------------
?  JUL  20, 1991  12h 20m 10.35± 2.91s
    9.802 S ±35.8km  124.596 E ±12.0km
   DEPTH =  33.0km  (normal)
   4.2mb (  1 obs.)
 TIMOR                              (289)
KUPT     1.04 250 ePc   20 28.70   0.1
                eS     20 43.00
MTN      7.09 116 iPd   21 55.80   1.4
                eS     23 18.00
KNA      7.18 146 eP    21 57.60   1.9
                eS     23 23.00
WR2     13.81 138 eP    23 24.70  -1.4
       0.3s    11.90nm          5.2mb X
                eS     25 57.50
ASPA    16.40 148 eP    23 59.00  -0.8
       0.6s    12.20nm          4.2mb
                iS     27 01.90
WARB    16.41 173 eP    24 00.00   0.1
                eS     27 00.00
OIS     17.99 128 iPc   24 18.40  -1.3
                eS     27 38.00
     S.D. = 1.6  on   7 of   7 obs.
-----------------------------------
?  JUL  20, 1991  12h 55m 53.77± 2.73s
   45.115 N ±28.3km    2.906 E ±22.7km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                             (538)
      ML 1.9 (LDG).
CAF      0.63 253 Pg    56 05.50  -0.9
                Sg     56 15.20
RJF      1.00 281 Pn    56 12.80   0.1
                Pg     56 13.80
                Sg     56 27.10
LPO      1.30 251 Pg    56 18.60   0.8
SMF      1.66  23 Pg    56 23.10   0.0
                Sg     56 44.60
     S.D. = 1.2  on   4 of   4 obs.
-----------------------------------
%  JUL  20, 1991  13h 34m 49.52± 0.52s
   39.901 N ± 4.5km   28.333 E ± 4.4km
   DEPTH =   5.0km  (geophysicist)
 TURKEY                             (366)
      MD 3.1 (ISK).
DST      0.37 142 iPg   34 56.70  -0.3
                iSg    35 01.70
EDC      0.57 321 ePg   35 00.60  -0.4
                eSg    35 10.10
KGT      0.96 305 iPg   35 08.40   0.1
                eSg    35 21.90
IZI      0.98  63 ePn   35 08.90   0.3
YLV      1.04  50 ePn   35 09.00  -0.6
CTT      1.25   3 iPn   35 12.80  -0.3
ISK      1.29  25 iPn   35 14.20   0.4
HRT      1.37  48 iPn   35 15.80   0.5
EZN      1.55 268 ePn   35 18.00   0.3
KHL      1.83 149 ePn   35 22.00   0.1
     S.D. = 0.4  on  10 of  10 obs.
-----------------------------------
%  JUL  20, 1991  13h 57m 53.55± 0.57s
   45.994 N ± 5.0km    2.769 E ± 5.4km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                             (538)
      ML 2.4 (LDG).
MAF      0.27 328 Pg    57 59.20   0.0
                Sg     58 03.50
```

20d 13h

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TCF      0.49 307 Pg     58 03.30  -0.2
                  Sg     58 10.40
BGF      0.57   5 Pg     58 04 70  -0.4
                  Sg     58 12.90
AVF      0.89  27 Pg     58 10.40  -0.3
                  Sg     58 22.10
LSF      0.90 287 Pg     58 11.00   0.2
                  Sg     58 23.40
SMF      0.99  48 Pg     58 12.10  -0.2
                  Sg     58 25.40
RJF      1.12 232 Pg     58 13.80  -0.7
                  Sg     58 29.00
CAF      1.18 205 Pg     58 14.60  -1.0
                  Sg     58 30.40
SSF      1.18  25 Pg     58 15.70   0.1
                  Sg     58 31.20
LBF      1.30  40 Pg     58 17.50  -0.1
                  Sg     58 34.60
LOR      1.48  30 Pg     58 21.00   0.8
                  Sg     58 40.00
LPO      1.72 221 Pg     58 25.40   1.7
      S.D. = 0.8  on  12 of  12 obs.
-----------------------------------------
%  JUL  20, 1991  15h 21m 08.82± 1.11s
   0.703 S ±10.5km   78.148 W ±10.6km
   DEPTH =  33.0km  (normal)
 ECUADOR                              (107)
      MD 4.0 (QUI).

VC1      0.27 284 P+     21 17.10   0.4
QUR      0.65 324 Pd     21 20.70  -1.3
                  iS     21 35.10
ANGL     0.68  63 P      21 22.70   0.4
                  S      21 41.40
GGP      0.69 320 Pd     21 22.20  -0.5
                  S      21 39.60
YANA     0.72 324 P+     21 21.80  -1.2
TUNG     0.77 203 P      21 22.20  -1.3
QUIL     0.78 266 P      21 26.20   2.4
CAYA     0.80  12 P+     21 25.10   1.0
      S.D. = 1.6  on   8 of   8 obs.
-----------------------------------------
*  JUL  20, 1991  15h 22m 51.10± 1.69s
   37.959 N ±20.2km   21.082 E ± 9.8km
   DEPTH =  47.9 ± 15.4 km
   3.7mb (  2 obs.)
 SOUTHERN GREECE                      (368)
      MD 3.5 (ATH).

VLS      0.45 299 ePg    22 59.80  -1.9
VLI      1.93 129 ePg    23 30.00   8.0X
KEK      2.02 331 ePn    23 24.00   0.7
ATH      2.08  89 ePn    23 24.50   0.3
KZN      2.40  13 ePg    23 29.50   0.6
LCI      3.40 315 P      23 50.00   7.1X
VAY      3.55  18 ePn    23 45.30   0.2
CZI      4.08 289 P      23 53.60   1.1
ORI      4.18 302 P      24 03.00   9.1X
BRT      4.19 315 P      23 52.50  -1.6
SGO      5.18 302 P      24 10.00   2.0
SDI      6.73 306 P      24 23.00  -6.8X
EKA     23.86 325 P      28 01.00   0.3
         1.0s     4.20nm          3.9mb
NB2     23.92 348 P      27 59.40  -1.9
         0.6s     0.90nm          3.5mb
      S.D. = 1.6  on  10 of  14 obs.
-----------------------------------------
?  JUL  20, 1991  15h 43m 18.73± 3.69s
   6.631 S ±21.7km  147.245 E ±50.9km
   DEPTH =  56.6 ± 14.6 km
   4.2mb (  2 obs.)
 EAST PAPUA NEW GUINEA REGION         (207)

LAT      0.24 265 iPd    43 28.00  -0.1
YYYY     1.33 287 eP     43 46.40   5.0X
MDG      2.00 313 iPd    43 50.80   0.1
PMG      2.76 182 eP     44 01.60   0.1
                  eS     44 30.00
WR2     18.21 222 eP     47 29.40   0.2
         0.2s     4.90nm          4.3mb
ASPA    21.25 216 eP     48 02.00  -0.3
         0.8s     5.90nm          4.0mb
      S.D. = 0.4  on   5 of   6 obs.
-----------------------------------------
%  JUL  20, 1991  15h 52m 50.69± 1.06s
   16.891 N ±11.1km   99.479 W ± 6.9km
   DEPTH =  10.0km  (geophysicist)
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 NEAR COAST OF GUERRERO, MEXICO   ( 58)

ACX      0.36 267 iP     52 57.50  -0.7
                  iS     53 02.37
PPM      2.31  20 iP     53 29.30  -0.6
                  iS     54 00.61
IIA      2.38  19 eP     53 30.07  -0.2
                  iS     54 01.70
IIT      2.39  28 iP     53 30.81   0.0
                  iS     54 03.06
UNM      2.44   7 eP     53 33.00   1.5
                  (S)    54 04.00
OXX      2.64  85 iP     53 35.66   1.3
                  (S)    54 06.00
IISM     2.89  43 iP     53 36.91  -0.7
                  (S)    54 15.00
MRX      3.24 330 iP     53 43.55   1.0
                  iS     54 22.60
PBJ      3.93  96 iP     53 52.50   0.1
LVVM     4.04  45 (P)    53 52.00  -1.9
      S.D. = 1.2  on  10 of  10 obs.
-----------------------------------------
*  JUL  20, 1991  17h 42m 07.74± 1.31s
   24.626 N ± 8.8km  120.742 E ±16.2km
   DEPTH =  33.0km  (normal)
   4.3mb (  1 obs.)
 TAIWAN                               (244)

TWO      0.36 166 iPd    42 15.00  -1.3
                  eS     42 20.10
TWZ      0.89  58 iPc    42 24.30   0.4
                  eS     42 37.00
ANP      0.90  52 eP     42 24.50   0.4
TWD      0.95 125 iPd    42 24.60  -0.1
                  eS     42 36.50
TWC      1.01  91 eP     42 25.40  -0.2
TWF1     1.37 158 ePc    42 32.40   1.7
TWK      1.37 190 ePc    42 32.60   1.8
TWG      1.82 170 ePc    42 39.50   2.2X
SSE      6.46   3 ePn    43 43.00   0.1
                  Sg     45 28.50
WRA     46.24 162 P      50 29.00  -2.8
         0.8s     3.30nm          4.3mb
      S.D. = 1.6  on   9 of  10 obs.
-----------------------------------------
%  JUL  20, 1991  18h 41m 16.17± 1.75s
   43.779 N ±11.5km   10.276 E ±10.3km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                        (381)

PII      0.19 108 P      41 20.10  -0.2
                  eSg    41 22.50
BDI      0.37  39 P      41 23.60  -0.1
                  eSg    41 29.00
MME      0.51  36 P      41 26.60  -0.1
                  eSg    41 32.50
SFI      1.15  82 P      41 38.00   0.4
                  eSg    41 53.00
BOB      1.15 329 P      41 37.80   0.0
                  eSg    41 52.50
      S.D. = 0.3  on   5 of   5 obs.
-----------------------------------------
   JUL  20, 1991  18h 52m 23.97± 0.54s
   30.298 N ± 8.1km   94.741 E ± 7.5km
   DEPTH =  33.0km  (normal)
   4.5mb ( 10 obs.)
 TIBET                                (306)

SHL      5.35 209 eP     53 33.70 -10.0X
                  eS     55 14.50
GUN      8.11 255 P      54 23.52   0.9
PKI      8.62 254 P      54 29.04  -0.6
KKN      8.65 256 P      54 29.26  -0.8
         0.7s    44.00nm          5.7mb X
DMN      8.85 255 P      54 32.34  -0.5
GKN      9.13 258 P      54 35.62  -0.9
CHTO    12.05 161 (P)    55 16.00  -0.4
GBA     23.05 228 P      57 30.00   2.6
         0.8s     5.00nm          4.1mb
NB2     60.92 326 P      02 34.90  -0.8
         0.7s     2.10nm          4.4mb
WRA     62.82 138 P      02 48.00  -0.9
         1.3s     1.40nm          3.9mb
LPG     67.78 311 eP     03 21.20   0.2
         0.8s     4.70nm          4.6mb
LPL     67.79 311 eP     03 21.30   0.4
         0.8s     4.05nm          4.6mb
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LBF     69.02 313 eP     03 28.00  -0.3
         0.8s     2.70nm          4.4mb
SMF     69.24 313 eP     03 29.50  -0.1
SSF     69.29 313 eP     03 29.90   0.0
         0.8s     3.35nm          4.5mb
AVF     69.49 313 eP     03 31.30   0.2
         1.0s     5.00nm          4.5mb
MAF     70.22 312 eP     03 36.00   0.4
         1.0s     4.00nm          4.4mb
TCF     70.42 313 eP     03 37.20   0.4
         0.8s     4.05nm          4.5mb
INK     75.41  17 eP     04 06.00   0.3
      S.D. = 0.9  on  18 of  19 obs.
-----------------------------------------
   JUL  20, 1991  19h 02m 30.65± 0.92s
   30.326 N ± 5.3km   94.838 E ± 3.6km
   DEPTH =  24.0 ±  7.4 km
   4.8mb ( 29 obs.)
 TIBET                                (306)

LSA      3.26 260 P      03 23.70   1.9
SHL      5.41 210 iP     03 52.40   0.3
                  iS     05 24.40
CD2      7.71  83 P      04 26.60   2.3
GUN      8.20 255 P      04 30.52  -0.8
         0.8s   145.00nm          6.2mb X
PKI      8.70 254 P      04 36.72  -1.7
KMI      8.71 125 eP     04 39.00   0.6
                  sP     04 52.50
DMN      8.94 255 P      04 40.18  -1.4
         0.8s    65.00nm          5.9mb X
GKN      9.21 258 P      04 42.54  -2.7
         0.5s    26.00nm          5.7mb
LZH      9.48  50 eP     04 49.00   0.1
         1.0s    21.00nm          5.4mb
GTA      9.94  23 eP     04 53.40  -1.8
      Z  12s      0.40um
                  pP     04 57.60
GYA     11.10 107 P      05 08.80  -2.3
         1.0s    36.00nm          5.6mb
      N  18s      2.30um
      E  18s      4.20um
                  pP     05 18.60
CHG     12.05 161 eP     05 25.00   1.1
XAN     12.49  69 eP     05 28.00  -1.8
WMQ     14.62 339 P      05 56.50  -1.3
                  pP     06 01.50
NST     15.37 160 eP     06 12.00   4.3X
KHT     15.85 167 eP     06 19.50   5.6X
BTO     16.04  46 eP     06 14.20  -2.1
TIY     16.33  59 eP     06 18.00  -2.0
WHN     16.83  84 Pc     06 26.00  -0.3
         1.2s    30.00nm          4.3mb
HHC     17.16  48 P      06 33.20   2.8
TIA     19.52  67 eP     07 00.70   1.4
HYB     19.64 233 eP     07 00.00  -0.7
BJI     19.91  55 eP     07 03.50   0.2
         1.0s     8.00nm          4.0mb
NJ2     20.61  79 eP     07 10.00  -0.7
SSE     22.65  81 eP     07 22.00  -9.3X
IRK     23.01  15 eP     07 36.50   1.9
GBA     23.13 228 Pc     07 36.50   0.5
         1.1s    31.60nm          4.8mb
QUE     24.07 277 eP     07 47.50   2.2
KOD     25.72 223 eP     08 02.80   1.5
SNY     25.79  56 eP     08 01.60   0.2
         1.4s   100.00nm          5.3mb
CN2     27.71  52 P      08 19.80   0.9
         1.0s    10.00nm          4.5mb
MAIO    30.02 291 iPc    08 40.80   0.9
YAK     38.96  25 eP     09 55.90  -0.3
OBN     47.72 319 iPd    11 08.00   0.8
                  e      11 17.00
MLR     54.82 307 eP     12 01.00  -0.1
                  e      19 27.50
KRA     58.04 313 eP     12 24.50   0.7
SKO     58.74 303 iP     12 28.00  -0.8
KSP     60.17 314 eP     12 38.50  -0.1
NB2     60.95 326 P      12 42.70  -1.1
         1.1s     8.20nm          4.8mb
PRU     61.46 314 P      12 47.50   0.1
BRG     61.61 315 eP     12 49.10   0.7
         1.1s    11.00nm          4.9mb
CLL     62.08 315 eP     12 51.00  -0.5
KHC     62.28 313 P      12 48.00  -5.0X
                  e      12 53.00
WRA     62.79 138 P      12 56.00  -0.6
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```
        0.8s      3.60nm          4.6mb
WR2    62.81 138 iPc    12 56.00  -0.7
        0.7s      5.20nm          4.8mb
GRF    63.61 314 eP     13 03.10   1.4
ASPA   65.48 141 eP     13 13.50  -0.6
        1.5s      8.30nm          4.6mb
CDF    66.48 313 eP     13 20.00  -0.3
WLF    66.75 315 P      13 23.00   1.1
BSF    66.98 313 eP     13 23.00  -0.6
LPG    67.83 311 eP     13 29.40   0.2
        0.9s      8.20nm          4.9mb
LPL    67.83 311 eP     13 29.40   0.2
        1.2s     16.35nm          5.0mb
SBF    67.96 309 eP     13 29.40  -0.4
        1.0s     14.00nm          5.1mb
LMR    68.78 309 eP     13 34.40  -0.4
        1.2s     11.90nm          4.9mb
LRG    68.84 309 eP     13 35.00  -0.1
        1.0s     16.00nm          5.1mb
LOR    69.03 313 eP     13 35.90  -0.4
        1.0s      6.00nm          4.7mb
LBF    69.07 313 eP     13 36.00  -0.6
        1.2s     10.40nm          4.8mb
SMF    69.28 313 eP     13 37.40  -0.5
        1.0s      5.00nm          4.6mb
SSF    69.34 313 eP     13 37.80  -0.4
        1.0s      7.00nm          4.7mb
AVF    69.54 313 eP     13 39.30  -0.1
        1.2s      8.95nm          4.8mb
EKA    69.91 323 P      13 43.00   1.5
        1.5s     15.40nm          4.9mb
MAF    70.26 313 eP     13 44.20   0.4
        1.0s      6.00nm          4.7mb
TCF    70.46 313 eP     13 45.20   0.1
        1.0s     10.00nm          4.9mb
CAF    71.10 311 eP     13 49.40   0.4
        1.2s     11.90nm          4.9mb
RJF    71.30 312 eP     13 50.40   0.2
        1.2s     14.90nm          5.0mb
MBC    71.54   8 eP     13 51.50   0.4
LPO    71.77 311 eP     13 53.30   0.3
INK    75.36  17 eP     14 14.00   0.6
BUL    81.05 241 iPd    14 46.00   0.4
        0.8s      9.70nm          4.9mb
      S.D. = 1.2  on  65 of  69 obs.
-----------------------------------------
?  JUL  20, 1991  19h 09m 29.13± 5.63s
    0.322 N ±35.4km   78.506 W ±32.0km
    DEPTH =  10.0km  (geophysicist)
 COLOMBIA-ECUADOR BORDER REGION  (106)

COTA    0.17  86 Pd     09 33.20  -0.1
                S       09 36.70
YANA    0.44 189 Pd     09 38.20   0.0
                S       09 46.10
QUR     0.49 183 iP+    09 38.80  -0.4
                S       09 46.80
GGP     0.50 190 Pd     09 39.40   0.0
                S       09 47.00
CAYA    0.58 115 P      09 41.10   0.0
                S       09 49.50
VC1     0.96 174 Pd     09 48.30   0.5
                S       10 03.00
      S.D. = 0.4  on   6 of   6 obs.
-----------------------------------------
&  JUL  20, 1991  19h 18m 34.35s
    62.993 N          151.065 W
    DEPTH = 118.3km
 CENTRAL ALASKA                   (  1)
      <AEIC>.

KTH     0.57   7 iPc    18 52.72  -0.2
                eS      19 06.63
TRF     0.58  37 iPc    18 52.80  -0.3
                eS      19 07.54
HUR     0.65  91 iPc    18 53.04  -0.4
                eS      19 07.57
CUT     0.70 148 iPc    18 53.70   0.0
SKT     1.04 192 iPd    18 56.61  -0.3
                eS      19 13.85
RND     1.09  67 iPc    18 56.95  -0.5
                S       19 14.13
MCK     1.21  51 ePc    18 58.41  -0.4
                S       19 16.96
BWN     1.38  30 eP     19 00.58  -0.1
PWA     1.46 157 ePd    19 01.19  -0.3
SUA     1.54 174 ePd    19 02.20  -0.5
GHO     1.58 140 ePd    19 02.50  -0.6
PLRM    1.67 146 ePd    19 03.05  -1.0
PMR     1.67 146 iPd    19 03.20  -0.9
NCG     1.68 198 iPd    19 03.57  -0.7
CGLM    1.75 195 ePd    19 04.33  -0.8
NEA     1.82  28 iPd    19 04.58  -1.3
                S       19 27.25
BGL     1.84 200 eP     19 05.87  -0.5
SPU     1.88 195 iPd    19 05.74  -1.0
                eS      19 30.20
PMS     1.89 157 iPd    19 05.90  -1.0
                eS      19 30.28
CKL     1.90 199 iPd    19 06.41  -0.6
WRH     1.99  40 iPd    19 06.86  -1.2
KNK     2.00 141 eP     19 07.37  -0.9
CCB     2.20  40 iPd    19 09.39  -1.3
NKA     2.26 182 eP     19 12.84   1.4
TTA     2.26 271 ePd    19 10.70  -0.9
MDM     2.34  31 iPd    19 11.10  -1.4
FBA     2.40  36 ePd    19 12.00  -1.3
TOA     2.44 109 eP     19 13.39  -0.5
RDT     2.51 195 ePd    19 13.73  -1.1
SLKM    2.53 170 eP     19 13.79  -1.2
DFR     2.53 198 eP     19 14.16  -1.0
PAX     2.56  88 iPc    19 14.61  -0.9
SDG     2.58  98 eP     19 14.87  -0.9
NCT     2.60 201 eP     19 15.06  -0.9
RDN     2.62 199 ePd    19 15.16  -1.1
RDW     2.65 199 iPd    19 16.11  -0.7
RSO     2.66 198 ePd    19 16.14  -0.9
RED     2.71 198 ePd    19 16.55  -0.9
KLU     2.84 120 ePc    19 17.30  -1.9
SVW     2.86 231 ePd    19 18.50  -0.9
VZW     2.88 130 eP     19 17.97  -1.7
NNL     2.96 182 iPd    19 21.18   0.4
SEW     3.00 164 iPd    19 19.80  -1.4
BRLK    3.24 178 eP     19 23.32  -1.2
IMA     3.29 341 eP     19 25.00  -0.2
HOM     3.36 185 eP     19 25.66  -0.4
CNPM    3.48 181 ePd    19 26.41  -1.3
PDB     3.55 206 ePd    19 27.46  -1.2
XLV     3.57 185 eP     19 27.80  -1.1
GLB     3.74 111 ePc    19 29.53  -1.7
AUE     3.81 198 eP     19 31.50  -0.7
AUH     3.82 199 eP     19 31.92  -0.4
AUI     3.84 198 eP     19 33.00   0.4
CDD     4.27 198 eP     19 36.61  -1.8
        54 abs. associated
-----------------------------------------
    JUL  20, 1991  19h 35m 19.58± 0.30s
    51.436 N ± 9.0km  177.188 W ± 4.4km
    DEPTH =  33.0km  (normal)
    4.8mb ( 13 obs.)  4.5Msz (  1 obs.)
 ANDREANOF ISLANDS, ALEUTIAN IS. (  7)
      Felt (IV) on Adak.

ADK     0.55  35 iPd    35 33.50   2.6
SMY     5.52 287 e(P)   36 42.00   0.4
PDB    15.38  48 eP     39 00.00   4.5X
TTA    16.16  36 e(P)   39 06.00   0.4
KLU    19.79  47 eP     39 49.00  -0.7
INK    26.84  35 eP     40 47.00 -11.3X
                pP      41 12.00 116kmX
MBC    33.18  22 eP     41 54.00  -0.6
        1.0s      6.00nm          4.5mb
                pP      42 05.50  43kmX
YKA    34.46  47 eP     42 03.50  -2.3
        0.7s      1.30nm          4.0mb
MAT    34.79 262 eP     42 10.00   1.0
        1.2s     17.19nm          4.9mb
LON    35.83  75 eP     42 18.50   0.8
PNT    35.97  70 ePc    42 19.00   0.2
        0.5s      9.00nm          5.0mb
NEW    37.92  70 eP     42 35.00  -0.2
SNY    40.76 280 Pc     42 58.80   0.0
        1.4s     30.00nm          4.8mb
LRM    41.90  71 eP     43 08.30  -0.2
TNP    43.43  84 eP     43 21.50   0.5
ISA    44.16  87 eP     43 38.00  11.2X
CLC    44.61  86 eP     43 42.00  11.6X
SBB    45.20  88 eP     43 35.00  -0.1
BW06   45.32  73 eP     43 36.20   0.0
GSC    45.44  86 eP     43 37.00   0.0
MSU    46.29  80 eP     43 44.30   0.4
BJI    46.35 283 eP     43 44.00   0.0
        1.0s     10.00nm          4.7mb
PLM    46.68  88 eP     43 46.00  -0.9
TIA    48.16 278 eP     43 58.30   0.0
GOL    49.69  74 eP     44 10.00  -0.4
TIY    50.08 283 eP     44 13.40   0.3
     Z  20s      0.50um          4.5Msz
ANMO   52.09  79 eP     44 28.00  -0.6
XAN    54.64 282 P      44 46.00  -1.2
CD2    59.95 283 iPd    45 24.30  -0.5
        1.0s     30.00nm          5.4mb
KMI    64.72 279 Pd     45 56.50  -0.4
GUN    72.77 293 P      46 46.60  -0.2
        0.4s     26.00nm          5.6mb
KKN    73.20 293 P      46 48.80  -0.4
        0.6s     14.00nm          5.1mb
PKI    73.30 293 P      46 49.60  -0.3
GKN    73.41 294 P      46 49.40  -0.9
DMN    73.44 293 P      46 50.40  -0.2
WR2    82.76 225 iPd    47 41.40   0.1
        0.6s      4.40nm          4.7mb
WRA    82.76 225 P      47 41.00  -0.4
        1.0s      3.20nm          4.4mb
ASPA   86.22 224 eP     47 59.60   0.9
        1.0s      9.60nm          5.0mb
STK    90.54 214 iPd    48 20.70   1.7
        0.5s      1.20nm          4.5mb
SLR   147.83 313 iPKPc  55 01.50   1.9
SEK   150.34 312 iPKPc  55 09.40   6.0X
        0.6s     23.33nm
BLF   151.67 313 iPKPc  55 10.50   5.1X
FRS   152.61 314 ePKP   55 05.80  -0.6
      S.D. = 0.9  on  37 of  43 obs.
-----------------------------------------
?  JUL  20, 1991  19h 58m 38.45± 0.63s
    1.889 N ± 7.5km  123.266 E ±10.3km
    DEPTH =  33.0km  (normal)
    4.8mb (  4 obs.)
 MINAHASSA PENINSULA              (265)

DAV     5.65  24 eP     00 16.40  14.0X
TSM     5.89 294 eP     00 05.50  -0.3
CGP     6.68  12 eP     00 17.00   0.2
AAI     7.41 138 e(P)   00 36.00   8.9X
MKS     8.01 208 iPc    00 36.00   0.5
MAP     8.41   5 eP     00 55.00  14.0X
CVP    15.78 355 eP     02 25.00   5.1X
        1.8s     208.00nm          5.0mb
IPM    22.36 277 ePc    03 41.90   6.5X
WR2    24.28 154 iPc    03 53.70  -0.3
        0.5s     41.20nm          5.2mb
                epP     04 03.70  37kmX
ASPA   27.43 158 eP     04 22.80  -0.6
        1.0s      7.20nm          4.3mb
QIS    27.46 145 eP     04 24.00   0.3
CHG    29.17 307 eP     05 01.00  21.9X
CHTO   29.17 307 (P)    04 48.00   8.9X
STK    37.82 154 iPd    05 53.90   0.2
        0.4s      3.50nm          4.6mb
BJI    38.52 351 eP     06 07.00   7.5X
                eS      12 00.00
      S.D. = 0.5  on   7 of  15 obs.
-----------------------------------------
&  JUL  20, 1991  20h 39m 16.40s
    37.050 N          121.828 W
    DEPTH =   4.0km
 CENTRAL CALIFORNIA               ( 39)
      <BRK>. ML 2.6 (BRK).

GCC     0.14 262 iPd    39 19.39   0.2
MHC     0.33  27 iPd    39 23.40   0.4
ARN     0.38  38 iPc    39 24.20   0.2
SAO     0.42 133 iPd    39 24.39  -0.4
PCC     0.63 316 iPd    39 28.63  -0.4
                eS      39 37.68
PRS     0.81 153 ePc    39 31.80  -0.7
                eS      39 43.11
BKS     0.89 339 iPc    39 33.20  -0.8
BRK     0.89 337 ePd    39 33.50  -0.5
                iS      39 46.20
ZSP     0.96 339 eP     39 35.01  -0.1
                eS      39 48.74
CM8     1.51  49 ePc    39 42.90  -1.4
                eS      40 04.78
FRI     1.70  91 iPc    39 44.95  -2.0
                eS      40 06.15
        11 abs. associated
-----------------------------------------
*  JUL  20, 1991  20h 59m 09.03± 1.22s
    7.149 S ±11.3km  129.827 E ±15.3km
```

20d 20h

DEPTH = 109.4 ± 20.0 km
4.4mb (3 obs.)
BANDA SEA (280)

AAI	3.80	335	ePd	00 06.50	-0.2	
MTN	5.81	167	iPc	00 36.00	1.8	
KUPT	6.84	244	eP	00 48.50	0.2	
KNA	8.61	187	eP	01 11.60	-0.9	
	0.3s	139.00nm			6.2mb	X
			eS	02 42.00		
WR2	13.46	161	iPd	02 14.90	-2.0	
	0.3s	92.70nm			5.7mb	X
			eS	04 38.10		
QIS	16.35	146	eP	02 54.00	0.5	
			eS	05 39.00		
ASPA	16.88	167	eP	02 59.60	-0.5	
	0.4s	30.60nm			4.9mb	
			eS	05 58.60		
WARB	19.17	189	eP	03 27.00	0.3	
	0.3s	6.00nm			4.4mb	
			e	03 31.00		
			eS	06 52.00		
FORR	23.63	184	eP	04 11.50	0.3	
STK	26.94	157	iPd	04 42.50	0.5	
	0.4s	2.70nm			4.1mb	
			e	05 07.20		
			eS	09 57.80		

S.D. = 1.2 on 10 of 10 obs.

? JUL 20, 1991 21h 11m 41.81± 1.12s
37.246 N ±11.9km 20.752 E ± 9.1km
DEPTH = 10.0km (geophysicist)
IONIAN SEA (399)
MD 3.1 (ATH).

VLS	0.94	352	ePg	12 00.30	0.6
VLI	1.83	106	ePb	12 13.00	-0.5
ATH	2.46	72	ePb	12 23.50	0.9
KEK	2.57	343	ePg	12 31.50	7.3X
MEU	4.65	270	P	12 54.00	0.1
			eSn	13 51.00	
SKO	4.75	6	ePn	12 54.00	-1.1

S.D. = 1.2 on 5 of 6 obs.

? JUL 20, 1991 21h 25m 15.22± 2.22s
5.572 S ±27.7km 146.136 E ±28.1km
DEPTH = 136.8 ± 13.8 km
4.3mb (3 obs.)
EAST PAPUA NEW GUINEA REGION (207)

MDG	0.48	312	iPd	25 34.50	-0.6	
YYYY	0.69	194	eP	25 37.40	0.8	
			eS	25 55.20		
LAT	1.38	141	eP	25 43.40	0.6	
			eS	25 46.60		
PMG	3.94	165	eP	26 14.00	-1.2	
			eS	27 00.00		
CTAO	14.43	180	iP	28 39.90	5.6X	
	1.0s	17.50nm			4.3mb	
WR2	18.31	218	iPc	29 20.70	-0.9	
	0.3s	67.50nm			5.4mb	X
ASPA	21.51	212	iPd	29 55.40	1.0	
	0.3s	17.20nm			4.9mb	
STK	26.52	189	eP	30 41.60	-0.2	
	0.9s	2.80nm			3.9mb	
WARB	27.70	220	eP	30 53.00	0.4	

S.D. = 1.1 on 8 of 9 obs.

JUL 20, 1991 21h 37m 32.99± 0.66s
45.264 N ± 5.6km 20.955 E ± 7.7km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)

TIM	0.51	22	iPc	37 44.00	0.7	
BEO	0.57	219	iPg	37 45.20	0.7	
			iSg	37 55.50		
SSR	0.69	125	iPd	37 46.00	-0.6	
DEV	1.50	65	iPc	38 00.50	0.5	
PSZ	2.76	345	eP	38 17.10	-1.0	
CMP	2.88	88	ePc	38 25.00	5.2X	
SRO	3.13	325	e(Pn)	38 23.10	-0.2	
			i	39 04.60		
SKO	3.31	174	ePn	38 35.00	9.1X	
MLR	3.52	85	ePc	38 36.50	7.5X	
PTJ	3.57	282	eP	38 37.20	7.6X	
ZST	3.95	319	eP	38 48.60	13.7X	
VAY	4.11	163	ePn	38 37.00	-0.2	

S.D. = 0.8 on 7 of 12 obs.

& JUL 20, 1991 21h 41m 04.80s
38.413 N 122.647 W
DEPTH = 7.0km
NORTHERN CALIFORNIA (36)
<BRK>. ML 3.8 (BRK).
Mo=4.5*10**14 Nm (BRK). Felt
sharply ot Santa Rosa.

NWRM	0.19	283	iP	41 08.70	-0.2	
ZSP	0.56	147	iPc	41 15.94	-0.1	
			eS	41 26.10		
BKS	0.63	149	iPc	41 16.10	-1.3	
			eS	41 25.50		
BKS	0.63	149	iPc	41 16.75	-0.6	
			iS	41 25.70		
PCC	0.94	167	eP	41 22.11	-0.8	
			iS	41 35.27		
MHC	1.33	143	iPc	41 27.90	-1.9	
ARN	1.38	140	eP	41 28.00	-2.5	
ORV	1.45	38	iPd	41 28.69	-2.8	
GCC	1.47	159	ePc	41 29.18	-2.6	
CMB	1.82	101	iPc	41 35.41	-1.4	
			eS	41 59.08		
SAO	1.90	150	eP	41 35.45	-2.5	
MIN	2.09	22	eP	41 39.10	-1.7	
WDC	2.17	2	ePc	41 38.90	-2.9	
PRS	2.31	154	eP	41 41.43	-2.5	
FRI	2.73	120	ePd	41 48.20	-1.6	
LBFM	2.99	11	eP	41 52.50	-1.2	
BONR	3.45	96	eP	41 59.00	-1.4	

17 obs. associated

JUL 20, 1991 23h 18m 59.46± 0.66s
40.715 N ± 8.8km 19.874 E ± 5.8km
DEPTH = 10.0km (geophysicist)
ALBANIA (391)
MD 3.1 (ATH).

KEK	1.00	183	ePb	19 19.00	0.5
			eSb	19 34.00	
KZN	1.50	105	ePb	19 25.80	-0.7
LCI	1.51	256	P	19 26.40	-0.2
			eSn	19 44.80	
SKO	1.72	43	iPn	19 30.20	0.6
			iSn	19 53.00	
BRT	2.03	275	P	19 34.30	0.1
			eSn	19 59.50	
VAY	2.13	73	ePn	19 25.00	-10.5X
MGR	3.35	261	P	19 53.00	0.1
SGO	3.48	269	P	19 54.20	-0.5
			eSn	20 32.00	

S.D. = 0.6 on 7 of 8 obs.

? JUL 20, 1991 23h 31m 36.08± 1.20s
17.848 N ±10.2km 76.732 W ± 7.5km
DEPTH = 10.0km (geophysicist)
JAMAICA REGION (86)
MD 2.4 (HOJ).

HOJ	0.15	354	Pc	31 39.92	0.2
			S	31 43.72	
YHJ	0.23	79	Pd	31 41.02	0.0
STH	0.24	341	iPc	31 40.99	-0.3
			S	31 46.64	
PCJ	0.43	256	Pc	31 44.87	0.0
SPJ	0.80	281	iPd	31 39.77	-11.9X
			iS	31 43.82	

S.D. = 0.4 on 4 of 5 obs.

? JUL 20, 1991 23h 38m 19.21± 4.30s
28.908 N ±36.2km 98.042 W ±25.8km
DEPTH = 10.0km (geophysicist)
SOUTHERN TEXAS (519)
mbLg 3.6 (GS), 3.4 (TUL). Felt
(IV) ot Falls City and Hobson.

ATX	1.41	6	iP	38 45.00	0.1
			(S)	39 04.00	
LTX	4.94	276	P	39 35.30	0.0
SFTX	5.61	282	P	39 45.00	0.1
MEO	5.88	356	e(P)	39 48.50	0.1
VVO	6.70	16	P	40 00.00	-0.1
TUL	7.24	15	ePn	40 06.00	-1.6X
ALQ	9.34	312	eP	40 37.00	-0.1
ANMO	9.34	312	P	40 51.50	14.4X
GOL	12.35	333	P	41 27.00	8.9X

S.D. = 0.1 on 6 of 9 obs.

JUL 21, 1991 01h 56m 35.92± 1.04s
35.803 N ± 8.6km 21.869 E ± 4.2km
DEPTH = 36.1 ± 7.9 km
4.0mb (8 obs.)
MEDITERRANEAN SEA (400)
MD 3.9 (ATH).

VLI	1.26	43	ePg	56 57.20	-0.1	
VLS	2.58	337	ePb	57 18.00	1.7	
ATH	2.62	34	ePn	57 18.00	1.2	
NPS	3.10	99	ePn	57 33.00	9.3X	
KEK	4.23	338	ePn	57 40.00	0.3	
KZN	4.50	359	ePn	57 45.00	1.5	
SOI	5.18	298	P	57 52.80	-0.2	
			eSn	58 45.40		
GRI	5.28	306	P	57 54.36	-0.2	
LCI	5.48	327	P	57 56.00	-1.2	
			eSn	58 53.50		
VAY	5.54	5	iPn	57 58.00	-0.1	
ROI	5.64	313	P	57 59.20	-0.4	
ATN	5.64	297	P	57 59.50	-0.1	
			eSn	58 57.70		
CZI	5.69	308	P	58 00.20	0.0	
			eSn	58 54.50		
PZI	5.74	284	P	57 59.86	-1.2	
MEU	5.74	285	P	58 00.60	-0.5	
TDS	5.83	313	P	58 02.10	-0.2	
CSI	5.94	314	P	58 04.90	1.1	
MMB	5.96	14	iPd	58 03.00	-1.1	
ORI	6.04	316	P	58 05.00	-0.2	
RDO	6.06	27	ePn	58 05.50	0.0	
KKB	6.13	9	iP	58 06.00	-0.5	
MNO	6.13	292	P	58 07.50	0.8	
			eSn	59 09.00		
SKO	6.17	357	iPnc	58 06.20	-0.8	
	0.6s	90.00nm			5.6mb	X
			i	58 12.00		
			i	58 17.50		
			i	58 26.20		
			i	59 13.70		
MMN	6.19	313	P	58 08.50	1.2	
			eSn	59 18.40		
BRT	6.25	326	P	58 07.10	-1.1	
			eSn	59 14.00		
ELL	6.56	79	eP	58 21.00	8.3X	
BAI	6.60	325	P	58 11.00	-2.0	
MGR	6.60	313	P	58 12.50	-0.6	
			eSn	59 18.50		
KHL	6.62	65	eP	58 14.30	0.9	
GIB	6.65	291	P	58 13.80	-0.1	
VTS	6.86	8	iP	58 16.00	-0.8	
SGO	7.02	315	P	58 18.70	-0.1	
USI	7.51	295	P	58 24.30	-1.5	
DUI	8.23	318	P	58 35.70	-0.2	
RFI	8.26	314	P	58 36.11	-0.1	
SDI	8.62	316	P	58 40.80	-0.4	
ASS	10.16	318	P	59 02.50	0.0	
ARV	10.31	321	P	59 03.50	-1.0	
CRE	10.92	319	P	59 13.00	0.1	
SFI	11.17	320	P	59 17.00	0.8	
WTTA	13.76	329	e(P)	59 52.00	1.1	
	0.9s	4.60nm			4.3mb	X
KHC	14.64	338	eP	59 47.00	-15.3X	
			e	00 02.50		
LPG	14.99	315	eP	00 07.50	0.4	
GRF	15.91	334	eP	00 18.00	-0.6	
	Z 18s	0.20um				
			e	00 23.40		
BSF	16.42	322	eP	00 25.50	0.3	
MOX	16.59	337	e(P)	00 30.00	2.8X	
HAU	16.76	321	eP	00 30.40	1.0	
	Z 19s	0.08um				
CLL	16.76	340	e(P)	00 32.00	2.7X	
LBF	17.42	315	eP	00 38.80	1.1	
	0.8s	2.70nm			3.4mb	
AVF	17.68	314	eP	00 42.40	1.6	
WLF	17.98	325	Pc	00 47.00	2.5X	
LPO	18.07	306	eP	00 47.90	2.1	
LFF	18.46	306	eP	00 52.50	1.9	
MFF	19.70	310	eP	01 05.20	0.2	
	0.5s	4.35nm			4.0mb	
LDF	20.62	315	eP	01 14.20	-0.3	
	0.6s	5.40nm			4.1mb	
LPF	20.88	313	eP	01 16.20	-1.0	

```
        0.6s      5.40nm          4.1mb
FLN    20.91 315 eP     01 17.20  -0.3
        0.6s     10.80nm          4.4mb X
     Z  20s      0.05um          2.9MszX
GRR    20.94 314 eP     01 18.50   0.6
        0.6s      5.40nm          4.1mb
O8N    21.81  23 eP     01 25.00  -1.5
     Z  18s      0.10um          3.3Msz
     N  16s      0.10um
                  e      01 33.00
                  e      01 36.00
HFS    24.92 350 eP     01 50.00  -6.8X
        0.5s      2.00nm          4.0mb
EKA    25.99 327 Pc     02 06.30  -0.6
        0.6s     14.70nm          4.7mb X
NB2    26.16 348 P      02 07.60  -0.8
        0.9s      3.90nm          4.0mb
LKO    36.16 230 P      03 36.74  -0.2
YKA    75.99 341 eP     08 20.60   0.0
        0.8s      0.70nm          3.7mb
NEW    88.66 334 e(P)   09 21.70  -5.0X
        0.8s      7.08nm          5.0mb X
     S.D. = 0.9  on  57 of  65 obs.
-----------------------------------------
   JUL  21, 1991  02h 20m 36.28± 0.47s
   44.291 N ± 8.1km  114.988 W ± 6.0km
   DEPTH =   5.0km  (geophysicist)
 WESTERN IDAHO                        ( 33)
      ML 3.1 (BUT).

CPI     1.04 246 Pc      20 56.60   0.3
TID     1.04 221 P       20 56.20  -0.2
MCMT    1.62  70 ePn     21 05.90   0.1
WPI     1.62 232 P       21 05.50  -0.1
LTMT    2.08  83 ePn     21 12.90   0.4
H8MT    2.26  47 ePn     21 15.30   0.2
BGMT    2.30  65 ePn     21 15.70   0.0
LRM     2.36  49 ePn     21 16 60   0.0
PTI     2.37 126 eP      21 16.50  -0.2
BUT     2.43  44 ePg     21 18.90   1.4X
                 eSn     21 48.50
                 eSg     21 53.00
HRY     3.28  41 ePn     21 29.00  -0.5
NEW     4.24 340 e(P)    21 55.00  12.0X
     S.D. = 0.3  on  10 of  12 obs.
-----------------------------------------
   JUL  21, 1991  03h 28m 56.11± 0.27s
   49.094 N ± 6.3km  154.951 E ± 5.8km
   DEPTH =  71.6km  (  3 depth phoses)
   4.5mb ( 34 obs.)
 KURIL ISLANDS                        (221)

KUSJ    9.30 234 P       31 07.80  -1.8
                 S       32 48.60
ASAJ    9.82 244 iP+     31 21.30   4.5X
HOOJ   10.55 235 eP      31 26.20  -0.4
                 eS      33 19.40
OFUJ   13.81 229 eP      32 06.40  -3.4X
MAT    17.51 230 eP      32 56.00  -0.8
        1.0s     28.00nm          4.4mb
YAK    19.10 322 eP      33 13.20  -2.3
FBA    33.57  40 iP      35 30.00  -0.7
        1.0s      0.80nm          3.6mb
BALM   36.39  47 eP      35 55.00   0.1
                 e       36 10.00  58kmX
INK    39.01  34 eP      36 16.50  -0.1
        0.4s     10.00nm          5.1mb
MBC    41.97  21 eP      36 40.00  -0.8
YKA    48.31  38 eP      37 30.60  -0.9
        0.8s      4.20nm          4.5mb
CHG    53.87 257 eP      38 15.00   1.0
MDG    54.71 191 iPd     3B 33.70  13.6X
ORV    57.65  65 eP      38 40.50  -0.5
FFC    58.16  42 eP      38 44.00  -0.3
        0.8s      8.00nm          4.9mb
LRM    58.81  55 eP      38 49.10  -0.3
TNP    61.15  64 iP      39 05.10  -0.3
        1.0s     15.50nm          5.1mb
                 e       39 23.10  69km
BW06   62.38  56 iP      39 13.50  -0.1
        1.0s     10.00nm          4.9mb
                 e       39 33.00  75km
RSSD   64.38  52 iP      39 26.00  -0.7
        1.0s     13.56nm          4.8mb
                 e       39 44.80  71km
N82    66.40 342 P       39 36.60  -2.5X
        0.7s      1.60nm          4.1mb
HFS    66.68 340 eP     39 38.50  -2.4X
        0.4s      0.90nm          4.1mb
GOL    66.78  56 eP      39 44.00   1.8X
ANMO   69.57  60 eP      40 00.30   0.9
        1.0s      3.00nm          4.2mb
ALQ    69.57  60 eP      39 59.80   0.3
        0.9s      4.20nm          4.4mb
WR2    71.14 200 iPd     40 09.00   0.3
        0.5s      7.30nm          4.9mb
WRA    71.14 200 P       40 09.00   0.3
        0.5s      7.20nm          4.9mb
GBA    71.68 270 Pc      40 12.40   0.2
        0.7s      4.60nm          4.5mb
EKA    74.34 347 Pd      40 27.20   0.1
        0.4s      1.20nm          4.2mb
TUL    74.69  53 e(P)    40 28.60  -0.9
ASPA   74.83 200 eP      40 31.60   1.3
        0.6s     10.50nm          4.9mb
FVM    75.79  48 eP      40 35.20  -0.5
CDF    78.94 339 eP      40 52.80  -0.2
        0.5s      1.45nm          4.2mb
FLN    80.24 344 eP      40 59.70  -0.2
        0.5s      2.90nm          4.5mb
LDF    80.34 344 eP      41 00.20  -0.2
        0.4s      1.15nm          4.2mb
GRR    80.67 344 eP      41 02.20   0.0
        0.6s      5.40nm          4.7mb
LOR    80.80 341 eP      41 02.90   0.0
        0.5s      1.45nm          4.2mb
     Z  22s      0.05um          3.8Msz
LBF    81.04 340 eP      41 04.10  -0.1
        0.5s      1.45nm          4.2mb
LPF    81.05 344 eP      41 04.50   0.3
AVF    81.36 341 eP      41 05.90   0.1
        0.6s      2.70nm          4.4mb
SMF    81.39 340 eP      41 06.50   0.5
        0.8s      3.35nm          4.3mb
LPL    81.78 338 iPc     41 09.20   0.9
        0.5s      3.65nm          4.6mb
LPG    81.79 338 iPc     41 09.00   0.5
        0.5s      5.10nm          4.7mb
MAF    82.07 341 eP      41 10.30   0.8
        0.6s      3.15nm          4.4mb
TCF    82.08 341 eP      41 10.00   0.4
MFF    82.26 343 eP      41 11.10   0.6
        0.5s      2.90nm          4.5mb
RJF    83.17 341 eP      41 16.30   1.1
        0.6s      3.60nm          4.5mb
CAF    83.41 341 eP      41 17.20   0.7
        0.6s      3.15nm          4.5mb
LFF    83.68 342 eP      41 18.40   0.6
        0.6s      5.40nm          4.7mb
LRG    83.81 338 eP      41 19.00   0.5
        0.6s      5.40nm          4.7mb
     Z  22s      0.05um          3.8Msz
LPO    83.83 342 eP      41 19.30   0.7
        0.6s      3.60nm          4.6mb
     S.D. = 0.7  on  44 of  50 obs.
-----------------------------------------
   JUL  21, 1991  03h 50m 09.12± 0.51s
   42.804 N ± 7.0km  147.005 E ± 7.5km
   DEPTH =  33.0km  (normal)
   4.5mb ( 15 obs.)
 OFF COAST OF HOKKAIDO, JAPAN         (225)

KUSJ    1.71 281 iP+     50 35.90  -1.1
                 S       50 54.90
HOOJ    2.78 263 iPd     50 54.40   2.2
ASAJ    3.44 294 iP+     51 02.50   0.8
MRRJ    4.40 267 P       51 15.80   0.6
                 S       52 05.10
AOMJ    5.45 248 eP      51 30.60   0.5
OFUJ    5.49 229 P       51 30.60  -0.1
                 eS      52 30.00
YAMJ    7.04 231 eP      51 51.30  -1.2
                 eS      53 08.90
NIIJ    8.28 231 eP      52 09.40  -0.4
KAKJ    8.44 221 P       52 12.70   0.7
                 eS      53 40.00
CHJJ    9.16 225 P       52 20.80  -1.1
                 eS      53 58.60
MAT     9.22 230 eP      52 22.00  -0.8
                 (S)     54 09.00
CN2    15.72 281 eP      53 42.00  -7.7X
     Z  16s      5.80um
                 pP      53 48.40
BJI    23.22 274 eP      55 13.00  -1.0
        1.0s     11.00nm          4.3mb
TIA    23.90 264 eP      55 20.70   0.1
HHC    26.37 278 eP      55 44.00  -0.1
TIY    26.75 271 eP      55 48.70   1.2
BTO    27.56 278 eP      55 54.00  -1.0
INK    47.28  30 eP      58 41.00   0.4
YKA    56.65  33 eP      59 50.50  -0.5
        0.8s      0.90nm          3.9mb
WRA    63.52 193 P       00 40.00   1.7
        0.6s      1.80nm          4.4mb
FFC    66.52  36 eP      01 09.00  11.5X
        0.7s      6.00nm
NB2    70.45 339 P       01 20.20  -1.5
        0.7s      4.10nm          4.6mb
HFS    70.52 337 eP      01 19.80  -2.3
        0.4s      3.90nm          4.8mb
KRA    76.60 328 eP      01 56.80  -0.9
CLL    78.10 333 iPd     02 05.40  -0.6
BRG    78.15 332 e(P)    02 06.00  -0.2
EKA    79.00 343 P       02 11.00   0.2
        0.7s      1.80nm          4.2mb
KHC    79.74 331 eP      02 15.00   0.0
SKO    82.42 322 e(P)    02 29.50   0.3
CDF    82.49 334 eP      02 29.50   0.0
        0.7s      2.20nm          4.3mb
LOR    84.57 336 eP      02 40.10   0.1
        0.6s      2.70nm          4.6mb
LBF    84.78 336 eP      02 41.20   0.0
        0.5s      1.45nm          4.4mb
SSF    84.86 336 eP      02 41.70   0.2
        0.7s      2.75nm          4.6mb
SMF    85.13 336 eP      02 43.00   0.1
        0.7s      3.30nm          4.6mb
AVF    85.15 336 eP      02 43.30   0.4
        0.7s      2.75nm          4.6mb
MAF    85.90 336 eP      02 47.70   1.0
        0.9s      6.55nm          4.9mb
TCF    85.94 336 eP      02 47.50   0.5
LSF    86.18 337 eP      02 48.70   0.6
        0.7s      3.30nm          4.7mb
CAF    87.22 336 eP      02 54.50   1.3
        0.8s      3.35nm          4.6mb
     S.D. = 1.0  on  37 of  39 obs.
-----------------------------------------
?  JUL  21, 1991  04h 14m 52.13± 1.31s
   36.488 S ±32.7km   17.486 W ±14.0km
   DEPTH =  10.0km  (geophysicist)
   4.1Msz (  1 obs.)
 SOUTH ATLANTIC RIDGE                 (410)

BUL    43.30  81 iPd     22 55.50  -0.5
SIV    43.65 286 P       22 59.20   0.4
KIC    44.27  18 (P)     23 03.40  -0.2
TIC    44.47  18 (P)     23 04.60  -0.7
CCH    46.83 281 eP      23 25.00   0.5
CNCB   48.61 280 P       23 38.90   0.2
LPB    48.86 280 P       23 40.80   0.4
ZOBO   49.02 280 P       23 40.00  -1.9
     Z  19s      0.19um          4.1Msz
                 LR      38 10.00
SKO    85.81  28 e(P)    27 34.50   1.8
     S.D. = 1.2  on   9 of   9 obs.
-----------------------------------------
   JUL  21, 1991  05h 50m 48.91± 0.63s
   37.115 N ± 7.1km   20.955 E ± 4.3km
   DEPTH =  62.4 ± 11.3 km
   3.6mb (  3 obs.)
 IONIAN SEA                           (399)
      MD 4.1 (ATH).

VLS     1.10 345 iPnc    51 08.00  -0.5
VLI     1.64 103 ePn     51 17.00   1.1
ATH     2.36  68 ePn     51 27.00   1.1
KEK     2.75 341 ePn     51 32.00   0.6
KZN     3.25  11 ePn     51 40.10   1.5
LCI     3.98 325 P       51 47.90  -0.8
                 eSn     52 31.20
SOI     4.01 285 P       51 49.10   0.0
                 eSn     52 29.10
NPS     4.20 115 ePn     51 50.00  -1.8
CZI     4.34 300 P       51 55.60   1.8
                 eSn     52 40.50
VAY     4.38  16 iPn     51 54.00  -0.4
TDS     4.43 306 P       51 56.50   1.4
ATN     4.48 285 P       51 56.20   0.4
CSI     4.52 307 P       52 00.20   3.8X
ORI     4.60 311 P       51 59.30   1.9
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21d 05h

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BRT      4.76 323 P      51 59.10  -0.6
                 eSn     52 49.20
MMN      4.78 307 P      52 03.40   3.4X
MEU      4.82 272 P      52 00.40  -0.2
                 eSn     52 50.90
SKO      4.86   4 iPn    52 00.00  -1.2
                 iPg     52 10.20
                 iSn     52 42.30
                 iSb     52 51.70
MNO      5.04 281 P      52 03.90   0.0
MGR      5.19 307 P      52 05.90   0.0
                 eSn     52 58.30
GIB      5.57 281 P      52 11.70   0.4
SGO      5.59 310 P      52 11.40   0.1
                 eSn     53 06.60
USI      6.35 287 P      52 20.60  -1.4
DUI      6.78 314 P      52 28.37   0.4
RFI      6.84 310 P      52 28.54  -0.2
SDI      7.18 312 P      52 32.50  -1.1
ASS      8.70 316 P      52 54.00  -0.6
ARV      8.83 319 P      52 55.40  -1.0
VBY      9.41 335 e(Pn)  53 03.10  -1.1
CRE      9.46 316 P      53 05.00   0.0
PTJ      9.54 338 eP     53 02.40  -3.7X
SFI      9.70 317 P      53 09.00   0.8
CEY      9.91 332 e(P)   53 10.00  -1.0
                 e(S)    55 08.00
LJU     10.13 334 e(Pn)  53 13.50  -0.5
                 eSn     55 00.50
VOY     10.36 332 e(Pn)  53 15.30  -1.9
                 eSn     55 07.30
FVI     11.25 330 P      53 29.60   0.4
CTI     11.31 325 P      53 31.00   0.9
KHC     13.15 338 eP     53 56.00   1.6
                 e       54 22.50
MOX     15.09 337 eP     54 27.00   7.4X
CLL     15.28 341 eP     54 31.00   9.0X
OBN     20.92  26 eP     55 27.50  -0.6
                 e       55 33.50
                 e       03 00.00
HFS     23.50 351 eP     55 54.30   0.7
        0.5s      1.20nm          3.6mb
EKA     24.50 326 Pc     56 06.30   3.0X
        0.8s      3.60nm          3.9mb
NB2     24.73 349 P      56 06.60   1.1
        0.9s      1.50nm          3.5mb
      S.D. = 1.0  on  38 of  44 obs.
-----------------------------------------
*  JUL  21, 1991  07h 12m 19.55± 2.34s
   19.171 N ±26.0km   65.390 W ± 6.2km
   DEPTH =  33.0km  (normal)
 PUERTO RICO REGION                ( 90)

LPR      0.97 208 P      12 36.90   0.0
                 S       12 52.90
CPD      1.23 204 P      12 40.80   0.2
SJG      1.28 214 iP     12 41.00  -0.2
APR      1.46 241 P      12 43.80   0.0
CLLP     1.56 226 P      12 45.50   0.2
MGP      1.98 235 P      12 51.30  -0.1
BPA      3.97 122 eP     13 20.00   0.3
PAG      4.72 131 eP     13 30.00  -0.4
      S.D. = 0.3  on   8 of   8 obs.
-----------------------------------------
   JUL  21, 1991  10h 15m 36.02± 0.57s
   25.039 N ± 6.7km  142.691 E ±10.5km
   DEPTH =  33.0km  (normal)
   4.9mb ( 14 obs.)  4.2Msz (  4 obs.)
 VOLCANO ISLANDS REGION            (213)

IIDJ    11.19 339 P      18 17.80   1.0
KAKJ    11.34 350 eP     18 18.10  -0.6
                 eS      20 24.90
CHJJ    11.42 345 P      18 19.30  -0.6
                 S       20 26.50
TSRJ    11.96 333 eP     18 27.00  -0.1
MAT     12.09 343 eP     18 29.00   0.1
        0.8s     12.69nm          5.1mb
                 eS      20 46.00
MTMJ    12.25 341 P      18 31.40   0.3
NIIJ    12.56 346 P      18 32.80  -2.4
YAMJ    13.29 351 P      18 44.80   0.0
SSE     19.90 292 P      20 23.00  15.4X
      Z  1Bs      0.50um
      E  12s      0.30um
                 sS      24 12.00
CVP     20.74 253 eP     20 18.00   1.5
NJ2     22.05 294 eP     20 31.20   1.7
SNY     23.04 321 Pd     20 40.00   0.8
        0.9s     40.00nm          4.9mb
TIA     24.59 303 eP     20 54.70   0.4
BJI     26.77 310 eP     21 12.50  -2.1
      Z  12s      0.30um          4.1MszX
TIY     28.62 303 eP     21 31.30  -0.3
      Z  20s      0.56um          4.2Msz
      N  18s      0.66um
CD2     34.75 289 eP     22 24.70  -0.8
LZH     35.01 298 eP     22 26.50  -1.2
        1.5s     28.00nm          5.0mb
      Z  20s      0.25um          4.0Msz
KMI     36.09 279 Pd     22 38.00   0.9
GTA     38.64 302 P      22 57.90  -0.3
        0.8s     10.00nm          4.7mb
      Z  16s      0.30um          4.2MszX
      E  14s      0.30um
                  pP     23 04.20  21kmX
WR2     45.44 191 iPc    23 51.40  -2.4
        0.4s      6.80nm          4.9mb
WRA     45.44 191 P      23 51.00  -2.8
        1.1s      4.10nm          4.3mb
WMO     48.16 307 P      24 14.50  -0.6
      Z  20s      0.30um          4.3Msz
ASPA    49.16 191 eP     24 25.20   2.3
        1.0s      9.20nm          4.8mb
INK     64.71  24 eP     26 13.00   0.3
MBC     67.75  15 ePd    26 32.50   0.5
        0.7s      4.00nm          4.6mb
MAIO    70.43 302 eP     26 50.00   0.7
YKA     73.73  28 eP     27 07.50  -0.7
        0.8s      3.50nm          4.4mb
SOD     76.47 339 iP     27 25.20   1.3
OBN     78.47 326 iPd    27 35.80   0.8
        0.9s    *******nm         8.0mb X
      Z  18s      0.20um          4.5Msz
      E  18s      0.20um
                   e     27 44.00
KAF     79.52 335 iP     27 41.00   0.3
        0.8s     25.10nm          5.3mb
FFC     83.24  32 eP     28 02.00   1.7
        0.9s     11.00nm          5.0mb
HFS     85.49 337 eP     28 11.00  -0.6
        0.8s     12.20nm          5.2mb
NB2     85.68 339 P      28 12.40  -0.2
        0.9s     14.20nm          5.2mb
KSP     90.90 329 ePc    28 38.00   0.4
ALO     91.45  50 eP     28 41.30   0.6
        0.9s      1.47nm          4.4mb
KHC     93.35 329 P      28 49.50   0.5
ZOBO   149.93  79 PKP    35 26.20   5.3X
LPB    150.05  80 PKP    35 27.00   6.2X
CNCB   150.26  80 PKP    35 28.00   6.7X
      S.D. = 1.2  on  35 of  39 obs.
-----------------------------------------
%  JUL  21, 1991  11h 35m 20.68± 0.56s
   39.340 N ± 5.0km   29.011 E ± 5.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      MD 3.4 (ISK).

IZI      1.06  20 ePn    35 39.50  -1.2
KHL      1.09 158 iPn    35 40.70  -0.5
EDC      1.34 319 iPn    35 45.00  -0.3
GPA      1.38  46 iPn    35 46.60   0.7
EYL      1.51  35 iPn    35 48.50   0.6
HRT      1.56  19 ePn    35 48.50  -0.1
IZM      1.66 236 ePn    35 50.50   0.5
KGT      1.72 311 ePn    35 51.00   0.2
ISK      1.72   1 ePn    35 51.00   0.2
CTT      1.86 346 iPn    35 53.00   0.2
EZN      2.13 284 iPn    35 56.50  -0.3
YER      2.28 195 ePg    36 02.60   3.7X
      S.D. = 0.6  on  11 of  12 obs.
-----------------------------------------
*  JUL  21, 1991  12h 27m 57.53± 1.24s
   28.652 N ±19.6km   66.578 E ±10.9km
   DEPTH =  33.0km  (normal)
   4.2mb (  3 obs.)
 PAKISTAN                          (710)

QUE      1.56  12 iPd    28 23.30  -0.2
                  eS     29 00.20
NDI      9.35  87 eP     30 13.00   0.0
                  eS     31 55.00
MAIO     9.69 324 eP     30 26.00   8.2X
HFS     47.28 327 eP     36 30.50   1.2
        0.5s      1.20nm          4.2mb
SMF     51.46 308 eP     37 01.00  -0.7
        0.5s      2.20nm          4.4mb
SSF     51.67 309 eP     37 02.90  -0.3
        0.6s      1.80nm          4.2mb
AVF     51.78 309 eP     37 04.20   0.1
      S.D. = 0.8  on   6 of   7 obs.
-----------------------------------------
*  JUL  21, 1991  12h 33m 44.31± 1.80s
     5.186 S ±11.2km  102.753 E ±12.5km
   DEPTH =  97.8 ± 14.4 km
   4.9mb (  8 obs.)
 SOUTHERN SUMATERA                 (274)

KGM      7.18   5 ePd    35 28.70   0.3
IPM      9.85 350 ePc    36 05.50   0.7
TRT     10.13 105 iPc    36 08.00  -0.6
                 iS      36 40.20
KUPT    21.24 105 eP     38 23.80  -0.4
LOE     22.47 357 eP     38 36.00  -0.3
CHG     24.14 351 eP     38 52.00  -0.5
        0.9s     12.60nm          4.3mb
SHL     32.34 341 eP     40 05.00  -1.6
ASPA    35.18 125 iPc    40 31.00   0.0
        0.6s      9.40nm          4.9mb
CD2     35.90   1 eP     40 35.80  -1.1
        0.6s     20.00nm          5.2mb
PKI     36.62 334 P      40 42.42  -0.9
        0.4s     11.00nm          5.1mb
GUN     36.71 335 P      40 44.42   0.3
        0.6s     51.00nm          5.7mb X
DMN     36.79 333 P      40 44.94   0.3
KKN     36.87 334 P      40 44.42  -0.9
WHN     37.22  17 eP     40 51.50   3.6X
GKN     37.34 333 P      40 49.58   0.4
XAN     39.45   8 P      41 06.20  -0.4
LZH     41.07   1 eP     41 20.50   0.5
        1.5s     37.00nm          5.0mb
                  pP     41 33.00  46kmX
NDI     41.69 325 eP     41 25.00   0.0
TIY     43.62  11 Pc     41 41.70   1.0
      Z  20s      0.60um          4.5Msz
      N  20s      0.90um
GTA     44.46 357 P      41 48.60   1.1
        1.0s     10.00nm          4.6mb
      Z  18s      0.40um          4.4Msz
      N  18s      0.40um
                  pP     41 58.20  32kmX
                  sP     42 05.80
STK     45.00 131 iPd    41 52.70   0.9
        0.6s      4.90nm          4.5mb
HHC     46.52   9 eP     42 05.30   1.6
WMO     50.64 346 P      42 36.20   0.7
        1.0s     30.00nm          5.3mb
CN2     52.89  21 P      42 52.00  -0.3
MAT     53.12  36 eP     42 53.00  -1.1
MAIO    57.79 319 eP     43 27.00  -0.8
VRI     84.04 317 ePc    46 06.00   0.7
TUL    144.98  27 ePKP   53 12.40   0.3
        0.6s      9.40nm
                   e     53 22.90
      S.D. = 0.8  on  27 of  28 obs.
-----------------------------------------
   JUL  21, 1991  14h 20m 28.46± 0.31s
   43.226 N ± 5.4km  146.980 E ± 5.2km
   DEPTH =  57.6km  (  6 depth phases)
   4.7mb ( 44 obs.)
 KURIL ISLANDS                     (221)
      Felt (IV) on Shikotan and (III)
      at Yuzhno-Kurilsk.

KUSJ     1.67 266 iPd    20 53.80  -1.9
                  eS     21 14.70
HOOJ     2.85 254 eP     21 14.10   1.7
ASAJ     3.27 287 P      21 18.80   0.4
MRRJ     4.42 262 eP     21 35.00   0.5
                  eS     22 28.40
AOMJ     5.60 244 P      21 51.10  -0.1
OFUJ     5.76 226 P      21 52.30  -1.1
                  eS     22 55.80
YAMJ     7.30 229 P      22 14.90   0.0
NIIJ     8.54 228 P      22 31.40  -0.5
KAKJ     8.75 219 P      22 32.30  -2.6X
                  S      24 08.00
CHJJ     9.45 223 P      22 42.60  -1.8
                  S      24 25.20
```

```
MAT     9.48 228 eP    22 44.00  -1.0
       1.0s    12.00nm          4.9mb
                (S)   24 32.00
MTMJ    9.67 230 P     22 47.10  -0.5
IIDJ   10.44 225 P     22 57.80  -0.2
TSRJ   11.45 232 P     23 12.00   0.3
CN2    15.63 280 eP    24 03.20  -3.2X
     Z  22s     2.10um          4.2Msz
     N  20s     0.90um
     E  20s     1.20um
                pP    24 12.00
YAK    21.41 337 eP    25 07.60  -5.4X
                epP   25 30.00 109kmX
                ePP   25 37.00
                ePPP  25 55.00
                eS    28 59.00
                ePcP  29 19.00
                esS   29 42.00
                eSS   29 49.00
BJI    23.18 273 eP    25 30.00  -0.6
       1.3s    35.00nm          4.6mb
     Z  32s     0.46um          3.7MszX
                eS    29 32.00
SSE    23.75 248 Pc    25 36.00  -0.2
     Z  18s     0.50um          4.0Msz
     E  16s     0.50um
                pP    25 49.50  56km
                eS    29 44.00
TIA    23.93 263 eP    25 38.80   0.9
NJ2    24.80 253 Pd    25 48.00   1.7
       1.4s   100.00nm          5.1mb
     Z  18s     0.40um          4.0Msz
                pP    26 01.20  54km
HHC    26.29 277 eP    25 59.60  -0.7
       1.4s    40.00nm          4.8mb
TIY    26.73 270 eP    26 05.00   0.7
     Z  30s     0.78um          4.1MszX
                pP    26 16.50  44kmX
BTO    27.49 277 eP    26 11.00  -0.2
XAN    30.89 266 P     26 41.30  -0.3
LZH    33.67 273 Pc    27 06.00   0.1
       1.5s    48.00nm          5.2mb
     Z  18s     0.34um          4.1Msz
                pP    27 16.00  35kmX
GTA    35.26 280 eP    27 19.40  -0.1
       1.4s    10.00nm          4.6mb
     Z  18s     0.50um          4.3Msz
     E  16s     0.40um
                pP    27 30.00  37kmX
CD2    36.23 265 eP    27 27.50  -0.2
KMI    40.28 258 Pc    28 02.50   0.7
FBA    41.59  36 eP    28 11.20  -0.5
       1.0s     4.50nm          4.2mb
WMQ    42.18 292 P     28 17.00   0.1
     Z  16s     0.90um          4.7MszX
                pP    28 27.40  36kmX
                sP    28 33.00
BALM   44.45  41 eP    28 34.50  -0.7
INK    46.92  30 eP    28 53.50  -1.0
       0.5s    12.00nm          5.1mb
CHG    47.02 254 eP    28 57.00   1.1
CHTO   47.02 254 eP    28 56.00   0.1
       1.2s     7.29nm          4.5mb
GUN    50.92 274 P     29 26.34   0.0
       0.6s    61.00nm          5.8mb X
KKN    51.43 274 P     29 29.50  -0.5
PKI    51.46 274 P     29 30.60   0.2
DMN    51.66 274 P     29 32.46   0.7
GKN    51.78 274 P     29 33.00   0.4
YKA    56.31  34 eP    30 03.40  -1.7
       0.7s     2.10nm          4.3mb
KGM    56.47 236 ePd   30 09.50   2.6X
                e     30 29.00  76kmX
                e     31 37.00
NDI    56.77 280 eP    30 09.00   0.1
PNT    60.82  48 eP    30 49.00  12.3X
NEW    62.77  48 eP    30 53.00   3.1X
       1.0s     2.25nm          4.2mb
WRA    63.92 193 P     30 58.00   0.5
       1.2s     2.50nm          4.1mb
MAIO   64.65 297 eP    31 02.00  -0.4
KAF    64.73 333 iP    31 00.20  -2.1
       0.5s    10.00nm          5.1mb
OBN    65.66 324 iPd   31 06.80  -1.6
       1.8s   *******nm          8.4mb X
     Z  20s     0.30um          4.5Msz
                e     31 17.00  33kmX
                LR    19 00.00
GBA    65.93 266 Pd    31 09.10  -1.5
       0.8s    14.90nm          5.0mb
FFC    66.20  36 eP    31 11.00  -0.9
       0.5s     5.00nm          4.8mb
LRM    66.79  48 eP    31 16.00  -0.2
TNP    68.85  57 eP    31 29.50   0.4
       1.0s     9.75nm          4.7mb
NB2    70.05 339 P     31 34.00  -1.8
       0.8s    25.90nm          5.2mb
HFS    70.13 337 eP    31 34.00  -2.2
       0.6s    24.90nm          5.3mb
BW06   70.34  49 eP    31 40.00   1.9
       1.0s     2.50nm          4.1mb
RSSD   72.41  46 eP    31 51.00   0.5
       1.0s    10.85nm          4.7mb
KRA    76.24 328 iPd   32 11.20  -0.9
       1.0s    37.00nm          5.3mb
VRI    76.65 322 ePd   32 14.00  -0.5
SPC    76.81 327 eP    32 15.70   0.1
                e     41 13.30
KSP    76.96 330 ePc   32 15.60  -0.5
CLL    77.72 332 iP    32 19.80  -0.5
       1.2s    29.00nm          5.2mb
                i     32 36.00  58km
BRG    77.77 332 eP    32 20.20  -0.3
       1.2s    11.00nm          4.7mb
PRU    78.30 331 Pc    32 23.00  -0.5
       1.3s    10.50nm          4.7mb
EKA    78.59 343 Pc    32 24.20  -0.8
       0.6s     4.60nm          4.6mb
SRO    78.68 328 iP    32 25.90   0.3
MOX    78.75 333 eP    32 25.50  -0.5
       1.6s    18.00nm          4.8mb
                e     32 42.00  59km
ZST    78.84 328 eP    32 28.00   1.6
WTS    79.09 336 eP    32 28.00   0.3
KHC    79.36 331 iPc   32 29.10  -0.2
       1.0s     7.90nm          4.6mb
                e     32 45.50  59km
GRF    79.70 333 ePc   32 31.30   0.2
       1.1s    19.00nm          4.9mb
     Z  20s     0.10um          4.2Msz
                epP   32 48.10  60km
                esP   32 57.70
ENN    80.44 336 eP    32 34.50  -0.5
       0.8s     6.00nm          4.6mb
MEM    80.55 336 iPc   32 35.10  -0.5
DMU    80.70 345 eP    32 36.40   0.1
DLF    81.19 344 eP    32 39.10   0.2
DCN    81.29 345 eP    32 39.60   0.2
HRI    81.33 308 eP    32 41.00   0.9
WTTA   81.63 331 eP    32 41.00  -0.6
       0.5s     3.80nm          4.6mb
                i     32 42.10   4kmX
SKO    82.08 322 iPc   32 44.00   0.3
VAY    82.08 321 iP    32 44.00   0.2
CDF    82.10 334 eP    32 43.90   0.0
       1.0s     8.00nm          4.7mb
MML    82.12 307 iPd   32 45.80   1.6
ECB    82.12 344 eP    32 43.90   0.1
ECP    82.22 344 eP    32 44.40   0.2
BSF    82.77 334 eP    32 47.30  -0.1
       1.0s     6.00nm          4.5mb
FLN    84.04 339 eP    32 53.80   0.1
LOR    84.17 336 eP    32 54.20  -0.2
       0.7s     4.95nm          4.7mb
MBH    84.38 306 eP    32 57.00   1.2
LBF    84.39 336 eP    32 55.30  -0.3
       0.7s     4.40nm          4.6mb
SSF    84.47 336 eP    32 55.80  -0.1
       0.7s     3.30nm          4.5mb
GRR    84.48 339 eP    32 56.30   0.4
       1.0s    12.00nm          4.9mb
SMF    84.74 335 eP    32 57.60   0.3
       0.9s     9.85nm          4.9mb
AVF    84.76 336 eP    32 57.70   0.4
       0.7s     4.40nm          4.7mb
LPL    84.83 333 eP    32 58.70   0.7
       0.7s     2.20nm          4.4mb
LPG    84.84 333 eP    32 59.90   1.8
       0.7s     3.30nm          4.5mb
LPF    84.85 339 eP    32 58.30   0.5
MAF    85.50 336 eP    33 02.00   0.9
       1.0s    17.00nm          5.1mb
TCF    85.55 336 eP    33 01.80   0.5
       1.0s     6.00nm          4.7mb
LSF    85.78 337 eP    33 03.00   0.5
       1.0s    18.00nm          5.2mb
MFF    85.93 338 eP    33 04.00   0.8
RJF    86.64 336 eP    33 07.50   0.8
CAF    86.83 336 eP    33 08.90   1.2
       1.2s    20.85nm          5.2mb
SIV   143.83  50 PKP   39 58.40  -0.6
NVL   144.65 204 PKPc  40 01.00   2.2
SOB1  145.42  14 (PKP) 40 09.00   7.2X
     S.D. = 0.9  on  97 of 104 obs.
-----------------------------------------
   JUL  21, 1991  14h 28m 20.37± 0.43s
    5.217 S ± 7.9km  102.645 E ± 8.4km
   DEPTH.=  42.1km  (  4 depth phases)
   5.1mb ( 18 obs.)  4.5Msz (  7 obs.)
 SOUTHERN SUMATERA                (274)

IPM     9.86 351 ePc   30 47.40   4.7X
TRT    10.23 104 ePc   30 48.40   0.7
       0.7s    72.90nm          6.0mb
TSM    17.91  58 ePc   32 33.50   5.4X
KHT    20.27 349 eP    32 55.00  -0.3
NST    20.90 353 eP    33 01.50  -0.2
KUPT   21.34 105 eP    33 07.00   0.9
                eS    33 45.00
PPR    21.88  47 ePc   33 17.00   5.4X
LOE    22.50 358 eP    33 17.50  -0.2
BDT    22.61 351 eP    33 17.90  -0.8
CHG    24.16 351 ePc   33 34.00   0.1
       0.8s    19.22nm          4.7mb
OIZ    25.11  16 P     33 46.00   3.0X
KMI    30.16   0 eP    34 30.00   0.9
                pP    34 38.00  28kmX
SHL    32.34 342 iP    34 47.00  -1.2
WRA    34.13 118 P     35 21.00  17.3X
       0.5s     9.60nm
WR2    34.15 118 iPc   35 03.40  -0.5
       0.3s     7.90nm          5.1mb
ASPA   35.25 124 iPc   35 13.20  -0.1
       1.0s    14.40nm          4.9mb
     Z  19s     0.40um          4.2Msz
                eS    41 01.70
CD2    35.94   2 eP   35 17.80  -1.2
LSA    36.43 343 P     35 21.80  -1.8
PKI    36.60 334 P     35 25.20   0.3
       0.6s    19.00nm          5.2mb
GUN    36.69 335 P     35 25.68  -0.1
       0.6s    72.00nm          5.8mb
DMN    36.77 333 P     35 26.62   0.4
KKN    36.85 334 P     35 27.12   0.3
       0.6s    42.00nm          5.5mb
WHN    37.28  17 eP    35 31.50   1.3
GKN    37.32 333 P     35 30.98   0.2
       0.5s    34.00nm          5.5mb
QIS    38.99 116 eP    35 44.00  -0.7
NJ2    40.15  22 eP    35 55.00   0.9
     Z  22s     0.30um          4.1Msz
LZH    41.10   1 eP    36 02.00  -0.1
       1.5s    70.00nm          5.2mb
     Z  20s     0.40um          4.3Msz
     N  12s     0.34um
                pP    36 15.00  49km
NDI    41.66 325 iPc   36 07.00   0.5
       1.0s    50.00nm          5.2mb
TIY    43.67  11 iPd   36 23.50   0.6
     Z  20s     0.70um          4.6Msz
     N  20s     1.14um
                S     42 50.00
GTA    44.48 357 Pc    36 30.20   0.7
       1.0s    30.00nm          5.1mb
     Z  20s     0.90um          4.7Msz
     N  13s     0.40um
                pP    36 41.00  37km
CTAO   44.88 113 iPd   36 34.00   1.1
       1.3s    19.72nm          4.8mb
                ipP   36 46.50  46km
STK    45.06 131 iPd   36 34.90   0.7
       0.5s     5.50nm          4.7mb
BTO    46.09   8 eP    36 43.00   0.7
HHC    46.57   9 eP    36 47.70   1.7
       1.2s    40.00nm          5.2mb
BJI    46.73  14 eP    36 47.50   0.4
       1.0s    13.00nm          4.8mb
     Z  20s     0.60um          4.5Msz
QUE    49.07 318 eP    37 05.30  -0.6
WMQ    50.64 346 P     37 18.10   0.6
       1.0s    50.00nm          5.5mb
```

21d 14h

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     Z  16s      0.90um             4.9MszX
                  pP     37 25.00   23kmX
                  sP     37 31.20
CN2     52.95  21 iPd    37 34.20   -0.7
     Z  24s      0.40um             4.4MszX
                  pP     37 45.00   37km
                  eS     45 05.00
MAT     53.21  36 eP     37 35.00   -1.9
HNR     56.94  98 eP     38 03.00   -1.3
IRK     57.28   1 ePc    38 06.30    0.2
                  e      38 24.30   69kmX
MAIO    57.74 319 iPc    38 08.80   -0.9
YAK     70.21  13 iPc    39 29.30   -1.4
VRI     83.99 317 ePc    40 47.50   -0.2
MLR     84.44 317 ePc    40 50.00   -0.1
KAF     88.23 333 iP     41 09.00    0.8
        0.6s     3.90nm             4.9mb
KRA     89.29 320 eP     41 14.50    1.1
ZST     90.88 318 eP     41 23.20    2.3
KSP     91.70 321 eP     41 26.30    1.7
HFS     93.96 330 eP     41 34.70   -0.1
        0.4s     0.60nm             4.4mb
IFR    107 67 303 iPKPd  46 30.00  -15.4X
YKA    116.62  18 ePKP   46 59.70   -1.6
        1.0s     0.80nm
RSSD   134.71  27 ePKP   47 36.80    0.0
        1.0s     5.42nm
MEO    144.63  31 iPKPc  47 53.20   -1.5
TUL    145.06  27 ePKPd  47 54.20   -1.1
        0.6s    15.70nm
     Z  22s      0.52um             5.3Msz
     N  22s      0.24um
     E  20s      0.34um
                  LR     07 21.00
FVM    145.28  18 iPKP   47 54.80   -0.9
VVO    145.56  27 ePKPd  47 56.50    0.3
     S.D. = 1.0  on  51 of  57 obs.
-----------------------------------------
   JUL  21, 1991  14h 38m 47.70± 0.20s
    8.099 N ± 4.4km   37.982 W ± 4.4km
   DEPTH =  10.0km  (geophysicist)
   4.9mb ( 45 obs.)  4.5Msz (  6 obs.)
 CENTRAL MID-ATLANTIC RIDGE       (406)

SOB1    17.44 190 eP     42 52.00   -0.8
                  e      42 56.00
                  e      43 04.80
BAO     25.58 203 ePc    44 20.50    1.6
LKO     32.04  85 P      45 15.68   -1.3
SIV     33.10 224 P      45 26.60    0.4
TIO     36.58  47 iP     45 57.50    1.5
AVE     37.77  44 iP     46 07.00    1.2
ZOBO    38.42 231 P      46 12.30    0.2
        1.2s    31.08nm             4.9mb
                  S      52 16.00
                  LR     57 18.00
LPB     38.56 231 P      46 15.00    1.9
     Z  20s      1.42um             4.8Msz
                  LR     58 06.00
CNCB    38.64 230 P      46 15.20    1.3
EPF     48.33  37 eP     47 33.20    1.7
        1.0s    15.00nm             5.0mb
VAL     49.27  22 eP     47 39.00    0.6
LFF     49.67  36 eP     47 42.40    0.8
        1.0s    16.00nm             5.0mb
LPO     49.78  36 eP     47 43.10    0.6
        0.8s    13.45nm             5.0mb
MFF     50.17  33 eP     47 46.10    0.7
RJF     50.33  36 eP     47 46.90    0.2
        0.9s     6.55nm             4.6mb
     Z  22s      0.75um             4.7Msz
CAF     50.43  36 eP     47 48.10    0.6
        0.8s    13.45nm             4.9mb
LPF     50.58  31 eP     47 49.20    0.6
        1.0s    32.00nm             5.2mb
LSF     50.88  35 eP     47 51.50    0.6
        1.0s     9.00nm             4.7mb
GRR     50.91  31 eP     47 51.30    0.3
ECB     50.96  24 eP     47 51.00   -0.3
ECP     50.99  25 eP     47 51.30   -0.2
        1.1s    86.00nm             5.6mb
TCF     51.29  35 eP     47 54.50    0.5
        1.0s    10.00nm             4.7mb
LBL     51.30  37 P      47 54.86    0.7
FLN     51.34  31 eP     47 54.50    0.2
        1.0s    12.00nm             4.8mb
     Z  22s      0.60um             4.6Msz
```

```
LDF     51.42  31 eP     47 55.10    0.2
ETA     51.44  24 eP     47 55.00    0.0
PYM     51.45  36 P      47 55.84    0.5
MAF     51.46  35 eP     47 55.90    0.6
        1.0s     8.00nm             4.6mb
DCN     51.50  23 eP     47 55.60    0.1
AGO     51.69  36 P      47 57.37    0.3
DLF     51.76  24 eP     47 57.60    0.2
BGF     51.81  35 eP     47 58.50    0.6
        1.0s    28.00nm             5.1mb
PLDF    51.92  36 P      47 58.87    0.0
DMU     52.07  23 eP     47 59.90    0.1
SSB     52.10  37 P      48 01.39    1.2
AVF     52.23  35 eP     48 01.50    0.4
        1.0s    10.00nm             4.7mb
SMF     52.42  35 eP     48 02.90    0.3
        1.0s     6.00nm             4.5mb
SSF     52.47  35 eP     48 03.00    0.1
        1.0s     8.00nm             4.6mb
LBF     52.69  35 eP     48 04.70    0.1
        1.0s    12.00nm             4.8mb
LOR     52.78  35 eP     48 05.20   -0.1
        1.0s    14.00nm             4.8mb
     Z  22s      0.50um             4.5Msz
LPL     53.54  38 eP     48 12.00    0.9
        1.0s     6.00nm             4.5mb
LPG     53.54  38 eP     48 12.20    1.0
        1.0s     7.00nm             4.6mb
HAU     54.60  35 eP     48 18.70    0.1
        1.0s    12.00nm             4.9mb
     Z  22s      0.28um             4.3Msz
EKA     54.60  24 Pc     48 17.80   -0.6
        1.0s     5.40nm             4.5mb
BSF     54.76  36 eP     48 20.00    0.1
        1.0s    16.00nm             5.0mb
SNF     54.86  32 P      48 20.30   -0.1
                  ec     48 28.00
CDF     55.34  35 eP     48 23.90   -0.2
        1.0s     8.00nm             4.7mb
WLF     55.38  33 P      48 24.00   -0.2
MEM     55.82  32 iPc    48 27.50    0.2
ENN     55.87  32 eP     48 27.50   -0.2
        0.9s     7.00nm             4.7mb
BNS     56.64  32 iPc    48 33.80    0.5
WTS     57.01  31 eP     48 36.00    0.1
        1.0s    17.00nm             5.0mb
WTTA    57.36  38 eP     48 37.00   -1.7
        0.9s     9.20nm             4.8mb
                  ic     48 37.80
GRF     58.23  35 iPd    48 44.20   -0.3
        1.1s    24.00nm             5.2mb
     Z  20s      0.20um             4.2Msz
                  e      48 52.30
                  e      48 58.30
                  eS     56 52.40
VOY     58.25  40 eP     48 44.70   -0.1
CEY     58.47  41 eP     48 45.00   -1.3
LJU     58.66  40 eP     48 47.00   -0.6
MOX     58.90  34 iPc    48 49.30    0.1
        1.4s    18.00nm             5.0mb
VBY     58.92  41 eP     48 49.40    0.0
AKU     59.14   9 iP     48 52.10    1.5
        0.9s    16.81nm             5.2mb
KHC     59.34  37 iPc    48 52.00   -0.4
        1.1s     6.30nm             4.7mb
                  e      49 08.50
CLL     59.99  34 eP     48 56.00   -0.7
PRU     60.28  36 P      48 58.00   -0.7
                  e      49 06.40
                  e      49 12.40
BRG     60.32  35 eP     48 59.00    0.0
        1.2s    11.00nm             4.9mb
                  e      49 06.40
                  e      49 22.80
ZST     61.11  39 eP     49 03.00   -1.3
                  e      06 12.40
KSP     61.66  36 eP     49 07.80   -0.3
SRO     61.72  40 iP     49 08.50    0.0
WIN     61.93 121 iPd    49 10.50   -0.1
        0.8s     7.46nm             4.9mb
SKO     62.04  47 eP     49 10.20   -0.6
VAY     62.70  48 eP     49 15.00   -0.1
SPC     63.40  39 eP     49 19.30   -0.6
KRA     63.52  38 eP     49 19.70   -0.7
        1.0s    25.00nm             5.4mb
                  e      49 28.10
NB2     64.08  24 P      49 23.40   -0.6
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        1.0s    18.30nm             5.2mb
HFS     64.63  26 eP     49 26.70   -0.8
        0.9s    21.10nm             5.3mb
MLR     66.07  44 ePc    49 36.50   -0.7
RSSD    67.26 314 eP     49 44.00   -1.0
        1.0s     8.13nm             4.9mb
GOL     67.50 310 ePd    49 46.00   -0.6
ALQ     67.77 304 eP     49 46.50   -1.9
        1.5s     9.72nm             4.8mb
ANMO    67.77 304 ePd    49 47.00   -1.4
FFC     68.54 326 eP     49 51.50   -1.0
        1.1s    35.00nm             5.5mb
BW06    71.03 312 ePd    50 07.50   -0.7
BUL     71.24 114 eP     50 08.40   -1.3
FRS     71.47 125 iPc    50 09.20   -1.6
        0.9s     8.40nm             4.9mb
BLF     71.95 124 eP     50 13.00   -0.9
SEK     72.88 123 eP     50 09.50   -9.9X
SES     73.01 320 eP     50 19.00   -0.6
GLA     74.62 302 eP     50 40.00   10.7X
TPC     75.64 303 eP     50 36.00    0.8
BAR     76.17 302 eP     50 46.00    7.8X
GSC     76.26 304 eP     50 39.00    0.3
PLM     76.32 302 eP     50 40.00    0.8
TNP     76.59 307 iP     50 41.00    0.3
        1.0s    18.00nm             5.1mb
YKA     76.68 332 eP     50 38.00   -2.4
        1.1s     6.30nm             4.6mb
RVR     76.74 303 eP     50 40.00   -1.3
NEW     76.77 318 eP     50 40.60   -0.7
        1.0s     4.25nm             4.5mb
CLC     76.90 305 eP     50 43.00    0.7
SBB     77.10 304 eP     50 44.00    0.6
CWC     77.29 305 eP     50 45.00    0.5
ISA     77.62 305 eP     50 47.00    0.8
PNT     78.46 319 eP     50 50.00   -0.5
MBC     80.13 346 eP     51 00.00    1.0
        1.0s     7.00nm             4.6mb
SNA     81.90 168 iPc    51 09.00    0.7
        1.0s    42.00nm             5.5mb
INK     84.58 338 eP     51 22.00   -0.2
NVL     85.43 165 P      51 27.00    0.7
WRA    166.07 149 PKP    58 54.00   -0.8
        1.0s     2.30nm
     S.D. = 0.8  on 102 of 105 obs.
-----------------------------------------
   JUL  21, 1991  15h 03m 56.78± 0.35s
   39.595 N ± 3.7km   20.989 E ± 2.3km
   DEPTH =  27.4 ±  3.4 km
   4.1mb (  9 obs.)
 GREECE-ALBANIA BORDER REGION     (392)
      ML 4.4 (ATH), 4.0 (TTG).

IGT      0.51 263 iPc    04 05.14   -2.1
                  eS     04 11.34
KEK      0.93 278 iPc    04 03.00  -10.9X
KZN      0.93  40 iPc    04 12.70   -1.3
AGG      1.19 118 ePc    04 16.34   -1.3
                  eS     04 32.30
FNA      1.22  14 iPc    04 18.50    0.3
                  eS     04 35.54
LIT      1.26  66 ePc    04 17.82   -0.9
                  eS     04 36.66
VLS      1.45 193 eP     04 22.60    1.2
                  eS     04 45.00
GRG      1.74  38 ePd    04 26.38    0.8
                  eS     04 48.38
THE      1.84  55 ePc    04 27.50    0.6
PAIG     2.10  80 ePd    04 29.94   -0.9
VAY      2.10  34 iPn    04 31.00    0.2
                  iSn    05 02.40
KNT      2.14  42 ePc    04 31.66    0.3
SOH      2.19  55 iPc    04 32.98    0.9
                  eS     05 00.22
SKO      2.40   8 ePn    04 36.00    1.0
                  iPb    04 38.80
                  i      04 44.00
                  i      05 07.50
                  iSg    05 11.20
OUR      2.42  71 ePc    04 34.98   -0.3
LCI      2.45 289 P      04 34.90   -0.8
                  eSn    05 09.40
SRS      2.50  52 iPc    04 36.14   -0.4
ATH      2.68 126 iPd    04 42.00    3.0X
ULC      2.71 331 iPnc   04 40.60    1.2
                  iSn    05 22.08
PVY      3.09 346 iPnd   04 48.05    3.0X
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                iSn   05 34.43
TTG     3.12 336 iPnd 04 46.40   1.2
                iSn   05 32.33
BDV     3.15 329 iPnd 04 46.32   0.7
                iSn   05 31.03
BRT     3.17 295 P    04 47.00   1.0
VLI     3.26 151 iPd  04 48.50   1.3
IVA     3.38 346 iPnd 04 51.78   2.8X
                iSn   05 41.60
ROI     3.42 271 P    04 50.10   0.6
HCY     3.42 327 iPnd 04 49.45   0.0
                iSn   05 36.83
BAI     3.50 297 P    04 50.50  -0.2
ORI     3.53 279 P    04 50.00  -1.1
NKY     3.55 336 iPnd 04 52.22   0.7
                iSn   05 42.23
TDS     3.59 272 P    04 53.10   1.1
                eSn   05 35.20
CSI     3.63 274 P    04 52.90   0.3
GRI     3.63 259 P    04 52.88   0.3
CZI     3.78 266 P    04 55.60   1.0
                eSn   05 42.60
BRY     3.78 332 iPnd 04 54.70  -0.1
                iSn   05 46.60
RDO     3.80  65 eP   04 54.00  -0.9
MMN     3.86 276 P    04 58.60   2.8X
                eSn   05 52.50
PLE     3.92 343 iPnd 04 58.67   2.0
                iSn   05 52.63
ALN     4.08  70 ePd  04 57.66  -1.3
PRK     4.11  93 eP   05 01.50   2.2
EZN     4.12  85 iPn  04 59.50   0.0
SOI     4.14 250 P    04 59.30  -0.5
MGR     4.22 279 P    05 01.90   1.1
GMB     4.25 252 P    05 01.84   0.5
SGO     4.46 284 P    05 05.00   0.7
ATN     4.54 253 P    05 05.00  -0.5
                eSn   05 58.10
KGT     4.92  78 ePn  05 11.00   0.2
HVAR    4.95 318 ePn  05 10.00  -1.2
                iSn   06 12.50
BEO     5.24 356 eP   05 15.00  -0.2
MEU     5.37 244 P    05 15.10  -2.2
                eSn   06 16.80
DUI     5.38 295 P    05 18.20   0.8
RFI     5.61 290 P    05 22.05   1.5
NPS     5.68 138 eP   05 27.00   5.5X
SDI     5.85 293 P    05 25.00   1.0
AQU     6.37 298 P    05 31.80   0.5
CMP     6.41  27 ePd  05 33.00   1.2
RMP     6.67 292 P    05 36.00   0.4
MNS     6.88 297 P    05 38.80   0.4
ISR     6.90  35 eP   05 40.00   1.3
MLR     6.93  30 ePd  05 39.50   0.2
ASS     7.16 302 P    05 42.90   0.4
ARV     7.18 305 P    05 41.40  -1.3
ZAG     7.23 331 eP   05 46.00   2.8X
VBY     7.26 326 ePn  05 42.50  -1.2
                e(Sn) 07 06.60
PTJ     7.31 331 e(P) 05 42.10  -2.3X
RIY     7.54 322 eP   05 45.70  -1.8
VRI     7.56  32 ePd  05 48.00   0.1
CEY     7.81 324 ePn  05 49.80  -1.7
CRE     7.88 304 P    05 52.40  -0.1
LJU     8.00 326 ePn  05 51.50  -2.6X
                e(Sn) 07 28.00
SFI     8.08 305 P    05 55.00  -0.2
PGD     8.14 305 P    05 56.70   0.5
VOY     8.28 323 ePnc 05 55.90  -2.1
                eSn   07 27.50
PSZ     8.36 355 eP   06 02.10   3.0X
SRO     8.44 348 eP   06 02.60   2.5X
FVI     9.21 322 P    06 10.50  -0.3
CTI     9.41 316 P    06 11.30  -2.4X
                eSn   07 55.00
WTTA   10.24 321 eP   06 22.00  -3.2X
      1.2s    22.00nm          5.3mb X
                i     06 24.40
                i     08 24.10
                i     08 29.90
KHC    10.90 333 iP   06 37.30   3.3X
                e     06 50.00
                e     10 32.00
LPL    12.06 304 eP   06 49.30  -0.6
      0.5s     2.20nm          4.6mb
MOX    12.87 332 eP   07 05.00   4.6X
CLL    12.98 337 e(P) 07 12.00  10.1X
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      1.6s     19.00nm
BSF    13.15 313 eP    07 00.50  -3.8X
SMF    14.35 305 eP    07 20.00  -0.1
      0.7s     4.40nm          4.2mb
AVF    14.72 305 eP    07 26.40   1.6
      0.6s     1.80nm          3.7mb
SSF    14.73 306 eP    07 31.50   6.5X
      0.6s     1.80nm          3.7mb
HFS    21.07 350 eP    08 38.20  -2.6
      0.7s     7.30nm          4.2mb
NB2    22.31 347 P     08 52.50  -0.9
      0.7s     5.50nm          4.1mb
EKA    22.51 322 Pd    08 55.00  -0.3
      0.9s     5.50nm          4.0mb
KAF    22.78   6 eP    08 58.10   0.2
LKO    38.17 226 P     11 15.34  -0.4
      0.8s     3.50nm          4.3mb
YKA    72.19 340 eP    15 20.30  -0.3
      0.6s     0.60nm          3.8mb
     S.D. = 1.1  on  74 of  92 obs.
-----------------------------------
&  JUL  21, 1991  15h 20m 36.71s
   62.914 N          149.610 W
   DEPTH =  84.9km
 CENTRAL ALASKA                  (  1)
      <AEIC>.

HUR     0.07 349 ePc    20 48.77   1.6
                eS      20 58.17
CUT     0.60 211 iPc    20 51.78  -0.1
                eS      21 03.10
RND     0.60  34 iPd    20 51.74  -0.4
                eS      21 03.23
TRF     0.62 331 ePd    20 52.29  -0.1
KTH     0.87 318 ePd    20 54.88  -0.1
                eS      21 08.71
MCK     0.88  20 ePd    20 54.72  -0.2
                S       21 08.28
GHO     1.19 164 iPc    20 58.68  -0.1
                S       21 15.94
PWA     1.27 186 ePc    20 59.75   0.1
SKT     1.29 224 iPd    20 59.60  -0.4
                S       21 17.27
PLRM    1.35 170 eP     21 00.30  -0.3
                eS      21 19.52
SUA     1.55 201 ePc    21 03.57   0.2
KNK     1.60 160 eP     21 03.68  -0.3
PMS     1.68 179 eP     21 04.96   0.0
NEA     1.69   8 eP     21 04.09  -1.0
WRH     1.70  23 iPd    21 04.47  -0.8
TOA     1.79 115 eP     21 06.45  -0.1
PAX     1.89  86 ePc    21 07.74  -0.2
SDG     1.91 100 ePc    21 08.11   0.0
                S       21 32.09
CCB     1.92  24 iPd    21 07.10  -1.0
NCG     1.93 219 eP     21 08.01  -0.5
CGLM    1.97 216 eP     21 08.92   0.0
SPU     2.09 215 ePc    21 10.36  -0.1
BGL     2.11 220 eP     21 11.47   0.6
MDM     2.14  16 ePd    21 10.41  -0.8
CKL     2.15 218 eP     21 11.54   0.1
FBA     2.15  21 ePd    21 10.42  -0.9
                S       21 35.63
KLU     2.24 128 eP     21 11.35  -1.3
VZW     2.36 141 eP     21 12.82  -1.4
GLI     2.36 149 ePc    21 12.54  -1.7
VLZ     2.36 138 eP     21 12.43  -1.8
SLKM    2.43 187 eP     21 15.34   0.1
RDT     2.70 211 eP     21 19.23   0.3
KNIM    2.73 160 eP     21 17.52  -1.7
DFR     2.75 213 eP     21 20.43   0.8
SEW     2.82 178 eP     21 19.95  -0.5
LTI     3.00 163 eP     21 21.39  -1.6
GLB     3.09 116 ePc    21 23.12  -1.2
TGL     3.88 121 eP     21 33.29  -1.9
      38 obs. associoted
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&  JUL  21, 1991  16h 07m 09.51s
   56.327 N          155.892 W
   DEPTH =  91.9km
   3.4mb (  1 obs.)
 ALASKA PENINSULA                ( 12)
      <AEIC>.

KDC     2.34  51 eP     07 44.61  -2.2
                eS      08 13.28
SDN     2.78 251 eP     07 50.99  -1.8
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CDD     2.88  24 eP     07 52.46  -1.8
SYI     2.97  38 eP     07 53.27  -2.2
MCNL    2.99  16 eP     07 53.73  -2.0
AUH     3.31  22 eP     07 58.38  -1.9
AUE     3.33  23 eP     07 58.63  -1.7
PDB     3.59  14 eP     08 00.85  -3.1
                S       08 41.00
IVS     3.98  21 eP     08 07.73  -1.9
CNPM    4.06  36 eP     08 08.02  -2.4
                eS      08 54.74
RED     4.42  21 eP     08 13.58  -2.0
                S       09 01.81
NNL     4.45  31 eP     08 13.86  -2.0
RSO     4.46  20 eP     08 14.16  -2.1
RDW     4.47  20 eP     08 13.92  -2.5
REF     4.50  21 eP     08 13.02  -3.7
                eS      09 05.52
RDN     4.51  20 eP     08 14.00  -2.9
NCT     4.52  19 eP     08 14.07  -2.9
DFR     4.60  20 eP     08 15.19  -2.8
RDT     4.64  22 eP     08 15.85  -2.7
SEW     5.09  39 eP     08 20.87  -3.9
SLKM    5.14  33 eP     08 21.86  -3.7
CKL     5.22  19 eP     08 24.06  -2.7
SPU     5.26  21 eP     08 24.16  -3.1
CGLM    5.39  20 eP     08 24.67  -4.3
NCG     5.45  19 eP     08 26.83  -3.0
LTI     5.65  45 eP     08 29.34  -3.2
MTU     5.70  47 eP     08 30.76  -2.5
KNIM    5.89  43 eP     08 32.16  -3.7
PMS     5.93  31 eP     08 32.91  -3.5
KNK     6.39  34 eP     08 40.06  -2.7
VZW     6.79  42 eP     08 44.38  -4.0
VLZ     6.92  42 eP     08 46.04  -4.0
KLU     7.31  41 eP     08 51.73  -3.7
TGL     8.14  52 eP     09 04.15  -2.7
BALM    8.48  51 eP     09 08.48  -3.1
YKA    21.58  56 eP     11 54.00   1.4
      0.4s     0.70nm          3.4mb
      36 obs. associated
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?  JUL  21, 1991  16h 11m 35.53± 1.72s
    4.573 S ±14.9km  133.438 E ±25.8km
   DEPTH =  33.0km  (normal)
   4.6mb (  1 obs.)
 WEST IRIAN REGION                (196)

MTN     8.53 195 iPc    13 40.50   0.7
                eS      15 19.50
KNA    12.02 202 eP     14 26.70  -0.8
                eS      16 41.00
WR2    15.31 177 iPd    15 03.70  -7.3X
      0.3s    96.30nm          5.5mb X
                e       15 08.20
                iS      17 58.90
QIS    16.98 160 eP     15 32.00  -0.3
                i       15 38.00
                eS      18 39.00
ASPA   18.99 179 eP     15 57.50   0.4
      0.6s    25.70nm          4.6mb
                eS      19 24.70
CTA    19.84 142 eP     16 11.00   4.3X
                e       32 00.00
WARB   22.45 196 eP     16 37.00   3.8X
CHG    41.16 305 eP     19 18.80   0.0
     S.D. = 0.8  on   5 of   8 obs.
-----------------------------------
%  JUL  21, 1991  16h 42m 23.86± 0.75s
   42.797 N ± 6.3km   12.911 E ±10.9km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                    (381)

ASS     0.33 326 P      42 30.90   0.2
                eSg     42 36.90
MNS     0.45 203 P      42 32.60  -0.4
                eSg     42 39.00
AOU     0.57 141 P      42 34.50  -1.0
ARV     0.70   2 P      42 37.40  -0.3
                eSg     42 49.50
CRE     1.09 320 P      42 44.50   0.1
SDI     1.28 148 P      42 49.00   1.3
     S.D. = 1.0  on   6 of   6 obs.
-----------------------------------
*  JUL  21, 1991  17h 02m 49.06± 1.20s
   43.217 N ± 8.8km  147.598 E ±13.9km
   DEPTH =  33.0km  (normal)
   4.9mb (  3 obs.)
```

21d 17h

KURIL ISLANDS (221)

KUSJ	2.12	268	iPd	03 20.80	-2.0
			eS	03 40.20	
HOOJ	3.28	257	eP	03 41.10	1.8
			eS	04 14.20	
ASAJ	3.71	286	eP	03 46.00	0.6
MRRJ	4.87	263	eP	04 01.80	0.0
			eS	04 56.60	
AOMJ	6.01	246	P	04 18 10	0.1
			eS	05 21.50	
OFUJ	6.09	229	P	04 19.30	0.2
			eS	05 22.00	
YAMJ	7.64	231	P	04 40.60	-0.2
NIIJ	8.88	231	iP	04 58.40	0.4
KAKJ	9.04	222	P	05 00.30	0.1
			S	06 34.30	
CHJJ	9.76	226	P	05 09.40	-0.7
			eS	06 51.60	
MAT	9.82	230	eP	05 11.00	0.0
	0.5s		8.45nm	5.2mb	
			(S)	06 59.00	
TSRJ	11.81	233	P	05 38.50	0.4
NJ2	25.22	253	Pc	08 17.00	3.7X
XAN	31.34	266	eP	09 06.90	-1.7
GTA	35.71	281	eP	09 47.60	1.1
WMQ	42.60	292	eP	10 43.00	-0.6
YKA	56.06	34	eP	12 45.20	18.5X
	0.6s		0.50nm		
GBA	66.38	267	Pd	13 36.90	-0.1
	0.7s		5.70nm	4.8mb	
NB2	70.22	339	P	14 00.80	0.5
	0.8s		0.50nm	3.6mb	X
HFS	70.31	337	eP	14 00.70	-0.1
	0.7s		6.10nm	4.8mb	

S.D. = 0.9 on 18 of 20 obs.

& JUL 21, 1991 17h 30m 26.60s
60.364 N 152.446 W
DEPTH = 95.8km
SOUTHERN ALASKA (2)
<AEIC>.

RED	0.17	289	iPc	30 39.75	0.8
			eS	30 50.16	
REF	0.18	315	ePc	30 39.99	0.9
RSO	0.18	303	iPc	30 40.18	1.1
RDT	0.21	5	iPc	30 39.97	1.0
			eS	30 50.51	
RDW	0.22	304	ePc	30 40.17	1.0
RDN	0.22	314	iPc	30 39.98	0.9
DFR	0.26	333	iPc	30 40.07	0.9
			eS	30 50.85	
NCT	0.31	310	ePc	30 40.13	-1.0
IVS	0.48	222	eP	30 41.76	-0.6
NNL	0.66	119	iPd	30 43.72	0.2
NKA	0.71	57	iPc	30 45.13	1.2
HOM	0.81	150	iPd	30 44.60	-0.4
			eS	30 58.62	
CKL	0.84	4	iPc	30 44.72	-0.6
SPU	0.84	13	iPc	30 44.69	-0.7
			eS	30 58.88	
BGL	0.90	2	iPc	30 45.60	-0.4
CGLM	0.97	13	iPc	30 46.15	-0.6
			eS	31 01.10	
XLV	0.98	158	iPd	30 45.59	-1.2
			eS	31 01.27	
BRLK	0.99	127	iPd	30 45.62	-1.3
			eS	31 00.91	
CNPM	1 04	144	iPd	30 46.46	-1.0
			eS	31 02.63	
PDB	1.05	237	iPc	30 46.34	-1.2
			eS	31 02.18	
NCG	1.05	8	iPc	30 47.02	-0.7
AUE	1.11	205	iPc	30 47.17	-1.1
SLKM	1.11	82	P	30 47.50	-0.8
AUH	1.12	207	ePc	30 47.61	-0.9
AUI	1.14	206	eP	30 47.77	-0.9
			eS	31 03.29	
SUA	1.38	36	iPc	30 51.24	-0.4
SEW	1.52	99	eP	30 51.92	-1.3
MCNL	1.52	220	iPc	30 51.99	-1.3
			iS	31 11.39	
CDD	1.56	203	iPc	30 52.33	-1.5
PMS	1.67	57	iPc	30 54.47	-0.8
SKT	1.68	15	iPc	30 54.34	-1.0
			S	31 16.48	
SVW	1.73	297	iPd	30 54.40	-1.6
SYI	1.76	179	ePc	30 55.23	-1.1
PWA	1.80	43	ePc	30 56.09	-0.7
PLRM	2.03	51	iPc	30 58.22	-1.7
PMR	2.03	51	P	30 58.00	-1.9
KNK	2.22	60	iPc	31 00.63	-1.8
GHO	2.22	49	iPc	31 00.94	-1.6
CUT	2.30	26	ePc	31 02.51	-1.0
LTI	2.32	96	ePc	31 01.46	-2.3
KNIM	2.34	88	iPc	31 00.99	-3.1
MTU	2.43	97	eP	31 03.30	-1.9
GLI	2.69	77	ePc	31 05.14	-3.7
VZW	2.98	74	ePc	31 09.70	-3.1
TTA	3.09	328	ePd	31 12.50	-1.8
TRF	3.26	17	eP	31 15.73	-1.1
KTH	3.28	12	eP	31 15.83	-1.1
KLU	3.38	68	iPc	31 15.61	-2.7
TOA	3.50	57	iPc	31 18.25	-1.7
TZL	3.79	61	eP	31 21.64	-2.3
SDG	3.96	54	ePc	31 24.23	-2.0
GLB	4.35	72	eP	31 28.50	-3.2
WRH	4.59	24	eP	31 32.89	-2.1
CROM	4.61	81	eP	31 32.73	-2.7
TGL	4.76	81	eP	31 34.36	-3.0
MDM	5.00	21	eP	31 38.18	-2.5
BALM	5.01	78	eP	31 38.15	-2.7
FBA	5.03	23	ePd	31 38.50	-2.5

58 abs. associated

? JUL 21, 1991 17h 51m 22.49± 2.81s
41.086 N ±21.8km 29.370 E ±13.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.5 (ISK).

ISK	0.24	265	iPg	51 27.50	0.0
			eSg	51 30.60	
HRT	0.35	139	iPg	51 29.60	-0.1
			iSg	51 35.10	
YLV	0.52	180	iPg	51 32.80	-0.2
IZI	0.75	174	ePg	51 37.60	0.3

S.D. = 0.4 on 4 of 4 obs.

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* JUL 21, 1991 17h 56m 20.80± 1.06s
37.689 N ± 9.3km 21.366 E ± 9.8km
DEPTH = 33.0km (normal)
3.6mb (1 abs.)
SOUTHERN GREECE (368)
ML 3.4 (ATH).

VLS	0.78	309	iPd	56 36.00	0.6
			eS	56 51.00	
AGG	1.53	29	ePc	56 48.85	2.7X
			eS	57 01.52	
VLI	1.59	127	eP	56 45.50	-1.4
ATH	1.88	81	eP	56 52.00	0.8
			eS	57 15.00	
IGT	2.01	337	ePc	56 54.96	1.9
			eS	57 11.16	
KEK	2.36	329	eP	57 05.00	6.9X
LIT	2.56	20	ePc	57 00.48	-0.4
			eS	57 20.60	
KZN	2.63	7	eP	57 06.10	4.1X
PAIG	2.87	38	ePc	57 06.76	1.5
OUR	3.34	37	ePc	57 12.40	0.6
SOH	3.49	26	ePc	57 13.48	-0.6
KNT	3.67	18	ePd	57 14.56	-2.0
VAY	3.74	14	ePn	57 18.00	0.4
NPS	4.19	124	eP	57 25.00	1.0
SKO	4.28	1	ePn	57 24.20	-1.0
			i	57 39.00	
			i	58 14.60	
EKA	24.21	325	P	01 34.00	-1.2
	0.8s		1.40nm	3.6mb	

S.D. = 1.3 an 13 of 16 abs.

& JUL 21, 1991 18h 04m 38.31s
65.565 N 149.974 W
DEPTH = 31.3km
ALASKA (676)
<AEIC>. ML 2.6 (AEIC).

MDM	0.95	129	iP	04 55.05	-0.5
NEA	1.06	159	eP	04 56.90	-0.2
			eS	05 11.06	
FBA	1.14	125	iP	04 58.47	0.4
			eS	05 12.76	
CCB	1.30	134	eP	04 59.92	-0.5
			eS	05 16.85	
WRH	1.36	143	eP	05 01.14	-0.1
			eS	05 19.63	
BWN	1.42	171	eP	05 02.24	0.1
IMA	1.61	290	eP	05 04.99	0.0
MCK	1.89	166	eP	05 09.60	0.5
KTH	2.06	192	eP	05 11.37	-0.2
TRF	2.13	184	eP	05 12.30	-0.2
RND	2.22	167	eP	05 13.77	0.0
PAX	3.26	141	eP	05 28.33	-0.2
SKT	3.66	192	eP	05 34.24	0.0
TOA	3.86	152	eP	05 37.69	0.7

14 obs. associated

& JUL 21, 1991 19h 46m 25.81s
57.930 N 142.906 W
DEPTH = 10.0km (geophysicist)
GULF OF ALASKA (15)
<AEIC>. ML 2.7 (AEIC).

YKU	2.32	44	eP	47 00.21	-4.4
			eS	47 25.88	
PNL	2.53	45	eP	47 02.28	-5.3
			eS	47 29.68	
HQN	2.60	52	eP	47 03.07	-5.5
			eS	47 32.65	
BCPM	2.64	38	eP	47 04.07	-5.2
			S	47 33.14	
TGL	2.84	1	eP	47 06.76	-5.3
CROM	2.84	358	eP	47 06.79	-5.4
BALM	3.13	5	eP	47 11.32	-4.9
			eS	47 45.55	
MTU	3.21	312	eP	47 11.14	-6.1
LTI	3.32	312	eP	47 12.96	-5.9
KNIM	3.47	316	eP	47 14.54	-6.5
			eS	47 53.05	
GLB	3.55	353	eP	47 16.57	-5.6
VZW	3.65	331	eP	47 17.26	-6.3
KLU	3.89	338	eP	47 21.17	-5.8
SLKM	4.56	308	eP	47 30.81	-5.6

14 abs. associated

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* JUL 21, 1991 19h 55m 15.55± 0.79s
36.755 N ±12.6km 23.025 E ±13.4km
DEPTH = 33.0km (normal)
3.4mb (1 obs.)
SOUTHERN GREECE (368)
MD 3.3 (ATH).

VLI	0.08	243	iPgc	55 21.00	-0.2
VLS	2.40	307	ePn	55 53.20	-0.2
			eSn	56 30.00	
NPS	2.57	125	ePn	55 56.00	0.2
KEK	3.90	320	ePn	56 15.30	0.8
			eSn	57 03.20	
SKO	5.35	347	ePn	56 35.00	-0.2
HFS	24.15	349	eP	00 29.00	-0.3
	0.4s		0.50nm	3.4mb	

S.D. = 0.5 on 6 of 6 abs.

? JUL 21, 1991 20h 10m 07.80± 0.95s
36.708 N ±34.9km 23.090 E ±28.6km
DEPTH = 33.0km (normal)
SOUTHERN GREECE (368)
MD 3.3 (ATH).

VLI	0.12	275	iPgc	10 14.00	0.3
VLS	2.47	307	ePn	10 46.20	-0.5
			eSg	11 22.50	
NPS	2.50	124	ePn	10 47.00	-0.1
KEK	3.96	320	ePn	11 08.10	0.3
			eSn	11 56.00	
OHR	4.75	339	eP	12 02.00	43.1X
SKO	5.41	347	ePn	12 02.00	33.7X

S.D. = 0.6 on 4 of 6 abs.

JUL 21, 1991 20h 16m 50.49± 0.39s
36.882 N ± 8.9km 45.118 E ± 5.1km
DEPTH = 33.0km (normal)
4.3mb (13 abs.)
IRAN-IRAQ BORDER REGION (346)

TAB	1.53	39	iPc	17 15.60	-0.3
KER	3.00	147	eP	17 38.00	1.1
IR7	4.59	103	eP	18 00.50	1.0
IR5	4.73	109	eP	18 01.00	-0.5

```
IR1      4.74 106 eP     18 02.00   0.4
IR4      4.96 108 eP     18 03.50  -1.3
TEH      5.19 101 eP     18 20.00  12.0X
BHL      8.28 252 P      18 51.00  -0.3
                  S      21 16.00
MAIO    11.57  89 iPc    19 37.20   0.7
OUE     19.36 104 eP     21 14.90  -1.6
KSP     24.84 313 eP     22 14.20   3.2X
PRU     25.58 310 P      22 22.60   4.6X
        1.3s     5.20nm          4.0mb
KHC     25.91 308 iP     22 20.00  -1.2
        1.0s     4.00nm          4.0mb
                  i      22 23.00
WTTA    26.74 303 e(P)   22 29.00   0.0
        0.9s     3.80nm          4.0mb
                  i      22 31.00
CLL     26.94 313 eP     22 32.00   1.5
GRF     27.55 308 eP     22 38.40   2.3
        1.2s     8.00nm          4.3mb
                  e      22 43.20
                  eS     27 46.60
LPG     29.89 299 eP     22 57.10  -0.5
HFS     30.71 329 eP     23 03.50  -0.7
        0.4s     1.30nm          4.1mb
SMF     31.97 301 eP     23 14.40  -1.1
        0.9s     4.90nm          4.4mb
AVF     32.32 301 eP     23 17.20  -1.3
        0.9s     4.90nm          4.4mb
MAF     32.84 300 eP     23 22.30  -0.8
        1.0s     6.00nm          4.4mb
GRR     35.23 304 eP     23 42.30  -1.3
        0.7s     8.80nm          4.8mb
LPF     35.34 303 eP     23 45.90   1.4
        0.7s     4.40nm          4.5mb
EKA     37.31 315 P      24 03.00   1.9
        0.9s     3.20nm          4.2mb
LZH     46.56  72 eP     25 17.50   0.4
        2.0s    32.00nm          4.9mb
                  sP     25 46.00
KIC     54.58 249 (P)    26 18.20   0.1
LIC     54.89 249 (P)    26 20.20  -0.1
YKA     79.63 351 eP     28 55.40  -0.1
        1.0s     2.90nm          4.2mb
NVL    109.98 191 PKPc   35 41.00  22.1X
     S.D. = 1.1  on  25 of  29 obs.
-----------------------------------
&  JUL  21, 1991  20h 27m 18.38s
   59.609 N          153.649 W
   DEPTH = 134.5km
 SOUTHERN ALASKA                  (  2)
      <AEIC>.

AUH      0.27 157 ePd    27 36.55   0.8
AUE      0.29 150 iPd    27 36.48   0.8
AUI      0.30 157 ePd    27 36.48   0.8
                  eS     27 49.91
PDB      0.33 303 iPd    27 36.55   0.7
                  eS     27 50.76
IVS      0.49  35 ePd    27 37.28  -1.2
MCNL     0.55 220 iPd    27 37.62  -0.9
                  eS     27 52.20
CDD      0.68 180 ePc    27 38.34  -1.1
                  eS     27 54.05
RED      0.92  28 iPd    27 40.45  -1.0
                  eS     27 57.16
RSO      0.97  27 iPd    27 40.96  -1.0
RDW      0.97  25 iPd    27 41.01  -0.9
XLV      0.99  98 ePd    27 40.90  -1.0
                  eS     27 58.49
REF      1.00  28 iPd    27 41.28  -0.9
RDN      1.01  26 iPd    27 41.33  -0.9
HOM      1.02  86 ePd    27 41.57  -0.6
                  eS     27 59.21
NCT      1.02  20 iPd    27 41.42  -0.9
DFR      1.10  26 iPd    27 42.11  -0.9
                  S      28 00.90
RDT      1.15  32 iPd    27 42.49  -1.0
SYI      1.19 147 iPc    27 42.34  -1.5
                  eS     28 01.19
CNPM     1.23  93 ePd    27 43.08  -1.2
NNL      1.27  69 ePd    27 44.17  -0.4
NKA      1.66  46 ePd    27 49.40   0.5
CKL      1.72  22 iPd    27 49.16  -0.6
                  eS     28 12.40
SPU      1.77  26 iPd    27 49.25  -1.0
BGL      1.77  20 ePd    27 49.93  -0.5
CGLM     1.89  25 iPd    27 50.98  -0.8
SLKM     1.94  61 ePd    27 50.65  -1.7
NCG      1.95  22 eP     27 51.49  -1.0
KDC      1.96 162 ePc    27 49.86  -2.6
SEW      2.18  75 eP     27 53.52  -1.6
SUA      2.35  36 ePd    27 56.51  -1.0
SKT      2.60  23 eP     27 59.52  -1.0
PMS      2.61  49 ePd    27 59.21  -1.5
LTI      2.96  79 eP     28 03.01  -2.2
PLRM     2.99  46 eP     28 03.75  -1.8
MTU      3.05  80 ePc    28 04.57  -1.9
KNIM     3.06  73 ePc    28 04.14  -2.4
KNK      3.14  53 eP     28 05.28  -2.3
GHO      3.18  45 eP     28 05.96  -2.2
CUT      3.25  29 eP     28 08.45  -0.6
GLI      3.51  66 eP     28 09.84  -2.6
MID      3.73  90 eP     28 12.27  -3.1
VLZ      3.94  64 eP     28 16.45  -1.7
KLU      4.26  60 ePd    28 19.96  -2.6
TOA      4.43  52 eP     28 22.92  -1.9
GLB      5.20  65 eP     28 32.65  -2.5
BALM     5.80  71 eP     28 41.19  -2.2
        46 obs. associated
-----------------------------------
   JUL  21; 1991  21h 33m 48.23± 0.54s
   37.407 N ± 5.5km   22.535 E ± 5.5km
   DEPTH =  68.9 ±  9.5 km
   3.7mb (  3 obs.)
 SOUTHERN GREECE                  (368)
      MD 3.3 (ATH).

VLI      0.76 155 iPbd   34 04.00   0.1
                  eSg    34 15.00
ATH      1.09  59 ePg    34 07.60  -0.5
                  eSg    34 20.50
AGG      1.62 354 ePd    34 16.10   0.9
                  eS     34 35.14
VLS      1.72 297 ePn    34 24.00   7.4X
PAIG     2.67  19 ePc    34 29.22  -0.5
                  iS     34 59.22
LIT      2.69 359 ePd    34 30.30   0.2
                  eS     35 00.22
KZN      2.96 349 ePb    34 42.00   8.2X
OUR      3.13  21 ePc    34 35.78  -0.4
                  eS     35 09.34
KEK      3.15 318 ePn    34 44.00   7.6X
THE      3.24   6 ePc    34 36.94  -0.7
                  eS     35 11.78
NPS      3.28 130 ePn    34 39.00   0.7
                  eSn    35 15.00
SOH      3.47  10 ePd    34 41.10   0.1
                  eS     35 19.82
FNA      3.49 345 ePc    34 43.22   1.9
GRG      3.55 358 ePc    34 38.94  -3.1X
KNT      3.76   4 ePd    34 45.18   0.1
SRS      3.80  12 ePc    34 45.10  -0.4
                  eS     35 27.58
VAY      3.91   0 ePn    34 47.00  -0.1
LCI      4.62 311 P      34 56.00  -1.1
SOI      5.18 279 P      35 05.20   0.3
TDS      5.35 297 P      35 08.70   1.3
BRT      5.40 312 P      35 07.80  -0.3
                  eSn    36 04.40
MEU      6.07 269 P      35 15.90  -1.7
                  eSn    36 20.80
MGR      6.10 299 P      35 17.80   0.0
HFS     23.44 349 eP     38 50.70  -1.0
        0.4s     1.50nm          3.8mb
NB2     24.71 347 P      39 03.80  -0.3
        0.5s     0.80nm          3.4mb
EKA     24.98 324 P      39 08.00   1.4
        0.6s     2.00nm          3.7mb
     S.D. = 0.9  on  22 of  26 obs.
-----------------------------------
?  JUL  21, 1991  21h 44m 50.12± 3.36s
   28.030 N ±44.1km  144.500 E ±122.km
   DEPTH =  33.0km  (normal)
   4.8mb (  3 obs.)
 BONIN ISLANDS REGION             (212)

CHJJ     9.26 331 P      47 03.60  -0.7
IIDJ     9.30 325 eP     47 05.70   0.7
MAT     10.01 330 (P)    47 13.00  -1.8
                  eS     48 51.00
MTMJ    10.24 328 eP     47 18.70   0.8
NIIJ    10.28 335 eP     47 19.50   1.1
WR2     48.69 193 eP     53 36.80   3.5X
        0.6s     7.40nm          4.9mb
                  e      55 50.80
WRA     48.69 193 P      53 36.00   2.7X
        0.5s     5.50nm          4.8mb
STK     59.64 183 eP     54 53.30   0.0
        0.5s     1.40nm          4.3mb
     S.D. = 1.4  on   6 of   8 obs.
-----------------------------------
?  JUL  21, 1991  22h 50m 45.88± 6.51s
   51.266 N ±30.9km   15.919 E ±45.1km
   DEPTH =  10.0km  (geophysicist)
 POLAND                           (548)

BRG      1.31 253 iPg    51 10.40   0.4
                  iSg    51 30.00
PRU      1.55 215 Pn     51 13.70   0.1
                  Pg     51 15.40
                  e      51 17.50
                  Sn     51 32.30
                  eSg    51 39.00
CLL      1.83 273 iPg    51 18.20   0.6
                  iSg    51 44.00
KHC      2.61 216 Pn     51 29.00   0.1
                  Pg     51 35.00
                  e      51 39.50
                  Sg     52 17.90
MOX      2.79 259 ePn    51 30.50  -0.9
                  ePg    51 38.00
                  iSg    52 19.00
GRF      3.39 244 ePn    51 39.60  -0.3
                  ePg    51 52.30
                  eSg    52 36.60
     S.D. = 0.7  on   6 of   6 obs.
-----------------------------------
   JUL  21, 1991  22h 59m 09.61± 0.12s
   3.008 N ± 2.6km  128.434 E ± 3.4km
   DEPTH =  34.4km  ( 14 depth phases)
   5.9mb ( 74 obs.)  5.2Msz ( 19 obs.)
 NORTH OF HALMAHERA               (264)
      Mo=1.0*10**18 Nm (PPT).
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 20S, 44C
      Centroid Location:
      Origin Time        22:59:15.1 0.2
      Lat  3.33N 0.03 Lon 128.51E 0.03
      Dep  67.1 2.9 Half-duration  2.7
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 2.54 0.12  Mtt= 0.01 0.17
        Mff=-2.55 0.26  Mrt= 0.14 0.14
        Mrf=-3.97 0.14  Mtf=-1.80 0.14
       Principal Axes:
        T  Val=  4.92  Plg=57  Azm= 67
        N        0.25      19      189
        P       -5.17      26      288
      Best Double Couple:Mo=5.1*10**17
       NP1:Strike= 54 Dip=25 Slip= 138
       NP2:       183     73       70

DAV      4.95 325 ePc+   00 28.00   4.3X
        1.4s  5581.40nm
MAP      8.51 329 ePd    01 16.00   2.5
                  iS     02 02.50
PLP      8.80 337 ePd    01 17.00  -0.5
        1.0s    41.00nm          5.5mb
TSM     10.62 277 ePd    01 46.00   3.5X
        1.0s  1281.50nm          7.1mb X
PPR     11.75 305 eP     02 00.00   2.0
        1.0s     1.24nm          4.0mb X
KKM     12.55 284 ePc    02 12.00   3.2X
        1.0s   382.30nm          6.5mb X
                  e      12 51.00
PGP     12.78 325 ePc    02 15.50   3.7X
JAY     13.44 114 eP     02 23.80   3.3X
KUPT    13.93 200 ePd    02 33.50   6.6X
                  eS     07 15.50
BAG     15.40 330 eP     02 44.00  -2.3X
MTN     15.98 170 iPc    02 54.60   1.0
PIP     17.04 334 iPd    03 09.00   2.0
        1.5s   563.00nm          5.5mb
KHKI    17.07 228 ePd    03 10.90   3.6X
                  e      13 49.80
KNA     18.64 179 eP     03 28.00   1.2
        0.5s   262.00nm          5.7mb
TRT     19.02 236 ePc    03 35.00   3.6X
        1.2s   782.20nm          5.8mb
MDG     19.17 115 eP     03 34.60   1.4
PJG     19.34  56 eP     03 35.90   0.6
```

21d 23h

```
GUA    19.36  56 eP    03 35 30  -0.1
       1 2s   850.00nm          5.9mb
     Z 22s    12.71um          4.1MszX
PMG    22.36 124 eP    04 07.50   1.2
ANP    23.03 344 eP    04 14.00   1.0
                eS    08 19.60
WRA    23.53 166 P     04 17 50  -0.3
WR2    23.54 166 iPd   04 17.80  -0.1
       0 9s  188.99nm           5.6mb
                iS    08 25.90
HKC    23.65 325 eP    04 20.30   1.4
                eS    08 32.00
QZH    23.78 337 iPd   04 21.00   0.9
       1 4s  1460.00nm          6.3mb
     Z 22s     4 39um          4 9Msz
     N 15s     1.20um
                S     08 31.00
QIZ    24.17 313 iPd   04 25.00   1.1
       1.3s  600.00nm           6.0mb
     N 15s     1 30um
     E 14s     1.90um
                pP    04 37.50  50kmX
                S     08 39.00
GZH    24 74 325 Pd    04 31.00   1.6
       5.0s  3000.00nm          6.1mb X
     Z 34s    13.00um          5.2MszX
     N 24s     9.80um
     E 26s     3.10um
                S     08 48.00
RAB    24.77 107 iPc+  04 31.00   1.2
KGM    25.11 268 ePd   04 35.80   2.8X
       1.7s  274.40nm           5.6mb
                e     04 54.50  83kmX
QIS    25.86 155 iPc   04 38.60  -1.4
                epP   05 00.00  97kmX
ASPA   27.04 169 iPc   04 49.80  -1.1
       1.2s   77.70nm           5.2mb
     Z 22s     5.20um          5.0MszX
                iS    09 23.10
                iScS  15 33.40
IPM    27.39 274 ePd   04 54.90   0.7
       1 1s  417.60nm           6.0mb
SNG    28.01 280 eP    04 59.00  -0.7
       1.3s  596.15nm           6.1mb
                eS    09 44.00
KAGJ   28.12   4 P     05 01.30   0.7
NANU   28.37 206 iPd   05 02.80   0.0
SSE    28.76 347 Pc    05 05.50  -0.8
       1.0s  120.00nm           5.5mb
     Z 22s     3.30um          4.9Msz
     N 12s     1.10um
     E 12s     1.10um
                SS    11 20.00
                iScP  11 49.50
                iScS  15 40.00
CTAO   28.86 143 iPc+  05 06.50  -0.8
                i     05 12.00  19kmX
                i     05 19.00
                eS    09 51.00
WARB   29.07 183 eP    05 09.00  -0.2
KUMJ   29.46   4 P     05 11.50  -1.1
LOE    29.86 300 iPd   05 17.00   0.7
                e     11 55.00
NJ2    30.26 344 iPc   05 20.80   1.1
       1.4s  400.00nm           6.0mb
     Z 20s     1.80um          4.7Msz
     E 11s     0.70um
                S     10 11.00
                sS    10 37.00
                ScP   11 55.50
                ScS   15 54.00
WHN    30.46 336 Pd    05 23.00   1.6
       1.5s  400.00nm           6.0mb
     Z 28s     4.80um          5.0MszX
     N 22s     7.50um
                pP    05 34.50  43km
                S     10 20.00
                ScP   11 55.70
NST    30.57 296 eP    05 24.00   1.4
SHNJ   31.06   4 P     05 26.30  -0.4
TKSJ   31.26   9 P     05 28.10  -0.4
GYA    31.30 320 iPd   05 27.80  -1.3
       1.6s  130.00nm           5.5mb
     Z 30s     4.40um          4 9MszX
     N 18s     1.90um
     E 18s     5.50um
                pP    05 37.00  32km
                sP    05 41.00
                PP    06 31 00
                S     10 32 00
                sS    10 54.00
                ScP   11 58.00
                PcS   12 00.80
                ScS   15 54.40
SHK    31.61   7 iPc   05 32.40   0.8
       1.0s  136.00nm           5 8mb
KHT    31.67 294 iPd   05 33.30   1.0
WKYJ   31.76  11 eP    05 33.30   0.3
BDT    32.17 298 eP    05 37.20   0.6
       1.0s  172.50nm           5.9mb
YONJ   32.36   8 P     05 36.50  -1.6
CHG    32.85 301 iPd   05 43.50   0.9
       1.0s  230.00nm           6.0mb
                eS    10 56.00
KMI    33.10 314 iPd   05 46.00   1.1
       2.0s  600.00nm           6.1mb
     Z 25s     8.00um          5.3MszX
                pP    05 54.00  28km
                PP    06 58.00
                S     11 03.00
                ScS   16 08.00
TSRJ   33.11  11 P     05 43.40  -1.3
TSRJ   33.11  11 eP    05 44.90   0.2
OLP    33.15 154 iPd   05 43.80  -1.2
                i     07 03.80 435kmX
IIDJ   33.48  14 P     05 48.40   0.4
FORR   33.67 181 iPd   05 58.00   8.5X
       0.4s   39.00nm           5.7mb
                e     06 00.00   7kmX
HNR    33.75 112 eP    05 49.00  -1.4
CHJJ   34.30  15 P     05 54.20  -0.7
COOL   34.41 191 eP    05 54.50  -1.5
MTMJ   34.51  13 P     05 56.60  -0.3
MAT    34.57  14 eP    05 56.00  -1.3
       1.5s  480.56nm           6.2mb
     Z 20s     2.84um          5.0Msz
                eS    11 16.00
TIA    34.65 344 P     05 57.30  -0.7
       1.4s  100.00nm           5.6mb
     Z 24s     2.10um          4.8MszX
     N 15s     1.50um
                pP    06 06.00  30km
                ScP   12 09.70
                ScS   16 14.00
KAKJ   34.77  17 P     05 57.20  -1.7
BAL    35.25 198 eP    06 02.30  -0.8
       0.4s   26.00nm           5.5mb
RMQ    35.30 147 ePd   06 05.50   1.9
                i     07 26.00 420kmX
                i     12 17.00
NIIJ   35.43  15 P     06 03.50  -1.0
XAN    35.84 332 iPd   06 08.00  -0.1
       3.0s  900.00nm           6.2mb
     N 14s     1.40um
     E 14s     1.10um
                pP    06 22.00  54kmX
                PP    07 34.00
                S     11 37.00
                sS    12 00.00
                ScS   16 20.00
KLB    35.88 196 eP    06 07.00  -1.4
       0.4s   28.00nm           5.5mb
                e     06 18.00  39km
CD2    36.24 323 iPd   06 11.80   0.2
       1.2s  300.00nm           6.1mb
     Z 20s     4.00um          5.2Msz
                iS    11 47.00
                ScP   12 17.00
                PcS   12 24.00
                ScS   16 21.00
DL2    36.26 351 Pd    06 12.00   0.4
       1.6s 1530.00nm           6.7mb
     Z 24s     1.30um          4.6MszX
     E 14s     1.80um
                S     11 43.00
YAMJ   36.57  15 eP    06 13.70  -0.5
MUN    36.68 198 eP    06 14.40  -0.8
                e     06 25.00  37km
STK    36.88 161 P     06 16.10  -0.8
NWAO   37.28 196 eP    06 20.00  -0.2
     Z 20s     1.30um          4.7Msz
TIY    37.53 339 iPd   06 22.50   0.2
       1 1s  130 00nm           5.7mb
     Z 24s     3 27um          5.0MszX
     N 25s     5 36um
     E 23s     2.90um
                S     12 06.00
                ScS   16 29.50
OFUJ   37.87  17 P     06 26.10   1.0
CMS    38.09 156 eP    06 26.00  -1.0
                i     06 40.00  54kmX
                i     07 56 40
BJI    38.50 345 eP    06 30 50   0 1
       1.2s  400.00nm           6.1mb
     Z 24s     2.24um          4 9MszX
                eS    12 19.00
                eScP  12 24.00
                esS   12 44.00
                eScS  16 36.50
SNY    38.89 354 Pc    06 32.80  -0.8
       1.2s  200.00nm           5.8mb
     Z 26s     2.70um          5.0MszX
     E 16s     1.80um
                pP    06 42.00  31km
                S     12 23.00
ADE    38.99 167 iPc   06 35.00   0.4
LZH    39.99 328 iPd   06 44.60   1.5
       2.0s 1500.00nm           6 4mb
     Z 16s     6.28um          5 6MszX
     N 12s     1.67um
                pP    06 55.00  36km
                sP    07 01.50
                PP    08 20.00
                ScP   12 31.00
                PcS   12 40.00
                S     12 45.00
                sS    13 08.00
                SS    15 40.00
                ScS   16 45.00
COO    40.21 148 iPc   06 44.60  -0.2
                i     08 15.50 493kmX
HHC    40.63 340 iPd   06 49 00   0.8
       1.4s  200.00nm           5.7mb
     Z 26s     4.10um          5 2MszX
     N 11s     0.60um
                sP    06 59.00
                PP    08 23.00
                S     12 49.50
                ScS   16 52.00
CN2    40.71 357 iPd   06 47.30  -1.3
       1.4s  100.00nm           5.4mb
     Z 19s     3.40um          5.2Msz
     N 12s     0.40um
     E 12s     1.00um
                sP    07 07.00
                ScS   16 47.00
MRRJ   40.84  14 eP    06 49.20  -0 5
BTO    40.95 338 P     06 51.00   0.2
     Z 23s     5.90um          5.4MszX
     N 23s     5.10um
     E 23s     2 80um
                pP    07 00.00  30km
                PP    08 28.50
                S     12 56.00
HOOJ   41.39  17 eP    06 53.70  -0 5
SHL    41.67 306 iP    06 57.50   0.5
                eS    13 10.50
BWA    41.71 155 eP    06 58.00   1.0
                ipP   07 12.40  55kmX
                ePP   08 08.20
                eScP  12 37.80
BFD    42.08 163 iPd   06 57.70  -2.2
       1.0s  115.00nm           5 6mb
                i     08 38.40 564kmX
KUSJ   42.47  18 eP    07 01.20  -1.8
CAN    42.73 155 eP    07 05.40   0.1
                epP   07 19.60  54kmX
                iPP   08 15.10
                iPcP  08 53.80
                eScP  12 41.90
ASAJ   42.83  15 eP    07 06.40   0.4
CNB    42.88 155 eP    07 06.00  -0.6
                e     07 22.00  63kmX
TOO    43.37 160 iPd   07 11.80   1.3
                i     07 24.00  44km
LSA    44.19 311 P     07 17.30  -0.5
                iS    13 46.50
                ScS   17 07.00
GTA    44.59 328 iPd   07 21.40   0.8
       1.0s  190 00nm           5.9mb
     Z 28s     5.40um          5 3MszX
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     N  19s      2.60um
              sP     07 36.80
              PcP    09 03.80
              PP     09 07.00
              ScP    12 49.20
              PcS    12 56.00
              S      13 51.70
              ScS    17 11.80
GUN    47.52 306 P      07 44.92    0.7
PKI    47.77 305 P      07 46.32    0.1
       1.3s   930.00nm            6.6mb
KKN    47.96 305 P      07 47.84    0.3
       1.1s  1432.00nm            6.9mb X
DMN    48.03 305 P      07 48.52    0.4
       1.1s  1090.00nm            6.8mb
GKN    48.57 305 P      07 52.44    0.3
       1.2s  1055.00nm            6.8mb
HYB    50.96 290 iPd    08 11.20    0.8
       1.2s  1242.40nm            6.8mb
              eS     15 23.50
KOD    51.08 281 iPd    08 11.80    0.1
       1.0s   236.00nm            6.1mb
              eS     15 25.00
GBA    51.44 285 Pc     08 14.30    0.3
       1.2s   423.00nm            6.3mb
IRK    53.04 342 ePc    08 25.00   -0.5
              e      08 33.00   26km
              e      08 57.00
              ePcS   13 24.00
              iS     15 48.00
              ePS    15 54.80
              eScS   18 06.00
              eSS    18 56.80
WMO    54.29 324 iPd    08 35.00    0.1
       1.5s   200.00nm            5.9mb
     Z  26s      4.10um           5.4MszX
     N  19s      3.20um
              sP     08 52.50
              PcP    09 34.50
              PP     10 38.50
              ScP    13 29.00
              S      16 07.00
              sS     16 28.00
              ScS    18 15.00
NDI    54.94 303 iPd    08 39.00   -0.8
       1.0s   110.00nm            5.8mb
              eS     16 13.00
POO    55.56 290 iPd    08 43.20   -1.3
       1.0s   230.00nm            6.2mb
BOM    56.59 291 eP     08 50.50   -1.3
              eS     16 40.50
YAK    58.88   1 iPc    09 05.40   -1.7
              ePcP   09 53.00
              ePP    11 12.00
              ePPP   12 27.00
              iScP   13 51.00
              ePcS   14 06.00
              ePSP   16 10.00
              iS     17 04.00
              iPS    17 12.00
              iScS   18 47.00
              eSS    20 45.00
              eSSS   23 17.00
KSH    59.72 315 P      09 14.00    0.4
              pP     09 23.00   29km
              S      17 24.00
QUE    63.97 302 iPd    09 42.20   -0.2
ADK    66.61  34 eP     09 57.10   -1.6
       1.1s   100.00nm            5.8mb
CSY    70.33 188 eP     10 21.20   -0.3
       0.7s    46.30nm            5.6mb
              epP    10 32.60   38km
MAIO   71.30 307 iPc    10 28.00   -0.1
       1.2s    85.42nm            5.7mb
              eS     19 42.00
IR4    78.09 305 iPd    11 07.50    0.3
IR1    78.28 305 iPd    11 08.50    0.3
IR5    78.35 305 eP     11 09.20    0.6
IR7    78.36 306 iPd    11 09.00    0.3
SVW    80.60  29 ePc    11 21.00    0.9
       1.4s   375.00nm            6.2mb
KER    81.15 304 ePd    11 22.50   -1.2
RSO    81.88  29 iP     11 26.30   -0.7
TAB    81.94 308 eP     11 28.00    0.3
AFR    83.08 108 iP     11 35.20    1.5
       1.3s   390.00nm            6.3mb
PPT    83.28 108 iP     11 36.60    1.8
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       1.3s   260.00nm            6.2mb
PAE    83.28 108 iP     11 36.60    1.9
       1.3s   205.00nm            6.1mb
SBA    83.40 172 iPc    11 34.90    0.6
PPN    83.41 108 iP     11 37.00    1.6
       1.3s   140.00nm            5.9mb
TVO    83.60 108 iP     11 38.30    1.8
       1.3s   305.00nm            6.3mb
MAW    83.67 201 eP     11 37.00    1.2
       1.0s    68.00nm            5.7mb
PMR    83.76  28 ePc    11 36.00   -0.4
       1.0s   265.00nm            6.3mb
FBA    84.64  25 iP     11 39.70   -1.1
       1.8s   231.48nm            6.1mb
PMO    84.66 105 iP     11 43.60    1.9
       1.4s   175.00nm            6.0mb
TPT    84.93 105 iP     11 45.00    1.9
       1.4s   210.00nm            6.1mb
VAH    84.94 105 iP     11 44.90    1.8
       1.4s   175.00nm            6.1mb
RUV    85.17 105 iP     11 46.20    1.9
       1.4s   280.00nm            6.3mb
BALM   87.01  29 ePc    11 54.00    1.3
OBN    88.61 325 iPc    12 00.00   -0.3
     Z  20s      1.60um           5.4Msz
     N  24s      0.70um
     E  20s      1.30um
              i      12 09.80
              ipP    12 18.00   64kmX
              isP    12 29.30
              i      12 39.80
              e      12 51.00
              i      13 03.00
              ePP    15 48.00
              ePPP   17 50.00
              iSKS   22 21.00
              iS     22 37.00
              i      23 00.00
              esS    23 16.00
              iSP    23 41.00
              ePS    24 00.00
              e      24 21.00
              e      24 36.00
              e      29 00.00
              eSSS   32 06.00
              eSSSS  35 30.00
              e      36 00.00
              LQ     40 00.00
NPA    89.98 255 iP     12 09.40    1.8
INK    90.21  22 eP     12 06.00   -1.6
       1.2s    69.00nm            5.8mb
              pP     12 18.00   39km
HRI    90.62 303 iPc    12 11.20    0.8
BHL    90.65 304 P      12 08.00   -2.5
              SKS    22 34.00
JVI    91.05 302 iPc    12 12.90    0.6
ZNT    91.29 302 iPc    12 14.10    0.7
NAI    91.69 269 iPd    12 16.50    0.6
RMN    91.77 300 iPc    12 16.20    0.5
SOD    91.78 338 iP     12 13.30   -1.6
MBC    92.28  13 ePd    12 16.60   -0.4
       1.5s    58.00nm            5.8mb
SPA    92.99 180 iPc    12 20.80    0.2
       1.0s   105.00nm            6.2mb
              i      22 45.00
KAF    93.02 333 iP     12 18.70   -2.0
       0.6s     5.90nm            5.2mb
VRI    95.99 317 ePc    12 33.00   -1.7
MLR    96.60 316 ePc    12 36.50   -1.1
CMP    97.27 316 ePc    12 38.00   -2.5
PTZ    97.61 256 iPd    12 41.00   -1.6
DAG    98.20 353 ePc    12 43.00   -1.1
       0.8s    20.15nm            5.7mb
KRI    99.30 254 iPd    12 50.00   -0.3
              i      16 52.00
HFS    99.44 333 eP     12 47.70   -2.3
       0.7s     8.80nm            5.4mb
YKA    99.44  25 eP     12 49.70   -0.2
       1.1s    18.60nm            5.5mb
KRA    99.46 322 eP     12 49.40   -0.9
              e      13 03.00   45kmX
PGC    99.61  40 eP     12 52.00    1.1
VAY    99.87 313 ePDIF  12 50.40   -1.9
NB2   100.18 334 Pdiff  12 51.60   -1.7
       1.2s    11.40nm            5.3mb
BUL   100.25 250 iPdiff12 53.20   -1.5
       1.0s    14.50nm            5.5mb
```

```
              i      16 56.30
SLR   100.44 245 ePdiff12 55.00   -0.5
SKO   100.54 313 ePdiff12 53.00   -2.3X
     Z  22s      0.64um           5.1Msz
     N  22s      0.45um
     E  24s      0.68um
              iPP    17 01.00
              iSKS   23 27.50
              iSKKS  23 55.00
              iS     24 20.00
              iPS    25 54.00
              i      26 55.00
              iSS    31 26.00
LSZ   100.67 255 iPdiff12 56.50   -0.1
              i      17 01.00
              i      17 03.50
SEK   100.94 242 iPdiff13 00.40    2.8X
       1.2s    15.63nm            5.4mb
KSP   101.44 323 iPdiff12 59.00   -0.1
              e      16 15.00
              e      17 08.30
PNT   101.82  38 ePdiff13 01.00    0.1
WDC   102.37  47 ePdiff13 03.50    0.0
PRU   102.78 323 ePdiff13 05.00   -0.1
     Z  20s      1.00um           5.3Msz
     N  20s      0.80um
     E  22s      0.90um
              e      13 26.70
              e      16 14.00
BRG   102.B2 324 iPdiff13 05.10   -0.2
       1.6s    22.00nm            5.6mb
              i      16 29.50
              i      17 31.70
FRS   102.87 240 iPdiff13 05.40   -0.6
CLL   103.21 324 ePdiff13 06.00   -1.0
     Z  19s      0.50um           5.1Msz
              e      13 16.00
              eSKS   23 39.00
ORV   103.41  48 ePdiff13 07.70   -0.5
KHC   103.68 322 Pdiff 13 09.90    0.7
       1.4s    11.70nm            5.5mb
     Z  20s      1.00um           5.3Msz
     N  20s      0.50um
     E  20s      0.80um
              e      16 20.00
              e      16 31.50
              i      17 29.20
              S      23 44.00
NEW   103.73  39 ePdiff13 10.00    0.5
       1.0s     3.00nm            5.1mb
MHC   103.87  51 ePdiff13 10.90    0.4
MOX   104.28 324 ePdiff13 24.00   12.2X
     Z  30s      1.20um           5.3MszX
PRS   104.34  51 ePdiff13 12.50    0.1
CMB   104.65  50 ePdiff13 13.30   -0.5
GRF   104.89 323 ePdiff13 14.80    0.3
     Z  21s      1.00um           5.3Msz
              e      13 25.20
              ePP    17 59.30
              e      20 12.40
              eSKS   23 43.80
              e      23 56.30
PRI   104.94  52 ePdiff13 15.70    0.5
MGR   105.32 313 PKP    17 40.91   10.2X
       0.7s    14.70nm
FRI   105.45  50 ePdiff13 17.00   -0.3
WTTA  105.57 321 iPKPc  17 30.80   -0.4
       1.0s    24.40nm
              i      17 43.50
              e      21 00.00
SDI   106.08 315 PKP    17 45.20   13.0X
ASS   106.42 317 PKP    17 51.30   18.5X
SES   106.53  35 ePdiff13 21.00   -0.9
SFI   106.67 318 PKP    17 52.08   19.0X
       1.5s   268.30nm
ISA   106.78  51 ePKP   17 35.00    1.3
RMP   106.83 315 PKP    17 52.50   19.0X
CLC   107.42  51 ePdiff13 27.00    0.8
CLC   107.42  51 ePKP   17 35.00    0.1
SBB   107.57  52 ePdiff13 27.00    0.1
SBB   107.57  52 ePKP   17 45.00    9.8X
LRM   107.61  40 ePdiff13 27.00   -0.1
GSC   108.19  51 ePdiff13 30.00    0.3
GSC   108.19  51 ePKP   17 37.00    0.6
LPG   109.38 321 ePKP   17 38.50   -0.1
       0.5s     1.45nm
LPL   109.38 321 ePKP   17 38.40   -0.1
```

21d 23h

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        0.5s      2.20nm
SBF   109.64 319 ePKP  17 38.30  -0.5
        0.5s      3.65nm
LOR   110.35 323 ePKP  17 39.80  -0.2
      Z  20s      1.02um          5.4Msz
LBF   110.42 323 ePKP  17 40.00  -0.2
SMF   110.66 323 ePKP  17 41.10   0.5
SSF   110.66 323 ePKP  17 40.30  -0.3
        0.6s      2.70nm
BW06  110.76  42 Pdiff 13 48.00   6.9X
        1.0s      7.25nm
BGF   111.30 323 ePKP  17 41.80   0.0
        0.5s      2.90nm
TCF   111.82 323 ePKP  17 42.40  -0.4
LPF   112.80 326 ePKP  17 45.60   1.0
        0.8s      8.05nm
MFF   113.06 324 ePKP  17 44.90  -0.2
        0.6s      3.60nm
LPO   113.24 322 ePKP  17 43.80  -1.8
        0.6s      4.50nm
LFF   113.39 322 ePKP  17 46.00   0.2
        0.6s      3.60nm
RSSD  113.70  39 PKP   17 45.50  -1.3
        0.8s     18.03nm
GOL   114.95  43 PKP   17 49.00  -0.4
        1.0s     42.50nm
GLD   115.03  43 PKP   17 53.00   3.5X
      Z  20s      1.50um          5.6Msz
ANMO  116.24  49 PKP   17 52.50   0.6
        0.9s    109.24nm
ALO   116.24  49 ePKP  17 52.00   0.1
TUL   123.40  43 ePKPd 18 04.10  -1.2
        1.4s     57.80nm
      Z  20s      0.36um          5.0Msz
                e      18 18.70
                e      19 42.70
                LR     57 43.00
VVO   123.75  43 ePKPd 18 05.90  -0.1
AVE   124.86 315 ePKP  18 09.00   0.8
FVM   125.63  38 PKP   18 09.00  -0.6
        0.9s     29.66nm
TIO   125.98 312 iPKP  18 12.00   1.3
                i      18 19.50
KIC   132.33 281 PKP   18 23.12   0.1
LKO   132.53 286 PKP   18 22.90  -0.5
        0.5s     15.00nm
TIC   132.55 282 PKP   18 23.14  -0.3
LIC   132.63 281 PKP   18 23.46  -0.1
PEL   145.08 151 iPKPc 18 44.00  -1.8
        1.5s    416.67nm
RTLL  147.63 152 ePKPc 18 49.90  -0.1
UPA   149.68  67 ePKPc 18 52.40  -1.2
      Z  20s      0.71um          5.5Msz
                i      18 57.60
CYA   151.30 153 e(PKP)18 55.00  -0.7
NNA   153.43 111 ePKP  18 59.70   0.6
        1.1s     48.10nm
      Z  20s      1.60um          5.8Msz
PSO   153.91  81 ePKP  19 01.00   0.7
BOG   156.28  71 ePKP  19 14.00  10.6X
BMG   156.31  65 iPKPc 19 02.50  -0.6
CNCB  158.83 131 PKP   19 07.80   1.2
LPB   158.91 131 PKP   19 08.00   1.5
      Z  20s      1.42um          5.8Msz
                LR     15 12.00
                i      19 45.00
                PKS    23 21.00
ZOBO  159.05 130 iPKPc 19 08.00   1.1
        1.3s     51.26nm
                LR     15 20.00
                i      19 45.00
SIV   164.06 145 PKP   19 11.60   0.3
SOB1  167.73 239 ePKP  19 15.40   1.1
                e      20 22.80
      S.D. = 1.0  on 219 of 242 obs.
-----------------------------------
&  JUL  21, 1991  23h 23m 25.44s
   56.509 N          157.713 W
   DEPTH =  70.3km
   3.3mb (  1 obs.)
 ALASKA PENINSULA                  ( 12)
      <AEIC>.
SDN     1.96 234 iP    23 55.67  -1.3
                eS     24 19.50
KDC     3.11  64 eP    24 10.86  -2.2
                eS     24 46.54
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MCNL    3.23  33 eP    24 12.78  -2.1
                eS     24 49.41
CDD     3.26  40 iP    24 13.39  -1.9
                eS     24 50.39
SYI     3.56  51 eP    24 17.46  -1.9
                eS     24 56.77
AUH     3.66  37 eP    24 18.89  -2.0
AUE     3.68  37 eP    24 18.94  -2.1
PDB     3.78  28 iP    24 19.89  -2.6
                eS     25 02.88
XLV     4.35  45 eP    24 28.51  -2.0
CNPM    4.58  46 eP    24 30.90  -2.9
                eS     25 19.23
RED     4.70  31 eP    24 32.21  -3.3
RSO     4.74  31 eP    24 33.85  -2.4
RDW     4.74  31 eP    24 33.71  -2.5
                eS     25 25.35
NCT     4.77  30 eP    24 33.20  -3.4
REF     4.78  31 eP    24 33.72  -3.0
RDN     4.78  31 eP    24 34.46  -2.2
DFR     4.87  31 eP    24 34.64  -3.2
NNL     4.90  41 eP    24 36.06  -2.2
RDT     4.93  32 eP    24 35.34  -3.4
NKA     5.43  36 eP    24 44.16  -1.4
CKL     5.47  28 iP    24 43.31  -2.9
BGL     5.51  28 eP    24 44.14  -2.7
SPU     5.53  30 eP    24 44.43  -2.7
SLKM    5.61  41 eP    24 44.25  -3.9
CGLM    5.65  29 eP    24 45.14  -3.6
SEW     5.65  47 eP    24 45.45  -3.3
NCG     5.69  28 eP    24 46.65  -2.7
SUA     6.14  33 eP    24 51.29  -4.3
LTI     6.29  52 eP    24 53.03  -4.5
SKT     6.34  27 eP    24 54.18  -4.1
MTU     6.35  53 eP    24 53.40  -5.1
PMS     6.35  38 eP    24 53.62  -4.9
KNIM    6.50  50 eP    24 55.74  -4.8
MID     6.72  59 eP    24 59.48  -4.0
KNK     6.86  40 eP    25 00.31  -5.2
GHO     6.95  37 eP    25 00.52  -6.2
VZW     7.37  47 eP    25 07.75  -4.9
VLZ     7.50  47 eP    25 09.76  -4.6
KLU     7.87  46 eP    25 14.17  -5.3
TOA     8.14  42 eP    25 17.53  -5.6
GLB     8.71  50 eP    25 25.90  -5.1
TGL     8.85  55 eP    25 27.60  -5.3
BALM    9.17  54 eP    25 32.47  -5.0
PNL    10.19  64 eP    25 46.94  -4.3
YKA    22.33  57 eP    28 12.70  -5.1
        0.5s     0.70nm          3.3mb
SES    28.00  83 eP    29 08.00  -3.3
        46 obs. associated
-----------------------------------
&  JUL  22, 1991  00h 22m 21.90s
   57.956 N          142.285 W
   DEPTH =  10.0km  (geophysicist)
 GULF OF ALASKA                    ( 15)
      <AEIC>. ML 2.9 (AEIC).

PNL     2.28  40 eP    22 55.11  -5.1
                S      23 19.03
HQN     2.33  48 eP    22 55.51  -5.3
                S      23 23.10
8CPM    2.43  33 eP    22 57.09  -5.2
                S      23 24.75
BALM    3.09 359 iP    23 04.40  -7.3
        4 obs. associated
-----------------------------------
?  JUL  22, 1991  00h 47m 46.05± 1.49s
    3.291 N ±25.3km  122.532 E ±21.1km
   DEPTH = 566.3 ± 19.5 km
   5.0mb (  6 obs.)
 CELEBES SEA                       (262)

TSM     4.75 282 iPd   49 14.10  -1.3
        0.8s    407.10nm
MTN    18.16 152 iPd   51 24.80  -0.7
                eS     52 15.00
WRA    25.84 154 P     52 40.00   4.9X
        0.6s   1305.00nm          6.7mb X
QIS    29.02 145 iPc   53 01.30  -1.5
        0.4s     21.00nm          5.1mb
COOL   34.01 182 eP    53 44.00  -0.9
BAL    34.16 189 eP    53 46.00  -0.1
FORR   34.36 171 iPc   53 46.70  -1.0
        0.4s     66.00nm          5.6mb
KLB    34.99 187 iPc   53 53.30   0.4
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        0.3s     18.00nm          5.2mb
MUN    35.59 189 eP    53 58.30   0.4
NWAO   36.37 188 eP    54 05.00   0.7
        0.5s     16.00nm          4.9mb
RMO    38.98 141 eP    54 28.00   2.3X
                i      54 31.70
STK    39.39 154 iPc   54 29.40   0.4
        0.7s     15.50nm          4.7mb
                i      55 22.10
BWA    44.73 149 iPc   55 12.80   1.6
                i      55 45.90
GBA    45.69 286 Pd    55 18.10  -0.6
        0.9s     17.50nm          4.6mb
CAN    45.73 149 iPc   55 19.60   0.8
      S.D. = 1.1  on  13 of  15 obs.
-----------------------------------
   JUL  22, 1991  00h 49m 49.59± 0.35s
   39.331 N ± 3.6km   27.875 E ± 2.8km
   DEPTH =    9.4 ±  2.1 km
   4.0mb ( 25 obs.)
 TURKEY                            (366)
      MD 4.3 (ISK), 4.3 (ATH).

EDC     1.02 359 iPn   50 09.10   0.3
KGT     1.20 339 iPn   50 11.60  -0.4
PRK     1.25 267 iPbc  50 14.00   1.2
IZI     1.59  50 iPn   50 19.10   1.1
KHL     1.63 127 iPn   50 19.70   1.1
YLV     1.69  43 iPn   50 20.10   0.7
CTT     1.86  13 iPn   50 22.10   0.2
G8ZT    1.89  39 iPnc  50 20.40  -1.8
                iPg    50 23.60
                eSg    50 49.30
ISK     1.96  27 iPn   50 23.60   0.4
HRT     2.03  42 iPn   50 24.70   0.4
ALN     2.10 319 ePc   50 26.24   0.9
                eS     50 50.12
GPA     2.10  62 iPn   50 26.50   1.1
EYL     2.14  54 iPn   50 27.10   1.0
YER     2.22 172 iPn   50 26.10  -1.0
RDO     2.55 316 iPnd  50 32.80   1.1
ELL     3.04 147 iPn   50 39.00   0.2
OUR     3.16 290 iPd   50 40.48   0.1
PAIG    3.29 282 iPd   50 42.20  -0.1
ATH     3.53 249 ePn   50 46.00   0.4
SRS     3.73 300 ePd   50 48.52  -0.1
                eS     51 28.88
SOH     3.78 295 ePd   50 49.36   0.1
                eS     51 29.16
THE     3.99 291 ePc   50 52.36   0.2
LIT     4.22 282 ePc   50 55.52   0.0
KNT     4.23 297 ePd   50 55.92   0.4
                eS     51 40.56
AGG     4.32 268 ePd   50 57.00   0.1
NPS     4.44 205 ePn   51 12.00  13.4X
GRG     4.50 293 ePd   50 59.76   0.3
VAY     4 52 298 iPn   51 01.30   1.7
                iS     52 09.40
VLI     4.69 238 ePn   51 00.70  -1.5
KZN     4.80 284 iPnd  51 04.20   0.4
FNA     5.19 288 ePc   51 09.20  -0.1
SKO     5.56 300 iPn   51 14.80   0.3
                iSn    52 08.00
                i      52 12.00
                iSb    52 23.50
                i      52 27.50
                iSg    52 34.00
                i      52 49.00
VLS     5.81 261 ePn   51 20.00   2.0
CFR     5.85   2 eP    51 18.00  -0.5
KEK     6.26 276 ePn   51 16.50  -7.8X
CMP     6.29 341 ePc   51 25.00   0.2
MLR     6.32 348 ePd   51 24.50  -0.8
                e      13 55.00
KVT     6.49  72 eP    51 28.00   0.3
VRI     6.59 353 ePc   51 27.00  -2.0
DEV     7.50 332 ePc   51 43.00   1.3
LCI     7.70 281 P     51 42.60  -1.9
BRT     8.32 284 Pd    51 52.80  -0.5
ADI     8.61 134 iPc   51 54.00  -3.3X
ORI     8.84 278 P     52 00.50   0.1
TDS     8.93 276 P     52 03.50   1.9
CSI     8.96 277 P     52 03.40   1.3
CZI     9.11 273 P     52 04.40   0.3
GLH     9.13 134 eP    52 02.00  -2.4
SOI     9.33 266 P     52 07.10   0.0
MGR     9.53 279 P     52 09.70  -0.2
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SGO      9.73 281 P      52 12.00  -0.7
ATN      9.77 267 P      52 13.10  -0.1
DSI      9.87 139 eP     52 11.00  -3.6X
UZD      9.95 320 eP     52 13.60  -2.0
DUI     10.48 287 P      52 21.50  -1.6
SRO     10.95 324 eP     52 28.50  -0.8
SDI     10.96 287 Pd     52 29.50  -0.2
SPC     11.27 334 eP     52 33.30  -0.5
                  e      13 54.00
                  e      14 07.30
ZST     11.79 322 eP     52 42.00   1.3
                  e      13 40.80
ARV     11.96 295 Pd     52 41.20  -1.9
KRA     12.11 335 eP     52 45.50   0.4
CRE     12.69 295 P      52 51.60  -1.4
KHC     14.16 318 eP     53 13.00   0.7
        1.0s      3.50nm          4.1mb
                  e      53 20.50
                  S      57 40.00
WTTA    14.22 309 eP     53 16.00   2.7X
        0.7s      6.70nm          4.5mb
                  i      53 17.40
BOB     14.72 298 Pd     53 28.10   8.4X
BRG     15.13 324 e(P)   53 30.50   5.5X
GRF     15.73 317 ePd    53 37.40   4.7X
        1.1s     11.00nm          4.0mb
      Z  20s      0.10um          5.6MszX
                  eS     57 58.00
CLL     15.86 324 eP     53 39.00   4.5X
MOX     16.09 320 eP     53 43.50   6.1X
BNI     16.70 297 P      53 49.90   4.5X
LPL     16.77 298 eP     53 48.00   1.7
        0.9s      8.20nm          3.9mb
OBN     16.83  18 iPd    53 44.00  -2.7X
        1.1s  *******nm           7.2mb X
                  e      54 01.00
                  i      54 11.00
                  e      58 53.00
CDF     17.36 308 eP     53 56.70   3.1X
        0.9s      9.85nm          3.9mb
LBF     18.99 302 eP     54 14.20   0.5
        0.9s      4.90nm          3.7mb
SMF     19.00 300 eP     54 12.70  -1.0
        0.7s      5.50nm          3.9mb
LOR     19.14 302 eP     54 15.20  -0.3
        0.9s     11.45nm          4.1mb
ENN     19.19 314 eP     54 17.00   1.1
        1.0s     12.00nm          4.1mb
SSF     19.32 302 eP     54 17.10  -0.6
        0.9s      8.20nm          4.0mb
AVF     19.36 301 eP     54 17.10  -1.0
        0.9s     19.65nm          4.4mb
BGF     19.64 300 eP     54 20.50  -0.9
        0.9s      8.20nm          4.0mb
MAF     19.76 299 eP     54 22.00  -0.6
        0.9s      8.20nm          4.0mb
CAF     19.90 295 eP     54 24.00  -0.1
        0.9s      6.55nm          4.0mb
TCF     20.02 299 eP     54 25.40   0.0
        1.2s     20.85nm          4.3mb
RJF     20.34 296 eP     54 30.70   2.0
        0.8s      8.05nm          4.1mb
LSF     20.48 298 eP     54 29.90  -0.2
        1.1s      7.35nm          3.9mb
MFF     21.68 299 eP     54 42.70   0.4
        0.6s      5.40nm          4.1mb
LDF     22.07 304 eP     54 46.60   0.3
        0.8s      8.05nm          4.2mb
FLN     22.35 304 eP     54 50.80   1.8
        0.8s      5.35nm          4.1mb
GRR     22.50 303 eP     54 51.00   0.5
        0.7s      6.60nm          4.2mb
LPF     22.54 302 eP     54 50.60  -0.3
        0.9s      6.55nm          4.1mb
HFS     22.66 341 eP     54 52.20   0.3
        0.5s      2.10nm          3.9mb
NB2     24.07 340 P      55 03.90  -1.8
        0.7s      1.60nm          3.7mb
MAIO    25.10  87 eP     55 17.00   1.0
EKA     26.13 318 P      55 24.00  -1.4
        1.2s      5.50nm          4.1mb
INK     71.78 353 eP     01 30.00  16.4X
     S.D. = 1.0   on  81 of  95 obs.
-----------------------------------
*  JUL  22, 1991  00h 50m 14.53± 0.48s
    7.353 S ± 7.0km   145.998 E ±18.6km
   DEPTH = 178.0 ±  8.8 km
    4.7mb (  2 obs.)
  NEAR S COAST OF PAPUA NEW GUINEA(206)

YYYY     1.10 358 iPc    50 44.00   0.7
                  eS     51 05.30
LAT      1.21  55 iPc    50 43.40  -0.6
MDG      2.10 354 eP     50 53.10   0.2
                  eS     51 31.30
PMG      2.34 151 iPc    50 55.00  -0.7
                  eS     51 25.00
CTAO    12.66 179 iPc    53 11.00   1.4
        1.0s     25.00nm          4.6mb
WRA     16.87 221 P      54 01.00  -0.8
        0.6s   1305.00nm          6.5mb X
CHG     53.18 300 ePc    59 16.80   0.2
        0.9s     17.23nm          4.8mb
GUN     67.78 304 P      00 55.84   0.0
PKI     68.05 304 P      00 57.06  -0.4
KKN     68.23 304 P      00 58.12  -0.3
DMN     68.31 303 P      00 58.96   0.0
GKN     68.84 304 P      01 01.94  -0.2
QUE     84.29 301 eP     02 28.70   0.6
KIC    150.93 270 PKP    09 48.36   5.9X
LIC    151.21 270 PKPc   09 48.96   6.1X
        0.4s     11.50nm
TIC    151.23 270 PKP    09 48.94   6.0X
LKO    151.82 276 PKPc   09 50.24   6.5X
        0.4s     18.50nm
     S.D. = 0.7   on  13 of  17 obs.
-----------------------------------
%  JUL  22, 1991  00h 54m 34.09± 0.69s
   39.338 N ± 5.5km   27.908 E ± 8.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      MD 3.1 (ISK).

EDC      1.01 358 iPn    54 53.80   0.6
IZM      1.07 208 ePn    54 54.00  -0.2
KGT      1.21 338 iPn    54 56.60   0.1
IZI      1.56  50 iPn    55 02.10   0.1
KHL      1.62 128 ePn    55 03.20   0.4
YLV      1.67  42 ePn    55 03.10  -0.4
CTT      1.85  12 ePn    55 05.60  -0.5
     S.D. = 0.5   on   7 of   7 obs.
-----------------------------------
%  JUL  22, 1991  01h 00m 58.67± 0.86s
   39.297 N ± 7.4km   27.796 E ±11.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      MD 2.8 (ISK).

IZM      0.99 205 ePg    01 17.50   0.0
                  eSg    01 32.50
EDC      1.05   3 ePn    01 18.60   0.1
KGT      1.21 342 ePn    01 21.10  -0.1
IZI      1.66  51 ePn    01 27.70  -0.3
YLV      1.75  43 iPn    01 29.60   0.2
     S.D. = 0.3   on   5 of   5 obs.
-----------------------------------
*  JUL  22, 1991  01h 12m 51.64± 0.90s
   45.469 N ± 7.6km   21.088 E ± 9.4km
   DEPTH =  10.0km  (geophysicist)
 ROMANIA                           (358)
      MG 3.2 (BEO).

SSR      0.76 142 iPc    13 06.00  -0.5
BEO      0.79 215 iPg    13 07.60   0.7
                  iSg    13 19.30
DEV      1.34  71 iPd    13 17.00   0.7
                  ec     14 48.00
PSZ      2.59 342 iP     13 33.80  -0.5
CMP      2.79  93 ePc    13 48.00  10.8X
SRO      3.03 322 e(Pn)  13 19.90 -20.5X
                  e      13 42.80
SKO      3.50 176 ePn    13 55.00   7.7X
PTJ      3.62 279 eP     14 06.00  17.0X
VAY      4.28 165 ePn    13 58.00  -0.3
     S.D. = 0.9   on   5 of   9 obs.
-----------------------------------
   JUL  22, 1991  01h 42m 31.47± 0.67s
   46.649 N ±12.2km   10.496 E ± 5.2km
   DEPTH =   5.0km  (geophysicist)
 NORTHERN ITALY                    (545)
      ML 1.9 (VIE).

OSS      0.25 279 ePc    42 36.40  -0.1
OGA      0.43  59 iPgc   42 39.90  -0.1
VDL      0.73 257 ePd    42 45.00  -1.0
SCE      0.92  64 iPgd   42 48.90  -0.8
WTTA     0.99  51 iPgd   42 50.70  -0.2
                  iSg    43 03.90
TMA      1.25 245 ePd    42 54.60  -0.6
FVI      1.58  91 P      43 00.90   0.8
                  eSn    43 22.00
ZLA      1.66 301 ePd    43 03.80   2.3X
SLE      1.76 310 ePd    43 03.60   0.7
MMK      1.85 252 ePc    43 05.70   1.3
FEL      2.09 307 ePn    43 10.09   2.4X
KHC      3.24  39 eP     43 32.50   8.6X
                  Pg     43 35.00
                  e      44 04.50
                  eSg    44 16.00
     S.D. = 0.9   on   9 of  12 obs.
-----------------------------------
*  JUL  22, 1991  02h 05m 20.55± 0.77s
   18.989 S ±11.3km   67.987 W ± 9.1km
   DEPTH = 219.0 ± 15.4 km
   4.3mb (  1 obs.)
 BOLIVIA                           (120)

CNCB     2.17   0 iPd    06 03.30   0.1
CCH      2.37  48 iPd    06 05.40   0.4
                  i      06 35.40
LPB      2.44 357 iPc    06 06.80   0.9
        1.0s    770.00nm
                  i      06 41.00
ZOBO     2.71 357 iPc    06 09.00   0.1
      Z  20s      0.32um
                  i      06 38.00
                  LR     07 16.00
ARE      4.18 306 iPc    06 26.00  -0.1
                  iS     07 22.00
ANT      5.21 205 iPd    06 38.40  -0.2
SIV      7.24  67 P      07 03.00  -1.8
NNA     11.01 308 iP     07 53.00  -0.5
        0.5s      8.45nm          4.3mb
                  e      10 13.00
VAO     20.02 105 eP     09 39.60   1.2
     S.D. = 1.1   on   9 of   9 obs.
-----------------------------------
%  JUL  22, 1991  02h 12m 04.17± 0.86s
   39.297 N ± 7.4km   27.796 E ±11.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      MD 2.5 (ISK).

IZM      0.99 205 iPg    12 23.00   0.0
                  eSg    12 38.00
EDC      1.05   3 ePn    12 24.10   0.1
KGT      1.21 342 ePn    12 26.60  -0.1
IZI      1.66  51 ePn    12 33.20  -0.3
YLV      1.75  43 iPn    12 35.10   0.2
     S.D. = 0.3   on   5 of   5 obs.
-----------------------------------
%  JUL  22, 1991  02h 13m 01.91± 0.68s
   39.326 N ± 5.2km   27.790 E ± 8.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      MD 3.1 (ISK).

IZM      1.01 204 iPn    13 20.80  -0.3
EDC      1.02   3 iPn    13 21.40   0.2
KGT      1.19 342 iPn    13 24.60   0.6
IZI      1.64  52 ePn    13 31.10   0.1
KHL      1.68 126 ePn    13 32.20   0.6
YLV      1.74  44 ePn    13 32.10  -0.3
CTT      1.88  15 ePn    13 34.00  -0.4
ISK      1.99  29 ePn    13 35.50  -0.4
     S.D. = 0.5   on   8 of   8 obs.
-----------------------------------
%  JUL  22, 1991  03h 07m 45.29± 0.83s
   39.827 N ± 7.2km   23.447 E ± 6.1km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                        (365)

PAIG     0.21  61 iPc    07 49.78   0.0
                  eS     07 53.46
OUR      0.65  39 iPc    07 58.14  -0.1
                  eS     08 06.90
LIT      0.78 291 ePc    08 00.62   0.0
                  iS     08 11.74
SOH      1.00 356 ePc    08 04.54   0.3
                  eS     08 17.30
AGG      1.18 227 ePc    08 07.42   0.1
```

22d 03h

```
                    eS    08 24.14
SRS      1.29   5 ePc    08 09.34    0.1
                    iS    08 26.46
GRG      1.38 325 ePd    08 10.18   -0.4
                    eS    08 29.14
KNT      1.40 343 ePc    08 10.86    0.0
                    eS    08 29.58
     S.D. = 0.3   on   8 of   8 obs.
-----------------------------------------
*  JUL  22, 1991  04h 09m 04.09± 1 04s
   16.997 S ±12.9km  172.800 W ±21.5km
   DEPTH =  33.0km  (normal)
   4.9mb (  3 obs.)
 SAMOA ISLANDS REGION                (169)

AFI      3.22  18 iP     09 53.50   -0.2
                    eS    10 19.00
DZM     20.20 252 iPd    13 38.50   -0.5
PUZ     22.42 199 P      14 02.30    1.0
NOZ     22.99 199 P      14 05.80   -1.1
LTZ     28.68 203 P      15 00.60    0.4
CTAO    38.88 259 iPd    16 32.40    4.0X
        1.0s     35.00nm          5.1mb
STK     43.77 242 eP     17 06.70   -1.7
        1.7s      2.30nm          3.7mb X
WR2     50.04 258 iPc    17 59.00    1.1
        1.0s     10.80nm          4.8mb
WRA     50.06 258 P      17 59.00    0.9
        0.7s      7.80nm          4.8mb
KHC    147.53 352 PKP    28 47.00    3.2X
                    e     29 19.00
     S.D. = 1.2   on   8 of  10 obs.
-----------------------------------------
*  JUL  22, 1991  04h 49m 03.53± 0.79s
   35.215 N ± 8.9km   31.895 E ± 9.9km
   DEPTH =  33.0km  (normal)
 CYPRUS                              (372)
     MD 4.0 (HLW).

ELL      2.22 314 ePn    49 41.00    2.1
BHL      3.37 112 Pn     49 55.00   -0.1
                    Sn    50 33.00
YER      3.49 304 ePn    49 55.10   -1.9
KHL      3.64 329 ePn    49 58.70   -0.3
GAZ      4.72  64 ePg    50 14.20   -0.1
                    eSg   50 19.20
KOT      5.27 181 ePn    50 22.50    0.5
                    eSn   51 17.50
HLW      5.36 185 eP     50 23.00   -0.3
                    eS    51 19.80
     S.D. = 1.4   on   7 of   7 obs.
-----------------------------------------
%  JUL  22, 1991  05h 00m 02.41± 0.80s
   39.279 N ± 7.1km   27.803 E ±10.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
     MD 2.9 (ISK).

IZM      0.98 206 ePn    00 21.00    0.0
EDC      1.07   2 ePn    00 22.60    0.1
KGT      1.23 342 ePn    00 25.20   -0.1
IZI      1.66  50 ePn    00 31.50   -0.3
YLV      1.76  43 iPn    00 33.70    0.4
HRT      2.10  42 ePn    00 38.00   -0.1
     S.D. = 0.3   on   6 of   6 obs.
-----------------------------------------
%  JUL  22, 1991  06h 17m 37.30± 0.81s
   39.289 N ± 7.4km   27.956 E ± 9.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
     MD 3.1 (ISK).

IZM      1.04 212 iPn    17 57.00    0.0
EDC      1.06 356 iPn    17 57.40    0.2
KGT      1.26 337 iPn    18 00.70   -0.1
IZI      1.57  48 ePn    18 05.70    0.4
YLV      1.68  40 ePn    18 06.70   -0.2
HRT      2.02  40 ePn    18 11.50   -0.3
     S.D. = 0.3   on   6 of   6 obs.
-----------------------------------------
%  JUL  22, 1991  06h 19m 59.79± 0.73s
   39.031 N ± 6.0km   27.557 E ± 9.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
     MD 3.3 (ISK).

IZM      0.67 200 iPn    20 13.00   -0.2
KGT      1.43 352 iPn    20 26.20    0.4
KHL      1.69 114 ePn    20 30.00    0.4
IZI      1.97  48 iPn    20 33.20   -0.5
YLV      2.08  42 iPn    20 34.90   -0.3
CTT      2.22  17 ePn    20 37.00   -0.1
HRT      2.42  42 ePn    20 40.00    0.0
EYL      2.52  52 ePn    20 41.80    0.2
     S.D. = 0.4   on   8 of   8 obs.
-----------------------------------------
*  JUL  22, 1991  06h 32m 35.97± 1.15s
   67.734 N ± 7.3km  162.913 W ±12.7km
   DEPTH =  33.0km  (normal)
 ALASKA                              (676)
     ML 3.5 (PMR).

ANM      3.34 199 eP     33 27.00    0.0
IMA      4.00 110 ePd    33 37.40    0.8
BRW      4.19  28 ePc    33 39.50    0.5
TTA      5.62 146 eP     33 59.30   -0.1
FBA      6.72 108 ePc    34 15.40    0.7
SVW      7.36 151 eP     34 23.50   -0.3
INK     10.98  73 eP     35 12.00   -1.5
MBC     15.47  38 eP     36 13.00    0.1
     S.D. = 0.9   on   8 of   8 obs.
-----------------------------------------
   JUL  22, 1991  07h 13m 37.21± 0.45s
   12.710 N ± 7.4km  123.376 E ± 8.7km
   DEPTH =  22.8km  (  3 depth phases)
   4.7mb ( 12 obs.)  4.1Msz (  3 obs.)
 LUZON, PHILIPPINE ISLANDS           (249)

PLP      2.20 134 iPd    14 13.80    0.8
                    iS    14 30.00
PGP      2.49 289 iPc    14 18.00    0.9
                    iS    14 42.00
OCP      2.94 311 eP     14 46.50   23.0X
BAG      4.57 324 eP     14 46.80   -0.1
SZP      5.58 330 eP     15 07.50    6.5X
DAV      5.99 159 eP     15 25.00   18.2X
PIP      6.18 335 iPd    15 10.00    0.5
QIZ     14.45 297 eP     17 00.40   -2.0
SSE     18.41 354 P      17 53.00    0.3
        1.0s     12.00nm          4.0mb
      Z  20s      0.50um          4.0Msz
                    eS    21 08.00
WHN     19.61 336 eP     18 03.20   -3.9X
                    eS    21 46.00
NJ2     19.69 349 eP     18 08.00    0.0
      E  10s      0.20um
GYA     20.82 314 P      18 23.00    3.1X
      N  15s      0.40um
      E  15s      0.60um
KMI     23.06 305 Pc     18 45.00    2.6
        1.5s    130.00nm          5.2mb
CHG     24.27 288 eP     18 54.60    0.6
CHTO    24.27 288 eP     18 54.50    0.5
        1.0s      4.75nm          4.0mb
XAN     24.98 331 P      18 59.50   -1.2
CD2     25.61 318 eP     19 05.60   -1.1
TIY     26.75 340 eP     19 16.80   -0.4
      Z  20s      0.50um          4.1Msz
      E  16s      0.51um
BJI     27.95 348 eP     19 27.00   -1.0
LZH     29.18 326 eP     19 38.00   -1.3
        2.0s     53.00nm          4.9mb
      Z  18s      0.49um          4.2Msz
      E  15s      0.44um
                    pP    19 46.50   30km
                    sP    19 55.50
CN2     31.03   3 eP     20 00.00    4.6X
      Z  18s      0.30um          4.0Msz
                    epP   20 06.00   21km
GTA     33.78 326 P      20 20.10    0.4
        1.0s     10.00nm          4.7mb
      Z  24s      0.60um          4.2MszX
      E  13s      0.20um
                    pP    20 25.40   18km
                    sP    20 36.60
WRA     34.20 161 P      20 38.00   14.7X
        0.6s      1.50nm
WR2     34.21 161 eP     20 21.60   -1.8
        0.6s      4.60nm          4.6mb
GUN     38.10 299 P      20 57.00    0.3
        0.8s     89.00nm          5.6mb
PKI     38.41 298 P      20 58.60   -0.8
KKN     38.58 299 P      21 00.20   -0.4
        0.9s     23.00nm          4.9mb
DMN     38.68 298 P      21 01.00   -0.5
WARB    38.79 175 eP     21 02.40    0.3
GKN     39.18 299 P      21 05.80    0.2
        1.0s     56.00nm          5.2mb
WMQ     43.57 322 P      21 42.50    1.3
GBA     44.69 277 Pc     21 50.30   -0.3
        0.9s      6.80nm          4.5mb
STK     47.65 159 eP     22 13.60   -0.2
        1.0s      1.50nm          4.0mb
MAIO    61.58 304 iPd    23 35.80  -19.7X
INK     83.07  21 eP     26 02.00    0.0
MBC     83.96  12 eP     26 06.00   -0.4
VRI     85.56 316 eP     26 15.00    0.0
NB2     89.32 333 P      26 35.50    2.5
        0.8s      1.10nm          4.2mb
     S.D. = 1.1   on  30 of  38 obs.
-----------------------------------------
&  JUL  22, 1991  07h 48m 22.34s
   61.694 N          149.684 W
   DEPTH =  29.1km
 SOUTHERN ALASKA                     (  2)
     <AEIC>. ML 2.5 (AEIC), 2.8
     (PMR).

PWA      0.10 245 iPd    48 28.24    0.7
PLRM     0.28 111 iPd    48 28.76   -0.7
                    eS    48 34.61
PMR      0.28 111 iPd    48 29.00   -0.5
GHO      0.37  77 iPd    48 29.87   -0.9
                    eS    48 36.75
PMS      0.45 172 iPc    48 31.56   -0.5
SUA      0.56 246 iPc    48 33.15   -0.6
                    eS    48 41.46
KNK      0.65 115 iPc    48 33.71   -1.5
CUT      0.76 339 ePc    48 35.58   -1.4
SKT      0.92 289 iPc    48 38.17   -1.1
                    eS    48 50.88
CGLM     1.18 252 iPc    48 42.80   -0.2
NKA      1.22 219 ePc    48 44.77    1.4
NCG      1.22 257 iPc    48 43.31   -0.3
SLKM     1.22 193 ePc    48 42.27   -1.2
SPU      1.25 247 eP     48 43.85   -0.1
HUR      1.29   1 eP     48 43.62   -0.9
BGL      1.37 253 eP     48 45.40   -0.3
CKL      1.37 250 ePc    48 45.68   -0.1
GLI      1.49 122 ePc    48 46.10   -1.3
                    eS    49 05.85
SEW      1.60 176 eP     48 47.64   -1.3
VZW      1.64 112 ePc    48 48.47   -1.1
                    eS    49 09.98
KNIM     1.65 144 iPc    48 47.48   -2.2
VLZ      1.71 108 ePc    48 49.15   -1.3
TOA      1.71  75 ePc    48 50.41   -0.3
RDT      1.73 231 ePd    48 50.37   -0.6
RND      1.76  12 iPc    48 50.62   -0.8
TRF      1.79 351 ePc    48 51.00   -0.8
KLU      1.81  95 iPc    48 50.66   -1.5
DFR      1.83 234 eP     48 51.82   -0.6
NNL      1.84 206 eP     48 53.08    0.7
LTI      1.89 151 ePc    48 50.70   -2.4
REF      1.90 232 ePd    48 52.89   -0.6
RDN      1.91 233 eP     48 52.71   -0.9
RSO      1.94 232 eP     48 53.48   -0.6
NCT      1.94 236 eP     48 53.77   -0.3
RDW      1.95 233 eP     48 53.45   -0.7
KTH      1.95 344 iPc    48 53.64   -0.5
RED      1.97 231 eP     48 53.75   -0.7
BRLK     2.02 197 eP     48 54.79   -0.4
TZL      2.05  78 eP     48 55.61    0.1
SDG      2.12  65 eP     48 55.95   -0.6
GLB      2.82  93 eP     49 05.13   -1.3
SVW      2.92 261 eP     49 07.00   -0.8
PDB      2.93 231 eP     49 06.50   -1.4
CCB      3.08  15 eP     49 08.41   -1.7
TTA      3.20 296 eP     49 11.00   -0.9
FBA      3.33  14 eP     49 12.00   -1.6
MDM      3.34  11 eP     49 12.17   -1.7
     47 obs. associated
-----------------------------------------
?  JUL  22, 1991  08h 36m 03.50± 2.85s
   40.998 S ±20.2km   90.849 W ±61.2km
   DEPTH =  10.0km  (geophysicist)
   5.1mb (  2 obs.)
 WEST CHILE RISE                     (686)

CNCB    31.15  46 iPc    42 26.20    0.9
LPB     31.31  46 P      42 27.70    1.1
```

```
      Z  24s      1.94um          4.7MszX
                   LR    51 20.00
NNA     31.41  27 iPd   42 26.20  -0.8
        1.0s    25.00nm          5.1mb
ZOBO    31.52  45 iPc   42 29.00   0.5
        1.5s    48.39nm          5.2mb
      Z  24s      0.60um          4.2MszX
                   S     47 48.00
                   LR    51 24.00
CCH     31.72  49 eP    42 30.00   0.0
SIV     35.83  55 P     43 04.00  -1.2
SOB1    54.22  69 (P)   45 31.00  -0.7
NVL     55.84 157 Pc    45 43.00   0.2
      S.D. = 1.0  on   8 of   8 obs.
-----------------------------------
?  JUL  22, 1991  08h 55m 32.38± 4.98s
   41.697 N ±33.7km   22.847 E ±14.6km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                        (383)

KNT     0.54 176 iPc    55 43.44   0.2
                 eS     55 52.12
SRS     0.81 136 ePd    55 47.56  -0.5
                 eS     55 59.84
GRG     0.81 205 ePc    55 48.16   0.0
                 eS     56 00.32
SOH     0.95 156 ePc    55 51.00   0.4
                 eS     56 04.44
THE     1.07 175 ePc    55 51.88  -0.6
                 eS     56 06.48
OUR     1.61 147 ePd    56 01.32   0.4
      S.D. = 0.6  on   6 of   6 obs.
-----------------------------------
&  JUL  22, 1991  09h 04m 38.57s
   45.638 N          122.869 W
   DEPTH =  19.8km
 WASHINGTON-OREGON BORDER REGION ( 28)
      <SEA>. MD 3.5 (SEA). Felt (IV)
      at Hillsboro, Oregon and (III)
      at Banks, Cornelius and
      Portland, Oregon. Also felt
      (III) at La Center and
      Vancouver, Washington.

PGO     0.34 120 Pc     04 45.53  -0.4
KMOR    0.44 270 Pc     04 46.85  -0.7
RVW     0.52  10 Pd     04 48.25  -0.7
                 S      04 55.72
LVP     0.54  37 Pd     04 48.60  -0.7
VLMM    0.59  99 P      04 51.23   1.0
MTMW    0.60  50 Pd     04 49.50  -0.9
NLO     0.61 318 Pc     04 50.30  -0.1
GT2     0.64 139 Pd     04 50.13  -0.9
FL2     0.67  33 Pd     04 50.75  -0.7
SHW     0.71  38 Pd     04 51.51  -0.7
JLK     0.71  44 Pd     04 51.25  -1.0
HSR     0.72  42 Pd     04 51.75  -0.7
REMW    0.74  40 P      04 52.03  -0.7
CDFW    0.75  50 Pd     04 51.83  -1.0
STD     0.75  37 Pd     04 51.95  -1.0
ESD     0.75  42 P      04 52.23  -0.7
ERK     0.76  29 Pd     04 52.11  -1.0
SOSW    0.79  40 Pd     04 52.63  -0.9
TDH     0.84 114 Pc     04 53.40  -1.0
CZM     0.84  17 Pd     04 53.41  -0.9
APM     0.84  83 Pd     04 53.71  -0.7
TDL     0.85  32 Pd     04 53.53  -1.0
VLL     0.85 101 Pc     04 53.98  -0.7
BMW     0.87 343 Pd     04 53.75  -1.2
GULW    0.94  72 Pd     04 55.06  -1.0
KOSW    0.95  30 Pd     04 55.31  -0.9
ASR     1.03  60 Pd     04 56.49  -1.2
VFP     1.04 107 Pc     04 56.91  -0.9
VBEM    1.07 122 Pc     04 57.52  -0.9
COR     1.10 196 Pd     04 57.62  -1.1
LMW     1.11  21 Pd     04 58.16  -0.8
GLK     1.28  43 Pd     05 00.69  -0.8
LON     1.33  33 Pd     05 01.65  -0.5
CPW     1.35 352 Pd     05 01.50  -0.9
REMR    1.38  31 Pd     05 02.45  -0.5
ONR     1.39 334 P      05 02.54  -0.3
WPW     1.40  40 Pd     05 02.90  -0.3
GHW     1.46  16 Pd     05 03.35  -0.6
GL2     1.47  77 P      05 04.17   0.1
VGB     1.47  94 P      05 03.99  -0.2
CROR    1.48 116 Pc     05 04.09  -0.2
FMW     1.54  32 Pd     05 05.23   0.0
MEW     1.57   6 P      05 05.83   0.3
VTHM    1.69 105 Pc     05 06.84  -0.5
SMW     1.71 349 P      05 07.44  -0.2
GSM     1.73  25 Pd     05 08.28   0.3
TCO     1.78 149 Pc     05 08.76   0.0
NAC     1.79  52 Pd     05 09.26   0.4
GMO     1.81 131 Pc     05 08.77  -0.4
HBO     1.84 168 Pd     05 09.42  -0.1
YAKW    1.85  61 P      05 09.86   0.2
GMW     1.91   2 Pd     05 10.22  -0.3
VIPM    1.95 125 Pc     05 10.91  -0.4
SPW     1.96  12 Pd     05 12.14   1.0
RMW     1.96  22 Pd     05 11.82   0.5
HDW     2.02 356 Pd     05 12.10   0.0
MXC     2.02  61 Pd     05 12.24   0.1
EBG     2.04  51 Pd     05 12.85   0.4
HSO     2.12 184 P      05 13.85   0.3
JBO     2.14  94 P      05 13.23  -0.6
BRVW    2.18  66 Pd     05 14.38   0.0
PATW    2.19  83 P      05 14.50   0.0
PGW     2.19   5 P      05 15.26   0.7
TBM     2.19  45 Pd     05 15.27   0.6
OSD     2.26 346 P      05 16.32   0.7
BLH     2.27  14 P      05 16.56   0.9
OOW     2.29 337 P      05 16.35   0.4
HTW     2.29  19 Pd     05 16.93   0.9
PRW     2.29  74 P      05 15.85  -0.2
BLN     2.37 358 Pd     05 17.48   0.4
MDW     2.37  65 Pd     05 16.91  -0.2
BVW     2.38  59 P      05 17.05  -0.2
RSW     2.41  71 P      05 17.52  -0.1
DBO     2.53 186 P      05 20.46   1.0
WAH2    2.55  63 Pd     05 19.64   0.0
GBL     2.56  67 P      05 19.63  -0.1
STW     2.57 348 P      05 27.52   7.6
                 S      06 01.29
MJ2     2.61  68 Pd     05 20.32  -0.1
WIW     2.62  71 Pd     05 20.48  -0.1
LOCW    2.62  64 P      05 20.65   0.0
ETW     2.63  41 P      05 21.36   0.4
JCW     2.64  14 Pd     05 22.16   1.3
CRF     2.69  63 Pd     05 21.56  -0.1
RC1     2.72  60 P      05 22.03   0.0
OT2     2.75  65 P      05 22.59   0.2
CMW     2.83  10 Pd     05 25.18   1.5
EPH     2.84  52 P      05 23.88   0.2
WTV     2.88  43 P      05 24.57   0.3
ET3     2.89  70 P      05 24.65   0.2
WRD     2.91  61 P      05 24.08  -0.6
CBSW    2.91  41 P      05 29.10   4.3
RPW     2.96  18 Pd     05 26.87   1.4
NLW     3.00  35 P      05 27.18   1.2
PGC     3.04 353 eP     05 27.00   0.5
MCW     3.04   0 P      05 27.34   0.7
SAW     3.16  48 Pc     05 27.91  -0.4
                 S      06 38.14
DHW2    3.17  41 P      05 35.42   7.0
MBW     3.22  12 P      05 30.64   1.4
LNOR    3.22  84 P      05 27.36  -1.8
DPW     3.91  53 P      05 38.14  -0.8
PNT     4.29  30 P      05 45.00   0.7
      0.5s      7.60nm
LBFM    4.35 170 eP     05 46.50   1.2
NEW     4.73  54 eP     05 50.00  -0.6
LRM     7.29  85 ePn    06 26.40  -0.5
BONR    8.40 154 eP     06 44.70   2.3
TNP     8.64 149 eP     06 47.50   1.8
      106 obs. associated
-----------------------------------
&  JUL  22, 1991  09h 11m 46.80s
   45.637 N          122.867 W
   DEPTH =  17.1km
 WASHINGTON-OREGON BORDER REGION ( 28)
      <SEA>. MD 2.2 (SEA). Felt at
      Portland, Oregon.

PGO     0.34 120 P      11 53.81  -0.2
KMOR    0.44 270 Pc     11 54.99  -0.8
                 S      12 01.64
RVW     0.52   9 Pd     11 56.40  -0.7
                 S      12 03.89
LVP     0.54  36 Pd     11 56.76  -0.7
                 S      12 04.53
VLMM    0.59  99 P      11 57.78  -0.6
MTMW    0.60  49 Pd     11 57.61  -0.9
                 S      12 04.92
NLO     0.61 318 P      11 58.40  -0.3
GT2     0.64 139 P      11 58.28  -0.9
FL2     0.67  33 Pd     11 58.90  -0.8
SHW     0.71  38 P      11 59.95  -0.5
JLK     0.71  44 Pd     11 59.52  -0.9
HSR     0.72  41 P      12 00.15  -0.5
REMW    0.74  40 P      12 00.48  -0.5
CDFW    0.75  50 P      12 00.13  -0.9
STD     0.75  37 P      12 00.09  -1.0
ESD     0.75  42 P      12 00.52  -0.6
ERK     0.76  29 Pd     12 00.26  -1.1
                 S      12 10.60
SOSW    0.79  40 P      12 00.98  -0.8
TDH     0.83 114 P      12 01.54  -1.0
CZM     0.84  17 Pd     12 01.55  -1.0
APM     0.84  83 P      12 01.78  -0.8
TDL     0.85  32 Pd     12 01.66  -1.1
VLL     0.85 101 P      12 02.28  -0.6
BMW     0.88 343 P      12 01.87  -1.3
GULW    0.93  72 P      12 03.17  -1.1
KOSW    0.95  30 Pd     12 03.45  -1.0
                 S      12 16.75
ASR     1.03  60 Pd     12 04.65  -1.2
VBEM    1.07 122 P      12 05.69  -0.9
LMW     1.11  21 Pd     12 06.34  -0.8
GLK     1.28  43 P      12 08.76  -1.1
LON     1.33  33 P      12 09.80  -0.9
CPW     1.35 352 P      12 09.62  -1.3
REMR    1.38  31 P      12 10.80  -0.6
WPW     1.40  40 P      12 11.04  -0.6
GHW     1.46  16 P      12 11.43  -1.0
GL2     1.47  77 P      12 12.91   0.4
VGB     1.47  94 P      12 12.78   0.2
CROR    1.48 116 P      12 12.75   0.0
FMW     1.54  32 P      12 13.31  -0.4
VTHM    1.69 105 P      12 16.00   0.3
SMW     1.71 349 P      12 15.95  -0.2
GSM     1.73  25 P      12 16.38  -0.1
TCO     1.77 149 P      12 17.68   0.5
NAC     1.79  52 P      12 18.46   1.2
HBO     1.83 168 P      12 18.01   0.0
GMW     1.91   2 P      12 18.64  -0.3
VIPM    1.95 125_Pc     12 19.08  -0.6
RMW     1.96  22 P      12 19.97   0.2
HDW     2.02 356 P      12 20.36  -0.2
HTW     2.30  19 P      12 25.25   0.7
JCW     2.64  14 P      12 30.47   1.1
CRF     2.69  63 P      12 29.76  -0.3
RPW     2.96  18 P      12 35.11   1.2
      53 obs. associated
-----------------------------------
%  JUL  22, 1991  10h 38m 22.58± 2.67s
   40.277 N ±20.0km   29.672 E ± 7.5km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)

IZI     0.16 291 iPg    38 26.20  -0.2
YLV     0.37 322 ePg    38 30.20   0.0
EYL     0.47  52 ePn    38 32.20   0.0
HRT     0.54 360 ePn    38 33.30  -0.3
ISK     0.92 330 ePn    38 40.50   0.4
      S.D. = 0.4  on   5 of   5 obs.
-----------------------------------
%  JUL  22, 1991  10h 48m 14.24± 1.35s
   40.539 N ±11.6km   29.102 E ± 8.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      MD 2.4 (ISK).

YLV     0.21  82 iPg    48 19.20   0.4
                 iSg    48 22.10
IZI     0.35 125 ePn    48 21.20  -0.2
HRT     0.52  57 iPg    48 24.30  -0.4
CTT     0.79 320 ePg    48 29.70   0.0
                 eSg    48 40.70
EYL     0.81  88 ePg    48 30.20   0.3
      S.D. = 0.5  on   5 of   5 obs.
-----------------------------------
   JUL  22, 1991  11h 58m 55.86± 0.33s
   24.881 N ± 4.6km   99.186 E ± 5.4km
   DEPTH =  33.0km  (normal)
   4.8mb ( 21 obs.)  4.4Msz (  1 obs.)
 YUNNAN PROVINCE, CHINA            (318)
      ML 5.1 (BJI).

KMI     3.23  85 Pnd    59 48.00   2.3
CHG     6.04 182 ePn    00 24.20  -1.1
                 iPg    00 48.00
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22d 12h

```
                    eSg    02 05.00
GYA     6.93  75 Pn     00 37.00   -0.8
      Z  10s      3.80um
                    Sn     01 52.00
                    Sg     02 32.00
CD2     7.24  33 eP     00 41.00   -1.1
       0.6s    30.00nm          5.4mb
BDT     7.60 181 ePn    00 46.00   -1.1
                    ePg    01 16.40
                    eSg    02 13.20
LOE     7.81 162 ePn    00 50.00    0.0
                    ePg    01 20.00
                    eSg    03 01.00
LSA     8.61 306 P      00 57.20   -4.4X
NST     9.20 174 ePg    01 48.00   38.6X
                    eSg    03 47.00
KHT    10.06 183 eP     01 23.00    1.8
OIZ    11.47 118 P      01 38.80   -1.7
      E  10s      1.30um
                    eS     03 43.00
LZH    11.87  19 eP     01 45.00   -0.9
       2.5s    74.00nm          5.4mb
      Z  12s      3.77um          3.9MszX
      N  10s      3.29um
                    eS     04 00.00
GUN    12.30 287 P      01 46.80   -5.2X
XAN    12.45  41 P      01 49.60   -4.0X
                    S      04 14.00
PKI    12.65 285 P      01 50.86   -5.8X
KKN    12.80 286 P      01 53.44   -5.1X
DMN    12.93 285 P      01 54.84   -5.4X
GKN    13.40 287 P      02 00.66   -5.7X
GTA    14.50   2 eP     02 24.20    3.5X
      Z  14s      1.20um          4.1Msz
      E  12s      6.70um
                    pP     02 29.80
                    sP     02 34.00
                    SS     05 20.00
WHN    14.56  64 eP     02 22.00    0.6
      Z  12s      2.40um
TIY    17.06  38 eP     02 53.00   -0.5
       1.0s    30.00nm          4.4mb
      Z  14s      1.79um          4.2Msz
BTO    18.10  27 P      03 08.00    1.5
      N  11s      1.10um
      E  10s      1.50um
                    ePP    03 24.00
                    sS     06 38.00
NJ2    18.69  63 Pc     03 15.00    1.3
      Z  10s      1.90um
      N  10s      3.90um
                    sS     06 50.00
HHC    18.98  30 P      03 16.00   -1.3
      Z  10s      1.90um
                    pP     03 27.00
TIA    19.10  50 P      03 18.60    0.0
      Z  12s      1.40um
      N  10s      1.10um
      E  10s      1.10um
                    S      06 45.00
SSE    20.38  67 Pc     03 32.50    0.1
       1.2s    50.00nm          4.7mb
      N  10s      4.50um
      E  10s      1.40um
HYB    20.61 253 eP     03 32.00   -3.0X
BJI    20.78  39 eP     03 36.50    0.0
       1.2s    60.00nm          4.9mb
      Z  14s      0.88um          4.3MszX
      N  10s      0.99um
                    sS     07 36.00
WMO    21.10 336 P      03 39.00   -0.9
      Z  10s      1.20um          4.6MszX
      N  10s      2.90um
                    pP     03 50.00   44kmX
                    PP     04 05.50
                    S      07 32.00
GBA    23.36 245 Pc     04 02.50    0.1
       1.3s    66.70nm          5.0mb
DL2    23.55  48 Pd     04 05.00    0.9
      Z  12s      0.80um          4.4MszX
      E  11s      0.70um
                    sS     08 28.00
KSH    24.34 312 P      04 15.00    3.1X
                    sS     08 40.00
KOD    25.26 239 eP     04 22.00    0.9
SNY    26.34  44 Pd     04 29.80   -0.7
       1.0s    40.00nm          5.0mb
      N  12s      0.80um
CN2    28.56  42 eP     04 50.00   -0.7
      Z  12s      1.50um          4.8MszX
      N  10s      0.50um
      E  10s      0.20um
                    epP    04 59.00   31kmX
                    eS     09 35.00
QUE    29.01 288 eP     04 53.10   -2.1
MAIO   35.79 298 eP     05 55.00    0.9
                    eS     11 34.00
WRA    56.17 139 P      08 34.00   -1.0
       0.8s    13.40nm          5.0mb
WR2    56.19 139 iPc    08 34.70   -0.4
       0.6s    14.10nm          5.2mb
KSP    66.75 317 eP     09 50.20    4.3X
NB2    67.60 328 P      09 51.10   -0.1
       0.7s     0.90nm          4.0mb
KHC    68.83 315 P      10 05.50    6.4X
                    e      10 25.50
SVW    75.51  29 eP     10 39.40    0.9
       1.1s    13.75nm          4.9mb
LBF    75.61 315 eP     10 42.20    2.9X
       1.0s     6.00nm          4.5mb
SSF    75.88 315 eP     10 41.90    1.1
       0.9s     4.90nm          4.5mb
AVF    76.08 315 eP     10 45.00    3.1X
       0.8s     3.35nm          4.4mb
MBC    76.34   9 eP     10 43.00    0.2
MAF    76.80 315 eP     10 49.40    3.4X
       1.0s     5.00nm          4.5mb
FBA    76.88  24 eP     10 45.60   -0.5
       1.1s     7.50nm          4.6mb
TCF    77.00 315 eP     10 49.80    2.7X
       1.0s     6.00nm          4.6mb
RJF    77.83 314 eP     10 58.00    6.4X
       0.8s     8.05nm          4.8mb
      Z  20s      0.17um          4.4Msz
PMR    78.05  27 eP     10 51.90   -0.6
       1.1s    13.75nm          4.9mb
INK    79.41  18 eP     10 55.00   -4.8X
LSZ    79.87 248 iPc    11 04.00    0.7
BALM   81.10  26 eP     11 10.50    1.4
BUL    81.92 244 iPc    11 14.50    0.4
       1.0s    15.00nm          5.0mb
SEK    86.80 237 iPd    11 41.40    2.8X
       0.8s     7.46nm          5.0mb
     S.D. = 1.1  on  36 of  56 obs.
-----------------------------------
%  JUL  22, 1991  13h 03m 13.51± 1.14s
   39.289 N ± 8.3km   27.934 E ±12.5km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
     MD 2.8 (ISK).

IZM     1.03 211 iPn     03 32.70   -0.4
EDC     1.06 357 ePg     03 32.60   -0.8
                    eSg    03 47.60
KGT     1.26 337 iPn     03 36.80   -0.1
EZN     1.35 294 ePn     03 39.10    0.7
YLV     1.69  40 ePn     03 43.80    0.5
     S.D. = 0.9  on   5 of   5 obs.
-----------------------------------
   JUL  22, 1991  13h 03m 39.95± 1.14s
   36.507 N ± 9.9km   71.313 E ± 6.2km
   DEPTH = 119.5 ± 13.4 km
   4.6mb ( 10 obs.)
 AFGHANISTAN-USSR BORDER REGION  (717)

QUE     7.28 211 eP      05 25.70    0.4
                    eS     06 44.50
NDI     9.25 146 eP      05 51.00   -0.8
       0.5s    28.17nm          5.3mb
                    eS     07 28.50
MAIO    9.53 272 iPnc    05 55.30   -0.3
       0.9s    24.30nm          5.0mb
                    eSn    07 36.00
GKN    14.10 123 P      06 55.78    0.2
DMN    14.67 123 P      07 03.12    0.2
KKN    14.67 122 P      07 02.96    0.1
PKI    14.90 123 P      07 05.76   -0.1
GUN    15.00 121 P      07 07.34    0.1
GBA    23.46 165 Pd     08 40.40    1.0
       0.4s     4.00nm          4.2mb
HFS    43.22 322 eP     11 30.40    0.1
       0.7s    13.60nm          4.8mb
      Z  16s      0.03um          3.3MszX
                    LR     26 36.00
NB2    44.53 323 P      11 40.40   -0.5
       0.7s     3.30nm          4.2mb
EKA    52.46 316 P      12 42.00   -0.1
       1.3s     9.70nm          4.6mb
MBC    67.32   3 eP     14 24.00    0.7
       0.6s     4.00nm          4.5mb
INK    73.86   9 eP     15 03.00    0.3
YKA    81.23   3 eP     15 43.50    0.2
       0.4s     1.60nm          4.2mb
WRA    81.78 122 P      15 46.00   -0.8
       0.4s     2.30nm          4.3mb
WR2    81.80 122 iPd    15 46.20   -0.7
       0.4s    10.20nm          5.0mb
     S.D. = 0.6  on  17 of  17 obs.
-----------------------------------
*  JUL  22, 1991  13h 24m 45.73± 1.46s
   37.311 N ±12.9km   21.052 E ± 9.9km
   DEPTH =  33.0km  (normol)
 SOUTHERN GREECE                   (368)
     MD 3.4 (ATH).

VLS     0.94 337 iPgc    25 03.80    1.2
                    eSg    25 21.50
VLI     1.62 111 ePb     25 13.00    0.7
AGG     1.98  30 ePc     25 21.38    3.7X
                    eS     25 45.38
KEK     2.59 338 ePb     25 34.50    8.3X
LIT     3.00  22 ePc     25 32.50    0.4
                    eS     26 04.82
KZN     3.04  10 ePn     25 34.50    1.8
PAIG    3.33  37 ePc     25 35.66   -1.0
OUR     3.79  36 ePd     25 41.66   -1.5
KNT     4.10  20 iPd     25 46.58   -1.1
CZI     4.31 298 P       25 49.60   -1.1
MMB     4.75  25 eP      25 57.00    0.2
RZN     5.21  32 iPc     26 04.00    0.5
     S.D. = 1.3  on  10 of  12 obs.
-----------------------------------
?  JUL  22, 1991  13h 44m 13.68±11.16s
   41.050 N ±39.4km   27.851 E ±74.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)

CTT     0.45  77 iPg     44 23.30    0.5
ISK     0.91  89 ePg     44 30.00   -1.1
YLV     1.25 112 ePg     44 37.30    0.3
HRT     1.40  99 ePn     44 40.30    1.1
IZI     1.42 119 ePn     44 36.80   -2.9X
EYL     1.82 105 ePn     44 44.70   -0.6
     S.D. = 1.3  on   5 of   6 obs.
-----------------------------------
   JUL  22, 1991  14h 13m 15.10± 0.17s
   40.701 N ± 3.2km   52.065 E ± 2.8km
   DEPTH =  33.0km  (normol)
   4.7mb ( 42 obs.)  3.5Msz (  4 obs.)
 TURKMEN SSR                       (340)

TEH     4.98 186 ePc     14 30.00    0.3
IR7     5.12 193 iPd     14 32.00    0.3
TAB     5.16 241 eP      14 33.00    0.7
IR1     5.39 192 iPd     14 35.50    0.1
IR4     5.53 190 iPd     14 38.00    0.6
IR5     5.60 193 eP      14 38.50    0.1
MAIO    7.30 125 iPnc    15 01.30   -0.9
       0.9s    21.31nm          5.1mb
                    eSn    16 22.00
DHR    14.45 187 iPd     16 38.00   -1.1
QUE    16.01 126 eP      17 02.50    2.9X
RYD    16.58 198 iP      17 07.50    0.8
OBN    17.69 330 eP      17 19.00   -1.3
       1.5s  *******nm          7.6mb X
      Z  16s      0.50um          3.9MszX
                    i      17 37.00
                    eS     20 23.00
HOL    17.98 236 iP      17 24.70    0.7
MLR    19.63 293 ePc     17 44.50    0.6
CMP    20.25 292 ePc     17 51.00    0.8
KMSA   21.27 200 iPc     18 00.00   -0.9
NDI    23.82 112 eP      18 28.00    2.1
SPC    23.92 301 eP      18 28.70    1.7
KRA    24.26 303 eP      18 30.40    0.4
       0.6s    21.00nm          4.9mb
                    e      18 43.00
SRO    25.05 298 eP      18 48.10   10.5X
ZST    25.89 299 iP      18 45.40    0.0
NUR    26.05 329 eP      18 47.20    0.5
KAF    26.46 333 eP      18 51.80    1.3
```

```
HVAR    26.49 287 eP     18 52.60    1.6
KSP     26.69 304 ePc    18 53.10    0.3
PRU     27.70 302 P      19 02.50    0.5
BRG     28.17 304 iPd    19 17.60   11.4X
        1.0s     20.00nm
                  i      19 19.00
KHC     28.27 300 P      19 07.00   -0.2
        1.0s      5.40nm          4.2mb
CLL     28.81 305 eP     19 12.00    0.0
                  e      19 25.00
GKN     29.55 105 P      19 19.24    0.2
WTTA    29.56 296 iPd    19 18.60   -0.4
        0.6s     11.80nm          4.8mb
MOX     29.63 303 iP     19 20.30    1.0
GRF     29.83 301 e(P)   19 23.00    1.8
DMN     30.11 105 P      19 24.14   -0.1
        0.6s      8.00nm          4.7mb
KKN     30.14 105 P      19 24.22   -0.2
        0.7s     11.00nm          4.8mb
SOD     30.15 341 eP     19 33.00    9.1X
PKI     30.36 105 P      19 25.42   -1.0
        0.6s      7.00nm          4.7mb
GUN     30.52 104 P      19 28.22    0.4
HFS     30.60 322 eP     19 26.50   -1.4
        0.7s      2.70nm          4.2mb
      Z  18s      0.09um          3.5Msz
                  LR     30 06.00
NB2     32.07 323 P      19 39.40   -1.4
        0.9s      5.30nm          4.4mb
CDF     32.44 299 eP     19 43.00   -1.3
        0.8s      5.35nm          4.5mb
BSF     32.81 298 eP     19 47.60    0.2
HAU     33.09 298 eP     19 48.80   -1.0
        1.0s     14.00nm          4.8mb
      Z  20s      0.05um          3.2Msz
LPG     33.09 294 eP     19 49.40   -0.8
        0.8s      5.35nm          4.5mb
LPL     33.10 294 eP     19 50.00   -0.2
        0.8s      6.70nm          4.6mb
LBF     34.80 297 eP     20 03.50   -1.1
        0.8s      8.05nm          4.7mb
SMF     34.94 296 eP     20 06.40    0.7
        0.8s      6.05nm          4.6mb
GBA     34.94 133 Pc     20 06.30    0.3
        0.9s      5.80nm          4.5mb
AVF     35.25 297 eP     20 07.90   -0.4
        0.8s      8.05nm          4.7mb
MAF     35.87 296 eP     20 13.90    0.2
        0.8s      5.35nm          4.5mb
TCF     36.10 296 eP     20 15.90    0.2
        0.8s      4.70nm          4.5mb
GTA     36.22  76 Pc     20 18.00    1.2
        0.8s     10.00nm          4.8mb
                  pP     20 22.20   14kmX
                  sP     20 24.00
CAF     36.45 294 eP     20 18.80    0.2
        1.2s      8.95nm          4.5mb
LSF     36.58 296 eP     20 19.60    0.0
        0.8s     11.40nm          4.8mb
RJF     36.76 294 eP     20 21.60    0.5
        1.6s     31.10nm          4.9mb
      Z  20s      0.08um          3.5Msz
LPO     37.11 293 eP     20 25.60    1.5
        1.0s      4.00nm          4.2mb
LDF     37.32 300 eP     20 25.40   -0.4
        0.9s      6.55nm          4.5mb
LFF     37.37 294 eP     20 26.20    0.0
        0.8s      9.40nm          4.7mb
FLN     37.54 300 eP     20 27.00   -0.6
        0.9s      9.85nm          4.7mb
      Z  20s      0.08um          3.5Msz
LPF     38.01 299 eP     20 31.40   -0.2
        0.8s      4.05nm          4.3mb
EKA     38.66 311 Pd     20 37.00    0.1
        0.6s      9.50nm          4.8mb
CD2     42.52  86 eP     21 10.40    1.3
BTO     43.26  70 eP     21 16.00    0.9
HHC     44.28  69 eP     21 24.60    1.3
KMI     44.68  94 Pc     21 27.50    0.6
        1.5s     60.00nm          5.2mb
                  sP     21 41.50
XAN     45.00  80 Pd     21 29.80    0.6
CHTO    45.53 104 eP     21 33.10   -0.4
        0.9s      2.56nm          4.1mb
TIY     46.07  73 eP     21 38.20    0.6
GYA     46.95  90 P      21 43.80   -0.9
        1.2s     20.00nm          5.0mb
```

```
CN2     52.74  61 Pd     22 29.00    0.2
                pP      22 34.00   16kmX
NJ2     53.31  77 eP     22 32.80   -0.3
SSE     55.51  77 P      22 48.50   -0.7
        1.1s     17.00nm          5.0mb
KIC     60.97 252 P      23 26.30   -1.3
TIC     60.98 252 P      23 26.32   -1.3
LIC     61.27 252 P      23 28.22   -1.4
MBC     63.21 358 eP     23 42.00    0.3
MAT     64.77  63 eP     23 51.00   -1.6
        0.8s      5.97nm          4.7mb
INK     71.23   2 eP     24 32.00   -0.3
FBA     73.59   9 iP     24 47.00    0.7
        1.0s     20.00nm          5.1mb
SVW     76.06  13 eP     25 01.60    1.0
        1.0s     10.00nm          4.8mb
YKA     76.60 354 eP     25 02.40   -1.1
        0.8s      2.30nm          4.2mb
PMR     76.62  10 eP     25 04.10    0.5
        1.0s     13.00nm          4.9mb
SLKM    77.50  11 eP     25 08.60    0.0
BALM    77.94   7 eP     25 11.00   -0.1
SES     88.08 349 eP     26 03.00   -0.3
NEW     90.90 353 eP     26 15.00   -1.6
        1.1s      3.70nm          4.6mb
RSSD    92.86 343 eP     26 25.00   -1.0
        1.0s      5.42nm          4.9mb
WRA     97.13 110 P      26 44.00   -1.3
        0.6s      2.20nm          4.9mb
WR2     97.15 110 iPd    26 44.00   -1.4
        0.6s      4.40nm          5.2mb
                  i      26 57.30
      S.D. = 0.9  on  84 of  88 obs.
-----------------------------------
?  JUL  22, 1991  14h 36m 21.11± 7.91s
   33.922 N ±120.km   56.409 E ±35.3km
   DEPTH =  33.0km  (normol)
   4.0mb (  1 obs.)
 IRAN                                (348)

IR4      4.73 288 eP     37 32.00   -0.1
IR1      4.94 289 eP     37 34.00   -1.2
IR5      4.98 287 eP     37 37.00    1.3
IR7      5.09 292 eP     37 40.00    2.7X
HFS     38.12 327 eP     43 38.70    0.2
        0.3s      0.80nm          4.0mb
CDR     40.11 299 eP     43 54.90   -0.3
                  e      44 09.20
      S.D. = 1.3  on   5 of   6 obs.
-----------------------------------
   JUL  22, 1991  14h 37m 17.42± 0.60s
   26.283 S ± 5.6km   27.214 E ± 8.0km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA          (584)
      mbLg 3.4 (BUL).

PRY      0.68 160 iPd    37 31.50    0.4
                  S      37 38.00
SLR      1.11  61 iPd    37 37.50   -1.2
                  S      37 49.90
SEK      2.06 170 iPd    37 57.70    4.4X
                  S      38 22.00
FRS      3.84 205 eP     38 19.30    0.9
                  S      38 58.60
JOZ      4.50 106 eP     38 23.50   -4.3X
                  S      39 12.00
BUL      6.25  12 iPnd   38 53.90    1.3
                  iSn    40 00.10
                  iS*    40 17.50
                  iSg    40 32.50
CIR      6.60  38 iPn    38 58.00    0.5
                  iSn    40 08.00
                  iSg    40 42.50
CER      9.85 222 eP     39 41.50   -1.3
                  S      41 27.50
WIN      9.93 290 eP     39 44.00   -0.1
        0.9s     42.02nm          5.9mb X
                  S      41 24.00
LSZ     10.99   5 iPn    39 58.50    0.0
                  iSn    41 58.00
                  iSg    43 03.00
KMZ     12.83 354 ePn    40 23.00   -0.4
                  iSn    42 42.00
                  iSg    44 03.80
      S.D. = 1.0  on   9 of  11 obs.
-----------------------------------
   JUL  22, 1991  15h 45m 14.86± 0.58s
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   45.457 N ± 5.7km   21.076 E ± 5.0km
   DEPTH =  19.1 ±  6.8 km
 ROMANIA                             (358)

TIM      0.30  20 iPc    45 22.00    0.5
SSR      0.76 141 iPc    45 28.00   -1.3
BEO      0.77 215 iPg    45 30.60    1.1
                  iSg    45 42.10
GZR      1.20  92 iPc    45 36.50   -0.2
DEV      1.35  71 iPc    45 39.00    0.3
UZD      2.08 304 e(Pn)  45 50.00    0.8
DRA      2.38 108 ePd    46 22.00   28.4X
CEI      2.42  23 eP     46 39.00   44.9X
BUD      2.47 326 e(Pn)  45 55.00    0.2
PSZ      2.59 342 iPnd   45 57.90    1.2
BMR      2.78  36 ePd    46 16.00   16.9X
CMP      2.80  92 ePc    46 04.00    4.5X
SRO      3.03 322 eP     46 01.70   -1.0
MLR      3.42  88 ePc    46 16.00    7.5X
PTJ      3.61 279 iPn    46 10.70   -0.5
                  eSn    47 03.80
SPC      3.78 352 eP     46 12.30   -1.2
                  i      46 30.70
ZST      3.87 317 i(Pn)  46 14.50   -0.1
                  e      56 23.00
VRI      3.98  82 eP     46 17.00    0.7
KHC      6.28 308 P      46 48.50   -0.4
                  e      47 57.00
PRU      6.32 318 eP     46 56.00    6.6X
                  e      47 51.00
                  e      47 58.50
      S.D. = 0.9  on  14 of  20 obs.
-----------------------------------
&  JUL  22, 1991  16h 07m 17.63s
   60.490 N          151.661 W
   DEPTH =  62.5km
 KENAI PENINSULA, ALASKA             ( 14)
      <AEIC>.

NKA      0.33  39 iPd    07 29.90    1.6
RDT      0.38 283 iPc    07 28.18   -0.7
                  eS     07 37.31
NNL      0.48 158 iPc    07 30.49    0.7
REF      0.52 270 iPc    07 29.63   -0.7
DFR      0.52 282 iPc    07 29.48   -0.8
RSO      0.54 268 iPc    07 29.85   -0.8
                  eS     07 40.09
RDN      0.55 273 iPc    07 29.74   -0.9
RED      0.56 263 iPc    07 29.78   -0.9
                  eS     07 39.95
RDW      0.57 270 iPc    07 30.11   -0.8
NCT      0.63 277 iPc    07 30.78   -0.8
                  eS     07 41.79
SLKM     0.71  88 iPc    07 31.96   -0.5
SPU      0.72 345 iPd    07 31.67   -0.9
                  eS     07 44.12
CKL      0 78 335 iPd    07 32.71   -0.7
HOM      0.83 179 eP     07 33.88    0.0
                  eS     07 45.97
CGLM     0.84 349 iPd    07 33.45   -0.6
                  eS     07 46.32
BGL      0.85 336 iPd    07 33.72   -0.5
                  eS     07 46.83
IVS      0.86 236 eP     07 33.52   -0.9
NCG      0.95 345 iPd    07 34.94   -0.5
                  eS     07 48.76
CNPM     0.99 167 ePd    07 35.48   -0.5
                  eS     07 49.70
XLV      1.04 182 ePd    07 35.75   -0.8
SUA      1.07  24 iPd    07 36.83   -0.3
SEW      1.17 108 ePc    07 37.08   -1.1
PMS      1.28  53 ePc    07 39.21   -0.6
AUE      1.42 218 ePd    07 40.66   -1.1
AUH      1.44 219 ePd    07 41.29   -0.8
PDB      1.45 242 iPc    07 40.29   -1.8
PWA      1.45  36 ePc    07 41.80   -0.3
AUI      1.46 218 eP     07 41.78   -0.5
                  S      08 00.02
SKT      1.50   2 iPd    07 42.03   -0.7
                  eS     08 01.89
PLRM     1.66  47 ePc    07 43.71   -1.2
KNK      1.82  58 iPc    07 46.12   -1.1
GHO      1.85  45 ePc    07 46.44   -1.3
CDD      1.86 214 ePd    07 46.79   -1.0
MCNL     1.88 227 ePc    07 46.63   -1.5
SYI      1.92 191 ePd    07 47.83   -0.8
LTI      1.95 102 iPc    07 46.86   -2.2
```

22d 16h

```
KNIM     1.95  92 iPc    07 46.57  -2.5
CUT      2.03  19 ePd    07 49.62  -0.6
SVW      2.04 289 ePc    07 47.66  -2.7
MTU      2.06 102 iPc    07 48.54  -2.1
BGM      2.11 240 eP     07 49.69  -1.6
GLI      2.28  78 iPc    07 50.70  -3.0
VZW      2.57  75 iPc    07 55.21  -2.5
HUR      2.68  20 eP     07 59.83   0.6
VLZ      2.69  74 ePc    07 56.79  -2.6
KLU      2.97  68 iPc    08 01.21  -2.3
TRF      3.04  12 eP     08 03.86  -0.7
KTH      3.09   6 ePd    08 04.74  -0.4
TOA      3.10  56 ePc    08 03.88  -1.4
RND      3.21  23 ePd    08 06.21  -0.6
TZL      3.39  60 eP     08 07.45  -1.8
SDG      3.57  52 ePd    08 10.26  -1.6
PAX      3.86  47 iPc    08 14.45  -1.4
GLB      3.94  73 iPc    08 14.05  -3.0
WRH      4.33  21 eP     08 20.59  -1.8
TGL      4.36  83 eP     08 18.92  -4.1
CCB      4.54  21 ePd    08 23.57  -1.8
BALM     4.60  79 ePc    08 22.70  -3.7
MDM      4.75  18 ePd    08 26.66  -1.8
FBA      4.77  20 ePd    08 26.96  -1.7
CTGM     5.09  80 ePc    08 30.78  -2.6
PNL      6.19  92 eP     08 44.81  -3.8
        62 obs. associated
-----------------------------------------
?  JUL  22, 1991  17h 05m 34.31± 1.28s
   12.904 S ±46.1km   73.261 W ±19.9km
   DEPTH =  33.0km  (normal)
 PERU                                (116)

NNA      3.61 284 iP     06 30.20   0.8
         0.4s    32.20nm
                  eS     07 02.30
PT10     3.71 282 e(P)   06 30.00  -0.8
                  e(S)   07 04.00
ZOBO     5.99 125 eP     07 04.00   0.4
LPB      6.16 126 P      07 07.00   1.1
CNCB     6.41 128 P      07 08.20  -1.3
SIV     12.20 106 P      08 28.60  -0.2
      S.D. = 1.2  on   6 of   6 obs.
-----------------------------------------
   JUL  22, 1991  17h 12m 50.29± 0.40s
   23.454 N ± 6.2km  142.922 E ± 8.2km
   DEPTH =  33.0km  (normal)
   5.0mb ( 21 obs.)  4.0Msz (  6 obs.)
 VOLCANO ISLANDS REGION              (213)

MAT     13.66 344 (P)    16 02.00  -2.1
         0.6s    14.67nm          5.0mb
                  (S)    18 25.00
SSE     20.74 296 Pd     17 31.20   0.5
         0.5s    90.00nm          5.4mb
      Z  20s     0.50um          3.9Msz
      E  14s     0.40um
                  pP     17 42.00  44kmX
                  S      21 20.00
PLP     21.01 237 ePd    17 37.00   3.5X
         1.0s    41.00nm          4.8mb
NJ2     22.92 297 Pd     17 53.80   1.4
         1.0s   100.00nm          5.3mb
      Z  18s     0.30um          3.8Msz
                  sS     22 07.00
SNY     24.42 323 Pd     18 06.20  -0.7
         1.2s    40.00nm          4.9mb
      Z  20s     0.40um          3.9Msz
                  S      22 26.00
TIA     25.65 306 P      18 18.70   0.0
WHN     26.37 292 Pc     18 26.50   1.1
         0.7s    40.00nm          5.1mb
BJI     27.97 313 eP     18 38.00  -1.8
      Z  24s     0.32um          3.8MszX
TIY     29.69 306 eP     18 54.50  -1.0
      Z  20s     0.50um          4.1Msz
      N  15s     0.40um
HHC     31.49 311 eP     19 10.40  -1.0
XAN     31.49 297 P      19 11.00  -0.4
BTO     32.47 310 eP     19 19.00  -1.0
GYA     32.94 283 P      19 24.60   0.4
CD2     35.48 291 eP     19 46.00   0.0
LZH     35.95 300 iPc    19 50.00   0.0
         1.0s    34.00nm          5.2mb
      Z  28s     0.51um          4.1MszX
                  sP     20 04.00
KMI     36.57 281 Pd     19 57.50   2.1
         1.5s    40.00nm          5.1mb
                  sP     20 12.00
YAK     39.58 350 iPc    20 20.30   0.4
                  e      21 26.00
                  e      35 27.00
GTA     39.68 304 Pc     20 21.20   0.0
         0.8s    10.00nm          4.6mb
      Z  21s     0.30um          4.1Msz
                  pP     20 25.30  14kmX
                  sP     20 28.80
                  PP     21 57.20
                  PcP    22 28.80
                  ScP    26 12.60
CHG     41.16 272 iPc    20 35.00   1.5
         1.0s    34.00nm          5.0mb
BDT     41.52 270 eP     20 38.10   1.8
         0.8s    83.10nm          5.5mb
WR2     43.94 192 iPd    20 55.80  -0.2
         0.3s    30.90nm          5.6mb
                  iScP   26 30.10
WRA     43.94 192 P      21 15.00  19.0X
         0.8s     8.10nm
LSA     46.41 289 Pc     21 16.30   0.1
WMQ     49.29 308 eP     21 38.00  -0.1
      Z  24s     0.30um          4.2MszX
                  pP     21 50.00  43kmX
                  ScS    31 29.00
WARB    51.80 199 iPd    21 57.90   0.7
STK     55.04 181 eP     22 20.50  -0.5
         0.7s     5.80nm          4.7mb
FORR    55.83 195 eP     22 26.00  -0.8
SVW     56.01  31 eP     22 17.00 -10.9X
COOL    57.92 202 eP     22 40.00  -1.7
IMA     58.06  25 eP     22 31.80 -10.6X
PMR     59.17  31 eP     22 37.80 -12.2X
         0.7s     8.30nm
BAL     59.35 206 eP     22 51.00  -0.6
KLB     59.80 205 eP     22 53.50  -1.2
HYB     60.20 277 eP     22 57.80   0.0
NWAO    61.19 205 eP     23 03.50  -0.6
GBA     62.42 274 Pd     23 12.10  -0.7
         0.8s     7.40nm          4.9mb
QUE     67.00 294 iPc    23 43.50   0.9
MBC     69.22  15 ePc    23 56.40   1.0
         0.5s     9.00nm          5.1mb
MAIO    71.45 302 iPc    24 11.30   1.5
YKA     75.02  28 eP     24 30.20   0.2
         0.6s     3.60nm          4.5mb
DAG     79.38 356 iPd    24 55.00   1.0
         0.8s     7.46nm          4.7mb
KAF     81.04 335 iP     25 02.90  -0.1
         0.6s     8.10nm          4.9mb
SES     81.85  38 eP     25 09.00   1.4
NUR     82.61 334 eP     25 10.70  -0.5
FFC     84.47  32 iPc    25 22.30   1.5
         0.8s    10.00nm          5.0mb
HFS     87.02 337 eP     25 31.20  -2.2
         0.6s     6.50nm          5.0mb
      Z  18s     0.06um          4.1Msz
                  LR     59 38.00
NB2     87.23 339 P      25 33.70  -0.8
         0.9s     7.30nm          4.9mb
KRA     91.13 327 eP     25 52.30  -0.7
KSP     92.37 329 eP     25 58.50  -0.2
CLL     93.54 331 eP     26 07.00   2.9X
KHC     94.82 329 P      26 09.50  -0.6
ZOBD   149.98  82 PKP    32 36.00   0.7
                  i      32 41.80
LPB    150.09  82 ePKP   32 41.00   5.8X
CNCB   150.28  83 PKP    32 36.90   1.2
SIV    156.25  76 (PKP)  32 36.00  -7.4X
      S.D. = 1.1  on  47 of  55 obs.
-----------------------------------------
?  JUL  22, 1991  17h 31m 19.72± 1.53s
     4.244 S ±26.6km  149.223 E ±10.7km
   DEPTH = 102.5 ± 24.7 km
   4.4mb (  1 obs.)
 BISMARCK SEA                        (203)

RAB      2.94  89 eP     32 05.50   0.0
LAT      3.26 223 eP     31 25.00 -44.8X
MDG      3.57 254 iPd    32 14.00  -0.1
YYYY     3.80 238 iPd    32 17.60   0.2
                  eS     32 34.30
PMG      5.53 202 eP     32 41.00  -0.1
                  eS     33 40.00
WR2     21.29 222 iPd    36 03.50   3.8X
         0.3s     5.60nm          4.4mb
                  e      36 10.10
                  iPcP   40 15.70
RMQ     22.12 181 iPd    36 07.90   0.0
      S.D. = 0.2  on   5 of   7 obs.
-----------------------------------------
%  JUL  22, 1991  18h 02m 25.98± 3.41s
   44.172 N ±25.8km   11.704 E ±18.6km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                      (545)

SFI      0.27 157 P      02 31.80   0.1
                  eSg    02 39.00
PGD      0.30 178 P      02 32.40   0.2
                  eSg    02 39.20
CRE      0.57 162 P      02 37.40  -0.3
                  eSg    02 48.50
MME      0.72 272 P      02 41.00   0.6
                  eSg    02 50.00
BDI      0.80 263 P      02 40.80  -0.8
                  eSg    02 52.00
PII      0.96 243 P      02 44.50   0.2
      S.D. = 0.6  on   6 of   6 obs.
-----------------------------------------
%  JUL  22, 1991  18h 38m 56.04± 0.89s
   45.280 N ± 9.6km   21.031 E ± 9.6km
   DEPTH =  33.0km  (normal)
 ROMANIA                             (358)

TIM      0.48  16 iPd    39 07.00   0.7
BEO      0.61 222 iPg    39 08.40   0.1
                  iSg    39 19.00
GZR      1.24  84 iPc    39 17.00  -0.2
DEV      1.45  65 iPc    39 20.00  -0.1
PSZ      2.75 344 eP     39 38.30  -0.6
      S.D. = 0.7  on   5 of   5 obs.
-----------------------------------------
%  JUL  22, 1991  19h 51m 10.17± 1.08s
   39.297 N ± 8.2km   27.885 E ±10.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 2.6 (ISK).

IZM      1.02 209 iPg    51 29.10  -0.4
                  eSg    51 44.10
EDC      1.05 359 ePn    51 29.10  -0.8
KGT      1.24 339 iPn    51 32.90  -0.2
EZN      1.32 294 ePn    51 35.30   0.8
IZI      1.60  49 ePn    51 39.40   0.7
      S.D. = 1.0  on   5 of   5 obs.
-----------------------------------------
   JUL  22, 1991  19h 51m 55.56± 0.85s
   39.614 N ±10.5km   25.540 E ± 5.4km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                          (365)
      MD 3.2 (ISK).

EZN      0.64  71 ePg    52 09.80   1.4
ALN      1.34  17 ePd    52 18.64  -1.6
                  eS     52 39.96
OUR      1.40 301 ePd    52 21.80   0.8
                  eS     52 43.20
PAIG     1.47 283 iPd    52 21.28  -0.8
                  eS     52 43.80
KGT      1.59  58 ePn    52 24.90   1.1
IZM      1.81 132 ePn    52 27.00  -0.1
EDC      1.93  67 ePn    52 28.00  -0.7
SRS      2.11 316 ePc    52 32.12   0.7
                  eS     53 00.84
KNT      2.54 308 ePc    52 37.56   0.0
CTT      2.69  54 ePn    52 40.00   0.4
YLV      3.09  71 ePn    52 44.00  -1.3
      S.D. = 1.1  on  11 of  11 obs.
-----------------------------------------
   JUL  22, 1991  20h 50m 47.09± 0.65s
   15.530 N ± 5.7km   92.229 W ± 7.5km
   DEPTH = 127.6 ±  6.3 km
   4.7mb ( 22 obs.)
 MEXICO-GUATEMALA BORDER REGION  ( 62)

TPX      0.62 183 iP     51 06.31  -0.6
                  iS     51 18.00
SCX      1.26 342 iP     51 15.57   2.9X
                  iS     51 35.91
PBJ      3.19 287 iP     51 30.00  -6.8X
VHO      4.59 290 iP     51 51.00  -4.8X
LVVM     5.80 317 iP     52 07.61  -4.5X
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                iS    53 13.54
IISM    6.00 306 iP   52 10.77  -4.1X
                iS    53 14.03
IIT     6.77 302 eP   52 22.50  -3.0X
PPM     7.05 301 iP   52 27.17  -2.5X
IIA     7.12 301 iP   52 28.18  -1.8X
ACX     7.45 281 iP   52 28.75  -5.8X
                iS    53 45.18
TAC     7.68 301 (P)  52 37.00  -1.0
MRX     9.50 297 iP   52 59.00  -3.1X
PWLA   19.73  10 P    55 14.80   5.8X
MEO    20.01 345 iPc  55 11.50  -0.4
HBF    20.39  30 P    55 20.30   4.6X
TUL    20.55 352 e(P) 55 18.10   0.8
       0.4s    10.20nm          4.6mb
POW    20.56   2 P    55 18.20   0.8
JSC    21.13  26 P    55 26.60   3.5X
ALO    23.17 329 iPc  55 44.60   1.2
       0.9s    21.64nm          4.6mb
ANMO   23.17 329 P    55 45.60   2.2
       0.8s    65.30nm          5.1mb
GOL    26.68 337 P    56 16.80   0.5
       1.0s    10.00nm          4.4mb
PLM    28.48 313 eP   56 36.00   3.5X
MSU    28.85 326 P    56 36.60   0.8
GSC    29.53 316 eP   56 40.00  -1.7X
                e     57 21.00
DAU    29.82 330 P    56 45.00   0.6
SBB    29.87 314 eP   56 48.00   3.3X
                e     57 17.00
TNP    31.47 320 P    56 59.40   0.5
CMB    33.45 317 eP   57 16.80   0.9
LRM    34.64 335 eP   57 26.40   0.2
                e     57 52.30
DPW    38.72 332 P    58 00.80   0.5
ZOBO   39.55 142 P    58 09.00   1.0
LON    39.68 328 P    58 08.80   0.6
LPB    39.77 142 eP   58 25.00  15.3X
FFC    39.84 351 iPc  58 09.00  -0.3
       0.4s    10.00nm          4.9mb
CNCB   40.06 142 P    58 14.00   1.8
                i     00 17.20
PNT    40.42 332 ePd  58 15.00   0.8
       0.6s    33.00nm          5.3mb
GMW    40.71 328 P    58 16.00  -0.5
MCW    41.48 329 P    58 23.20   0.3
CCH    41.61 141 P    58 27.00   2.5X
PGC    41.77 329 eP   58 25.00  -0.1
YKA    49.49 347 eP   59 25.10  -1.0
       0.6s     9.80nm          4.8mb
TACH   52.96 158 eP   59 52.50   0.0
LNV    53.06 158 eP   59 53.00  -0.1
PCH    53.08 157 eP   59 53.50   0.0
CHCH   53.31 158 eP   59 55.50   0.4
BAO    53.55 123 ePc  59 56.50  -0.7
SOB1   56.48 112 eP   00 18.20  -0.2
VAO    58.55 130 eP   00 33.00   0.2
INK    58.92 343 eP   00 34.00  -0.6
       0.5s    23.00nm          5.4mb
KLU    59.52 333 P    00 39.40   0.4
PMR    60.96 333 P    00 48.20  -0.5
       0.7s    39.24nm          5.5mb
FBA    61.76 336 P    00 53.10  -0.9
       0.9s    43.75nm          5.4mb
MBC    62.38 353 eP   00 57.00  -0.9
       0.6s     8.00nm          4.9mb
PDB    62.70 330 P    00 59.40  -0.8
TTA    64.44 333 P    01 10.60  -1.1
       0.7s    26.16nm          5.3mb
IMA    64.48 337 P    01 11.00  -1.0
DCN    74.71  38 eP   02 14.00  -0.3
DMU    74.87  38 eP   02 14.80  -0.4
DLF    75.16  38 eP   02 16.00  -0.9
EKA    76.86  36 Pc   02 25.80  -0.6
       0.7s     7.60nm          4.6mb
LPF    79.41  43 eP   02 39.90  -0.6
GRR    79.46  43 eP   02 40.50  -0.2
       0.7s     4.40nm          4.3mb
FLN    79.63  42 eP   02 41.40  -0.2
       0.7s     4.40nm          4.3mb
     Z  20s     0.05um          3.9Msz
TCF    81.95  44 eP   02 55.70   1.7
       0.6s     1.80nm          4.0mb
MAF    82.21  44 eP   02 54.60  -0.7
BGF    82.32  44 eP   02 55.40  -0.4
       0.6s     3.60nm          4.4mb
AVF    82.60  44 eP   02 57.40   0.2
```

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       0.7s     2.20nm          4.1mb
SSF    82.63  43 eP   02 56.90  -0.5
       0.6s     1.80nm          4.1mb
NB2    82.91  28 P    02 59.50   0.9
       0.7s     3.50nm          4.3mb
SMF    82.96  44 eP   02 59.40   0.3
LKO    84.29  82 P    03 05.82  -0.6
       0.6s     8.50nm          4.8mb
HFS    84.38  29 eP   03 06.00   0.1
       0.8s     7.40nm          4.6mb
     Z  18s     0.04um          3.9Msz
                LR    33 21.00
LIC    85.67  85 P    03 14.00   0.7
YAK    95.95 342 eP   04 00.30  -0.2
KMZ   120.18  97 iPKPd 09 26.90   1.4
TIY   122.19 337 PKPc 09 28.80   0.2
     Z  10s     0.60um          5.5MszX
     E  19s     0.98um
LSZ   122.73  98 iPKPc 09 31.20   0.9
BUL   123.74 104 iPKPc 09 32.00  -0.2
       0.5s     5.28nm
GTA   124.20 349 ePKP 09 32.60   0.0
                sPKP  09 43.20
PTZ   125.58  97 ePKP 09 36.00   0.1
LZH   126.46 344 iPKPd 09 38.00   0.9
     Z  15s     0.39um          5.2MszX
XAN   126.75 338 PKP  09 37.60   0.0
QUE   130.32  24 ePKP 09 46.00   1.3
NDI   134.88  13 iPKPc 09 53.20   0.1
       0.5s    28.17nm
LSA   134.92 356 PKP  09 57.70   3.9X
WR2   135.51 257 ePKP 09 48.20  -6.4X
       1.7s     1.10nm
WRA   135.53 257 PKP  09 54.00  -0.6
       0.8s     2.00nm
GKN   136.62   4 PKP  09 51.40  -5.3X
GUN   136.78   2 PKP  09 54.20  -3.0X
KKN   136.87   3 PKP  09 51.00  -6.2X
DMN   137.04   3 PKP  09 50.40  -7.2X
PKI   137.10   3 PKP  09 50.80  -7.0X
CHG   144.14 342 ePKP 10 08.00  -2.1
CHTO  144.14 342 ePKP 10 08.00  -2.1
       1.0s     8.25nm
LOE   144.50 337 ePKP 10 09.00  -1.7
BDT   145.60 341 ePKP 10 12.80   0.2
       1.1s   374.50nm
HYB   146.02  16 ePKP 10 13.00  -0.4
NST   146.68 338 ePKP 10 17.50   3.1X
KHT   148.04 340 ePKP 10 20.30   3.7X
GBA   149.30  20 PKPd 10 18.70   0.2
       0.7s    16.20nm
KCD   152.44  22 ePKP 10 31.00   7.3X
     S.D. = 0.9  on  73 of 101 obs.
-----------------------------------
*  JUL  22, 1991  21h 15m 01.16± 0.93s
   21.992 S ± 9.2km   68.704 W ±14.8km
   DEPTH = 138.2 ± 12.3 km
   4.2mb (  1 obs.)
 CHILE-BOLIVIA BORDER REGION      (124)

ANT     2.32 222 eP   15 39.00  -1.0
                iS    16 04.70
SLA     4.01 133 e(P) 16 04.00   1.8
CCH     5.18  28 P    16 19.50   1.4
CNCB    5.20   8 P    16 17.90  -0.7
LPB     5.46   6 P    16 22.00   0.1
       1.0s   140.00nm          5.1mb X
                i     16 43.20
ZOBO    5.72   6 P    16 25.00  -0.6
                i     16 56.00
ARE     6.10 334 iP   16 25.00  -5.5X
                iS    17 27.00
SIV     9.36  52 P    17 08.00  -6.2X
ITB1   13.42 104 Pc   18 14.00   6.8X
ITB    13.60 105 Pc   18 15.50   5.9X
VAO    20.11  97 eP   19 24.80  -1.4
BAO    20.59  76 ePd  19 29.30  -1.9
LIC    68.34  73 P    25 50.00   0.1
     Z  20s     0.13um          4.1Msz
KIC    68.66  73 P    25 52.20   0.4
LKO    69.35  70 P    25 50.94  -5.2X
YKA    91.71 341 eP   27 55.30   1.8
       0.6s     1.20nm          4.2mb
QUE   139.55  69 ePdiff31 06.50 -21.5X
     S.D. = 1.5  on  11 of  17 obs.
-----------------------------------
   JUL  22, 1991  21h 16m 04.80± 0.45s
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   44.470 N ± 4.5km   11.377 E ± 4.3km
   DEPTH =  10.7 ±  3.6 km
 NORTHERN ITALY                     (545)
     ML 2.7 (LDG).

MME     0.56 241 P     16 16.50   0.2
                eSg    16 26.00
PGD     0.64 157 P     16 16.40  -1.3
                eSg    16 27.80
SFI     0.65 148 P     16 16.90  -0.7
                eSg    16 27.70
BDI     0.69 234 P     16 18.70   0.2
                eSn    16 30.10
CRE     0.94 154 P     16 23.60   0.9
                eSg    16 38.50
RSM     0.94 125 P     16 24.00   1.3
                eSg    16 39.00
PII     0.97 220 P     16 23.40   0.3
                eSn    16 38.60
SAL     1.29 332 P     16 29.80   1.2
                eSn    16 48.50
BOB     1.41 283 P     16 31.60   1.1
                eSn    16 50.50
ARV     1.49 130 P     16 32.30   0.8
                eSg    16 52.20
CTI     1.59   7 P     16 32.10  -1.0
ASS     1.68 146 P     16 34.90   0.6
                eSn    16 57.00
FVI     2.34  24 P     16 43.10  -0.7
                eSn    17 12.00
PGF     2.58 223 Pn    16 46.50  -0.9
                Sn     17 17.50
SBF     2.90 259 Pn    16 52.10   0.3
                Sn     17 26.40
FRF     3.53 257 Pn    17 00.60  -0.1
LMR     3.70 254 Pn    17 02.30  -0.8
                Sn     17 44.80
LRG     3.76 256 Pn    17 04.00   0.0
                Sn     17 47.80
KHC     4.90  17 ePg   18 12.50  52.3X
                eSg    18 48.00
     S.D. = 0.9  on  18 of  19 obs.
-----------------------------------
   JUL  22, 1991  21h 52m 07.42± 0.47s
   39.096 N ± 4.9km   22.120 E ± 4.8km
   DEPTH =  15.4 ±  5.7 km
 GREECE                             (364)
     MD 3.1 (ATH).

AGG     0.18 114 ePd   52 12.42   0.4
                eS     52 17.34
LIT     1.04  16 ePd   52 27.26   0.6
                eS     52 43.30
KZN     1.24 348 ePb   52 30.00   0.0
                eSb    52 49.00
PAIG    1.46  55 ePc   52 33.34   0.2
                eS     52 53.26
VLS     1.51 233 iPbc  52 34.60   0.7
THE     1.67  23 ePc   52 36.86   0.8
                eS     52 56.62
FNA     1.78 341 ePd   52 37.42  -0.4
                eS     53 01.58
GRG     1.87   7 iPc   52 39.74   0.6
                iS     53 04.17
OUR     1.90  49 ePc   52 39.06  -0.4
                eS     53 04.42
KEK     1.90 290 ePn   52 40.00   0.5
                eSn    53 07.00
KNT     2.15  16 ePc   52 43.26   0.2
                iS     53 12.06
SRS     2.31  29 ePc   52 44.58  -0.9
                eS     53 14.34
VLI     2.46 165 ePn   52 47.00  -0.5
CZI     4.65 273 P     53 18.00  -0.7
     S.D. = 0.6  on  14 of  14 obs.
-----------------------------------
?  JUL  22, 1991  22h 20m 35.84±16.37s
   48.637 N ±42.8km    1.849 W ±108.km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                             (538)
     ML 2.0 (LDG).

GRR     0.70 110 Pg    20 49.50  -0.2
                Sg     21 01.20
LPF     0.81 138 Pg    20 51.60   0.1
                Sg     21 04.90
FLN     0.91  82 Pg    20 53.10  -0.2
```

Sg 21 06.40
LDF 1.15 92 Pg 20 57.70 0.4
Sg 21 14.60
S.D. = 0.5 on 4 of 4 obs.

? JUL 22, 1991 23h 46m 19.79± 3.84s
32.325 S ±30.8km 179.831 E ±27.1km
DEPTH = 305.2 ± 33.4 km
4.6mb (4 obs.)
SOUTH OF KERMADEC ISLANDS (179)

PUZ 5.88 192 eP 47 48.40 0.0
S 49 05.80
PGZ 8.76 198 eP 48 24.40 1.0
MNG 8.99 202 eP 48 25.20 -1.0
eS 50 13.90
KIW 9.39 203 P 48 30.00 -1.2
MRW 9.79 203 eP 48 35.00 -1.2
eS 50 30.40
WEL 9.82 203 eP 48 37.00 0.5
S 50 34.00
TCW 9.92 205 P 48 36.20 -1.6
THZ 10.92 208 P 48 52.40 2.3
eS 50 59.50
KHZ 11.24 205 eP 48 56.00 2.0
eS 51 04.40
LTZ 12.03 208 eP 49 04.20 0.5
MOZ 12.69 204 eP 49 10.50 -1.1
STK 32.28 260 iPc 52 26.30 3.8X
0.4s 8.00nm 4.6mb
WR2 42.35 275 iPd 53 46.30 0.1
0.4s 41.30nm 5.0mb
WRA 42.37 275 P 53 46.00 -0.4
0.7s 20.80nm 4.5mb
SPA 57.85 180 iPc 55 41.80 -0.3
1.1s 23.81nm 4.6mb
KAF 145.69 338 iPKP 05 18.20 -4.3X
0.4s 3.00nm
NUR 147.42 337 ePKP 05 23.90 -1.4
NB2 150.32 349 PKP 05 30.50 0.6
0.8s 2.80nm
HFS 150.70 346 ePKP 05 31.50 1.1
0.7s 4.70nm
S.D. = 1.3 on 17 of 19 obs.

JUL 23, 1991 01h 02m 26.11± 0.75s
26.833 S ± 7.8km 26.727 E ± 7.7km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
mbLg 3.5 (BUL).

PRY 0.67 98 iPc 02 41.00 1.4
S 02 48.00
SEK 1.68 152 iPc 03 00.70 4.2X
S 03 20.70
SLR 1.77 52 iPd 03 00.60 2.8X
S 03 23.00
FRS 3.16 203 iPd 03 17.80 0.4
S 03 47.70
HVD 3.91 196 iPd 03 27.30 -1.0
S 04 10.60
JOZ 4.81 98 eP 03 40.00 -0.9
S 04 32.50
BUL 6.88 15 iPn 04 10.30 0.0
iSn 05 21.00
iSg 05 57.00
CIR 7.30 38 iPn 04 21.00 5.0X
iSn 05 38.00
iSg 06 17.00
CER 9.15 223 eP 05 37.50 55.7X
S 06 44.50
WIN 9.73 294 eP 04 51.00 1.0
0.8s 29.85nm 5.8mb
S 06 28.00
KRI 10.31 16 iPn 04 57.00 -0.9
iSn 06 45.00
iSg 07 43.00
S.D. = 1.2 on 7 of 11 obs.

JUL 23, 1991 01h 45m 44.15± 0.92s
9.322 N ± 7.1km 83.696 W ± 5.6km
DEPTH = 63.8 ± 9.0 km
4.6mb (49 obs.)
COSTA RICA (78)
Felt in Costo Rico and in Bocos
del Toro Province, Ponomo.

UPA 4.12 94 iPd 46 46.30 0.2
(S) 47 22.00
PSO 10.27 142 eP 48 11.00 -0.7
BOG 10.64 115 eP 48 18.50 1.9
BMG 10.75 101 iPc 48 18.50 0.6
PBJ 13.42 303 (P) 48 51.00 -2.4
OXX 14.84 303 (P) 49 14.00 1.9
IISM 16.37 307 (P) 49 31.00 -0.3
IIT 17.12 306 (P) 49 43.00 1.9
PPM 17.40 305 (P) 49 45.50 0.7
MRX 19.81 303 (P) 50 17.00 4.6X
NNA 22.24 162 iP 50 36.80 -0.2
1.2s 57.81nm 4.9mb
JSC 24.94 5 ePc 51 03.80 0.8
BLA 27.92 6 eP 51 30.60 0.2
0.8s 8.05nm 4.4mb
VVO 28.13 339 ePd 51 25.20 -7.1X
TUL 28.67 339 ePd 51 34.50 -2.6
0.6s 7.00nm 4.5mb
Z 22s 0.46um 4.0Msz
N 20s 0.19um
E 22s 0.31um
LR 01 02.00
MEO 28.78 334 e(P) 51 37.50 -0.6
FVM 29.17 349 ePc 51 39.50 -2.1
1.2s 16.18nm 4.5mb
ZOBO 29.73 149 iPc 51 46.00 -1.5
Z 24s 1.38um 4.5MszX
LR 01 08.00
LPB 29.97 149 P 51 53.50 4.1X
Z 24s 1.55um 4.6MszX
LR 01 40.00
CNCB 30.26 149 P 51 51.00 -1.1
CCH 31.70 147 P 52 03.80 -0.7
ALQ 32.92 324 eP 52 13.20 -1.6
1.0s 5.25nm 4.3mb
ANMO 32.92 324 ePc 52 13.30 -1.5
1.1s 7.28nm 4.4mb
SIV 33.68 138 iPc 52 19.40 -2.0
GLD 35.87 331 eP 52 39.00 -1.1
GOL 35.90 331 eP 52 38.60 -1.8
0.8s 4.76nm 4.5mb
i 55 07.00
PV09 36.95 326 e(P) 52 48.20 -1.1
TPC 38.59 315 eP 53 04.00 1.2
PLM 38.78 313 eP 53 04.80 0.2
RSSD 38.91 337 eP 53 04.50 -1.1
e 55 15.30
PEC 39.27 314 e(P) 53 09.70 1.2
RVR 39.47 314 eP 53 13.00 2.9X
GSC 39.75 316 eP 53 13.00 0.5
MWC 40.08 313 eP 53 23.00 7.7X
SBB 40.15 314 eP 53 17.00 1.3
BW06 40.29 330 ePc 53 14.80 -2.2
0.8s 3.33nm 4.2mb
CLC 40.57 316 eP 53 19.00 -0.2
ISA 41.10 315 eP 53 24.00 0.5
TNP 41.57 319 ePc 53 27.20 -0.3
0.6s 12.04nm 4.9mb
SYP 41.61 313 eP 53 30.00 2.2
FRI 42.64 316 eP 53 37.50 1.5
PRI 42.88 314 eP 53 39.70 1.5
BAO 43.19 125 ePd 53 40.10 -0.8
PRS 43.47 314 eP 53 44.10 1.3
CMB 43.64 317 eP 53 45.20 1.0
MHC 44.15 315 eP 53 49.00 0.5
GCC 44.25 315 e(P) 53 50.80 1.7
ORV 45.17 318 eP 53 57.70 1.2
SOB1 46.42 112 eP 54 05.60 -1.0
e 54 17.00
SCH 47.33 13 eP 54 12.00 -1.3
FFC 47.57 346 eP 54 14.00 -1.1
0.7s 12.00nm 5.0mb
PNT 49.85 330 ePd 54 32.00 -0.9
0.8s 16.00nm 5.1mb
FRB 55.40 8 eP 55 12.00 -1.8
YKA 57.61 344 eP 55 27.10 -2.5
0.8s 6.40nm 4.8mb
INK 67.29 342 eP 56 33.00 -0.9
MBC 69.62 351 ePc 56 47.50 -0.7
0.9s 59.00nm 5.5mb
FBA 70.76 336 ePc 56 58.80 3.4X
0.6s 12.32nm 5.0mb
AVE 73.50 58 eP 57 15.00 2.8X
DCN 74.47 37 eP 57 18.00 0.7
DMU 74.74 37 eP 57 22.50 3.6X
DAG 75.35 12 iPd 57 20.90 -1.1

0.8s 15.67nm 5.0mb
EKA 77.01 35 P 57 32.00 0.3
1.1s 14.10nm 4.9mb
LIC 77.87 86 (P) 57 38.90 1.7
LPF 78.23 43 eP 57 39.00 0.5
0.6s 5.40nm 4.7mb
GRR 78.35 42 eP 57 39.60 0.4
0.6s 11.70nm 5.0mb
FLN 78.59 42 eP 57 41.00 0.5
0.6s 5.40nm 4.7mb
Z 20s 0.25um 4.5Msz
LDF 78.83 42 eP 57 42.20 0.4
0.6s 12.65nm 5.0mb
MFF 78.87 44 eP 57 42.60 0.5
0.6s 5.40nm 4.7mb
EPF 79.36 48 eP 57 45.80 0.9
0.8s 5.35nm 4.5mb
LFF 79.56 46 eP 57 46.00 0.2
0.8s 6.70nm 4.6mb
LPO 79.89 46 eP 57 48.00 0.4
0.8s 8.05nm 4.7mb
LSF 80.04 45 eP 57 48.50 0.0
0.6s 3.60nm 4.5mb
RJF 80.09 46 eP 57 49.00 0.3
0.8s 4.05nm 4.4mb
Z 22s 0.15um 4.3Msz
CAF 80.50 46 eP 57 51.20 0.3
0.8s 5.35nm 4.5mb
TCF 80.51 45 eP 57 51.00 0.0
0.6s 3.60nm 4.5mb
MAF 80.77 45 eP 57 52.30 0.0
0.8s 3.35nm 4.3mb
BGF 80.94 44 eP 57 53.00 -0.1
0.6s 4.50nm 4.6mb
AVF 81.27 44 eP 57 54.60 -0.2
0.9s 4.90nm 4.4mb
SSF 81.35 44 eP 57 55.00 -0.3
0.6s 2.70nm 4.4mb
LOR 81.58 43 eP 57 56.20 -0.3
0.6s 4.05nm 4.6mb
Z 20s 0.22um 4.5Msz
SMF 81.61 44 eP 57 56.60 -0.1
0.8s 10.75nm 4.9mb
LBF 81.68 44 eP 57 56.50 -0.6
0.6s 1.80nm 4.2mb
HAU 83.18 43 eP 58 05.00 0.2
0.8s 4.05nm 4.5mb
Z 20s 0.20um 4.5Msz
BNS 83.39 40 iPd 58 19.80 14.1X
BSF 83.50 43 eP 58 06.50 0.0
0.8s 5.35nm 4.6mb
LRG 83.71 47 eP 58 09.40 1.9
0.7s 4.40nm 4.6mb
LPL 83.73 45 eP 58 09.80 1.9
0.6s 1.35nm 4.1mb
LPG 83.74 45 eP 58 09.20 1.1
0.6s 1.35nm 4.1mb
CDF 83.75 42 eP 58 08.00 0.2
0.8s 4.05nm 4.5mb
LMR 83.83 47 eP 58 08.90 0.8
FRF 83.90 47 eP 58 09.00 0.5
0.7s 3.30nm 4.5mb
NB2 84.29 29 P 58 10.70 0.5
1.0s 6.60nm 4.6mb
SBF 84.43 47 eP 58 12.00 0.7
0.7s 5.50nm 4.7mb
HFS 85.65 30 eP 58 16.50 -0.4
1.5s 42.10nm 5.3mb
Z 18s 0.08um 4.2Msz
LR 26 31.00
PGF 85.75 48 eP 58 18.40 0.5
0.6s 4.50nm 4.8mb
MOX 86.22 39 eP 58 20.50 0.5
i 58 34.60
CLL 86.96 39 eP 58 24.00 0.5
1.4s 16.00nm 5.0mb
i 58 37.60
BRG 87.63 39 eP 58 27.70 1.0
1.0s 20.00nm 5.2mb
i 58 41.20
KHC 87.75 41 P 58 27.50 0.1
1.0s 7.10nm 4.8mb
e 58 41.40
PRU 88.19 40 eP 58 43.40 14.0X
ZST 90.24 41 eP 58 36.90 -2.2
SRO 91.12 41 eP 58 39.90 -3.3X
KRA 91.54 39 eP 58 56.50 11.4X

```
GTA    131.41 356 ePKP  04 51.40  -0.1
KKN    141.60  16 PKP   05 00.00 -10.9X
WR2    141.78 250 iPKPc 05 05.60  -5.6X
        0.5s     4.10nm
WRA    141.80 250 PKP   05 10.00  -1.2
        0.7s     1.60nm
KMI    145.19 350 PKPc  05 16.50  -0.7
WARB   146.72 236 ePKP  05 21.70   2.3
HYB    148.16  33 ePKP  05 28.00   6.1X
CHG    151.92 355 ePKP  05 34.00   6.4X
BDT    153.47 354 ePKP  05 38.00   8.3X
      S.D. = 1.2  on  95 of 112 obs.
-----------------------------------
%  JUL  23, 1991  02h 30m 51.69± 0.93s
   43.789 N ± 6.6km   10.553 E ± 9.6km
   DEPTH =   5.0km  (geophysicist)
 CENTRAL ITALY                     (381)

PII      0.07 197 P     30 53.00  -0.4
                  eSn   30 55.00
BDI      0.27   7 Pc    30 56.50  -0.8
                  eSg   30 59.50
MME      0.42  15 P     30 59.80  -0.3
                  eSg   31 05.00
PGD      0.85  84 P     31 09.30   0.6
                  eSg   31 23.60
BOB      1.26 321 P     31 16.50   0.9
      S.D. = 1.0  on   5 of   5 obs.
-----------------------------------
?  JUL  23, 1991  03h 13m 11.06± 9.57s
   16.786 N ±53.0km  102.072 W ±63.1km
   DEPTH =  33.0km  (normal)
 OFF COAST OF GUERRERO, MEXICO   ( 65)

ACX      2.12  87 iP    13 45.00   0.1
                  iS    14 06.00
MRX      3.02  16 iP    13 57.50  -0.2
                  iS    14 29.00
UNM      3.74  47 (P)   14 09.50   1.4
PPM      3.99  55 iP    14 11.50  -0.4
                  iS    14 51.00
IIT      4.22  58 eP    14 13.00  -1.9
IISM     4.98  63 iP    14 26.50   1.0
                  iS    15 17.00
OXX      5.13  86 (P)   14 35.00   7.2X
      S.D. = 1.5  on   6 of   7 obs.
-----------------------------------
%  JUL  23, 1991  04h 19m 00.95± 0.86s
   39.246 N ± 9.5km   28.098 E ± 9.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      MD 3.1 (ISK).

IZM      1.07 218 iPg   19 21.10   0.0
                  eSg   19 36.10
KGT      1.35 333 ePn   19 25.60  -0.2
EZN      1.49 293 iPn   19 27.80   0.1
IZI      1.52  44 ePn   19 27.80  -0.5
YLV      1.64  36 ePn   19 30.50   0.5
HRT      1.98  37 ePn   19 35.00   0.1
      S.D. = 0.4  on   6 of   6 obs.
-----------------------------------
&  JUL  23, 1991  04h 34m 32.60s
   38.872 N          122.917 W
   DEPTH =   5.0km  (geophysicist)
 NORTHERN CALIFORNIA               ( 36)
      <BRK>. ML 3.7 (BRK).
      Mo=4.7*10**14 Nm (BRK).

NWRM     0.42 177 eP    34 41.00   0.1
ZSP      1.06 151 iPc   34 51.53  -1.5
                  eS    35 07.72
BKS      1.13 151 iPd   34 52.10  -2.1
                  eS    35 08.30
ORV      1.30  58 eP    34 54.99  -2.1
PCC      1.43 163 eP    34 57.63  -1.6
MIN      1.79  34 iPd   35 03.85  -0.6
FOX      1.84 334 eP    35 12.90   7.8
ARN      1.87 144 eP    35 03.00  -2.6
GCC      1.98 158 iP    35 04.22  -2.9
CMB      2.16 112 iPc   35 07.79  -2.0
SAO      2.40 151 eP    35 10.38  -2.9
LBFM     2.59  17 eP    35 19.00   2.9
PRS      2.82 154 ePd   35 16.64  -2.5
BONR     3.74 103 eP    35 31.00  -1.5
CWC      4.54 121 eP    35 44.00   0.2
                  e     36 46.00
ISA      4.78 131 eP    35 45.00  -2.0
                  e     36 50.00
CLC      5.22 124 eP    36 02.00   8.7
                  e     37 13.00
SBB      5.84 134 eP    35 59.00  -3.0
GSC      6.05 124 eP    36 02.00  -2.9
        19 obs. associated
-----------------------------------
?  JUL  23, 1991  05h 27m 17.20± 3.05s
   24.122 S ±28.4km   66.852 W ±20.5km
   DEPTH = 180.0km  (geophysicist)
 SALTA PROVINCE, ARGENTINA         (129)

ANT      3.29 277 iPc   28 09.90   0.0
                  iS    28 45.50
CCH      6.74   6 P     28 55.50   0.5
CNCB     7.35 352 P     29 04.00   0.6
LPB      7.64 351 P     29 08.00   0.9
ZOBO     7.90 351 P     29 09.00  -1.8
SIV      9.74  35 iPc   29 34.20  -0.1
      S.D. = 1.2  on   6 of   6 obs.
-----------------------------------
?  JUL  23, 1991  05h 42m 49.70± 1.86s
   37.774 N ±17.9km   29.328 E ±19.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      MD 3.1 (ISK).

KHL      0.57  16 ePg   43 02.00   0.7
YER      1.05 233 iPg   43 09.70   0.2
                  eSg   43 24.50
ALT      1.42  25 ePn   43 15.00  -0.6
IZM      1.75 292 ePn   43 20.00  -0.3
      S.D. = 1.0  on   4 of   4 obs.
-----------------------------------
%  JUL  23, 1991  06h 26m 28.09± 0.63s
   60.553 N ± 3.6km    5.037 E ± 8.9km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN NORWAY                   (535)
      MD 1.4 (BER).

ASK      0.10 132 eP    26 30.65  -0.2
                  iS    26 32.66
BER      0.23 139 eP    26 32.89   0.0
                  iS    26 36.21
EGD      0.30 162 eP    26 34.09  -0.2
                  iS    26 38.69
SUE      0.52 345 eP    26 38.39  -0.3
                  eS    26 45.88
HYA      0.83  42 iP    26 43.83  -0.3
                  eS    26 56.15
ODD1     1.02 128 iP    26 47.81   0.4
                  iSg   27 01.78
FOO      1.05   0 eP    26 48.06   0.2
                  eSg   27 02.47
FRO      1.21 357 iP    26 50.80   0.2
                  eS    27 06.72
KMY      1.35 175 iPg   26 52.97   0.1
                  iSg   27 10.61
MOL      2.35  30 eP    27 07.50   0.1
                  eSg   27 43.41
      S.D. = 0.3  on  10 of  10 obs.
-----------------------------------
?  JUL  23, 1991  06h 44m 49.32± 1.61s
   43.691 N ±13.0km   10.776 E ± 7.9km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                     (381)

PII      0.19 279 P     44 53.50   0.1
                  eSg   44 56.50
BDI      0.39 341 P     44 57.00  -0.4
                  eSg   45 02.50
MME      0.51 354 P     45 00.00   0.4
                  eSg   45 07.00
SFI      0.81  73 P     45 05.00   0.0
      S.D. = 0.5  on   4 of   4 obs.
-----------------------------------
&  JUL  23, 1991  07h 15m 34.94s
   63.291 N          151.577 W
   DEPTH =  15.4km
 CENTRAL ALASKA                    (  1)
      <AEIC>. ML 3.0 (AEIC), 3.7
      (PMR).

KTH      0.40  48 iPc   15 43.00  -0.2
TRF      0.60  74 iPc   15 46.71  -0.1
HUR      0.94 109 ePd   15 52.31   0.0
                  eS    16 04.52
CUT      1.07 145 iPd   15 54.85   0.2
RND      1.23  83 eP    15 57.62   0.2
                  eS    16 14.57
MCK      1.26  68 eP    15 58.26   0.3
                  S     16 16.13
BWN      1.29  46 eP    15 59.61   1.3
SKT      1.32 179 ePc   15 58.09  -0.6
                  iS    16 14.91
NEA      1.70  39 eP    16 03.13  -1.0
                  S     16 27.29
PWA      1.83 154 ePc   16 05.90   0.0
SUA      1.87 168 ePc   16 06.96   0.2
                  eS    16 32.66
NCG      1.91 188 eP    16 07.00  -0.3
                  S     16 31.59
WRH      1.95  51 eP    16 08.03   0.3
GHO      1.96 140 ePd   16 08.34   0.4
CGLM     2.00 186 ePc   16 08.12  -0.5
TTA      2.05 262 iPc   16 07.80  -1.5
PLRM     2.05 145 eP    16 09.00  -0.2
PMR      2.05 145 ePd   16 09.50   0.3
BGL      2.07 191 ePc   16 09.82   0.2
SPU      2.13 186 ePc   16 10.66   0.2
CKL      2.13 190 ePc   16 11.02   0.5
CCB      2.15  49 eP    16 09.37  -1.3
MDM      2.23  40 ePc   16 10.61  -1.2
PMS      2.26 154 ePc   16 12.38   0.1
FBA      2.32  44 eP    16 12.62  -0.4
KNK      2.38 141 eP    16 15.04   1.1
NKA      2.56 176 ePc   16 18.85   2.4
RDT      2.76 189 eP    16 19.97   0.6
DFR      2.76 191 eP    16 20.27   0.8
TOA      2.76 113 ePd   16 20.60   1.2
PAX      2.79  94 ePc   16 20.66   0.8
NCT      2.81 194 eP    16 20.35   0.2
RDN      2.84 192 eP    16 20.61   0.0
REF      2.86 191 eP    16 21.94   1.0
SDG      2.87 103 ePc   16 21.77   0.9
SLKM     2.87 166 ePc   16 20.90   0.0
RDW      2.88 192 eP    16 20.88  -0.3
SVW      2.90 223 eP    16 20.50  -0.8
IMA      2.93 343 ePc   16 21.50  -0.4
TZL      3.10 111 eP    16 24.37   0.2
KLU      3.19 122 ePd   16 26.41   0.9
NNL      3.26 178 eP    16 28.20   1.7
VLZ      3.28 129 eP    16 27.09   0.5
SEW      3.36 161 eP    16 29.09   1.4
PDB      3.73 201 eP    16 32.12  -1.0
CNPM     3.78 177 eP    16 35.20   1.3
GLB      4.07 114 eP    16 38.16   0.3
        47 obs. associated
-----------------------------------
   JUL  23, 1991  08h 40m 46.04± 0.34s
   42.541 N ± 3.2km   13.139 E ± 3.4km
   DEPTH =   6.7 ±  2.3 km
 CENTRAL ITALY                     (381)
      MD 4.1 (TRI). ML 3.9 (ZAG).

AQU      0.27 134 P     40 53.00   1.4
                  eSg   40 57.80
MNS      0.37 245 P     40 53.90   0.3
                  eSg   40 59.50
ASS      0.64 327 P     40 58.70  -0.1
                  eSg   41 08.50
RMP      0.80 204 P     41 02.57   0.7
ARV      0.97 351 P     41 05.90   1.2
                  eSg   41 19.70
SDI      0.97 149 P     41 05.10   0.2
                  eSg   41 21.10
DUI      1.32 131 P     41 09.97  -0.8
RFI      1.39 153 P     41 13.06   1.2
CRE      1.39 322 P     41 12.80   0.8
                  eSg   41 31.60
RSM      1.47 340 P     41 12.90  -0.1
                  eSg   41 33.30
MAO      1.47 266 P     41 12.60  -0.5
                  eSg   41 31.70
SFI      1.67 326 P     41 15.80   0.0
                  eSg   41 37.20
PGD      1.69 323 P     41 16.10  -0.2
                  eSg   41 36.10
PII      2.25 303 P     41 23.50  -0.7
BDI      2.40 310 P     41 26.60   0.1
                  eSg   41 53.50
MME      2.43 314 P     41 27.00   0.0
HVAR     2.51  74 iPnd  41 27.10  -0.9
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23d 08h

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                 i(Sn) 41 59.80
SGO     2.56 140 P     41 28.00  -0.7
RIY     2.94  17 ePn   41 33.40  -0.7
                 i(Sn) 42 08.50
TRI     3.20   8 P     41 37.20  -0.5
                 eSn   42 14.50
VVI     3.48 352 P     41 42.52   0.8
BOB     3.48 311 P     41 41.00  -0.8
SAL     3.60 329 P     41 43.00  -0.3
LJU     3.64  15 ePn   41 43.20  -0.8
                 eSn   42 27.00
ZAG     3.86  31 iPn   41 49.20   2.1
                 iS    42 47.50
PTJ     3.92  30 iPn   41 48.10   0.0
                 eSn   42 31.60
CKI     4.01 300 P     41 48.50  -0.7
FVI     4.06 357 P     41 49.50  -0.4
                 eSn   42 34.50
KBA     4.54   2 iPnc  41 57.00   0.1
                 iSn   42 48.50
OGA     4.58 342 ePn   41 56.90  -0.6
OSS     4.66 334 ePd   41 59.20   0.5
TMA     4.70 321 ePc   41 58.00  -1.2
DOI     4.71 297 P     41 57.00  -2.4
VDL     4.74 328 ePd   42 00.20   0.4
WTTA    4.84 348 iPnc  42 01.80   0.6
                 iSn   42 59.00
BHG     5.18 358 iPnc  42 06.30   0.4
LLS     5.24 327 ePd   42 07.90   1.1
BNI     5.31 300 P     42 06.00  -1.8
DIX     5.42 313 ePd   42 11.10   1.5
LPG     5.47 305 Pn    42 12.00   1.7
LPL     5.49 305 Pn    42 12.10   1.6
FUR     5.78 348 iPc   42 20.70   6.5X
VKA     6.15  20 i(Pn) 42 19.40   0.0
                 e(Sn) 43 23.00
SKO     6.19  92 ePn   42 18.00  -2.0
ZST     6.31  25 e(P)  42 35.50  13.8X
                 e     44 03.80
KHC     6.60   3 Pn    42 23.00  -2.9X
                 Pg    42 33.00
                 Sg    43 36.50
BSF     6.93 322 Pn    42 27.60  -3.0X
                 Sn    43 42.40
VAY     7.14  97 ePn   42 23.70  -9.7X
CDF     7.17 327 Pn    42 30.90  -3.0X
                 Sn    43 50.20
HAU     7.26 321 Pn    42 32.60  -2.6X
                 Sn    43 52.20
GRF     7.27 350 e(Pn) 42 26.30  -9.0X
                 ePg   42 50.00
                 e(Sg) 43 50.00
PRU     7.51   7 ePn   42 36.00  -2.6X
                 e     43 49.00
                 e     43 56.50
SMF     7.80 305 Pn    42 42.20  -0.5
MOX     8.17 353 e(P)  42 52.00   4.1X
BRG     8.35   4 e(P)  43 03.00  12.6X
                 e     44 17.00
                 e     44 45.00
PAIG    8.36 105 ePc   43 42.34  51.8X
                 eS    43 46.22
NB2    18.56 357 P     45 05.70   0.6
     0.9s     1.20nm          3.1mb
     S.D. = 1.0  on  45 of  57 obs.
-----------------------------------
%  JUL  23, 1991  08h 43m 36.59± 1.22s
   39.817 N ± 9.8km   23.381 E ±10.7km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                        (365)

OUR     0.69  42 iPc   43 50.06  -0.2
                 eS    43 58.66
LIT     0.74 293 iPd   43 50.90  -0.2
                 eS    44 00.26
SOH     1.00 359 ePc   43 56.10   0.5
                 eS    44 09.46
AGG     1.14 226 ePc   43 58.02   0.1
                 eS    44 13.46
KNT     1.39 345 iPc   44 01.90  -0.2
                 eS    44 20.58
     S.D. = 0.4  on   5 of   5 obs.
-----------------------------------
%  JUL  23, 1991  09h 41m 17.45± 0.81s
   42.497 N ± 7.7km   13.133 E ± 8.3km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                     (381)

AQU     0.25 126 P     41 22.50  -0.2
                 eSg   41 26.50
MNS     0.35 252 P     41 25.00   0.2
                 eSg   41 29.50
ASS     0.67 329 P     41 29.80  -1.0
                 eSg   41 38.80
SDI     0.94 147 P     41 35.50   0.1
ARV     1.01 352 P     41 37.50   0.9
                 eSg   41 50.00
     S.D. = 1.0  on   5 of   5 obs.
-----------------------------------
%  JUL  23, 1991  09h 48m 11.31± 0.63s
   42.535 N ± 6.1km   13.105 E ± 7.5km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                     (381)

AQU     0.29 129 P     48 17.20  -0.1
                 eSg   48 20.40
MNS     0.35 245 P     48 18.80   0.3
                 eSg   48 23.10
ASS     0.63 329 P     48 23.30  -0.7
                 eSg   48 34.10
ARV     0.97 353 P     48 30.50   0.7
                 eSg   48 43.50
SDI     0.98 147 P     48 30.00   0.0
CRE     1.38 323 P     48 36.00  -0.7
SFI     1.66 327 P     48 41.00   0.5
     S.D. = 0.7  on   7 of   7 obs.
-----------------------------------
?  JUL  23, 1991  10h 09m 42.78± 6.43s
   31.261 S ±53.1km   69.469 W ±28.5km
   DEPTH = 168.8 ± 48.4 km
 SAN JUAN PROVINCE, ARGENTINA      (137)

RTBS    0.40 178 iPd   10 05.50  -0.8
RTLL    0.86  95 iPc   10 09.00   0.3
                 (S)   10 21.90
JACH    1.71 214 iPc   10 17.20   0.8
PEL     2.14 208 iP    10 21.30   0.2
                 iS    10 45.60
ROCH    2.15 217 iPd   10 21.80   0.4
                 iS    10 47.10
PCH     2.51 200 iP    10 25.70   0.1
                 iS    10 54.50
TACH    2.69 207 iP    10 27.40  -0.2
                 iS    10 57.70
LCCH    2.83 218 iP    10 29.50   0.2
CHCH    2.85 200 iPd   10 29.70   0.1
                 iS    11 01.00
LNV     3.15 211 iPc   10 32.10  -1.1
                 iS    11 06.50
     S.D. = 0.7  on  10 of  10 obs.
-----------------------------------
*  JUL  23, 1991  10h 14m 42.69± 1.08s
   45.554 N ± 8.7km   17.012 E ± 9.9km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                        (383)
      ML 3.0 (ZAG).

ZAG     0.77 290 e(Pg) 14 59.00   1.3
                 e(Sg) 15 16.00
PTJ     0.82 296 ePg   14 57.80  -0.7
                 eSg   15 17.00
UZD     1.51  46 ePn   15 11.20   1.5
LJU     1.80 287 ePn   15 16.00   2.0
                 eSn   15 46.10
TRI     2.28 275 P     15 21.00   0.0
                 eSn   15 41.00
ZST     2.64   1 eP    15 24.10  -2.0
                 e     15 39.20
                 e     16 24.20
FVI     3.12 291 P     15 36.00   3.2X
ARV     3.56 236 P     15 39.00  -0.2
ASS     3.99 233 P     15 45.50   0.3
                 eSn   16 21.50
SFI     4.02 248 P     15 45.50  -0.1
CRE     4.10 244 P     15 45.50  -1.3
                 eSn   16 24.00
KHC     4.27 328 Pn    15 48.70  -0.6
                 ePg   15 58.00
                 eSg   16 48.50
MNS     4.45 226 P     15 51.50  -0.3
     S.D. = 1.3  on  12 of  13 obs.
-----------------------------------
   JUL  23, 1991  11h 10m 54.26± 0.36s
   41.281 N ± 3.5km   23.653 E ± 3.9km
   DEPTH =  13.1 ±  3.6 km

 GREECE-BULGARIA BORDER REGION     (363)
      ML 2.2 (SKO).

SRS     0.17 196 ePd   10 58.62   0.2
                 eS    11 00.42
MMB     0.31  10 iPgc  11 01.00   0.0
SOH     0.51 206 iPc   11 04.46  -0.2
                 eS    11 10.66
KNT     0.58 258 iPc   11 05.78   0.0
                 eS    11 13.90
KKB     0.72 324 iPgd  11 08.00  -0.2
                 iSg   11 17.00
VAY     0.82 273 iPg   11 10.00   0.2
                 iSg   11 21.00
THE     0.83 219 ePc   11 10.06   0.0
                 eS    11 21.10
RZN     0.90  63 i(Pg) 11 11.00  -0.3
OUR     0.98 165 ePd   11 12.98   0.5
                 eS    11 24.02
GRG     1.00 252 ePc   11 13.42   0.5
                 eS    11 27.62
PLD     1.14  43 iPg   11 17.00   1.7
VTS     1.35 346 ePg   11 19.00   0.1
PAIG    1.35 179 ePc   11 18.38  -0.4
                 eS    11 35.54
KDZ     1.38  74 iPgc  11 18.00  -1.1
RDO     1.43  95 ePb   11 20.00   0.2
                 eSb   11 39.70
LIT     1.47 217 ePc   11 21.62   1.1
                 eS    11 37.62
DIM     1.60  61 ePg   11 25.00   2.7X
KZN     1.73 236 ePn   11 24.00  -0.2
     S.D. = 0.7  on  17 of  18 obs.
-----------------------------------
   JUL  23, 1991  11h 22m 10.09± 0.15s
    5.826 N ± 3.0km  125.983 E ± 4.1km
   DEPTH = 146.5km  ( 12 depth phases)
   5.6mb ( 59 obs.)
 MINDANAO, PHILIPPINE ISLANDS      (259)
      CENTROID, MOMENT TENSOR      (HRV)
      Data Used: GDSN
      L.P.B.: 16S, 38C
      Centroid Location:
      Origin Time        11:22:14.7 0.4
      Lat  6.23N 0.04 Lon 126.14E 0.04
      Dep 145.9 1.2 Half-duration  2.3
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 1.34 0.07  Mtt= 0.55 0.08
        Mff=-1.89 0.10  Mrt=-0.76 0.07
        Mrf= 1.74 0.08  Mtf=-1.01 0.09
      Principal Axes:
        T  Val=  2.69  Plg=52  Azm=221
        N        0.09      31      359
        P       -2.77      21      102
      Best Double Couple:Mo=2.7*10**17
       NP1:Strike=232 Dip=37 Slip= 149
       NP2:        348     72       58

DAV     1.32 342 iPc-  22 39.90   2.1
MAP     4.89 336 iPc   23 24.00   1.2
                 iS    24 02.00
PLP     5.40 349 ePd   23 29.80   0.2
                 iS    23 49.30
TSM     8.22 260 ePd   24 10.00   2.3
     0.9s   862.00nm          6.4mb
BAG    11.78 334 eP    24 56.00   1.2
MKS    12.75 211 iPd   25 10.00   2.7X
PIP    13.48 338 iPd   25 21.00   4.3X
KUG    16.06 189 eP    25 50.00   0.9
                 eS    28 59.50
TRT    18.92 225 ePd   26 22.10  -0.1
     1.3s  1672.00nm          6.2mb
HKC    19.97 326 iP    26 41.00   8.0X
PJG    20.13  66 eP    26 32.90  -1.8
GUA    20.16  66 eP    26 32.90  -2.1
     0.7s   142.47nm          5.5mb
QZH    20.29 340 P     26 37.30   1.1
                 pP    27 03.00 144km
                 S     30 12.00
GZH    21.05 326 eP    26 44.60   0.8
     Z  16s     1.40um          4.4MszX
KGM    22.92 261 ePd   27 04.30   2.1
     0.8s   318.90nm          5.8mb
KLM    24.41 265 ePd   27 18.80   2.2
IPM    24.88 268 ePc   27 20.00  -1.0
     0.9s   108.00nm          5.4mb
SNG    25.24 274 eP    27 23.30  -0.9
```

```
                eS    32 54 00
SSE    25.54 350 P    27 24.70  -2.1
       1.5s   120.00nm          5.2mb
     Z  20s     0.50um          4.0Msz
     E  12s     0.80um
                S     31 38.00
PCT    25.71 292 eP   27 30.00   1.5
PMG    25.97 126 iPd  27 28.90  -2.0
LOE    26.36 298 iPc  27 34.10  -0.4
                e     30 57.00
WRA    26.90 162 P    27 37.60  -1.7
WR2    26.91 162 iPd  27 38.10  -1.3
       0.3s   110.70nm          6.0mb
                eS    32 17.70
WHN    26.91 337 eP   27 40.00   0.6
NJ2    26.93 347 Pc   27 39.50   0.0
     E  12s     0.50um
NST    27.18 293 eP   27 43.00   1.0
                e     28 15.80 158kmX
GYA    27.58 320 P    27 45.20  -0.4
RAB    27.98 110 eP   27 49.00  -0.2
       0.6s   453.33nm          6.4mb
                iS    32 28.00
KHT    28.35 290 eP   27 53.20   0.7
BDT    28.72 296 eP   27 56.00   0.2
       0.7s    30.10nm          5.1mb
CHG    29.34 299 ePc  28 01.00  -0.4
       0.8s    55.60nm          5.3mb
                e     31 04.20
                eS    32 36.00
                e     34 32.00
KMI    29.40 313 Pc   28 02.50   0.5
       1.5s   170.00nm          5.6mb
     Z  24s     2.10um          4.7MszX
                pP    28 36.50 163kmX
                S     32 45.00
OIS    29.44 153 iPc  28 01.20  -1.0
       0.3s    46.00nm          5.7mb
                i     34 32.00
NANU   30.01 200 iPc  28 05.30  -1.8
ASPA   30.31 166 iPc  28 09.00  -0.9
       0.4s   151.90nm          6.1mb
     Z  19s     0.60um          4.2Msz
                epP   29 40.50
                iPcP  31 34.70
                eS    32 55.20
                iScS  38 27.70
TSRJ   30.97  16 P    28 15.30  -0.1
TIA    31.31 346 eP   28 18.00  -0.5
IIDJ   31.49  19 P    28 18.80  -1.3
WARB   31.82 179 iPc  28 23.00   0.0
XAN    32.22 333 iPc  28 25.50  -1.0
CHJJ   32.37  20 P    28 25.80  -1.8
CD2    32.53 323 iPc  28 29.00  -0.2
       1.2s   100.00nm          5.5mb
                pP    29 01.00 149km
                eS    33 29.00
                sS    34 26.00
MAT    32.56  18 iPd  28 27.70  -1.6
       0.9s    27.73nm          5.0mb
     Z  20s     0.35um          4.1Msz
                eS    33 31.00
CTAO   32.57 143 iPc  28 30.00   0.4
       1.2s   155.41nm          5.7mb
                i     28 33.50  12kmX
                i     28 40.00
                eS    33 34.00
                eScS  38 44.00
KAKJ   32.92  21 P    28 28.90  -3.5X
DL2    33.17 354 iPd  28 35.00   0.5
       0.8s   250.00nm          6.0mb
NIIJ   33.45  19 P    28 35.00  -2.0
YAMJ   34.64  20 P    28 46.70  -0.5
BJI    35.19 347 eP   28 52.00   0.2
       0.8s    86.00nm          5.5mb
                epP   29 23.00 139km
                eS    34 12.00
                esS   35 04.00
                eScS  38 58.00
SNY    35.91 357 iPc  28 58.00   0.2
       1.0s   300.00nm          6.0mb
                pP    29 30.00 144km
                S     34 26.00
                eScS  38 54.30
OFUJ   36.02  21 P    28 58.90   0.1
LZH    36.33 329 iPc  29 02.00   0.3
       1.5s   210.00nm          5.7mb
     Z  20s     0.84um          4.5Msz
     N  10s     0.72um
                pP    29 36.00 153km
                eS    34 28.00
                sS    35 30.00
FORR   36.52 177 iPc  29 02.30  -0.7
       0.3s    86.00nm          6.1mb
OLP    36.75 152 iPc  29 04.50  -0.6
       0.3s    80.00nm          5.9mb
                e     29 10.00  19kmX
COOL   36.79 187 iPc  29 04.30  -1.1
       0.6s    52.00nm          5.5mb
AOMJ   36.91  18 eP   29 07.60   1.3
HNR    37.09 114 eP   29 08.00   0.0
HHC    37.19 342 iPc  29 09.00   0.3
       1.0s    80.00nm          5.4mb
     Z  27s     1.00um          4.5MszX
     N  10s     0.20um
     E  11s     0.30um
                S     34 45.00
                ScS   39 03.50
8AL    37.30 193 iPc  29 09.10  -0.5
       0.7s   301.00nm          6.1mb
BTO    37.47 340 P    29 10.50  -0.6
     N  13s     0.30um
     E  13s     0.30um
                pP    29 42.00 140km
CN2    37.82 359 Pc   29 14.00   0.1
       4.0s   300.00nm          5.4mb X
     Z  16s     1.00um          4.7MszX
                pP    29 44.00 135kmX
                PcP   31 27.50
                eS    34 53.00
                esS   35 46.00
                ScS   39 09.00
KLB    38.03 191 iPc  29 15.60  -0.1
       0.5s   117.00nm          5.9mb
MUN    38.73 193 iPc  29 21.60   0.0
       0.8s   278.00nm          6.0mb
MRRJ   38.83  18 eP   29 23.70   1.5
RMQ    38.98 147 eP   29 26.50   2.8X
                i     29 34.00  25kmX
                i     31 37.00
                i     35 11.60
NWAO   39.42 192 iPc  29 17.60  -9.7X
HOOJ   39.51  20 eP   29 27.80  -0.1
STK    40.34 159 iPc  29 35.30   0.5
                epP   29 44.50  31kmX
                iScP  35 10.60
                iS    35 30.30
LSA    40.52 310 P    29 35.60  -1.3
                S     35 35.00
KUSJ   40.64  21 P    29 38.40   1.3
ASAJ   40.85  18 P    29 40.40   1.6
GTA    40.93 329 iPc  29 40.00   0.3
       0.9s    50.00nm          5.2mb
     Z  20s     0.90um          4.6Msz
     N  14s     0.50um
                pP    30 14.40 156km
                sP    30 31.20
                PP    31 19.60
                PcP   31 38.40
                ScP   35 13.60
                PcS   35 27.20
                eS    35 39.00
                ScS   39 27.40
RKG    41.06 191 iPc  29 42.20   1.5
CMS    41.66 154 iPc  29 45.90   0.2
ADE    42.31 164 iPc  29 52.10   1.1
       1.0s  1060.00nm          6.4mb
COO    43.88 147 eP   30 04.00   0.2
                ipP   30 13.50  32kmX
                e     31 47.40
GUN    43.91 305 P    30 04.30  -0.2
       0.6s   381.00nm          6.2mb
PKI    44.17 304 P    30 06.06  -0.5
       0.7s   179.00nm          5.8mb
KKN    44.36 304 P    30 07.24  -0.7
       0.9s   428.00nm          6.1mb
DMN    44.43 304 P    30 08.12  -0.4
       0.8s   328.00nm          6.0mb
GKN    44.97 304 P    30 11.96  -0.7
       0.7s   224.00nm          5.9mb
BWA    45.30 154 eP   30 17.00   2.1
BFD    45.49 161 iPc  30 15.00  -1.4
       0.9s   281.00nm          5.9mb
                i     30 49.30 153km
CAN    46.31 154 eP   30 23.90   1.0
CNB    46.46 153 iPc  30 25.80   1.6
       0.1s    14.00nm          5.6mb
TOO    46.85 159 iPc  30 28.60   1.4
       0.2s    57.00nm          5.9mb
                i     30 40.80  44kmX
HYB    47.73 288 ePc  30 33.50  -0.9
       1.0s    60.00nm          5.3mb
                e     30 43.00  32kmX
KOD    48.20 278 eP   30 30.30  -8.0X
DZM    48.36 126 iPd  30 39.10   0.0
GBA    48.40 283 Pd   30 38.20  -1.2
       0.5s    26.20nm          5.2mb
IRK    49.63 343 eP   30 48.00  -0.4
                e     31 16.00 120kmX
                e     31 38.00
                e     31 58.00
                e     32 06.00
                e     32 07.00
                e     33 18.00
                e     38 45.00
                e     42 26.00
WMO    50.59 325 P    30 55.40  -0.5
       1.5s    50.00nm          5.0mb
     Z  16s     0.60um          4.7MszX
     N  13s     0.60um
                pP    31 28.00 141km
                ScP   35 46.50
                ScS   40 27.00
TAU    52.23 160 eP   31 09.00   0.9
POO    52.32 289 eP   31 06.00  -3.2X
KSH    56.02 314 P    31 36.00   0.0
YAK    56.14   2 iPc+ 31 36.40   0.2
                ipP   32 08.00 134kmX
                ePcP  32 27.00
                ePP   33 29.00
                ePPP  34 49.00
                iS    39 14.00
                ePS   39 32.00
                esS   40 16.00
                iScS  41 07.00
                e     42 12.00
QUE    60.42 301 iPc  32 05.80  -1.0
MSZ    62.78 148 P    32 22.50   0.6
THZ    63.80 142 P    32 26.40  -2.4
LTZ    64.03 144 P    32 27.20  -3.1X
KHZ    64.57 143 P    32 32.50  -1.2
ADK    65.67  35 eP   32 40.00  -0.6
       0.7s    53.49nm          5.6mb
MCO    66.11 160 P    32 45.60   2.3
MAIO   67.66 307 iPc  32 33.00 -20.7X
                eS    41 40.00
CSY    72.81 186 iPd  33 23.90   0.0
       0.6s   124.80nm          5.8mb
ANM    75.68  25 ePd  33 40.90   0.3
SDN    75.88  34 ePc  33 42.70   0.9
TAB    78.29 308 eP   33 55.00  -0.7
SVW    79.32  29 ePc  34 02.20   1.5
TTA    79.38  27 iPc  34 03.20   2.2
       0.9s    41.80nm          5.2mb
BRW    80.44  19 ePc  34 08.80   2.4
KDC    80.58  33 iPc  34 09.30   2.0
IMA    80.78  24 iPc  34 10.60   2.1
       0.6s   107.30nm          5.8mb
                e     34 55.90 185kmX
SLKM   81.90  30 eP   34 14.50   0.2
PMR    82.47  29 ePc  34 18.20   1.1
       1.0s   123.40nm          5.6mb
FBA    83.16  25 eP   34 20.00  -0.6
       0.8s    51.72nm          5.4mb
TOA    83.88  28 ePc  34 26.80   2.4
OBN    84.91 325 iPc  34 29.00  -0.6
     Z  16s     0.40um          4.9MszX
     E  16s     0.40um
                epP   35 10.00 164kmX
                eS    44 38.00
                esS   45 54.00
MAW    85.45 200 iPc  34 32.20   0.2
       0.7s    36.00nm          5.3mb
BALM   85.76  29 eP   34 35.00   1.1
SBA    86.50 172 iPc  34 38.30   1.3
SOD    88.26 338 iP   34 45.00  -0.7
INK    88.50  21 eP   34 47.00   0.2
KAF    89.41 332 iP   34 50.20  -1.0
       0.6s    24.30nm          5.4mb
MBC    90.08  13 ePc  34 54.40   0.3
       0.6s    20.00nm          5.3mb
```

23d 11h

NUR	90.52	331	iP	34 55.30	-1.0
VRI	92.28	316	ePc	35 03.00	-1.7
ISR	92.54	316	eP	35 04.00	-2.0
MLR	92.88	316	ePc	35 05.50	-2.2
			e	56 40.00	
KRA	95.75	321	eP	35 20.10	-0.5
			e	35 39.50	69kmX
HFS	95.83	332	eP	35 19.20	-1.6
	0.5s		16.80nm		5.7mb
	Z 18s		0.19um		4.6Msz
			LR	14 42.00	
VAY	96.17	313	eP	35 20.30	-2.4
NB2	96.59	334	P	35 22.70	-1.6
	0.7s		22.70nm		5.7mb
BSD	97.07	327	iPc	35 25.10	-1.3
	0.7s		13.00nm		5.5mb
KSP	97.73	323	iPc	35 29.40	-0.1
			e	36 12.70	172kmX
YKA	97.91	24	eP	35 30.30	0.2
	0.8s		9.60nm		5.4mb
PRU	99.08	323	Pc	35 35.50	-0.1
	1.5s		13.30nm		5.3mb
			e	36 13.50	149km
BRG	99.12	324	iPc	35 35.30	-0.5
	1.3s		34.00nm		5.7mb
			i	36 19.00	174kmX
CLL	99.51	324	iPc	35 37.20	-0.4
	1.2s		21.00nm		5.6mb
			e	36 14.00	143km
KHC	99.97	322	eP	35 38.50	-1.3
			e	36 16.00	146km
			e	39 50.50	
MOX	100.58	324	iPdiff	35 42.10	-0.3
	1.5s		23.00nm		5.5mb
PNT	101.11	37	ePdiff	35 46.00	1.2
	0.7s		5.00nm		5.3mb
GRF	101.18	323	ePdiff	35 45.20	0.1
	Z 22s		0.20um		4.6Msz
WTTA	101.86	321	iPdiff	35 47.20	-1.2
	0.6s		7.50nm		5.6mb
			i	35 48.80	
			i	35 55.20	
LPG	105.67	320	ePKP	40 32.00	14.0X
	0.8s		9.40nm		
LPL	105.67	320	ePKP	40 32.10	14.1X
	0.8s		6.70nm		
LBF	106.71	323	ePKP	40 20.00	0.4
	0.6s		2.25nm		
BGF	107.60	323	ePKP	40 22.60	1.3
	0.6s		3.15nm		
FFC	107.72	27	ePKP	40 21.00	-0.2
	0.6s		5.00nm		
TCF	108.11	323	ePKP	40 23.60	1.3
	0.6s		2.25nm		
LPF	109.11	325	ePKP	40 23.50	-0.5
MFF	109.36	324	ePKP	40 24.10	-0.5
	0.8s		5.35nm		
PV09	112.58	44	ePKPc	40 32.00	0.6
			e	51 20.00	
RSSD	112.98	37	ePKPc	40 31.00	-0.8
			iPKKP	51 26.00	
GOL	114.53	41	ePKPd	40 35.10	0.0
			e	41 10.90	
			PKKP	51 13.10	
ANMO	116.15	47	ePKPc	40 39.00	0.8
			e	41 15.00	
			PKKP	51 12.90	
ALQ	116.15	47	ePKP	40 39.00	0.8
SCH	118.64	8	ePKP	40 42.00	-0.1
TUL	122.92	40	ePKP	40 50.60	-0.2
	1.0s		14.10nm		
VVO	123.30	41	ePKPc	40 51.60	0.1
FVM	124.81	35	ePKPd	40 54.00	-0.4
			e	41 51.10	
BNH	127.47	15	ePKPc	40 59.70	0.3
KIC	129.35	283	PKP	41 03.52	-0.3
	0.7s		45.50nm		
LKO	129.39	287	PKP	41 03.34	-0.6
TIC	129.56	284	PKP	41 03.72	-0.5
LIC	129.66	283	PKP	41 03.88	-0.5
	0.7s		48.00nm		
TBR	129.72	20	ePKP	41 04.00	0.3
BLA	130.60	28	ePKP	41 06.00	0.4
LNV	147.70	152	ePKP	41 40.00	3.7X
CHCH	148.06	153	iPKPc	41 41.00	4.0X
TACH	148.16	153	ePKP	41 41.00	3.9X
PCH	148.38	153	iPKPc	41 41.50	3.9X
SAN	148.46	153	ePKP	41 42.00	4.4X
PEL	148.71	152	ePKP	41 43.50	5.4X
UPA	150.62	60	iPKPc	41 47.30	5.9X
CNCB	162.51	130	PKP	42 01.00	4.3X
LPB	162.58	129	ePKP	42 10.00	13.4X
ZOBO	162.71	128	iPKPc	41 58.80	1.8
	1.4s		37.75nm		
			i	43 49.20	
CCH	163.49	135	(PKP)	42 01.00	3.6X
SOB1	166.56	255	ePKP	42 00.20	0.4
			e	43 03.10	
SIV	167.76	146	iPKPc	42 01.80	1.2
BAD	168.60	211	ePKPc	42 01.50	0.3

S.D. = 1.1 on 161 of 183 obs.

& JUL 23, 1991 11h 34m 31.50s
60.181 N 153.210 W
DEPTH = 140.9km
SOUTHERN ALASKA (2)
<AEIC>.

RED	0.32	42	iP	34 50.48	0.7
RDW	0.36	33	eP	34 50.87	0.8
RSO	0.36	39	eP	34 50.93	0.9
REF	0.40	39	eP	34 51.02	0.8
RDN	0.40	33	eP	34 51.12	1.0
NCT	0.41	20	eP	34 50.91	-0.8
DFR	0.49	32	eP	34 51.14	-1.0
RDT	0.56	45	iP	34 51.60	-0.9
			eS	35 07.47	
PDB	0.63	232	eP	34 51.62	-1.2
			eS	35 07.02	
AUH	0.83	188	eP	34 53.65	-0.7
AUI	0.86	187	eP	34 53.27	-1.2
			eS	35 10.40	
HOM	0.95	123	eP	34 54.70	-0.5
NNL	0.97	97	iP	34 55.46	0.0
XLV	1.05	133	eP	34 54.95	-1.2
			eS	35 14.24	
CKL	1.11	22	iP	34 56.23	-0.6
			eS	35 16.11	
NKA	1.13	59	eP	34 57.68	0.8
SPU	1.15	29	eP	34 56.28	-0.9
			eS	35 16.02	
BGL	1.16	20	eP	34 56.97	-0.3
CNPM	1.19	123	iP	34 56.73	-0.8
			eS	35 15.82	
CDD	1.27	190	eP	34 56.99	-1.4
CGLM	1.28	27	eP	34 57.60	-0.8
NCG	1.33	22	eP	34 58.85	-0.2
SLKM	1.52	76	eP	34 59.72	-1.3
SYI	1.63	165	eP	35 01.04	-1.1
SUA	1.77	42	eP	35 02.75	-1.1
SEW	1.88	91	eP	35 03.42	-1.6
SKT	1.98	24	eP	35 05.44	-0.9
CUT	2.64	31	eP	35 13.09	-1.4
LTI	2.69	91	eP	35 13.49	-1.5
KNIM	2.73	84	eP	35 13.86	-1.8

30 obs. associated

JUL 23, 1991 11h 55m 31.51± 0.53s
41.800 N ± 4.4km 22.851 E ± 4.7km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
ML 2.8 (SKO).

KKB	0.19	69	iPgd	55 35.00	-0.7
VAY	0.52	204	iPg	55 41.70	-0.4
			iSg	55 49.00	
KNT	0.64	177	ePc	55 43.84	-0.5
			eS	55 52.68	
MMB	0.69	107	iPgc	55 45.00	-0.2
			Sg	55 54.00	
VTS	0.83	18	iPg	55 46.00	-1.7
SRS	0.88	141	ePc	55 48.04	-0.4
			eS	56 00.20	
GRG	0.91	202	ePc	55 48.52	-0.4
			eS	56 01.00	
SOH	1.05	159	ePc	55 51.40	0.1
			iS	56 05.08	
SKO	1.07	280	iPg	55 52.00	0.4
			i	56 05.00	
			iSg	56 06.00	
			i	56 07.00	
THE	1.17	176	ePc	55 52.72	-0.6
			eS	56 06.80	
RZN	1.40	94	i(P)	55 58.00	0.8
PLD	1.41	77	iPg	55 58.00	0.7
FNA	1.51	228	iPc	55 59.24	0.6
			eS	56 18.04	
OUR	1.70	149	ePc	56 01.32	0.1
			eS	56 22.84	
KZN	1.70	209	eP	56 05.20	3.8X
			eS	56 26.50	
KDZ	1.93	94	iPd	56 04.00	-0.7
PAIG	1.97	161	ePc	56 06.52	1.2
			eS	56 29.92	
DIM	2.02	82	eP	56 10.00	4.1X
RDD	2.12	107	eP	56 10.60	3.1X
			eS	56 38.50	
PVL	2.32	52	iPgc	56 12.00	1.7

S.D. = 0.9 on 17 of 20 obs.

JUL 23, 1991 12h 19m 50.87± 0.41s
20.938 S ± 7.4km 178.444 W ± 3.9km
DEPTH = 564.4 ± 4.4 km
5.0mb (35 obs.)
FIJI ISLANDS REGION (181)

SVA	4.05	313	iPc	21 42.00	27.3X
VUN	4.12	314	iP	21 14.70	-0.6
OVA	4.16	321	eP	21 15.50	0.0
MBU	4.77	325	eP	21 21.10	0.7
SGE	4.78	314	iP	21 21.20	0.7
NDF	5.00	309	eP	21 22.00	-0.2
AFI	9.45	43	iP	22 01.00	-3.3X
PVC	12.90	282	iPc	22 35.00	-3.8X
BKM	12.98	282	iPc	22 41.00	1.3
DZM	14.11	263	iPc	22 51.20	0.2
			iS	25 25.10	
AFR	27.26	88	iP	24 52.10	-0.3
	0.8s		115.00nm		5.6mb
PAE	27.42	88	iP	24 53.50	-0.3
	0.8s		40.00nm		5.1mb
PPT	27.44	88	iP	24 54.00	0.0
	0.8s		75.00nm		5.4mb
PPN	27.58	88	iP	24 55.00	-0.2
	0.8s		30.00nm		5.0mb
TVO	27.70	89	iP	24 56.00	-0.3
	0.8s		55.00nm		5.2mb
COO	28.32	244	iPd	25 02.00	0.4
	0.3s		17.00nm		5.2mb
PMO	29.62	84	iP	25 12.70	-0.1
	0.9s		55.00nm		5.2mb
VAH	29.80	84	iP	25 13.90	-0.5
	0.9s		45.00nm		5.1mb
TPT	29.88	84	iP	25 14.80	-0.3
	0.9s		85.00nm		5.4mb
RUV	30.05	84	iP	25 16.20	-0.3
	0.9s		90.00nm		5.4mb
RMQ	30.48	253	iPc	25 24.00	3.8X
			i	26 56.00	
CTAO	33.04	265	iPc	25 42.00	0.3
	0.8s		41.38nm		5.1mb
			e	25 57.50	63kmX
			e(S)	30 27.00	
CMS	33.60	244	eP	25 46.00	-0.3
	1.0s		55.00nm		5.1mb
QLP	34.53	253	iPd	25 53.50	-0.7
	0.5s		40.00nm		5.3mb
STK	37.23	245	iPc	26 16.80	0.5
	0.5s		9.70nm		4.7mb
ASPA	44.02	257	iPd	27 09.90	-0.8
	0.8s		15.10nm		4.6mb
			ipP	28 43.30	500kmX
			iScP	31 44.40	
			iPcS	32 35.90	
			iS	32 59.50	
			iScS	36 08.60	
WR2	44.11	263	iPc	27 10.00	-1.4
	0.2s		12.10nm		5.1mb
			e	27 44.90	157kmX
			iS	32 58.60	
WRA	44.13	263	P	27 09.00	-2.6X
	0.8s		9.70nm		4.4mb
GUA	49.70	310	eP	27 53.50	-0.2
	0.9s		215.13nm		5.7mb
PJG	49.76	310	eP	27 53.60	-0.6
WARB	50.30	253	iPc	27 56.90	-1.2
KAKJ	69.00	325	P	30 01.10	-0.7
CHJJ	69.52	324	P	30 04.60	-0.4
IIDJ	69.71	323	P	30 05.50	-0.6
MAT	70.32	324	iPd	30 08.70	-0.9
	0.6s		16.67nm		4.7mb

```
NIIJ   70.40 325 P      30 11.60   1.5
OFUJ   70.41 328 P      30 09.60  -0.5
YAMJ   70.55 326 P      30 10.80  -0.1
ADK    72.52   1 ePc    30 20.20  -1.8
       0.6s     68.97nm          5.4mb
PLM    79.75  48 ePd    31 03.00   0.9
                e       33 26.80 710kmX
NJ2    79.84 310 P      31 03.20   0.9
CMB    80.06  43 ePd    31 03.80   0.4
       0.9s     11.06nm          4.3mb
ORV    80.28  41 ePd    31 05.20   0.8
DL2    81.76 317 eP     31 12.00   0.0
TNP    82.13  44 ePd    31 14.70   0.5
       0.7s     11.11nm          4.5mb
SNY    82.28 320 Pc     31 14.00  -0.5
CN2    82.39 323 Pd     31 15.40   0.4
       1.0s     30.00nm          4.8mb
SVW    83.81  11 ePd    31 21.30  -0.5
       0.Bs     34.48nm          5.0mb
SLKM   84.33  14 eP     31 23.20  -1.2
PGC    84.85  33 eP     31 28.00   1.0
PMR    85.54  14 ePd    31 29.40  -0.7
       1.2s     48.48nm          5.1mb
BJI    85.91 316 eP     31 32.50   0.2
       1.0s     13.00nm          4.6mb
LOE    87.02 290 eP     31 39.20   1.1
PNT    87.25  34 iPc    31 40.20   1.6
       0.8s     18.00nm          4.9mb
TIY    87.26 312 eP     31 39.10   0.1
NEW    87.97  36 P      31 41.30  -0.7
       0.8s     11.67nm          4.8mb
ALQ    88.00  51 ePc    31 43.80   1.1
       1.1s      4.43nm          4.2mb
ANMO   88.00  51 ePc    31 43.80   1.1
       1.0s      5.50nm          4.3mb
                e       33 44.50 548kmX
NVL    88.26 183 ePc    31 43.00   0.0
MCMT   88.55  40 eP     31 46.30   1.2
FBA    88.76  13 ePd    31 43.70  -1.5
       0.7s     43.60nm          5.5mb
BW06   89.57  43 ePc    31 49.80   0.0
       0.7s      5.07nm          4.6mb
CHG    90.00 290 ePd    31 53.10   1.2
       0.9s     29.62nm          5.2mb
GOL    90.92  48 ePc    31 55.70  -0.4
       0.6s      1.23nm          4.1mb
SES    92.47  36 eP     32 03.00   0.4
RSSD   93.76  44 eP     32 08.20  -0.8
INK    94.80  15 eP     32 12.00  -0.8
YKA    97.08  25 eP     32 22.80  -0.4
       0.8s      1.20nm          4.3mb
QUE   120.98 293 ePKP   37 41.60   0.1
KAF   135.45 344 iPKP   38 06.50  -1.4
       0.6s      6.60nm
NUR   137.24 343 ePKP   38 10.30  -1.0
NB2   139.36 353 PKP    38 05.80  -9.5X
       0.8s      1.50nm
HFS   139.90 351 ePKP   38 07.30  -8.9X
       0.5s      8.10nm
COP   144.36 349 iPKPc  38 23.60  -0.4
       0.8s     41.79nm
BSD   144.42 347 iPKPc  38 23.60  -0.5
       0.8s     56.00nm
EKA   145.47   5 PKPc   38 26.70   0.8
       1.0s     22.50nm
DMU   146.46   9 ePKP   38 29.60   2.0
       0.7s     57.00nm
DCN   146.95  10 ePKP   38 31.10   2.8X
DLF   147.10   9 ePKP   38 31.30   2.7X
HRI   147.33 299 ePKP   38 38.00   8.2X
KRA   147.50 338 ePKP   38 29.70   0.4
                e       38 32.30
                e       38 36.80
VRI   147.70 326 ePKPd  38 32.00   2.2
WIT   147.94 354 ePKP   38 35.00   5.1X
JVI   147.94 297 ePKP   38 40.00   9.3X
KSP   147.98 342 ePKP   38 30.00  -0.1
       0.9s     38.00nm
                id      38 34.00
                i       38 39.00
SPC   148.11 337 ePKP   38 29.70  -0.9
                i       38 35.20
MLR   148.36 326 ePKPd  38 33.00   2.0
CLL   148.39 346 ePKP   38 30.00  -0.7
       0.9s     52.00nm
                i       38 35.00
                i       38 40.30
PRNI  148.53 294 iPKPd  38 41.40   9.8X
BRG   148.57 345 iPKPc  38 30.60  -0.4
       1.2s     32.00nm
                i       38 35.00
                i       38 40.80
WTS   148.73 354 ePKP   38 36.00   4.8X
       1.0s     77.00nm
PRU   149.24 344 iPKPd  38 37.00   5.0X
       1.0s     21.20nm
                e       38 44.40
MOX   149.31 347 ePKP   38 32.20   0.0
DEV   149.59 330 ePKPc  38 39.00   6.3X
BNS   149.71 353 iPKPc  38 38.70   6.0X
SRO   149.97 337 ePKP   38 38.30   5.1X
                i       38 47.10
ENN   150.03 354 ePKP   38 39.00   5.8X
       0.9s     28.00nm
                i       38 47.10
ZST   150.06 339 ePKP   38 38.30   5.0X
                i       38 48.20
                i       42 31.30
TNS   150.27 351 ePKPd  38 39.40   5.7X
KHC   150.27 344 ePKP   38 39.50   5.8X
                i       38 48.70
FLN   152.19   3 ePKP   38 43.60   7.2X
       0.7s     12.15nm
CDF   152.21 352 ePKP   38 43.90   7.3X
       0.6s      7.20nm
LDF   152.37   2 ePKP   38 43.90   7.2X
       0.8s      6.70nm
WTTA  152.49 345 iPKPd  38 44.30   7.1X
       0.8s     24.20nm
                ic      38 44.60
                i       38 50.40
                i       38 58.10
GRR   152.54   3 ePKP   38 44.40   7.5X
       0.6s      8.10nm
HAU   152.72 353 ePKP   38 44.80   7.6X
       0.8s      6.70nm
LPF   152.89   4 ePKP   38 45.20   7.8X
       0.9s     24.55nm
LOR   153.67 356 ePKP   38 46.90   8.4X
       0.7s      8.25nm
SSF   153.89 357 ePKP   38 45.20   6.4X
       0.8s      6.70nm
SSF   153.B9 357 ePKP   38 47.80   9.0X
       0.7s      4.40nm
MFF   154.36   3 ePKP   38 48.50   9.1X
LSF   154.75   0 ePKP   38 48.60   8.6X
       0.8s     16.10nm
MAF   154.77 358 ePKP   38 49.10   9.0X
       0.9s      4.90nm
LPL   155.12 351 ePKP   38 50.40   9.6X
LPG   155.13 351 ePKP   38 50.60   9.6X
       0.6s      2.70nm
LIC   164.04 156 (PKP) 38 51.30   0.1
KIC   164.28 156 (PKP) 38 51.30  -0.1
     S.D. = 0.9  on  80 of 117 obs.
-----------------------------------
?  JUL  23, 1991  13h 09m 40.34± 5.72s
   32.364 S ±37.3km   71.727 W ±24.3km
   DEPTH =  10.0km  (geophysicist)
 NEAR COAST OF CENTRAL CHILE      (135)

ROCH    0.86 135 iP     09 57.30   0.3
                iS      10 12.40
JACH    1.01 109 iP     09 59.20  -0.3
                iS      10 15.30
LCCH    1.12 173 eP     10 00.70  -0.6
                iS      10 18.40
PEL     1.17 132 iPd    10 02.30   0.0
                iS      10 20.80
SAN     1.41 141 iPd    10 06.10   0.1
                iS      10 28.00
TACH    1.45 153 iP     10 07.00   0.4
                iS      10 28.70
LNV     1.61 171 iP     10 09.00   0.2
PCH     1.62 141 iP     10 09.20   0.1
                iS      10 34.00
CHCH    1.81 150 iP     10 11.90   0.1
                iS      10 39.80
     S.D. = 0.4  on   9 of   9 obs.
-----------------------------------
*  JUL  23, 1991  13h 17m 41.91± 1.44s
   22.126 S ±15.4km   66.918 W ±16.8km
   DEPTH = 230.0km  (geophysicist)
 JUJUY PROVINCE, ARGENTINA        (128)
ANT     3.59 243 iPd    18 40.40   0.0
                iS      19 19.60
CCH     4.77   9 P      18 55.40   0.2
CNCB    5.38 349 P      19 03.00  -0.1
                S       20 04.00
ZOBO    5.94 349 P      19 10.00  -0.1
                S       20 13.00
ARE     7.10 322 e(P)   19 21.00  -3.6X
                eS      20 33.00
SIV     8.23  43 iPd    19 39.00  -0.1
     S.D. = 0.2  on   5 of   6 obs.
-----------------------------------
   JUL  23, 1991  13h 25m 47.32± 0.10s
    3.775 N ± 2.7km   95.932 E ± 2.2km
   DEPTH =  46.8km  (geophysicist)
   5.8mb (109 obs.)  5.1Msz ( 22 obs.)
 OFF W COAST OF NORTHERN SUMATERA(705)
      Felt in the Banda Aceh area.
      Depth from broadband
      displacement seismagrams.
      FAULT PLANE SOLUTION: P-Waves
       NP1:Strike= 80 Dip=73 Slip= 110
       NP2:        209     26       42
       Principal Axes:
        T                Plg=57  Azm= 17
        P                     25      154
      Comment: The focal mechanism is
        poorly controlled and
        corresponds to reverse
        faulting with a moderote
        right-lateral strike-slip
        component. The preferred fault
        plane is NP2.
      RADIATED ENERGY
       No. of sta:   6  Focol mech.  M
       Energy          1.6±0.5*10**12 Nm
      MOMENT TENSOR SOLUTION
      Dep  51            No. of sta:  9
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 1.43        Mtt=-1.79
        Mff= 0.36        Mrt= 2.41
        Mrf=-0.42        Mtf=-0.99
       Principal axes:
        T  Val=  2.99  Plg=55  Azm= 33
        N        0.22      21      269
        P       -3.21      26      168
      Best Double Couple:Mo=3.1*10**17
       NP1:Strike=218 Dip=27 Slip=  37
       NP2:        95     74      112
      CENTROID, MOMENT TENSOR    (HRV)
      Data Used: GDSN
      L.P.B.: 17S, 43C
      Centroid Location:
      Origin Time        13:25:48.4 0.4
      Lat  3.90N 0.05 Lon  95.83E 0.05
      Dep  42.3 BDY Half-duration  2.7
      Moment Tensor;   Scale 10**17 Nm
        Mrr=-0.92 0.08  Mtt= 0.98 0.12
        Mff=-0.06 0.14  Mrt= 3.03 0.26
        Mrf= 0.66 0.14  Mtf=-0.41 0.10
       Principal Axes:
        T  Val=  3.21  Plg=36  Azm=359
        N        0.12      10      261
        P       -3.33      52      158
      Best Dauble Couple:Mo=3.3*10**17
       NP1:Strike=132 Dip=13 Slip= -38
       NP2:        260     82     -100

BSI     1.82 340 eP     26 19.50   2.7
IPM     5.14  81 ePc    27 04.00   0.2
       0.7s   425.70nm          5.9mb
                e       27 51.80
KLM     5.74  97 ePd    27 13.50   1.2
SNG     5.76  54 iPc    27 14.90   2.4
       1.0s  1110.00nm          6.2mb X
                eS      29 02.00
KGM     7.58 103 ePc    27 39.50   1.5
       0.7s   393.40nm          6.4mb
                e       27 45.00
KHT    11.25  13 iPc    28 30.70   2.3
PCT    12.11  26 eP     28 43.00   3.1X
       0.5s     7.00nm          5.0mb
NST    12.52  19 eP     28 48.00   2.5
BDT    13.72  12 eP     29 02.00   0.8
       1.2s   221.10nm          5.8mb
LOE    14.69  22 eP     29 16.20   2.2
CHG    15.23  11 iPc    29 22.10   1.0
```

23d 13h

	1 0s	204.50nm		5.3mb			
		eS	32	32.00			
KOD	19.41	290 iPc	30	13.00	0.0		
	1.0s	170.00nm		5.3mb			
		eS	33	31.00			
TRT	20.19	124 ePd	30	22.10	1.1		
KKM	20.33	83 ePc	30	22.20	-0.3		
	0.6s	98.20nm		5.3mb			
QIZ	20.36	41 P	30	23.00	0.3		
	0.6s	1200.00nm		6.4mb			
	N 18s	5.40um					
	E 16s	5.20um					
GBA	20.71	299 Pc	30	25.70	-0.6		
	0.9s	168.30nm		5.4mb			
HYB	21.77	310 iPc	30	38.00	0.9		
	1.0s	440.00nm		5.8mb			
		iS	34	32.50			
TSM	21.89	88 ePc	30	38.00	-0.2		
KMI	22.21	17 iPc	30	42.88	1.2		
	2.0s	1100.00nm		5.9mb			
	Z 18s	11.70um		5.3Msz			
	N 14s	3.30um					
	E 13s	2.20um					
		SP	31	00.00			
		eS	34	47.57			
GYA	24.79	23 iPc	31	05.60	-0.9		
	1.2s	370.00nm		5.8mb			
	Z 18s	5.20um		5.1Msz			
	N 16s	5.00um					
	E 16s	3.70um					
		sP	31	25.00			
MKS	25.15	111 iPc	31	11.50	1.6		
GZH	25.54	40 eP	31	14.00	0.5		
	1.1s	140.00nm		5.4mb			
	Z 17s	6.60um		5.2MszX			
PKI	25.71	338 P	31	13.44	-2.0		
	0.5s	648.00nm		6.4mb			
GUN	25.84	339 P	31	16.16	-0.6		
	0.6s	777.00nm		6.4mb			
DMN	25.86	338 P	31	15.04	-1.7		
	0.6s	633.00nm		6.3mb			
KKN	25.95	338 P	31	15.70	-1.9		
POO	26.11	306 iPc	31	18.80	-0.1		
	0.7s	47.95nm		5.2mb			
LSA	26.18	351 Pc	31	16.60	-3.3X		
GKN	26.39	337 P	31	20.78	-0.7		
CD2	27.98	14 iPc	31	35.00	-0.8		
	0.6s	400.00nm		6.2mb			
	Z 16s	6.20um		5.3MszX			
	N 14s	5.80um					
		S	36	18.00			
		ScP	38	27.00			
		PcS	38	32.00			
		ScS	42	16.00			
MAP	28.57	75 eP	31	40.00	-1.2		
OZH	30.30	44 P	31	56.50	-0.1		
	Z 20s	4.98um		5.2Msz			
NDI	30.50	326 iPc	31	57.00	-1.3		
	0.6s	60.00nm		5.5mb			
WHN	31.80	31 Pc	32	10.00	0.3		
	1.0s	100.00nm		5.6mb			
	Z 20s	3.10um		5.0Msz			
	E 12s	2.60um					
		eS	37	16.00			
NANU	32.43	145 iPd	32	14.10	-1.2		
XAN	32.45	20 iPc	32	13.70	-1.7		
	1.0s	100.00nm		5.6mb			
	N 12s	1.90um					
	E 12s	1.00um					
		pP	32	28.00	57kmX		
		sP	32	36.00			
		S	37	23.70			
LZH	32.97	12 ePc	32	18.81	-1.3		
	1.6s	640.00nm		6.2mb			
	Z 24s	5.31um		5.2MszX			
	E 17s	3.74um					
		pP	32	32.00	51kmX		
		sP	32	39.00			
		PcP	35	04.00			
		sS	37	50.00			
		ScP	38	44.00			
		ScS	42	42.50			
NJ2	35.41	35 Pc	32	41.00	0.1		
	1.2s	200.00nm		5.9mb			
	Z 16s	1.80um		4.9MszX			
	E 11s	1.30um					
		pP	32	55.50	56kmX		
		S	38	10.00			
GTA	35.65	5 iPc	32	41.60	-1.4		
	1.2s	200.00nm		5.9mb			
	Z 27s	4.60um		5.1MszX			
	N 23s	3.30um					
		pP	32	53.60	44kmX		
		sP	32	59.00			
		PP	34	02.80			
		PcP	35	11.80			
		eS	38	11.00			
		sS	38	32.00			
		ScP	38	53.00			
		PcS	38	57.20			
		ScS	42	55.50			
SSE	36.12	38 Pc	32	47.00	0.1		
	4.0s	1400.00nm		6.2mb X			
	Z 20s	4.60um		5.2Msz			
	N 16s	2.00um					
	E 16s	2.10um					
		PP	34	08.00			
TIY	37.00	22 Pc	32	53.40	-0.9		
	0.9s	60.00nm		5.5mb			
	Z 17s	6.95um		5.5MszX			
	N 18s	7.15um					
		sP	33	08.50			
		PP	34	23.50			
		S	38	35.50			
		PcS	39	04.00			
TIA	37.73	29 P	32	59.00	-1.4		
	Z 18s	3.30um		5.2Msz			
	N 11s	1.50um					
	E 12s	0.90um					
		PP	34	25.00			
KNA	37.84	122 iPd	33	00.00	-1.5		
QUE	37.95	317 iPc	33	03.40	0.8		
		e	34	18.50	390kmX		
		eS	38	51.10			
BTO	38.80	17 iPc	33	09.00	-0.4		
	5.0s	1200.00nm		6.0mb X			
	Z 15s	7.50um		5.6MszX			
	N 16s	8.10um					
	E 15s	2.60um					
		PP	34	43.00			
		S	39	06.00			
		eSS	41	51.00			
HHC	39.50	19 iPc	33	16.00	0.7		
	0.8s	300.00nm		6.2mb			
	Z 19s	7.40um		5.5Msz			
	N 17s	4.20um					
	E 16s	2.70um					
		pP	33	31.50	61kmX		
		PP	34	55.00			
		S	39	17.00			
		ScS	43	16.50			
BAL	39.53	151 iPd	33	15.80	0.3		
	0.8s	83.00nm		5.6mb			
KSH	39.86	336 P	33	18.00	-0.3		
	4.0s	1700.00nm		6.2mb X			
		pP	33	32.00	54kmX		
		S	39	22.00			
BJI	40.48	24 iPc	33	24.18	1.0		
	0.8s	24.00nm		5.0mb			
	Z 26s	3.00um		5.0MszX			
	E 13s	2.24um					
		epPc	33	36.76	47kmX		
		ePP	34	58.94			
		eS	39	30.72			
		e	39	44.30			
WMO	40.54	351 iPc	33	23.13	-0.6		
	0.5s	100.00nm		5.8mb			
	Z 22s	1.80um		4.9Msz			
	N 15s	0.82um					
		epPc	33	34.47	41kmX		
		ePP	34	58.22			
		PcP	35	21.00			
		ePcP	35	25.70			
		ScP	39	11.00			
		eS	39	24.00			
		sS	39	55.00			
		SS	42	18.00			
		ScS	43	22.00			
KLB	40.85	151 iPd	33	26.60	0.2		
	0.7s	63.00nm		5.5mb			
NWAO	41.71	153 iPd	33	33.90	0.5		
	0.6s	60.00nm		5.5mb			
	Z 20s	2.10um		5.0Msz			
	N 20s	1.30um					
	E 20s	0.70um					
COOL	42.03	147 iPd	33	36.10	0.0		
	0.6s	50.00nm		5.4mb			
DL2	42.06	30 iPc	33	36.00	-0.1		
	0.7s	220.00nm		6.0mb			
	Z 20s	1.90um		5.0Msz			
	N 12s	0.80um					
	E 15s	1.60um					
		PcP	35	30.50			
		eS	39	50.00			
WARB	42.08	137 iPd	33	36.00	-0.6		
	0.6s	25.00nm		5.1mb			
RKG	43.00	154 iPd	33	43.30	-0.6		
WRA	44.49	123 P	33	55.30	-0.9		
WR2	44.51	123 iPc	33	55.70	-0.7		
	0.4s	153.10nm		6.1mb			
		iS	39	40.80			
SNY	45.24	29 iPc	34	01.00	-0.9		
	1.4s	200.00nm		5.8mb			
	Z 18s	4.20um		5.4Msz			
	N 17s	2.10um					
	E 17s	1.40um					
		pP	34	12.00	38kmX		
		sP	34	17.00			
		PP	35	48.00			
		S	40	38.00			
		ScS	43	54.00			
ASPA	45.96	128 iPd	34	07.40	-0.5		
	0.6s	91.20nm		5.9mb			
	Z 23s	3.60um		5.2MszX			
		eS	40	57.50			
FORR	46.13	141 iP	34	08.70	-0.3		
	0.4s	78.00nm		6.0mb			
MAIO	46.60	319 iPc	34	12.00	-0.9		
		eS	41	04.00			
CN2	47.63	29 iPc	34	20.00	-0.8		
	0.7s	100.00nm		5.9mb			
	Z 18s	6.10um		5.6Msz			
	N 15s	1.20um					
	E 15s	0.90um					
		epP	34	34.00	53kmX		
		ePcP	35	48.60			
		PP	36	12.00			
		ScP	39	39.00			
		eS	41	06.00			
		ScS	44	04.00			
TSRJ	48.64	44 P	34	28.90	0.2		
IRK	48.83	7 iPc	34	28.80	-1.1		
		e	34	43.00	54kmX		
		e	35	35.30			
		e	35	54.50			
		e	36	25.00			
		e	37	05.00			
		e	39	44.00			
		e	41	52.00			
QIS	49.19	121 iPd	34	32.50	-0.7		
	0.4s	34.00nm		5.7mb			
		e	41	32.00			
DHR	49.20	302 iPc	34	34.00	0.8		
IIDJ	49.97	45 P	34	38.10	-0.9		
MDJ	50.29	31 iPc	34	41.15	0.0		
		ePPc	34	53.57	45kmX		
MAJO	50.70	44 ePc	34	43.25	-1.3		
MAT	50.70	44 eP	34	44.00	-0.5		
	1.9s	189.47nm		5.8mb			
	Z 20s	2.48um		5.2Msz			
		eS	41	53.00			
CHJJ	51.01	45 P	34	45.30	-1.6		
RYD	51.78	299 iPc	34	53.00	0.1		
KAKJ	51.93	46 P	34	51.20	-2.6		
IR4	52.06	313 iPc	34	54.50	-0.5		
IR5	52.28	313 eP	34	56.00	-0.7		
IR1	52.29	313 iPc	34	56.00	-0.8		
IR7	52.48	313 iPc	34	57.00	-1.1		
KMSA	52.68	293 iPc	34	58.70	-1.1		
PMG	52.70	105 eP	34	48.60	-11.2X		
YAMJ	52.77	44 eP	34	59.90	-0.2		
ABHA	53.94	290 iPc	35	10.70	1.5		
AOMJ	54.19	41 eP	35	11.00	0.6		
OFUJ	54.33	43 eP	35	10.10	-1.4		
CTAO	54.80	118 iPd	35	14.50	-0.8		
		i	35	28.00	49kmX		
		eS	42	53.00			
QLP	55.58	126 iPd	35	20.50	-0.3		
	0.4s	129.00nm		6.3mb			
MRRJ	55.59	40 eP	35	20.50	-0.1		
ADE	55.65	138 iPd	35	21.00	-0.2		

23d 13h

STK	56.02	133	iPd	35	23.00	-0.8
	0.7s	20.40nm				5.3mb
			e	35	34.80	41kmX
BHD	56.25	308	iPd	35	25.00	-0.5
TAB	56.59	314	i(P)	35	27.00	-1.1
HOOJ	56.99	41	eP	35	31.30	0.7
ASAJ	57.44	38	iP+	35	33.00	-0.8
KUSJ	58.25	40	eP	35	38.60	-0.9
MSL	58.29	311	iPd	35	37.50	-2.4
			eS	43	30.50	
			eScS	45	24.00	
CMS	58.99	130	iPd	35	44.40	-0.4
	0.8s	40.00nm				5.6mb
NPA	59.16	250	iPd	35	48.00	1.7
RMQ	59.24	124	iPd	35	50.20	3.5X
	0 6s	59.00nm				5.9mb
BFD	59.46	138	iPc	35	44.90	-3.1X
TOO	61.67	137	iPd	36	03.80	0.7
BWA	62.26	132	iPd	36	07.50	0.4
MDSJ	62.36	304	P	36	09.21	1.3
JARJ	62.76	304	P	36	11.09	0.6
MASJ	62.83	304	P	36	12.10	1.1
HOL	62.87	301	iPc	36	10.70	-0.4
SALJ	62.92	304	P	36	12.66	1.1
DSI	63.07	304	iPc	36	12.60	0.1
CAN	63.08	133	iPd	36	12.10	-0.4
HRI	63.17	305	iPc	36	13.70	0.5
YAK	63.33	17	iPc+	36	12.20	-1.4
			esP	36	25.00	
			ePcP	36	43.00	
			ePP	38	19.00	
			ePPP	40	16.00	
			iS	44	39.00	
			ePS	45	06.00	
			iScS	45	55.00	
CRZF	63.34	213	e(P)	36	22.00	8.1X
			e(S)	44	53.00	
COO	63.34	127	iPc	36	14.50	0.2
	0.5s	35.00nm				5.7mb
CNB	63.35	133	iPd	36	14.40	0.1
BHL	63.40	306	Pc	36	15.00	0.3
			S	44	46.00	
RMN	63.48	302	iPc	36	15.60	0.3
KVT	65.08	314	iP	36	25.10	-0.4
HNR	65.12	102	P	36	37.00	10.9X
CSS	65.51	307	eP	36	28.00	-0.3
TAU	65.60	141	eP	36	30.00	1.4
HLW	66.15	301	eP	36	32.50	0.0
PPCY	66.29	306	eP	36	33.00	-0.2
PTZ	66.48	253	iPc	36	33.30	-1.6
			i	36	48.00	53kmX
KAS	66.81	314	iPc	36	35.80	-0.8
CIR	67.65	246	iPd	36	46.00	3.8X
ELL	68.61	308	iP	36	46.00	-2.0
ALT	68.94	310	eP	36	49.30	-0.7
GPA	69.07	312	eP	36	49.10	-1.6
KHL	69.24	310	eP	36	50.40	-1.4
EYL	69.25	312	eP	36	50.10	-1.8
LSZ	69.66	252	iPc	36	54.10	-0.6
			i	37	11.00	62kmX
HRT	69.67	312	eP	36	53.00	-1.3
OBN	69.75	328	iPc	36	53.00	-1.4
Z	19s	0.50um				4.8Msz
N	19s	0.50um				
E	19s	0.50um				
			iPcP	37	07.00	
			epP	37	17.00	93kmX
			ePP	39	25.00	
			iS	45	56.00	
			iSP	46	20.00	
			esS	46	31.00	
			eScS	46	49.00	
GBZT	69.83	312	iPc	36	53.50	-1.7
YLV	69.83	312	eP	36	54.00	-1.4
YER	69.97	308	eP	36	54.10	-2.1
ISK	70.17	312	eP	36	56.00	-1.3
BUL	70.17	247	iPc	36	57.00	-0.9
IZM	70.99	309	iP	37	02.20	-0.3
PSN	71.39	315	iPc	37	05.00	0.4
KMZ	71.62	255	iPd	37	07.10	0.4
			i	37	23.50	60kmX
TLB	71.70	316	ePc	37	05.00	-1.4
CFR	71.75	316	eP	37	05.00	-1.8
PRK	71.91	310	eP	37	07.50	-0.3
EZN	71.97	311	eP	37	01.70	-6.5X
PRY	72.68	240	iPd	37	13.00	0.1
	1.0s	36.00nm				5.3mb

RDO	72.80	312	iPc	37	12.20	-0.8
ISR	72.85	316	ePc	37	12.50	-0.9
SEK	72.88	239	iPc	37	15.40	1.4
	1.1s	56.96nm				5.4mb
VRI	72.88	317	iPc	37	12.50	-1.0
DIM	72.96	313	ePc	37	14.00	0.0
KDZ	72.98	312	iPc	37	13.00	-1.1
BUC	73.01	315	iPc	37	14.00	-0.2
PVL	73.32	314	iPc	37	17.00	0.9
MLR	73.34	316	iPc	37	15.00	-1.3
			e	46	38.50	
PTT	73.35	318	eP	37	16.00	-0.1
DZM	73.48	114	iPc	37	23.20	5.7X
RZN	73.50	312	iPc	37	16.00	-1.4
PLD	73.58	313	iPc	37	16.00	-1.6
MTUR	73.90	316	ePd	37	18.00	-1.5
CMP	73.92	316	ePc	37	19.00	-0.6
BLF	74.30	239	iPc	37	18.00	-4.2X
KKB	74.73	312	iPd	37	23.00	-1.3
MAW	74.93	193	iPd	37	25.60	0.8
	0.7s	24.00nm				5.2mb
VAY	75.03	312	iPc	37	25.00	-1.0
	1.3s	253.00nm				6.0mb
FRS	75.18	238	iPc	37	26.20	-0.8
	1.0s	35.00nm				5.3mb
HVD	75.23	237	iPd	37	25.80	-1.7
KZN	75.50	311	iPc	37	27.50	-1.3
DEV	75.51	316	ePc	37	30.00	1.4
GZR	75.51	316	ePd	37	28.00	-0.8
SKO	75.96	312	iPc	37	29.50	-1.8
	1.1s	119.00nm				5.7mb
N	24s	0.68um				
E	24s	0.68um				
			i	37	59.00	116kmX
			iPP	40	07.00	
			iS	47	02.00	
CEI	76.11	318	eP	37	34.00	2.0
VLS	76.16	308	eP	37	31.50	-1.0
TIM	76.65	316	iPc	37	35.00	0.0
KEK	76.93	310	iPc	37	36.00	-0.8
BEO	77.05	315	eP	37	35.50	-1.8
PVY	77.12	313	iPc	37	37.05	-0.9
IVA	77.21	313	iPc	37	37.83	-0.5
KAF	77.23	333	iP	37	37.30	-0.6
	0.5s	61.30nm				5.9mb
NUR	77.57	331	iP	37	39.10	-0.7
	0.7s	56.10nm				5.7mb
			eS	47	24.00	
ULC	77.58	312	iPc	37	39.27	-1.1
TTG	77.63	312	iPc	37	39.58	-0.9
PLE	77.63	313	iPc	37	40.90	0.2
PSZ	77.86	318	iPd	37	41.90	0.1
NKY	77.86	313	iPc	37	41.40	-0.6
BDV	77.93	312	iPc	37	41.27	-1.0
KRA	78.13	320	iPc	37	43.20	0.1
	0.9s	151.00nm				6.0mb
			i	37	47.70	14kmX
			i	37	59.50	
HCY	78.19	312	iPc	37	42.80	-0.8
BRY	78.20	313	iPc	37	43.02	-0.9
BUD	78.38	318	e(P)	37	44.00	-0.6
SOD	78.65	338	iP	37	45.20	-0.5
SRO	78.90	318	iP	37	47.90	0.5
BRT	79.02	311	P	37	48.40	0.2
KEV	79.27	341	ePc	37	48.58	-0.4
			epP	38	02.32	47kmX
			eS	47	43.52	
ROI	79.40	309	P	37	49.80	-0.6
CSI	79.63	310	P	37	51.60	0.0
SOI	79.71	308	P	37	52.60	0.6
CZI	79.72	309	P	37	51.50	-0.5
ZST	79.75	318	iPc	37	52.40	0.4
			i	38	07.00	51kmX
HVAR	79.76	313	iPc	37	50.70	-1.4
SMY	79.84	37	eP	37	53.20	0.8
GMB	79.87	308	P	37	54.00	1.0
	0.8s	70.50nm				5.7mb
MMN	79.87	310	P	37	53.60	0.8
MSZ	79.96	136	P	37	53.80	0.7
ATN	80.18	308	P	37	54.84	0.3
	1.1s	47.50nm				5.3mb
MGR	80.22	310	P	37	54.40	-0.3
VKA	80.28	318	iPc	37	55.20	0.4
	2.0s	716.00nm				6.3mb
			i	38	12.20	61kmX
			e	40	58.00	
			e	47	55.00	

ZAG	80.30	316	iPc	37	55.50	0.5
PTJ	80.32	316	iPc	37	55.40	0.2
KTK1	80.33	340	iPc	37	54.19	-0.5
			e	38	07.91	47kmX
SGO	80.43	310	P	37	56.50	0.7
KSP	80.54	321	iPc	37	56.60	0.4
	1.0s	123.00nm				5.8mb
			e	40	43.00	
PZI	80.57	307	P	37	57.11	0.4
	0.6s	48.10nm				5.6mb
MNO	80.78	308	P	37	59.20	1.2
VBY	80.78	315	iPc	37	58.20	0.7
DUI	81.13	311	P	38	00.08	0.5
	0.1s	5.80nm				5.5mb
WIN	81.16	247	eP	38	01.00	0.8
	0.9s	16.81nm				5.0mb
GIB	81.31	308	P	38	00.60	0.0
LJU	81.32	316	iPc	38	01.00	0.6
			e(S)	48	00.00	
CEY	81.38	316	ePc	38	00.60	-0.1
RIY	81.38	315	ePc	38	00.10	-0.5
RFI	81.47	311	P	38	01.53	0.3
	1.9s	2473.70nm				6.9mb X
PRU	81.58	320	iPc	38	02.10	0.5
	1.1s	60.90nm				5.5mb
			e	39	36.50	417kmX
			S	48	10.00	
SDI	81.61	311	P	38	02.30	0.3
KMR	81.72	318	iP+	38	03.10	0.7
VOY	81.77	316	iPc	38	02.80	0.0
BSD	81.78	325	iPc	38	01.80	-0.7
	0.5s	54.00nm				5.8mb
TRI	81.84	315	iPc	38	02.60	-0.4
AQU	81.95	312	P	38	04.80	1.0
TRO	81.96	340	iP	38	02.64	-0.6
USI	82.00	308	P	38	04.30	0.3
BRG	82.02	321	iPc	38	04.20	0.3
	1.4s	110.00nm				5.7mb
			i	38	21.20	61kmX
			e	41	10.00	
			e	41	56.00	
			e	48	16.00	
KHC	82.15	319	iPc	38	05.00	0.3
			e	38	15.50	33kmX
			S	48	14.00	
ARV	82.33	313	P	38	06.80	1.1
RMP	82.45	312	P	38	06.67	0.3
	0.2s	129.00nm				6.6mb
MNS	82.48	312	P	38	06.10	-0.4
ASS	82.52	313	P	38	06.50	-0.2
BHG	82.55	317	iPc	38	06.80	0.1
	1.2s	203.00nm				6.0mb
FVI	82.56	316	P	38	07.00	0.2
WET	82.61	319	iPc	38	07.80	0.8
	1.2s	198.00nm				6.0mb
CLL	82.64	321	iPc	38	07.00	-0.1
	1.4s	110.00nm				5.7mb
			i	38	23.30	58kmX
			eS	48	17.00	
RSM	82.70	314	P	38	08.90	1.4
VVI	82.79	316	P	38	09.10	1.1
THZ	82.83	133	P	38	07.80	-0.5
HFS	82.87	330	eP	38	07.50	-0.6
	0.6s	75.10nm				5.9mb
Z	20s	0.60um				5.0Msz
			LR	12	20.00	
MOR7	83.02	336	iP	38	08.33	-0.5
CRE	83.05	313	P	38	10.00	0.5
SFI	83.13	314	P	38	11.30	1.6
PGD	83.22	314	P	38	11.70	1.2
COP	83.23	325	iPc	38	10.20	0.2
	0.6s	40.00nm				5.6mb
			i	38	29.70	71kmX
HOF	83.31	320	eP	38	10.80	0.2
	0.9s	36.00nm				5.4mb
CTI	83.33	316	P	38	11.60	0.7
WTTA	83.37	317	iPc	38	10.80	-0.4
	0.9s	117.00nm				6.0mb
			e	48	23.00	
MOX	83.49	320	iPc	38	11.80	0.3
	1.7s	150.00nm				5.8mb
MAO	83.62	312	P	38	12.60	0.3
FUR	83.64	318	iPc	38	12.40	0.1
	1.3s	121.00nm				5.8mb
LOF	83.68	338	iPc	38	11.21	-0.9
			e	38	25.70	50kmX
GRF	83.71	319	iPc	38	13.70	1.0

23d 13h

	1.7s	405.00nm			6.2mb	
	Z 21s	0.50um			4.9Msz	
		e	38	28.70	52kmX	
		e	38	44.20		
		e	38	59.10		
		e(SKS)	48	32.60		
GRFO	83.72	319 iPc	38	12.17	-0.5	
TCW	83.73	132 P	38	12.00	-0.9	
OGA	83.78	317 iPc	38	13.40	0.1	
	1.0s	127.00nm			5.9mb	
MME	83.97	314 P	38	15.30	0.9	
NSS	84.01	334 iP	38	13.55	-0.3	
		e	38	26.22	42kmX	
MRW	84.05	132 P	38	13.60	-0.9	
KIW	84.14	132 P	38	14.10	-0.9	
NB2	84.15	331 P	38	13.80	-0.9	
	0.7s	23.50nm			5.4mb	
WDW	84.28	132 eP	38	14.90	-0.7	
CAW	84.30	132 eP	38	14.50	-1.3	
OSS	84.38	316 ePc	38	17.00	0.7	
MTW	84.63	132 P	38	16.60	-0.8	
BLW	84.65	132 P	38	16.90	-0.6	
VDL	84.85	316 ePc	38	18.80	0.1	
BOB	84.86	314 P	38	19.50	0.9	
KONO	84.91	329 iPc	38	18.43	0.1	
		epP	38	33.99	54kmX	
		iSKS	48	37.14		
		eS	48	40.28		
PGZ	85.12	131 P	38	19.20	-0.6	
KBS	85.16	349 iP	38	19.50	0.1	
LLS	85.17	317 ePc	38	20.60	0.3	
PGF	85.21	312 iPc	38	20.80	0.4	
	1.3s	108.30nm			5.9mb	
TMA	85.26	316 ePc	38	20.50	-0.2	
ADK	85.44	38 eP	38	20.60	-0.6	
	0.5s	21.49nm			5.6mb	
SLE	85.51	317 ePc	38	21.50	-0.2	
TNS	85.51	320 ePc	38	22.30	0.6	
PCP	85.51	314 P	38	21.34	-0.5	
ZLA	85.58	317 eP+	38	22.10	0.0	
CKI	85.70	314 P	38	23.10	0.4	
FIN	85.76	314 P	38	23.09	0.0	
FEL	85.83	318 P	38	23.08	-0.4	
ORX	85.89	315 P	38	22.05	-1.7	
MMK	85.89	316 ePc	38	24.00	0.0	
MOL	85.93	332 iP	38	23.99	0.6	
KOE	85.97	320 iPc	38	24.50	0.7	
IMI	86.00	314 P	38	24.31	0.0	
ROB	86.00	314 P	38	24.10	-0.2	
GWF	86.07	319 P	38	24.97	0.5	
LIBD	86.10	318 P	38	24.70	0.1	
BBS	86.18	317 P	38	24.86	-0.2	
DIX	86.28	316 ePc	38	26.60	0.7	
CDF	86.31	318 P	38	25.54	-0.2	
BNS	86.31	321 iPc	38	26.30	0.8	
ENR	86.32	314 P	38	25.23	-0.7	
S8F	86.32	314 iPc	38	26.10	0.2	
	1.0s	114.00nm			6.1mb	
ECH	86.39	318 P	38	25.98	-0.1	
STV	86.39	314 P	38	24.92	-1.3	
RSP	86.41	315 P	38	24.62	-1.8	
MOF	86.42	318 P	38	26.05	-0.3	
DOI	86.44	314 P	38	25.20	-1.3	
WTS	86.51	322 eP	38	27.00	0.5	
	0.9s	76.00nm			5.9mb	
PZZ	86.54	314 P	38	26.05	-1.0	
WIT	86.57	323 eP	38	28.00	1.2	
EMS	86.61	316 ePc	38	28.00	0.6	
LOMF	86.64	317 P	38	27.20	-0.2	
BSF	86.65	318 iPc	38	27.10	-0.4	
	0.8s	20.15nm			5.4mb	
RRL	86.76	315 P	38	27.80	-0.4	
LPG	86.76	315 iPc	38	28.80	0.5	
	0.8s	62.95nm			5.9mb	
LPL	86.77	315 iPc	38	29.00	0.7	
BNI	86.83	315 P	38	29.30	0.9	
RSL	86.84	315 P	38	28.66	0.2	
FRF	86.91	313 iPc	38	29.10	0.5	
	1.2s	124.95nm			6.0mb	
HAU	86.94	318 iPc	38	28.60	-0.2	
	0.7s	68.90nm			6.0mb	
	Z 22s	0.47um			4.9Msz	
WLF	87.01	319 iPc	38	29.76	0.8	
LMR	87.02	313 iPc	38	29.80	0.6	
	1.2s	77.35nm			5.8mb	
BER	87.04	330 eP	38	29.50	0.6	
ASK	87.11	330 eP	38	30.20	1.0	
ENN	87.11	321 ePc	38	29.50	0.1	
	1.0s	49.00nm			5.7mb	
LRG	87.12	313 iPc	38	30.40	0.8	
	1.0s	92.00nm			6.0mb	
VITF	87.18	318 P	38	29.91	0.0	
CDR	87.54	313 ePc	38	32.30	0.6	
LBF	88.60	317 iPc	38	37.00	0.2	
LOR	88.66	317 iPc	38	37.40	0.4	
	0.6s	42.25nm			5.9mb	
	Z 22s	0.60um			5.0Msz	
SMF	88.72	316 iPc	38	37.60	0.3	
SSF	88.92	317 iPc	38	38.50	0.3	
	1.2s	87.75nm			6.0mb	
PLDF	88.92	316 P	38	38.83	0.5	
AVF	89.04	317 iPc	38	39.00	0.2	
	1.2s	178.50nm			6.3mb	
LBL	89.24	315 P	38	40.78	0.9	
AGO	89.26	316 P	38	40.41	0.5	
PYM	89.37	316 P	38	41.16	0.7	
BGF	89.41	316 iPc	38	41.20	0.6	
MENF	89.52	320 P	38	41.73	0.8	
MAF	89.63	316 iPc	38	42.20	0.6	
	1.0s	54.00nm			5.8mb	
SBA	89.68	168 iPd	38	42.90	1.7	
ETER	89.76	312 eP	38	43.00	0.7	
TCF	89.87	316 iPc	38	43.50	0.7	
	1.2s	55.05nm			5.8mb	
MTHF	89.94	313 P	38	43.93	0.7	
ESEL	89.95	310 eP	38	44.90	1.7	
LSF	90.35	316 iPc	38	45.60	0.7	
	1.0s	50.00nm			5.8mb	
ANM	90.35	25 eP	38	44.70	0.1	
LSPF	90.40	313 P	38	46.11	0.8	
RJF	90.45	315 iPc	38	46.20	0.8	
	1.1s	80.60nm			6.0mb	
	Z 22s	0.52um			4.9Msz	
LESF	90.85	313 P	38	47.85	0.5	
LFF	91.04	315 iPc	38	49.00	0.9	
	1.1s	75.70nm			6.0mb	
JNW	91.10	342 eP	38	49.00	1.1	
LDF	91.20	319 iPc	38	49.30	0.5	
	1.0s	124.00nm			6.3mb	
FLN	91.42	319 iPc	38	50.20	0.4	
	1.0s	109.40nm			6.2mb	
	Z 22s	0.55um			5.0Msz	
MFF	91.46	317 iPc	38	50.80	0.8	
	1.0s	96.00nm			6.2mb	
NVL	91.59	199 ePc	38	52.50	2.4X	
		e	39	08.00	53kmX	
		e	39	41.50		
		e	40	03.00		
		e	42	18.00		
		ePP	42	50.00		
		eS	49	53.00		
		e	49	58.00		
		e	50	19.00		
		ePS	51	25.00		
		e	51	44.00		
EBR	91.67	311 eP	38	53.00	1.9	
		(S)	49	48.00		
GRR	91.71	319 iPc	38	51.80	0.7	
	1.0s	93.60nm			6.2mb	
EROO	91.74	311 eP	38	52.90	1.5	
LPF	91.88	318 iPc	38	52.80	0.9	
	1.0s	134.00nm			6.3mb	
BTH	91.92	313 Pd	38	53.10	0.9	
		iPcP	38	58.00		
		pP	39	08.60	53kmX	
		isP	39	19.00		
		PP	42	18.00		
		sPP	42	35.00		
BRW	91.94	18 ePc	38	52.80	1.0	
JAU	92.05	313 P	38	54.36	1.3	
EKA	92.09	326 P	38	53.00	0.3	
	0.7s	28.60nm			5.8mb	
LHE	92.25	313 P	38	55.10	1.2	
ATE	92.29	313 P	38	54.62	0.7	
ISSF	92.36	313 P	38	55.55	1.1	
MADF	92.37	313 P	38	55.07	0.8	
ECHE	92.93	310 eP	38	59.00	2.0	
AFI	93.12	104 eP	38	43.00	-15.3X	
ETOR	93.59	311 eP	39	01.00	0.9	
EVIA	94.24	309 eP	39	04.00	0.9	
DLF	94.41	324 eP	39	04.20	0.8	
EHUE	94.43	308 eP	39	05.00	1.0	
DMU	94.50	325 eP	39	04.80	0.9	
	1.0s	81.00nm			6.1mb	
SDN	94.59	34 eP	39	04.20	0.0	
IMA	94.71	23 iPc	39	05.50	0.7	
	0.9s	81.70nm			6.2mb	
TTA	94.78	26 ePc	39	05.80	0.7	
	1.2s	31.10nm			5.6mb	
DCN	94.84	324 eP	39	06.80	1.4	
GUD	95.19	311 eP	39	08.90	1.4	
EGUA	95.34	307 eP	39	09.00	0.9	
SVW	95.52	28 eP	39	08.80	0.3	
	1.1s	80.00nm			6.1mb	
FBA	97.43	23 e(P)	39	15.90	-1.1	
	0.7s	5.23nm			5.2mb	
MBC	97.55	8 ePc	39	16.70	-0.7	
	1.0s	39.00nm			5.9mb	
SLKM	98.21	27 ePd	39	20.00	-0.6	
PMR	98.27	26 eP	39	19.50	-1.3	
		PP	43	19.00		
YKA	109.95	15 ePKP	44	17.20	2.4X	
	0.6s	1.00nm				
PNT	118.81	26 ePKP	44	32.00	-0.2	
FFC	119.84	12 ePKP	44	33.00	-1.0	
	0.7s	12.00nm				
NEW	120.68	25 ePKPd	44	35.50	-0.4	
		PP	46	01.60		
SES	121.26	20 ePKP	44	37.00	0.1	
WDC	123.55	35 ePKPd	44	41.80	0.2	
LRM	124.55	24 ePKP	44	43.60	-0.1	
ORV	124.83	35 ePKP	44	44.80	0.7	
MHC	126.22	37 ePKP	44	48.00	0.9	
CMB	126.50	36 ePKP	44	47.20	-0.3	
PRS	127.04	38 ePKP	44	49.50	1.0	
PRI	127.59	38 ePKP	44	51.00	1.3	
FRI	127.60	36 ePKP	44	50.30	0.8	
BW06	128.24	24 ePKPc	44	49.90	-1.0	
		PP	46	50.60		
TNP	128.25	33 ePKP	44	50.50	-0.5	
RSSD	129.06	18 ePKP	44	50.50	-1.9	
		PP	46	52.30		
		e	48	06.50		
ISA	129.23	36 ePKP	44	53.00	0.2	
CLC	129.64	36 ePKP	44	54.00	0.5	
SBB	130.29	37 ePKP	44	52.00	-2.8X	
GSC	130.46	36 ePKP	44	56.00	0.9	
BNH	130.50	348 ePKP	44	55.00	0.2	
		SKP	48	13.50		
		e	48	41.00		
PEC	131.23	37 ePKP	44	52.60	-4.0X	
PLM	131.78	37 e(PKP)	44	53.00	-4.8X	
		PP	47	17.60		
		SKP	48	19.00		
PV09	131.97	27 ePKPc	44	58.50	0.3	
		PP	47	15.50		
		iSKP	48	19.80		
GOL	132.50	22 ePKP	44	55.80	-3.3X	
		iPP	47	20.70		
		iSKP	48	21.40		
GLA	133.21	36 ePKP	45	02.00	1.6	
ANMO	136.11	27 ePKP	45	05.00	-1.0	
		PP	47	41.00		
		iSKP	48	33.60		
ALQ	136.11	27 ePKP	45	05.00	-1.0	
	Z 20s	0.53um			5.3Msz	
SOB1	136.79	261 (PKP)	45	08.00	0.4	
FVM	138.04	8 ePKPc	45	10.30	1.0	
BLA	139.08	356 ePKP	45	03.80	-7.5X	
JSC	142.06	356 ePKP	45	10.80	-5.8X	
BAO	142.61	249 e(PKP)	45	14.00	-4.2X	
ITB	144.47	231 e(PKP)	45	20.00	-1.0	
CHCH	147.50	201 ePKP	45	27.50	1.7	
PCH	147.73	201 ePKP	45	28.50	2.2X	
LNV	147.74	200 ePKP	45	29.50	3.4X	
TACH	147.85	201 ePKP	45	28.50	2.1X	
PEL	148.22	202 iPKPc	45	30.00	3.0X	
	0.5s	14.08nm				
LCCH	148.23	200 ePKP	45	29.50	2.6X	
ROCH	148.49	201 ePKP	45	31.50	3.8X	
JACH	148.60	202 ePKP	45	31.00	3.3X	
DEG	149.74	312 ePKP	45	33.00	3.3X	
BPA	149.85	314 ePKP	45	32.00	2.1	
PAG	150.37	312 ePKP	45	36.00	5.3X	
BBL	150.54	311 ePKP	45	36.00	5.1X	
MRX	151.23	35 (PKP)	45	40.00	8.2X	
GRW	152.67	306 ePKP	45	47.80	13.6X	
PPM	153.16	32 (PKP)	45	37.00	1.7	
IIT	153.36	31 (PKP)	45	44.50	9.2X	
IISM	153.86	30 (PKP)	45	45.00	9.4X	
SIV	154.34	240 ePKP	45	37.00	0.6	

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                    i      45 44.20
CNCB  159.57 230 PKP    45 39.00  -4.5X
                    i      46 24.00
LPB   159.83 230 (PKP)  45 37.00  -6.6X
      Z  22s      1.11um          5.7Msz
                    i      46 02.20
                    LR     42 54.00
ZOBO  160.01 231 PKP    45 45.00   1.0
                    LR     41 40.00
      S.D. = 0.9  on 402 of 439 obs.
-----------------------------------------
   JUL  23, 1991  13h 30m 01.62± 0.56s
   39.874 N ± 4.8km   23.361 E ± 3.6km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                          (365)
      MD 3.3 (ATH).

PAIG     0.25  78 iPd    30 07.40   0.5
                    eS     30 10.84
OUR      0.66  46 ePd    30 15.00   0.2
                    eS     30 23.60
LIT      0.71 289 ePc    30 15.80   0.2
                    eS     30 24.88
THE      0.82 338 iPd    30 17.56   0.2
SOH      0.95 360 ePc    30 20.08   0.4
                    eS     30 32.52
AGG      1.17 224 ePd    30 22.80  -0.6
                    eS     30 38.28
SRS      1.25   8 ePc    30 24.92   0.0
                    eS     30 42.56
KZN      1.29 290 iPbd   30 25.20  -0.5
GRG      1.31 326 ePd    30 25.80   0.0
                    eS     30 43.32
KNT      1.33 345 ePd    30 26.72   0.5
                    eS     30 45.16
VAY      1.57 338 iPn    30 28.80  -0.7
                    iSn    30 50.70
MMB      1.74   9 iPd    30 32.00   0.0
KKB      2.00 354 iPd    30 36.00   0.1
RZN      2.08  29 iPd    30 37.00  -0.2
RDO      2.09  52 ePn    30 36.50  -0.6
SKO      2.55 326 iPn    30 43.00  -0.7
VTS      2.72 358 iP     30 46.00  -0.3
KEK      2.75 268 ePn    30 48.00   1.4
PVL      3.65  23 eP     30 57.00  -2.3X
      S.D. = 0.6  on  18 of  19 obs.
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?  JUL  23, 1991  13h 33m 39.05± 6.87s
   40.923 N ±52.4km   29.578 E ±15.1km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 2.7 (ISK).

HRT      0.12 146 iPg    33 41.50  -0.6
GBZT     0.17 217 ePg    33 43.00   0.1
                    iSg    33 45.50
YLV      0.39 204 iPg    33 47.00  -0.1
                    eSg    33 52.00
EYL      0.57 129 ePg    33 51.00   0.4
IZI      0.59 188 iPg    33 51.10   0.0
      S.D. = 0.5  on   5 of   5 obs.
-----------------------------------------
&  JUL  23, 1991  13h 55m 26.07s
   63.002 N          150.464 W
   DEPTH = 106.3km
 CENTRAL ALASKA                      (  1)
      <AEIC>.

HUR      0.38  93 iPc    55 41.81  -0.2
                    S      55 53.56
TRF      0.46  10 iPc    55 42.40  -0.3
                    eS     55 54.74
KTH      0.59 340 iPc    55 43.24  -0.3
                    eS     55 55.86
CUT      0.61 171 iPc    55 43.51   0.0
RND      0.84  60 iPc    55 45.25  -0.4
                    eS     55 59.53
MCK      1.01  43 eP     55 46.87  -0.5
                    S      56 02.13
SKT      1.14 206 iPd    55 48.33  -0.5
                    eS     56 06.08
BWN      1.26  20 ePd    55 49.84  -0.3
PWA      1.38 168 iPc    55 51.80   0.2
GHO      1.43 149 eP     55 52.02  -0.2
                    eS     56 12.40
PLRM     1.55 156 eP     55 52.94  -0.6
SUA      1.55 185 iPc    55 53.72  -0.1
                    eS     56 15.00
NEA      1.70  21 iPd    55 54.37  -1.1
                    eS     56 15.30
NCG      1.79 207 eP     55 56.23  -0.6
PMS      1.81 166 ePc    55 56.56  -0.5
WRH      1.81  35 iPd    55 55.87  -1.1
CGLM     1.85 204 eP     55 57.62   0.1
KNK      1.85 149 ePc    55 56.90  -0.6
BGL      1.97 208 eP     55 59.03   0.0
SPU      1.97 203 eP     55 59.43   0.3
CKL      2.02 207 eP     55 59.02  -0.7
CCB      2.03  34 iPd    55 58.45  -1.3
TOA      2.18 112 eP     56 00.80  -1.0
MDM      2.20  26 iPd    56 00.80  -1.2
FBA      2.24  31 iPd    56 01.38  -1.1
PAX      2.28  89 eP     56 02.64  -0.5
SDG      2.31 100 ePd    56 03.09  -0.4
SLKM     2.51 177 ePc    56 05.23  -0.9
TZL      2.53 110 eP     56 06.41   0.1
RDT      2.61 202 eP     56 07.94   0.5
KLU      2.61 123 ePc    56 05.81  -1.7
GLI      2.66 142 eP     56 06.44  -1.7
VZW      2.68 135 eP     56 08.77   0.3
VLZ      2.70 132 eP     56 08.19  -0.5
RDN      2.73 205 eP     56 06.72  -2.4
RED      2.82 204 eP     56 10.32   0.0
SEW      2.95 170 eP     56 10.76  -1.2
KNIM     2.96 153 eP     56 09.79  -2.4
NNL      3.00 188 eP     56 13.58   0.9
LTI      3.22 156 ePc    56 13.63  -2.1
GLB      3.49 114 ePd    56 17.93  -1.4
PDB      3.69 211 eP     56 21.01  -1.1
CDD      4.37 202 ePd    56 30.74  -0.7
        43 obs. associoted
-----------------------------------------
%  JUL  23, 1991  14h 01m 25.69± 0.75s
   44.374 N ± 8.2km    7.387 E ± 5.6km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                      (545)
      ML 1.7 (GEN).

STV      0.14 199 P      01 29.17   0.1
                    S      01 31.23
ENR      0.15 171 P      01 29.27   0.0
                    S      01 31.82
PZZ      0.24 303 P      01 30.81  -0.1
                    S      01 34.71
ROB      0.36 103 P      01 32.72  -0.3
                    S      01 38.59
FIN      0.61 105 P      01 37.80  -0.3
PCP      0.85  78 P      01 42.56   0.5
      S.D. = 0.4  on   6 of   6 obs.
-----------------------------------------
%  JUL  23, 1991  14h 14m 18.43± 0.84s
   42.499 N ± 7.9km   13.136 E ± 8.7km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                       (381)

AQU      0.25 126 P      14 23.00  -0.7
                    eSg    14 26.50
MNS      0.36 251 P      14 25.90   0.1
                    eSg    14 31.70
ASS      0.67 329 P      14 30.80  -1.0
                    eSg    14 41.00
SDI      0.94 147 P      14 37.00   0.6
ARV      1.01 352 P      14 38.50   1.0
                    eSg    14 54.00
      S.D. = 1.2  on   5 of   5 obs.
-----------------------------------------
*  JUL  23, 1991  14h 53m 47.36± 0.69s
   36.547 N ± 9.0km  140.589 E ±10.5km
   DEPTH = 112.0 ±  8.6 km
   4.6mb (  3 obs.)
 NEAR EAST COAST OF HONSHU, JAPAN(228)

KAKJ     0.48 225 iPd    54 04.50   0.0
                    S      54 15.50
CHJJ     1.38 249 iP+    54 12.90  -0.3
                    S      54 30.90
NIIJ     1.45 299 P      54 13.70  -0.3
                    S      54 32.40
YAMJ     1.68 345 P      54 17.20   0.3
                    eS     54 38.30
MAT      1.92 271 iPc    54 19.70  -0.2
                    eS     54 40.00
MTMJ     2.24 272 P      54 24.20   0.0
IIDJ     2.42 245 P      54 27.00   0.6
                    S      54 55.40
OFUJ     2.67  18 P      54 29.60  -0.1
                    eS     55 00.10
TSRJ     3.87 256 P      54 45.90   0.0
HNR     49.22 154 eP     02 45.00  18.8X
WRA     56.49 187 P      03 19.00  -1.0
        0.4s      2.00nm          4.5mb
WR2     56.50 187 iPd    03 19.70  -0.3
        0.8s      5.70nm          4.6mb
ASPA    60.22 187 eP     03 46.90   1.1
        0.8s      4.80nm          4.6mb
      S.D. = 0.6  on  12 of  13 obs.
-----------------------------------------
?  JUL  23, 1991  16h 04m 36.31±19.73s
   31.768 S ±147.km   71.641 W ±61.5km
   DEPTH =  33.0km  (normal)
 NEAR COAST OF CENTRAL CHILE         (135)

JACH     1.27 136 iPd    04 58.00   0.0
                    iS     05 15.50
PEL      1.59 150 iP     05 02.50  -0.1
                    iS     05 23.90
LCCH     1.70 178 iPd    05 04.50   0.4
                    iS     05 27.00
TACH     1.97 163 iPc    05 08.30   0.3
                    iS     05 33.00
PCH      2.08 153 eP     05 09.50  -0.1
                    iS     05 35.50
LNV      2.19 175 iP     05 10.50  -0.6
CHCH     2.31 159 eP     05 13.00   0.1
                    iS     05 42.20
      S.D. = 0.4  on   7 of   7 obs.
-----------------------------------------
?  JUL  23, 1991  16h 15m 32.86± 1.56s
   67.771 N ±11.5km  162.114 W ±18.5km
   DEPTH =  33.0km  (normal)
 ALASKA                              (676)

ANM      3.48 204 eP     16 26.90   0.9
IMA      3.74 113 eP     16 31.40   1.7
BRW      4.02  25 eP     16 33.10  -0.4
TTA      5.49 149 eP     16 53.60  -0.9
SVW      7.25 154 eP     17 17.80  -1.4
      S.D. = 1.8  on   5 of   5 obs.
-----------------------------------------
?  JUL  23, 1991  16h 21m 32.35± 6.09s
   40.319 N ±37.2km   29.447 E ±25.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 2.8 (ISK).

IZI      0.03  47 iPg    21 34.10  -0.3
                    eSg    21 37.60
YLV      0.25 347 iPg    21 37.80   0.0
                    iSg    21 41.80
HRT      0.53  18 iPg    21 43.00  -0.1
EYL      0.60  65 ePn    21 44.50   0.0
      S.D. = 0.3  on   4 of   4 obs.
-----------------------------------------
%  JUL  23, 1991  16h 49m 47.53± 0.87s
   39.391 N ± 8.3km   27.574 E ± 9.1km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 2.6 (ISK).

EDC      0.98  13 ePg    50 07.00   0.9
IZM      1.02 194 ePn    50 07.20   0.3
EZN      1.06 295 ePg    50 07.00  -0.4
IZI      1.74  57 ePn    50 17.30  -0.7
YLV      1.81  49 ePn    50 19.10   0.0
      S.D. = 0.9  on   5 of   5 obs.
-----------------------------------------
   JUL  23, 1991  16h 51m 54.05± 0.28s
   30.269 N ± 5.2km   94.820 E ± 3.8km
   DEPTH =  33.0km  (normal)
   4.7mb ( 11 obs.)
 TIBET                               (306)

LSA      3.23 261 Pnd    52 45.60   1.5
GUN      8.17 255 P      53 52.06  -1.5
PKI      8.67 254 P      53 59.42  -1.1
KMI      8.69 124 eP     54 00.00  -0.7
KKN      8.71 256 P      53 59.90  -1.0
DMN      8.91 255 P      54 03.72  -0.1
GKN      9.19 258 P      54 06.16  -1.3
LZH      9.53  50 eP     54 10.50  -1.7
        1.5s     40.00nm          5.4mb
```

23d 16h

```
      Z  12s      0.53um          5.2Msz
                   pP     54 17.00
GTA     10.00  23 eP     54 15.00  -3.6X
      Z  10s      0.80um
                   pP     54 20.60
                   eS     56 09.60
GYA     11.10 107 iPc    54 32.00  -1.6
        1.2s    400.00nm          6.5mb X
CHG     12.00 161 eP     54 46.10   0.3
CHTO    12.00 161 eP     54 46.30   0.5
        1.1s      8.83nm          4.8mb
XAN     12.53  69 P      54 52.70  -0.1
WMO     14.66 339 P      55 18.50  -2.4
      Z  10s      0.40um
                   PP     55 26.50
                   eS     57 55.50
BTO     16.09  46 eP     55 42.00   2.6X
                   epP    55 51.00
TIY     16.37  58 eP     55 45.00   2.0
      Z  12s      0.96um
      E  12s      0.40um
HHC     17.21  48 eP     55 51.90  -1.6
HYB     19.59 233 eP     56 23.00   0.5
BJI     19.96  55 eP     56 27.00   0.9
      Z  10s      0.64um
                   eS     00 02.00
NJ2     20.64  79 eP     56 34.00   0.7
IRK     23.07  15 eP     56 58.70   1.2
                   e      57 19.50
OUE     24.06 277 eP     57 07.10  -0.4
KOD     25.67 223 eP     57 27.00   4.0X
CN2     27.75  52 Pd     57 41.60   0.0
      Z  12s      0.20um          3.9MszX
      N  10s      0.20um
      E  10s      0.20um
                   epP    57 54.50  51kmX
MAIO    30.02 291 iPc    58 03.20   1.0
YAK     39.02  25 eP     59 18.50  -0.4
OBN     47.76 319 eP     00 30.00   0.4
        1.5s    *******nm          8.2mb X
MLR     54.85 307 ePc    01 24.00   0.6
KRA     58.07 313 eP     01 46.90   0.8
SKO     58.76 303 iP     01 50.50  -0.6
KSP     60.20 314 eP     02 01.00   0.1
NB2     60.99 326 P      02 05.10  -1.1
        0.8s      4.60nm          4.7mb
PRU     61.49 314 P      02 10.00   0.3
BRG     61.64 315 eP     02 10.60  -0.1
KHC     62.31 313 P      02 16.00   0.7
                   e      02 30.00
WRA     62.76 138 P      02 18.00  -0.5
        0.7s      3.20nm          4.6mb
WR2     62.77 138 iPc    02 18.80   0.2
        0.8s      4.30nm          4.6mb
CZI     63.41 302 P      02 21.80  -0.7
GRF     63.64 314 eP     02 25.00   1.0
ASPA    65.44 141 eP     02 36.30   0.3
        0.7s      4.30nm          4.7mb
LPG     67.85 311 eP     02 52.00   0.5
        0.8s      8.75nm          4.9mb
LPL     67.86 311 eP     02 52.00   0.6
        1.2s     19.35nm          5.1mb
SSF     69.36 313 eP     03 02.20   1.8
        1.0s      7.00nm          4.7mb
TCF     70.49 313 eP     03 09.20   1.9
        1.0s      8.00nm          4.7mb
CAF     71.13 311 eP     03 09.80  -1.5
        1.0s      8.00nm          4.7mb
MBC     71.60   8 eP     03 13.00  -0.5
INK     75.42  17 eP     03 36.00   0.2
LSZ     78.47 245 iPd    03 55.00   1.2
      S.D. = 1.1  on  45 of  48 obs.
-----------------------------------
%  JUL  23, 1991  17h 22m 32.21± 0.43s
   46.507 N ± 6.1km    2.949 E ± 4.9km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                            (538)
      ML 2.9 (LDG).

BGF      0.09 306 Pg     22 34.80   0.0
MAF      0.39 223 Pg     22 40.10  -0.1
                  Sg     22 44.50
AVF      0.40  44 Pg     22 40.30   0.0
                  Sg     22 45.50
TCF      0.56 247 Pg     22 43.20  -0.3
                  Sg     22 49.70
                  Sn     22 54.70
SMF      0.63  77 Pg     22 44.50  -0.4
                  Sn     22 56.60
SSF      0.67  34 Pg     22 45.70   0.1
                  Sg     22 54.70
                  Sn     22 58.00
LBF      0.85  56 Pg     22 48.70   0.0
                  Sg     22 59.30
                  Sn     23 02.00
LOR      0.98  39 Pg     22 51.30   0.4
                  Sg     23 03.90
                  Sn     23 06.00
LSF      1.02 256 Pg     22 51.70   0.3
                  Sg     23 04.80
                  Sn     23 06.10
RJF      1.56 220 Pg     23 01.50   1.4
                  Sn     23 18.40
                  Sg     23 21.20
CAF      1.70 202 Pn     23 01.40  -0.7
                  Pg     23 04.30
                  Sg     23 25.70
MFF      2.14 274 Pn     23 07.70  -0.7
                  Pg     23 11.60
                  Sg     23 38.60
LFF      2.20 225 Pg     23 12.70   3.4X
                  Sg     23 41.20
LPO      2.20 215 Pg     23 13.00   3.6X
                  Sg     23 41.50
      S.D. = 0.6  on  12 of  14 obs.
-----------------------------------
%  JUL  23, 1991  17h 34m 43.15± 2.50s
   37.169 N ±17.4km   15.286 E ±14.9km
   DEPTH =  10.0km  (geophysicist)
 SICILY                            (398)

MEU      0.29 257 P      34 49.50   0.2
                  eSg    34 52.40
MNO      0.89 328 P      35 00.60   0.2
                  eSg    35 09.10
ATN      1.00   8 P      35 02.70   0.6
                  eSg    35 18.30
GIB      1.29 310 P      35 06.70  -0.5
CZI      2.15  18 P      35 19.00  -0.5
      S.D. = 0.7  on   5 of   5 obs.
-----------------------------------
%  JUL  23, 1991  17h 40m 14.35± 0.46s
   46.523 N ± 7.0km    2.949 E ± 5.1km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                            (538)
      ML 2.9 (LDG).

BGF      0.08 296 Pg     40 16.90   0.1
AVF      0.39  46 Pg     40 22.30   0.0
                  Sg     40 27.30
MAF      0.40 221 Pg     40 22.10  -0.5
                  Sg     40 26.50
TCF      0.56 246 Pg     40 25.30  -0.5
                  Sg     40 31.70
                  Sn     40 36.70
SMF      0.63  78 Pg     40 26.50  -0.5
                  Sg     40 34.40
                  Sn     40 38.70
SSF      0.66  35 Pg     40 27.40  -0.1
                  Sg     40 36.50
                  Sn     40 39.90
LBF      0.84  56 Pg     40 30.60  -0.1
                  Sg     40 41.70
                  Sn     40 44.30
LOR      0.97  40 Pg     40 33.20   0.4
                  Sg     40 46.10
                  Sn     40 48.30
LSF      1.02 255 Pg     40 33.70   0.1
                  Sg     40 46.90
RJF      1.58 220 Pg     40 43.50   1.1
                  Sn     41 00.70
                  Sg     41 03.80
MFF      2.14 273 Pn     40 50.30  -0.2
                  Pg     40 54.20
                  Sg     41 20.60
LFF      2.21 225 Pg     40 56.00   4.4X
                  Sg     41 23.30
LPO      2.22 215 Pg     40 56.20   4.5X
                  Sg     41 23.20
      S.D. = 0.5  on  11 of  13 obs.
-----------------------------------
*  JUL  23, 1991  17h 41m 45.85± 0.43s
   42.239 S ± 8.9km   42.382 E ±11.4km
   DEPTH =  10.0km  (geophysicist)
      4.6mb ( 11 obs.)  4.5Msz (   1 obs.)
 PRINCE EDWARD ISLANDS REGION      (431)

CRZF     7.98 125 eP     43 39.00  -5.6X
                  eS     45 02.00
HVD     17.84 305 iPd    45 55.40  -0.4
        0.6s     40.00nm          4.7mb
SEK     18.34 314 iPd    46 05.80   3.7X
        0.8s     26.12nm          4.4mb
FRS     18.56 307 iPd    46 05.20   0.7
        1.0s     60.00nm          4.7mb
PRY     19.55 317 eP     46 17.00   0.2
        1.0s     25.00nm          4.5mb
SLR     20.14 320 iPc    46 22.00  -1.1
        1.5s     97.22nm          4.9mb
CIR     23.04 333 eP     46 56.50   4.3X
BUL     24.91 328 iPc    47 09.90  -0.6
PTZ     29.48 338 iP     48 00.80   8.5X
LSZ     29.52 331 iP     47 53.00   0.3
KMZ     32.07 329 iP     48 16.00   0.8
NVL     32.45 198 Pc     48 18.50   0.6
                  e      48 24.00
                  e      48 37.00
                  e      49 18.00
SPA     47.95 180 iPd    50 25.90  -0.4
        1.0s     25.00nm          5.3mb
                  i      50 40.00
SBA     55.55 168 P      51 24.20   1.2
AIA     58.81 208 eP     51 44.70  -1.5
LKO     67.66 308 P      52 46.02   0.7
        0.9s     15.00nm          5.2mb
STK     75.47 120 eP     53 31.90   0.0
        0.7s      1.10nm          4.0mb
ASPA    75.57 109 iPd    53 37.80   5.2X
        1.3s      6.00nm          4.5mb
WRA     78.28 106 P      53 47.00  -0.7
        0.8s      2.40nm          4.3mb
WR2     78.29 106 iPc    53 47.90   0.2
        0.6s      1.90nm          4.3mb
                  i      53 53.60
CNCB    93.15 244 P      55 12.00   9.7X
ZOBO    93.63 244 P      55 09.00   4.5X
      Z  22s      0.17um          4.5Msz
                  LR     26 44.00
MBC    144.99 352 ePKP   01 23.50   0.0
        1.0s     24.00nm
MEO    148.77 269 e(PKP)01 37.00   6.1X
INK    153.78 357 ePKP   01 51.00  13.9X
      S.D. = 0.8  on  16 of  25 obs.
-----------------------------------
   JUL  23, 1991  17h 45m 44.94± 0.96s
   34.772 N ± 4.8km   26.095 E ± 3.2km
   DEPTH =  24.9 ±  7.5 km
   4.5mb ( 42 obs.)  3.6Msz (   5 obs.)
 CRETE                             (370)
      ML 4.5 (ATH).

NPS      0.63 321 iPgc    45 56.00  -1.3
YER      2.95  36 iPn     46 31.50   0.2
VLI      3.22 308 eP      46 37.00   1.9
ELL      3.67  56 iPn     46 43.00   1.3
ATH      3.73 330 iPbd    46 45.20   3.0X
IZM      3.74  14 ePn     46 43.40   0.9
PRK      4.47   2 ePn     46 51.20  -1.6
KHL      4.49  37 ePn     46 52.90  -0.3
EZN      5.05   2 ePn     47 02.90   2.0
PPCY     5.14  87 eP      47 02.50   0.2
AGG      5.21 326 ePd     47 05.22   2.0
                  iS     47 54.74
ALT      5.35  36 ePn     47 05.20  -0.1
PAIG     5.49 340 ePc     47 07.38   0.1
VLS      5.59 309 ePn     47 10.00   1.4
OUR      5.80 344 ePd     47 11.86   0.3
CSS      5.95  86 eP      47 11.50  -2.3
                  eS     48 21.00
LIT      6.04 333 ePc     47 15.58   0.6
ALN      6.11 360 ePd     47 17.14   1.1
THE      6.35 338 ePd     47 20.58   1.2
RDO      6.38 356 ePn     47 20.10   0.4
SOH      6.42 341 ePd     47 21.10   0.8
GPA      6.44  30 ePn     47 21.20   0.5
KZN      6.50 329 eP      47 21.10  -0.5
HLW      6.61 136 eP      47 23.00   0.0
                  eS     48 39.50
IGT      6.61 318 iPc     47 22.58  -0.5
EYL      6.62  28 eP      47 23.00  -0.3
SRS      6.64 343 ePc     47 23.70   0.3
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GRG      6.83 336 ePd   47 26.54    0.4
KNT      6.86 339 ePc   47 27.66    1.1
KDZ      6.89 356 iPd   47 26.00   -0.9
RZN      6.99 351 iP    47 29.00    0.5
KEK      7.04 316 ePn   47 27.00   -2.0
MMB      7.06 345 iPc   47 30.00    0.7
FNA      7.07 329 ePc   47 30.78    1.3
VAY      7.10 338 iPn   47 30.60    0.7
DIM      7.28 357 eP    47 34.00    1.6
PLD      7.40 352 iP    47 36.00    1.9
KKB      7.47 342 iP    47 35.00    0.0
ZNT      7.88 106 eP    47 39.40   -1.4
                  eS    49 03.00
SKO      8.06 334 iPn   47 41.00   -2.4
       1.2s     79.00nm          5.8mb X
     E  10s      1.09um
                  i     47 46.00
                  iSn   49 20.00
                  i     49 33.00
                  iSb   49 37.00
VTS      8.13 345 iPc   47 45.00    0.6
DSI      8.41 110 eP    47 47.00   -1.2
PVL      8.45 356 iPd   47 48.00   -0.7
LCI      8.52 313 P     47 46.20   -3.5
                  eSn   49 18.20
SOI      8.74 295 P     47 52.30   -0.4
                  eSn   49 28.00
MBH      8.95 121 eP    47 55.00   -0.8
ROI      8.98 305 P     47 54.50   -1.7
CZI      9.12 302 P     47 55.90   -2.0
ATN      9.21 295 P     47 58.40   -0.8
                  eSn   49 37.60
CSI      9.27 305 P     48 01.60    1.5
BRT      9.30 314 P     47 57.50   -3.0
MEU      9.35 288 P     48 00.90   -0.3
                  eSn   49 44.00
MMN      9.53 305 P     48 02.50   -1.1
MNO      9.72 292 P     48 07.10    0.6
MGR      9.94 306 P     48 07.00   -2.3
GIB     10.25 292 P     48 14.10    0.5
CMP     10.51 356 eP    48 18.00    0.8
BEO     10.93 338 eP    48 19.00   -3.8X
VRI     11.10   2 eP    48 26.50    1.4
HVAR    11.25 321 i(Pn) 48 25.90   -1.3
SDI     11.87 309 P     48 36.00    0.3
MNS     12.95 310 P     48 47.00   -3.0X
ASS     13.33 312 P     48 54.00   -1.1
ARV     13.41 314 P     48 54.50   -1.6
PTJ     13.53 328 eP    48 52.00   -5.7X
RSM     13.95 315 P     49 03.00   -0.1
CRE     14.07 313 P     49 03.50   -1.4
SRO     14.27 338 eP    49 14.30    7.0X
SFI     14.30 314 P     49 08.50    0.8
PII     14.99 311 P     49 17.50    0.7
ZST     14.99 336 eP    49 15.10   -1.7
                  e     18 52.80
SPC     15.04 345 eP    49 19.60    2.0
                  e     18 50.60
BDI     15.13 312 P     49 19.50    0.8
MME     15.14 313 P     49 19.50    0.5
PGF     15.43 305 eP    49 27.10    4.4X
       1.0s     34.00nm          4.5mb
FVI     15.51 324 P     49 24.00    0.5
KRA     15.93 345 eP    49 28.50   -0.4
                  e     49 31.50
SAL     16.05 317 P     49 31.00    0.5
BOB     16.20 313 P     49 34.00    1.5
WTTA    16.54 323 iPc   49 37.80    0.9
       1.3s     50.50nm          4.5mb
                  i     49 39.20
PCP     16.64 311 P     49 38.21    0.2
FIN     16.69 310 P     49 39.75    1.1
IMI     16.75 308 P     49 41.08    1.6
ROB     16.94 310 P     49 42.21    0.4
SBF     17.03 308 eP    49 44.60    1.7
       1.0s     40.00nm          4.5mb
KHC     17.07 331 P     49 42.50   -0.9
       1.2s      8.00nm          3.7mb
                  e     50 42.50
                  S     52 56.00
ENR     17.20 309 P     49 46.62    1.5
STV     17.27 309 P     49 47.85    1.9
PRU     17.40 334 P     49 45.40   -2.1
FRF     17.42 306 eP    49 50.00    2.2
       1.4s     52.30nm          4.5mb
LMR     17.42 305 eP    49 48.70    0.9
       1.0s     10.00nm          3.9mb
PZZ     17.53 309 P     49 49.08   -0.2
ORX     17.54 314 P     49 49.08   -0.3
LRG     17.57 305 eP    49 50.80    1.2
       1.4s     61.00nm          4.5mb
KSP     17.57 339 eP    49 47.80   -1.8
RSP     17.74 311 P     49 53.80    2.0
RRL     17.92 310 P     49 54.21    0.0
BNI     18.05 310 P     49 57.50    1.8
CDR     18.05 306 ePd   49 56.20    0.6
LPG     18.22 312 eP    49 58.70    0.8
       0.8s     22.85nm          4.4mb
LPL     18.24 312 eP    49 59.00    0.9
       1.0s     21.00nm          4.2mb
BRG     18.35 335 eP    49 58.80   -0.5
       1.1s     10.00nm          3.9mb
MOX     19.05 331 eP    50 07.30   -0.4
       1.0s     12.00nm          4.1mb
CLL     19.05 334 iPd   50 05.60   -2.1
       1.1s     20.00nm          4.3mb
BSF     19.44 318 eP    50 10.10   -2.4
       0.8s     10.75nm          4.2mb
CDF     19.52 320 eP    50 12.30   -1.1
       1.0s     32.00nm          4.6mb
HAU     19.78 318 eP    50 16.00   -0.1
       0.8s     18.80nm          4.4mb
     Z  20s      0.20um
IR7     20.04  80 iPc   50 20.00    0.9
IR1     20.13  81 iPc   50 21.00    1.0
IR4     20.32  82 ePd   50 22.50    0.5
SMF     20.54 312 eP    50 22.00   -2.1
       1.2s     44.65nm          4.7mb
LBF     20.62 313 iPd   50 23.10   -1.8
       1.0s     60.00nm          4.9mb
LOR     20.83 314 iPd   50 25.40   -1.6
       1.0s     42.00nm          4.8mb
     Z  20s      0.20um          3.5Msz
AVF     20.91 312 eP    50 26.40   -1.4
       1.2s     44.65nm          4.8mb
SSF     20.94 313 iPd   50 26.80   -1.4
CAF     20.98 306 eP    50 30.00    1.3
       1.2s     22.30nm          4.5mb
EBR     21.08 294 (P)   50 30.00    0.4
BGF     21.12 311 eP    50 29.00   -1.0
       1.0s     45.00nm          4.9mb
MAF     21.15 310 eP    50 29.40   -1.0
       1.0s     15.00nm          4.4mb
TCF     21.41 310 eP    50 32.00   -0.9
       1.2s     26.80nm          4.5mb
RJF     21.48 307 eP    50 34.40    0.7
       0.8s     18.80nm          4.6mb
     Z  20s      0.10um          3.2Msz
LPO     21.49 305 eP    50 37.20    3.5X
       0.8s     10.75nm          4.3mb
OBN     21.60  17 eP    50 38.50    3.8X
       1.2s    *******nm          7.4mb X
     Z  18s      0.40um          3.9Msz
     N  18s      0.40um
EPF     21.61 300 eP    50 38.70    3.6X
       1.0s      6.00nm          4.0mb
ENN     21.68 324 eP    50 35.50   -0.1
       1.0s     58.00nm          5.0mb
LSF     21.82 309 eP    50 37.20    0.1
       1.3s     57.75nm          4.8mb
LFF     21.87 305 eP    50 39.10    1.5
       1.2s     26.80nm          4.5mb
MFF     23.03 309 eP    50 51.60    2.6X
       1.2s     47.60nm          4.9mb
LDF     23.81 313 eP    50 56.40   -0.2
       1.0s     18.00nm          4.6mb
FLN     24.10 314 eP    50 58.80   -0.6
       1.0s     32.00nm          4.8mb
     Z  20s      0.15um          3.5Msz
LPF     24.14 312 eP    50 59.20   -0.5
       1.0s     24.00nm          4.7mb
GRR     24.17 312 eP    50 59.60   -0.4
       1.0s     28.00nm          4.8mb
NUR     25.77 358 eP    51 15.40    0.3
HFS     26.63 346 eP    51 18.00   -5.1X
       0.8s      2.50nm          3.9mb
MAIO    27.15  77 eP    51 35.00    6.8X
KAF     27.36   0 eP    51 28.60   -1.1
NB2     27.97 345 P     51 31.50   -3.9X
       1.0s      2.00nm          3.8mb
EKA     28.80 325 Pd    51 41.00   -1.8
       1.1s     11.00nm          4.5mb
SOD     32.64   0 eP    52 16.00   -0.6
QUE     34.60  86 eP    52 39.60    5.4X
TIC     40.06 233 Pc    53 21.36    1.4
KIC     40.09 232 Pc    53 21.64    1.4
       0.6s     29.50nm          5.2mb
LIC     40.38 232 Pc    53 23.88    1.3
     Z  20s      0.40um          4.3Msz
WMQ     47.54  60 P     54 21.00    0.8
                  sP    54 39.50
                  S     01 15.50
GBA     50.75 101 P     54 47.00    2.0
       0.6s      3.40nm          4.5mb
SCH     63.96 320 eP    56 17.00   -1.1
HHC     65.21  56 eP    56 25.40   -1.1
MBC     67.11 352 eP    56 36.00   -2.0
       0.6s      3.00nm          4.6mb
INK     76.11 352 eP    57 31.00   -0.7
SOB1    76.85 249 eP    57 39.10    2.3
YKA     78.05 343 eP    57 50.20    7.6X
       0.6s      1.40nm          4.2mb
FFC     80.33 332 eP    57 55.00   -0.1
       0.9s     16.00nm          5.0mb
     S.D. = 1.3  on 137 of 152 obs.
-----------------------------------------
%  JUL  23, 1991  18h 25m 30.91± 0.90s
   16.968 N ±13.2km   94.138 W ± 9.2km
   DEPTH =  30.2 ±  8.8 km
 OAXACA, MEXICO                    ( 60)

PBJ      1.33 247 iP    25 53.00   -0.5
                  iS    26 10.00
SCX      1.46  99 iP    25 55.50    0.1
                  iS    26 13.23
OXX      2.48 273 iP    26 10.49    0.2
                  iS    26 39.06
LVVM     3.52 322 iP    26 24.14   -0.7
                  iS    27 05.81
IISM     3.68 304 iP    26 27.06    0.0
                  iS    27 07.50
IIT      4.46 298 iP    26 39.31    0.8
PPM      4.75 297 iP    26 43.00    0.2
     S.D. = 0.7  on   7 of   7 obs.
-----------------------------------------
   JUL  23, 1991  19h 44m 50.24± 0.32s
   15.679 S ± 6.2km   71.574 W ± 8.9km
   DEPTH =   5.0km  (geophysicist)
   5.0mb ( 10 obs.)  4.7Msz (  2 obs.)
 SOUTHERN PERU                     (117)
       At least 12 people killed, 30
       injured and about 80 missing in
       the Maca-Chivay area. Felt (V)
       at Maca, Yanque, Ichupampa and
       Achoma. Felt (II) at Arequipa.
       Landslides occurred in the
       epicentral area.
       CENTROID, MOMENT TENSOR     (HRV)
       Data Used: GDSN
       L.P.B.: 15S, 26C
       Centraid Location:
       Origin Time        19:44:53.6 0.8
       Lat 15.85S 0.08 Lon  70.88W 0.09
       Dep  24.2 7.1 Half-duration  1.6
       Moment Tensor;   Scale 10**16 Nm
         Mrr=-1.42 0.55  Mtt= 8.02 0.63
         Mff=-6.60 1.04  Mrt= 1.36 0.94
         Mrf= 1.60 0.90  Mtf= 4.96 0.45
        Principal Axes:
         T  Vol=  9.82  Plg= 9  Azm=342
         N       -1.51       77       210
         P       -8.31       10        74
       Best Double Couple:Mo=9.1*10**16
        NP1:Strike=118 Dip=77 Slip=   0
        NP2:        208      90      -167

ARE      0.78 174 iPc   45 05.60   -0.5
                  iS    45 16.60
ZOBO     3.37 101 Pd    45 52.00    6.8X
LPB      3.45 105 P     45 55.10    9.0X
       1.0s    670.00nm
                  S     46 43.00
CNCB     3.63 109 P     45 56.40    7.6X
CCH      5.48 109 (P)   46 11.00   -3.9X
                  i     46 22.50
NNA      6.30 305 iPd   46 27.50    1.3
       1.2s     31.25nm          5.1mb
                  e     47 30.00
PT10     6.35 304 e(P)  46 35.00    8.2X
ANT      8.06 172 iPd   46 48.50   -2.3
SIV     10.11  93 Pd    47 19.20   -0.1
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23d 19h

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JACH    16.95 177 eP     48 55.00    5.1X
PEL     17.41 178 eP     48 56.00    0.4
PSO     17.70 341 eP     49 01.00    1.3
LNV     18.20 180 eP     49 05.00   -0.3
BMG     22.65 356 eP     49 54.00    0.1
BAO     22.71  93 e(P)   49 55.00    0.6
UPA     25.74 342 ePc    50 05.60  -17.9X
        1.0s     36.00nm
                  i      50 29.50
SGS     49.34 350 P      53 43.00    0.5
JSC     50.53 350 P      53 51.00   -0.6
BLA     53.26 351 P      54 13.00    0.8
        1.0s     15.00nm          4.9mb
CVL     53.76 353 P      54 15.00   -0.8
POW     54.78 341 P      54 21.00   -2.4X
TUL     56.20 336 eP     54 31.50   -2.1
        1.2s     56.50nm          5.5mb
      Z  20s      0.38um          4.5Msz
      N  22s      0.61um
      E  22s      0.24um
                   LR    16 53.00
FVM     56.24 342 P      54 31.80   -2.1
ALQ     60.26 327 eP     55 00.00   -2.3
        1.2s     13.67nm          5.0mb
ANMO    60.26 327 P      55 01.00   -1.3
        1.1s     33.23nm          5.4mb
GOL     63.47 331 P      55 23.00   -0.8
        1.2s     16.39nm          5.1mb
GLA     63.68 320 eP     55 26.00    0.9
BAR     64.59 319 eP     55 32.00    1.0
PLM     65.15 319 eP     55 34.00   -0.8
RVR     65.89 319 eP     55 38.00   -1.3
MSU     65.97 326 P      55 39.40   -0.7
GSC     66.40 321 eP     55 44.00    1.3
RSSD    66.48 335 P      55 43.00   -0.2
        1.3s     23.23nm          5.2mb
SBB     66.62 320 eP     55 43.00   -1.1
DAU     66.88 328 P      55 46.00    0.0
CLC     67.22 321 eP     55 48.00    0.1
DUG     67.53 327 P      55 50.00    0.1
ISA     67.66 320 eP     55 51.00    0.3
BW06    67.83 331 P      55 51.00   -0.9
CWC     67.92 321 eP     55 53.00    0.5
TNP     68.50 323 P      55 55.50   -0.6
        1.1s     12.99nm          5.1mb
PRI     69.33 319 eP     56 02.70    1.6
LIC     69.38  77 P      56 01.94    0.3
      Z  20s      0.59um          4.8Msz
KIC     69.69  77 P      56 04.00    0.4
PRS     69.90 319 eP     56 03.00   -1.4
LKO     69.97  74 P      56 03.44   -1.9
        0.9s     6.00nm          4.7mb
CMB     70.36 321 eP     56 08.30    1.0
ORV     72.00 322 eP     56 19.00    1.9
NVL     73.14 160 Pc     56 26.00    2.7
SES     74.36 335 eP     56 29.00   -1.7
PNT     77.39 330 eP     56 50.00    2.2
YKA     84.89 341 eP     57 26.50   -0.6
        1.0s     7.10nm          4.9mb
BUL     93.91 112 eP     58 12.80    1.9
INK     94.64 341 eP     58 13.00    0.0
WR2    136.37 217 ePKP   04 17.00    1.2
        0.7s     4.10nm
WRA    136.39 217 PKP    04 15.00   -0.8
        0.9s     4.40nm
CHJJ   146.05 312 ePKP   04 33.40    0.9
MAT    146.36 314 ePKP   04 33.00    0.0
        1.2s     81.25nm
MTMJ   146.61 314 ePKP   04 35.40    1.9
WMQ    146.87  28 PKP    04 36.50    2.9X
      Z  24s      0.40um          5.1MszX
IIDJ   147.09 312 ePKP   04 37.70    3.5X
GBA    149.96  90 PKPd   04 46.80    7.7X
        0.6s     3.10nm
SNY    150.85 336 ePKP   04 45.30    5.6X
BJI    154.80 346 ePKP   04 55.00    9.7X
GTA    155.18  16 ePKP   04 48.60    2.5X
      Z  26s      0.70um          5.4MszX
      S.D. = 1.3  on  51 of  65 obs.
-----------------------------------------
    JUL  23, 1991  20h 16m 58.66± 0.96s
    51.635 N ± 8.2km    7.680 E ± 7.9km
    DEPTH =  10.0km  (geophysicist)
 GERMANY                            (543)
      ML 2.4 (BNS).

WTS      0.65 304 iPg    17 11.40   -0.2
BNS      0.74 205 eP     17 14.00    0.8
        0.4s    135.00nm
                  iS     17 23.90
KOE      1.21 178 iPc    17 20.90   -0.3
                  iS     17 37.50
ENN      1.41 232 ePn    17 24.50    0.2
        0.5s      8.00nm
                  iSn    17 43.80
TNS      1.50 161 ePn    17 25.80    0.2
                  eSn    17 45.10
ABH      1.76 183 ePn    17 30.17    0.8
RUP      1.98 192 ePn    17 31.58   -1.0
TOD      2.15 160 ePn    17 34.12   -1.0
MOX      2.67 110 ePg    17 43.00    0.5
                  eSg    18 23.00
GRF      2.98 129 ePg    17 55.00    8.2X
                  eSg    18 36.00
BRG      4.01  99 e(P)   18 27.00   25.6X
                  e      19 10.00
KHC      4.53 121 ePg    18 35.00   26.1X
                  eSg    19 21.00
      S.D. = 0.8  on   9 of  12 obs.
-----------------------------------------
*   JUL  23, 1991  20h 23m 12.83± 2.08s
    35.063 N ±15.0km   28.854 E ±25.0km
    DEPTH =  10.0km  (geophysicist)
 EASTERN MEDITERRANEAN SEA          (371)

ELL      1.89  27 iPh    23 46.00    0.5
YER      2.12 348 iPn    23 48.50   -0.3
ZNT      5.87 117 eP     24 42.20    0.2
HRI      5.98 105 eP     24 42.60   -1.0
DSI      6.48 121 eP     24 51.00    0.4
PRNI     6.99 131 eP     24 58.00    0.2
      S.D. = 0.7  on   6 of   6 obs.
-----------------------------------------
%   JUL  23, 1991  21h 07m 33.01± 0.85s
    42.499 N ± 7.6km   13.095 E ± 8.3km
    DEPTH =   5.0km  (geophysicist)
 CENTRAL ITALY                      (381)

AOU      0.27 122 P      07 37.50   -1.0
                  eSg    07 42.00
MNS      0.33 250 P      07 39.50   -0.1
                  eSg    07 46.50
ASS      0.65 331 P      07 45.50   -0.6
                  eSg    07 54.70
SDI      0.96 146 P      07 52.70    1.0
                  eSg    08 05.80
ARV      1.01 354 P      07 53.30    0.8
                  eSg    08 06.50
      S.D. = 1.2  on   5 of   5 obs.
-----------------------------------------
    JUL  23, 1991  21h 16m 32.10± 0.14s
     6.122 S ± 2.6km  130.227 E ± 4.0km
    DEPTH = 108.8km  (  6 depth phases)
    5.6mb ( 42 obs.)
 BANDA SEA                          (280)
      FAULT PLANE SOLUTION: P-Waves
       NP1:Strike=155 Dip=85 Slip= 166
       NP2:        246     76        5
       Principal Axes:
        T                Plg=13  Azm=110
        P                    6      201
      Comment: The focal mechanism is
        well controlled and
        corresponds to strike-slip
        faulting with a small reverse
        component. The preferred fault
        plane is not determined.
      MOMENT TENSOR SOLUTION
      Dep 123            No. of sta:  4
      Moment Tensor;   Scale 10**17 Nm
        Mrr= 0.15       Mtt=-4.80
        Mff= 4.66       Mrt=-0.83
        Mrf= 0.75       Mtf= 4.35
       Principal axes:
        T  Val=  6.38  Plg=  4  Azm=291
        N        0.28     81       178
        P       -6.66      9        22
      Best Double Couple:Mo=6.5*10**17
       NP1:Strike= 66 Dip=81 Slip=  -4
       NP2:        157     86      -171
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 16S, 32C
      Centroid Location:
        Origin Time        21:16:34.6 1.0
        Lat  6.21S 0.07 Lon 130.26E 0.08
        Dep 112.1 2.3 Half-duration  1.9
        Moment Tensor;   Scale 10**17 Nm
          Mrr= 0.66 0.07  Mtt=-1.70 0.09
          Mff= 1.05 0.13  Mrt= 0.10 0.06
          Mrf=-0.18 0.06  Mtf= 0.83 0.08
         Principal Axes:
          T  Val=  1.31  Plg=13  Azm=105
          N        0.63     77       299
          P       -1.94      3       196
        Best Double Couple:Mo=1.6*10**17
         NP1:Strike=241 Dip=79 Slip=   7
         NP2:        150     83       169

KUG      7.70 238 ePd    18 27.00    3.8X
                  eS     19 50.20
KNA      9.68 188 iPd    18 47.80   -2.1
MKS     10.74 274 iPc    19 10.00    5.8X
DAV     13.92 340 eP     19 46.00    0.2
WR2     14.32 164 iPc    19 44.90   -6.1X
        0.7s    656.40nm          6.0mb
YYYY    15.65  91 eP     20 10.70    2.7X
TSM     16.10 310 ePd    20 16.90    3.4X
OIS     16.99 148 iPd    20 22.50   -2.0
                  iS     23 16.00
PMG     17.09 102 eP     20 25.00   -0.7
MAP     17.48 339 ePc    20 31.00    0.5
TRT     17.54 264 ePd    20 34.50    3.3X
        0.6s    104.70nm          5.3mb
ASPA    17.80 169 iPd    20 32.00   -2.5
        0.8s   1423.40nm          6.3mb
      Z  21s      2.10um          4.8Msz
                  iS     23 34.60
PLP     17.95 343 ePd    20 37.00    0.8
KKM     18.48 311 ePc    20 42.50   -0.2
        0.9s    123.90nm          5.2mb
PPR     19.51 324 ePd    20 54.00    0.6
WARB    20.24 189 iPd    21 01.50    0.6
CTAO    20.86 133 iPc    21 08.50    1.3
                  epP    21 20.00   48kmX
                  isP    22 28.00
                  iS     24 50.00
                  iScP   30 07.50
                  iScS   31 47.00
PGP     21.56 335 iPd    21 16.00    1.8
NANU    21.64 219 iPd    21 14.20   -0.7
RAB     21.94  86 iPc    21 18.70    0.8
        1.0s    880.00nm          6.1mb
BAG     24.34 337 eP     21 42.00    0.6
OLP     24.34 148 iPc    21 42.00    0.9
        0.2s    294.00nm          6.4mb
                  eS     26 06.00
GUA     24.37  37 eP     21 41.80    0.2
        0.6s    240.00nm          5.8mb
PJG     24.39  37 eP     21 41.70    0.0
FORR    24.68 184 iPd    21 44.10   -0.2
COOL    26.07 198 iPd    21 57.90    0.7
        0.6s     65.00nm          5.4mb
BAL     27.47 206 iPd    22 09.80   -0.2
        0.6s    136.00nm          5.7mb
STK     27.74 159 iPd    22 12.50    0.1
        0.3s     89.60nm          5.9mb
                  i      22 49.30 180kmX
                  eS     27 32.10
KLB     27.90 203 iPd    22 13.60   -0.2
        0.7s    337.00nm          6.1mb
KGM     28.06 286 ePc    22 17.30    1.9
MUN     28.87 205 iPd    22 22.30   -0.2
        1.0s    120.00nm          5.5mb
                  i      23 04.50 209kmX
CMS     29.16 152 iPd    22 24.40   -0.7
        0.6s     66.00nm          5.5mb
                  i      23 19.00 281kmX
                  i      28 09.00
NWAO    29.29 203 iPd    22 26.20   -0.1
HNR     29.62  98 eP     22 29.00   -0.4
ADE     29.75 166 iPd    22 30.60    0.2
        0.7s    397.26nm          6.2mb
RKG     30.83 202 iPd    22 41.00    1.1
        0.4s     41.00nm          5.5mb
IPM     31.03 289 ePd    22 41.00   -0.9
        0.9s     30.40nm          5.0mb
QIZ     32.06 322 P      22 50.20   -0.6
BWA     32.81 152 iPc    22 59.30    2.2
QZH     32.89 340 P      22 57.50   -0.4
BFD     32.89 162 iPc    22 51.40   -6.4X
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23d 21h

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                 i      23 54.00 322kmX
                 i      29 46.00
CAN   33.81 152 iPc     23 07.10   1.3
LOE   36.59 310 iPc     23 29.40  -0.1
NST   36.84 306 eP      23 32.50   0.9
KHT   37.62 304 iPc     23 39.00   0.8
SSE   38.00 347 P       23 41.50   0.3
      1.0s    74.00nm          5.5mb
    Z  20s     0.50um          4.3Msz
                 sS     30 04.00
DZM   38.40 118 iPc     23 45.00   0.2
BDT   38.61 307 iPc     23 47.00   0.5
      0.7s    90.30nm          5.7mb
NJ2   39.48 345 Pc      23 54.50   1.1
      1 0s   100.00nm          5.6mb
                 pP     24 19.00 106km
                 ScP    29 36.00
                 S      29 44.00
                 sS     30 28.00
WHN   39.50 338 Pd      23 55.00   1.3
      1.0s    60.00nm          5.4mb
CHG   39.56 309 iPc     23 54.70   0.4
      0.8s   112.13nm          5.7mb
                 e      28 55.30
TAU   39.63 160 eP      23 56.00   1.4
GYA   39.63 326 iPc     23 54.80  -0.2
      1.2s    30.00nm          5.0mb
WKYJ  40.44   7 P       24 01.70   0.3
SHK   40.50   3 ePd     24 02.50   0.7
KMI   40.98 320 Pc      24 08.00   1.8
      1.0s    90.00nm          5.5mb
                 pP     24 31.50 100km
YONJ  41.20   4 P       24 08.20   0.6
TSRJ  41.79   7 iPd     24 12.70   0.3
IIDJ  42.01   9 P       24 13.80  -0.4
CHJJ  42.75  10 iPd     24 18.90  -1.3
MTMJ  43.07   9 iPd     24 22.40  -0.5
MAT   43.09   9 iPd     24 21.80  -1.2
                 eS     30 31.00
KAKJ  43.12  12 P       24 21.90  -1.3
NIIJ  43.91  10 P       24 28.60  -1.0
CD2   44.69 327 eP      24 35.90  -0.1
XAN   44.74 335 P       24 35.50  -0.9
YAMJ  45.00  11 P       24 38.90   0.6
DL2   45.50 351 eP      24 42.00  -0.2
OFUJ  46.21  12 P       24 47.80   0.0
BJI   47.73 345 eP      24 59.50  -0.2
      1.0s    54.00nm          5.3mb
SNY   48.10 353 Pd      25 02.40  -0.2
      1.2s    40.00nm          5.1mb
    Z  20s     0.50um          4.5Msz
LZH   48.74 331 iPd     25 08.20   0.3
      1.5s    54.00nm          5.2mb
    Z  20s     0.49um          4.5Msz
                 pP     25 34.50 112km
                 sP     25 45.50
                 sS     32 45.50
MRRJ  49.31  11 eP      25 11.60  -0.3
HHC   49.79 341 P       25 16.20   0.5
CN2   49.88 355 Pd      25 15.20  -1.0
      0.8s    20.00nm          5.1mb
    Z  20s     0.70um          4.7Msz
                 epP    25 42.00 114km
                 esP    25 54.00
                 PcP    26 35.00
                 ePP    27 12.00
                 ScP    30 18.00
                 eS     32 14.00
                 esS    32 58.00
                 ScS    34 52.00
                 eSS    35 44.00
BTQ   50.07 340 eP      25 18.00   0.1
KUSJ  50.72  14 P       25 21.20  -1.4
ASAJ  51.25  11 P       25 26.40  -0.2
LSA   51.73 316 P       25 28.90  -2.2
GTA   53.32 331 Pd      25 42.60   0.4
      1.0s    30.00nm          5.2mb
    Z  14s     0.30um          4.5MszX
                 pP     26 08.00 105km
                 sP     26 20.60
MCQ   53.51 160 iPc     25 45.00   1.7
      0.5s    38.00nm          5.6mb
GUN   54.55 311 P       25 51.44  -0.4
      0.6s   419.00nm          6.6mb
PKI   54.73 310 P       25 52.38  -0.8
KKN   54.94 310 P       25 54.02  -0.5
      0.7s   231.00nm          6.3mb
DMN   54.98 310 P       25 54.44  -0.4
      0.6s   176.00nm          6.2mb
KOD   55.00 287 eP      25 52.00  -3.2X
GKN   55.54 310 P       25 58.32  -0.4
GBA   55.95 291 Pc      25 59.00  -2.6X
      1.0s    43.70nm          5.4mb
HYB   56.14 296 iPc     26 01.40  -1.6
      1.0s   110.00nm          5.8mb
CSY   61.61 189 iPc     26 39.60  -0.4
      0.5s    30.90nm          5.6mb
NDI   61.63 307 iPc     26 39.30  -1.5
      0.6s    60.00nm          5.8mb
IRK   62.22 342 eP      26 43.60  -0.7
                 e      27 12.20 117km
WMQ   62.79 327 P       26 48.50   0.2
      1.0s    70.00nm          5.6mb
                 ScP    31 21.00
YAK   67.94 360 iPd     27 20.30  -0.5
                 ipP    27 57.00 152kmX
                 ePP    30 09.00
                 iS     36 08.00
                 eSKS   36 56.00
                 eScS   37 04.00
QUE   70.48 305 eP      27 37.40   0.1
                 e      28 10.80 136kmX
                 eS     36 31.10
MAIO  78.31 309 iPc     28 22.00  -0.1
      0.9s    18.33nm          4.9mb
DHR   83.86 297 iPc     28 51.00  -0.2
IR4   84.84 306 iPc     28 58.00   1.8
IR1   85.05 306 iPc     28 58.50   1.3
IR7   85.16 307 iPc     28 59.00   1.2
SVW   87.75  28 iP      29 11.40   1.7
      1.0s    85.00nm          5.7mb
TAB   88.95 308 eP      29 17.00   0.9
NPA   89.37 255 iPd     29 22.00   3.7X
SLKM  90.16  29 eP      29 21.50   0.4
OBN   97.06 325 eP      29 52.50  -0.2
      0.8s   *******nm          8.6mb X
    Z  20s     0.20um          4.6Msz
                 e      38 08.00
INK   97.97  22 eP      29 56.00  -0.6
                 pP     30 35.00 153kmX
MBC  100.71  13 ePdiff30 08.20  -0.6
      0.6s     8.00nm          5.5mb
KAF  101.89 332 iPdiff30 13.20  -1.1
      0.7s     6.80nm          5.5mb
UPP  106.52 331 iPKP    34 54.40   9.0X
YKA  106.87  26 ePKP    34 45.40  -0.6
      0.6s     2.00nm
HFS  108.30 332 ePdiff30 41.40  -1.5
      0.8s     3.60nm          5.6mb
HFS  108.30 332 ePKP    34 47.40  -1.4
      0.4s     0.40nm
NB2  109.10 333 Pdiff   30 45.40  -1.2
      0.8s     2.20nm
CLL  111.59 323 ePKP    34 55.00  -0.3
KHC  111.89 321 PKP     34 56.00   0.0
                 e      35 47.00
                 i      36 03.50
WTTA 113.68 319 iPKPd   34 59.60  -0.1
      0.6s    12.00nm
                 i      35 13.70
                 i      36 13.20
OGA  114.20 319 ePKP    35 01.00   0.2
BSF  116.58 321 ePKP    35 04.80  -0.3
      0.6s     4.50nm
HAU  116.79 321 ePKP    35 05.00  -0.4
    Z  22s     0.17um          4.6Msz
PGF  116.89 315 ePKP    35 05.40  -0.5
      0.8s     5.35nm
LPG  117.46 319 ePKP    35 07.00  -0.1
      0.7s     6.05nm
LPL  117.46 319 ePKP    35 06.90  -0.2
      0.7s     8.25nm
SBF  117.56 317 ePKP    35 07.00  -0.1
      0.8s    13.45nm
FRF  118.20 317 ePKP    35 08.10  -0.1
      0.8s     5.35nm
LRG  118.43 317 ePKP    35 08.60   0.0
      0.8s     8.05nm
    Z  22s     0.08um          4.3Msz
LOR  118.63 321 ePKP    35 08.80  -0.1
      0.8s     4.70nm
    Z  20s     0.10um          4.4Msz
LBF  118.67 321 ePKP    35 09.00  -0.1
      0.6s     3.60nm
SSF  118.93 321 ePKP    35 09.40  -0.1
      0.8s     8.05nm
AVF  119.14 321 ePKP    35 10.60   0.7
      0.8s     4.70nm
BGF  119.55 321 ePKP    35 10.40  -0.3
      0.7s    16.00nm
MAF  119.87 321 ePKP    35 11.30   0.0
      0.7s     3.30nm
TCF  120.07 321 ePKP    35 11.60  -0.1
      0.8s     7.40nm
LSF  120.51 321 ePKP    35 12.30  -0.2
      0.6s     3.15nm
FLN  120.57 324 ePKP    35 12.30  -0.2
      0.5s     2.90nm
    Z  20s     0.13um          4.6Msz
ALQ  120.60  53 ePKP    35 13.80   0.5
      1.0s     5.75nm
CAF  120.73 319 ePKP    35 13.20   0.2
      0.6s     3.60nm
GRR  120.97 324 ePKP    35 13.00  -0.3
LPF  121.25 324 ePKP    35 14.00   0.2
      0.6s     9.00nm
MFF  121.39 322 ePKP    35 14.20   0.0
      0.6s    10.80nm
LPO  121.40 320 ePKP    35 14.60   0.3
      0.6s     3.60nm
LFF  121.58 320 ePKP    35 15.40   0.8
      0.6s     4.50nm
EPF  122.66 318 ePKP    35 16.90   0.1
      0.6s     2.25nm
KIC  135.25 273 (PKP)   35 41.08  -0.6
LIC  135.52 273 (PKP)   35 41.56  -0.6
LKO  136.12 277 PKP     35 29.06 -14.3X
NNA  147.62 124 iPKP    36 04.80   1.3
ITB7 148.65 172 PKPd    36 10.30   5.5X
ARE  148.93 137 iPKP    36 12.00   6.2X
ITB  148.97 172 PKPd    36 11.00   5.7X
ITB1 149.09 172 PKPc    36 11.60   6.2X
VAO  150.93 185 ePKP    36 15.30   6.9X
CNCB 150.96 142 PKP     36 11.00   1.8X
LPB  151.10 141 PKP     36 17.20   8.0X
ZOBO 151.28 141 iPKPc   36 11.00   1.3
    Z  24s     0.11um          4.6MszX
                 i      36 17.20
                 eLR    31 52.00
SIV  155.35 153 iPKPd   36 16.20   1.6
                 i      36 41.80
      S.D. = 0.9  on 136 of 155 obs.
-----------------------------------------
   JUL  23, 1991  21h 16m 43.39± 0.45s
   24.766 S ± 4.1km  179.592 W ± 4.9km
   DEPTH = 467.3 ±  5.5 km
   5.0mb ( 22 obs.)
 SOUTH OF FIJI ISLANDS              (171)

SVA    6.86 344 iPc     18 28.30   0.1
VUN    6.97 345 iPc     18 28.40  -0.9
OVA    7.20 348 iP      18 32.20   0.3
KRO    7.48 353 iPc     18 34.50  -0.3
NDF    7.50 338 eP      18 34.40  -0.6
SGE    7.51 342 ePc     18 35.40   0.2
TVI    7.81 357 eP      18 38.00  -0.4
MBU    7.91 348 eP      18 40.20   0.7
NDE    8.20 353 eP      18 42.80   0.1
UDU    8.58 357 eP      18 46.90   0.3
AFI   13.07  36 iPd     19 31.10  -4.0X
                 eS     20 24.00
DZM   13.10 279 iPd     19 37.80   2.4
                 iS     22 01.40
PVC   13.26 299 iPc     19 39.50   2.5
BKM   13.36 300 iPc     19 42.80   4.7X
PUZ   13.39 187 eP      19 37.70  -0.7
                 eS     22 00.00
NOZ   13.96 188 eP      19 42.00  -2.2
PGZ   16.18 191 eP      20 05.10  -1.8
WEL   17.13 195 P       20 17.00   0.7
                 S      23 09.00
TCW   17.18 196 eP      20 15.70  -1.1
THZ   18.06 198 eP      20 25.60   0.1
                 eS     23 26.20
KHZ   18.50 196 eP      20 30.50   0.8
                 eS     23 31.80
RAR   18.58  83 P       20 34.00   3.4X
LTZ   19.18 198 eP      20 36.60   0.2
MOZ   19.93 197 eP      20 43.90   0.3
MMCZ  22.17 202 eP      21 03.20  -1.4
HNR   24.74 305 eP      21 26.00  -2.0
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23d 21h

```
COO     25 87 251 iPc    21 39.00    0.9
        0 7s     53.00nm          5.1mb
                  iPcP   22 49.00
                  e      24 08.10
                  iS     29 47.50
RMO     28.56 260 iPd    22 06.00    4.3X
                  ipP    22 35.70  140kmX
                  eS     27 00.50
AFR     28.68  81 iP     22 02 40   -0.3
        0.8s     60.00nm          5.1mb
CNB     28.75 241 ePd    22 04.00    0.6
                  e      30 18.00
PAE     28.81  82 iP     22 04.20    0.3
        0.8s     40.00nm          4.9mb
PPT     28.85  81 iP     22 05.00    0.7
        0.8s     40.00nm          4.9mb
PPN     28.99  82 iP     22 06.10    0.6
        0.8s     35.00nm          4.9mb
CAN     29.04 241 eP     22 06.80    0.9
TVO     29.07  82 iP     22 06.10   -0.2
        0.8s     75.00nm          5.2mb
BWA     29.33 243 eP     22 07.40   -1.0
PMO     31.28  78 iP     22 24.60   -0.6
        0.8s     40.00nm          4.9mb
VAH     31.42  79 iP     22 25.80   -0.7
        0.8s     25.00nm          4.7mb
TPT     31.53  78 iP     22 27.00   -0.4
        0.8s     65.00nm          5.1mb
RUV     31.66  79 iP     22 27.80   -0.7
        0.8s     35.00nm          4.9mb
TOO     32.30 238 iPc    22 35.40    1.6
        0.7s     47.00nm          5.1mb
                  i      23 11.70
                  eS     30 03.00
TAU     32.63 228 iPd    22 37.60    1.2
DRV     48.86 200 eP     24 47.60    1.3
                  ePP    26 35.60
GUA     51.47 314 eP     25 05.00   -1.3
        0.6s    229.33nm          5.7mb
PJG     51.54 314 eP     25 05.30   -1.4
SBA     53.54 184 iPc    25 23.90    3.4X
CSY     59.50 206 iPc    26 01.10   -0.8
        0.4s     23.60nm          5.0mb
MKS     61.48 278 iPc    26 15.50   -0.2
SPA     65.38 180 iPc    26 42.00    1.8
        1.0s     50.00nm          5.1mb
                  i      28 51.10
TSM     67.22 286 ePd    26 51.00   -1.1
PPR     69.22 292 iPc    27 04.00   -0.2
KKM     69.51 287 iPc    27 05.00   -1.1
        0.7s    119.90nm          5.6mb
ADK     76.36   2 eP     27 43.30   -0.9
        0.4s    598.62nm          6.5mb X
MAW     77.07 200 eP     27 49.40    1.3
        1.1s     39.00nm          4.9mb
KGM     79.14 277 ePc    28 00.30    0.2
        1.0s    193.90nm          5.6mb
OIZ     81.31 296 P      28 10.60   -0 6
PRS     81.90  44 eP     28 14.80    0.8
PRI     82.23  44 eP     28 17.80    2.0
IPM     82.30 279 ePc    28 14.50   -2.0
        1.0s     66.50nm          5.2mb
BKS     82.34  42 e(P)   28 16.90    0.8
LLA     82.35  44 eP     28 17.80    1.6
MHC     82.36  43 eP     28 17.00    0.6
PLM     83.07  49 eP     28 19.00   -1.1
PEC     83.18  48 eP     28 20.80    0.3
SBB     83.20  47 eP     28 20.00   -0.6
ISA     83.35  46 eP     28 22.00    0.7
FRI     83.36  44 eP     28 21.70    0.5
CMB     83.58  43 eP     28 22.80    0.4
ORV     83.84  41 eP     28 24.00    0.4
DL2     83.85 318 eP     28 25.40    1.8
WDC     83.88  40 eP     28 24.30    0.6
CLC     84.02  46 eP     28 25.00    0.4
TPC     84.06  48 eP     28 25.00    0.1
GSC     84.24  47 eP     28 26.00    0.2
GLA     84.30  50 eP     28 27.00    0.9
NVL     84.39 184 ePc    28 27.00    1.1
                  ePcP   28 37.00
                  e      30 40.00
                  eS     38 12.00
                  eScS   38 30.00
                  e      39 56.00
CN2     84.80 323 P      28 27.80   -0.4
TIA     85.09 314 eP     28 30.50    0.7
SNA     85.17 179 eP     28 30.30    0.6
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        1.0s     40.00nm          5.1mb
TNP     85.60  45 iP     28 32.50    0.0
        1.0s     11.25nm          4.5mb
SVW     87.75  11 eP     28 41.40   -0.7
SLKM    88.28  14 iP     28 44.20   -0.3
TTA     89.38  11 eP     28 49.50   -0.1
PMR     89.49  14 eP     28 49.10   -0.9
        1.3s     26.50nm          5.0mb
ANM     89.72   6 eP     28 57.00    6.0X
ALQ     91.19  52 eP     28 59.00    0.3
ANMO    91.20  52 eP     29 00.00    1.3
BW06    93.06  44 eP     29 07.10   -0.1
GOL     94.26  48 eP     29 13.00    0.2
        1.0s      6.50nm          4.7mb
BRW     97.13   7 eP     29 22.70   -2.0
RSSD    97.22  45 eP     29 26.00    0.0
SOB1   127.45 125 (PKP)  34 55.00   -1.4
                  e      36 24.10
BUL    127.60 214 iPKPd 34 55.00   -1.7
KAF    138.78 342 ePKP  35 07.20   -9.1X
NUR    140.55 341 ePKP  35 10.90   -8.7X
NB2    142.99 351 PKP   35 18.80   -5.1X
        1.1s     23.30nm
HFS    143.46 349 ePKP  35 20.20   -4.4X
        0.5s     45.30nm
      Z  19s      0.11um          4.6Msz
                  LR     15 41.00
ASK    144.15 356 ePKP  35 23.50   -2.2
BER    144.24 356 ePKP  35 24.20   -1.7
KONO   144.55 352 ePKP  35 24.80   -1.7
KAS    147.76 309 ePKP  35 36.00    3.6X
BSD    147.85 344 iPKPd 35 34.10    2.1
        0.5s     13.00nm
COP    147.88 347 iPKP  35 34.70    2.7X
        0.7s     10.96nm
HRI    148.08 294 ePKP  35 37.00    3.8X
JVI    148.53 291 ePKP  35 38.00    4.1X
MBH    149.03 287 ePKP  35 39.00    4.2X
CSS    149.81 297 ePKP  35 40.30    4.6X
DMU    150.39   9 ePKP  35 40.70    4.8X
KRA    150.55 334 ePKP  35 36.00   -0.3
                  e      35 41.00
DCN    150.88   9 ePKP  35 41.80    5.2X
DLF    151.03   9 ePKP  35 42.00    5.1X
SPC    151.10 333 iPKP  35 43.70    6.3X
KSP    151.23 339 ePKP  35 37.30    0.0
        0.6s     47.00nm
                  id     35 43.30
                  e      37 40.60
CLL    151.79 343 iPKPd 35 44.70    6.7X
        1.0s     41.00nm
                  e(pP)  37 45.00
BRG    151.92 342 iPKPd 35 44.60    6.3X
        1.0s     30.00nm
                  i      35 56.00
                  e      37 42.00
WTS    152.38 351 ePKP  35 45.50    6.7X
        0.8s     20.00nm
PRU    152.53 340 PKP   35 45.50    6.3X
                  e      36 10.60
                  e      37 45.10
MOX    152.75 344 ePKP  35 46.50    7.0X
SRO    152.98 333 ePKP  35 24.20  -15.6X
GRF    153.73 344 ePKP  35 43.00    2.2
      Z  21s      0.10um          4.6Msz
                  e      35 53.00
                  e      36 04.40
      S.D. = 1.1  on  94 of 120 obs.
-----------------------------------
*  JUL  23, 1991  21h 58m 13.48± 1.16s
   23.820 N ± 9.8km   97.447 E ±10.2km
   DEPTH =  51.6 ± 15.5 km
   4.1mb (  2 obs.)
 BURMA-CHINA BORDER REGION        (297)

KMI      4.99  74 Pgc    59 28.00   -0.1
                  Sg     00 10.00
CHG      5.17 164 ePn    59 30.50    0.1
                  iPg    59 45.00
                  iSg    00 42.20
CHTO     5.17 164 ePn    59 29.00   -1.4
                  iPg    59 45.00
                  iSg    00 41.00
BDT      6.70 167 ePn    59 52.50    0.8
                  ePg    00 14.00
                  eSg    01 29.00
LOE      7.54 147 ePn    00 04.00    0.6
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                  ePg    00 18.60
                  eSg    01 34.00
NST      8 49 162 eP     00 41.00   24.5X
KHT      9.05 173 eP     00 31.00    6.7X
KKN     11.65 292 P      01 00.00    0.1
WRA     56.44 137 P      07 52.00   -0.5
        1.3s      1.80nm          3.9mb
WR2     56 45 137 eP     07 52.90    0.3
        0.7s      1.80nm          4.2mb
      S.D. = 0.9  on   8 of  10 obs.
-----------------------------------
%  JUL  23, 1991  22h 16m 18.99± 1.35s
   42.992 N ± 7.6km   13.412 E ±14.3km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                     (381)

ASS      0.56 278 P      16 30.00   -0.3
                  eSg    16 39.50
ARV      0.61 326 P      16 30.00   -1.3
                  eSg    16 39.50
MNS      0.81 222 P      16 34.50   -0.3
                  eSg    16 47.50
RSM      1.17 324 P      16 41.00    0.2
                  eSg    16 59.00
CRE      1.24 301 P      16 43.10    1.0
SDI      1.32 167 P      16 43.50    0.1
SFI      1.47 310 P      16 46.10    0.7
      S.D. = 0.9  on   7 of   7 obs.
-----------------------------------
%  JUL  23, 1991  22h 22m 35.03± 1.05s
   39.598 N ± 5.1km   15.122 E ± 9.2km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN ITALY                    (390)

MGR      0.63  32 P      22 47.70    0.0
                  eSg    22 57.00
MMN      0.73  66 P      22 48.80   -0.6
                  eSg    22 56.80
CZI      0.87 115 P      22 51.90    0.2
ACI      0.87 106 P      22 52.50    0.7
CSI      0.92  78 P      22 52.10   -0.5
                  eSg    23 05.00
SGO      0.97   8 P      22 53.80    0.4
                  eSg    23 08.10
ROI      1.12  91 P      22 56.20    0.2
ATN      1.46 169 P      23 01.00   -0.4
SOI      1.69 154 P      23 04.80    0.1
      S.D. = 0.5  on   9 of   9 obs.
-----------------------------------
?  JUL  23, 1991  22h 34m 27.92± 1.43s
   67.908 N ±15.2km   20.339 E ±13.7km
   DEPTH =  10.0km  (geophysicist)
 SWEDEN                            (536)
      MD 2.2 (BER).

KTK1     1.54  43 eP     34 55.46    0.0
                  eSg    35 17.47
TRO      1.81 344 eP     34 59.22    0.0
                  eSg    35 24.36
LOF      2.57 278 ePg    35 10.23    0.1
                  eSg    35 44.03
MOR7     2.73 236 ePg    35 12.57    0.0
                  eSg    35 48.27
      S.D. = 0.1  on   4 of   4 obs.
-----------------------------------
?  JUL  23, 1991  22h 37m 27.40± 6.54s
   41.430 N ±38.1km   24.059 E ±27.9km
   DEPTH =  10.0km  (geophysicist)
 GREECE-BULGARIA BORDER REGION     (363)

SRS      0.47 229 ePc    37 36.60   -0.4
                  eS     37 44.56
SOH      0.81 221 ePd    37 43.76    0.6
                  eS     37 56.48
KNT      0.91 253 ePc    37 44.80   -0.1
                  eS     37 59.20
OUR      1.10 183 ePd    37 47.80   -0.2
      S.D. = 0.8  on   4 of   4 obs.
-----------------------------------
%  JUL  23, 1991  23h 34m 24.54± 0.89s
     0.694 S ± 6.6km   78.696 W ± 6.7km
   DEPTH =  11.1 ± 10.0 km
 ECUADOR                           (107)

QUIL     0.24 255 P      34 30.30    0.4
                  S      34 34.90
VC1      0.29  79 P+     34 31.70    0.7
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GGP      0.53  11 Pd     34 35.70   0.3
OUR      0.55  18 iPd    34 35.40  -0.3
                  iS     34 43.50
YANA     0.59  12 Pd     34 36.40  -0.3
                  S      34 45.30
TUNG     0.76 161 P      34 39.20  -0.4
CAYA     1.05  43 P      34 44.60   0.0
COTA     1.08  19 P      34 45.00  -0.2
     S.D. = 0.5  on   8 of   8 obs.
-----------------------------------------
&  JUL  24, 1991  00h 26m 01.80s
   36.857 N            122.183 W
   DEPTH =    5.0km
 CENTRAL CALIFORNIA                  ( 39)
      <BRK>. ML 2.8 (BRK).

GCC      0.23  41 iPd    26 06.24  -0.2
                  iS     26 09.76
SAO      0.60  99 iPd    26 13.02  -0.8
MHC      0.65  42 ePd    26 14.60  -0.2
                  ic     26 14.75
                  iS     26 23.90
PCC      0.66 346 iPd    26 14.46  -0.6
ARN      0.72  46 iPc    26 15.50  -0.6
PRS      0.84 128 ePd    26 17.82  -0.7
                  eS     26 29.77
BKS      1.02 358 eP     26 20.60  -0.9
                  eS     26 34.60
LLA      1.02 103 eP     26 21.06  -0.6
                  eS     26 36.22
ZSP      1.09 357 eP     26 21.17  -1.5
                  eS     26 37.29
PRI      1.42 120 eP     26 28.70   0.3
                  iS     26 50.13
CMB      1.85  50 eP     26 33.12  -1.4
                  eS     26 56.59
       11 obs. associated
-----------------------------------------
   JUL  24, 1991  00h 57m 21.21± 0.84s
   29.817 S ± 5.7km   71.315 W ±11.0km
   DEPTH =  75.5 ±  8.6 km
 NEAR COAST OF CENTRAL CHILE         (135)
      Felt (IV) at Coquimbo, La
      Serena, Ovalle and Combarla,
      (III) at Vicuna and (II) at
      Illapel.

RTBS     2.44 139 ePc    58 01.60   2.0
ZON      2.85 128 eP     58 06.00   0.6
RTLL     2.88 122 iPd    58 06.40   0.6
JACH     2.92 168 iPc    58 07.20   0.8
                  iS     58 43.50
ROCH     3.16 175 eP     58 10.00   0.2
IHA      3.21 185 eP     58 09.50  -0.8
                  e      58 29.80
                  i(S)   58 54.90
PEL      3.36 171 iP     58 13.00   0.5
                  i      58 54.00
LCCH     3.65 183 ePc    58 15.50  -1.0
                  iS     58 56.50
SAN      3.67 171 iPd    58 17.20   0.5
                  iS     59 00.00
TACH     3.84 175 iPd    58 18.70  -0.4
                  iS     59 02.90
PCH      3.85 170 ePc    58 20.00   0.6
LNV      4.13 181 iPc    58 21.50  -1.6
CHCH     4.14 172 iPc    58 22.70  -0.8
CYA      5.02  76 ePc    58 34.20  -1.5
ANT      6.14   8 e(P)   58 45.50  -5.7X
SLA      7.25  47 e(P)   59 05.00  -1.7
CNCB    13.30  14 P      00 30.60   1.8
LPB     13.55  13 P      00 33.00   1.1
ZOBO    13.80  13 iPd    00 35.00  -0.3
     Z  24s      0.16um
                  LR     05 08.00
SIV     16.67  37 P      01 08.40  -3.1X
VAO     22.81  78 eP     02 12.80  -5.7X
BAO     25.66  62 ePd    02 44.50  -1.3
NVL     59.93 158 Pd     07 21.50   0.3
                  e      07 37.50
TIC     73.13  72 P      08 45.50  -0.2
KIC     73.20  72 P      08 45.90  -0.2
WR2    124.68 210 ePKP   16 13.90  -0.2
       0.3s      6.10nm
WRA    124.70 210 PKP    16 14.00  -0.2
       0.5s      1.90nm
YAK    144.97 343 ePKP   16 50.00  -0.5
GBA    146.93 112 PKPc   16 56.80   1.7
       0.7s     11.90nm
HYB    149.86 107 ePKP   17 05.00   5.3X
     S.D. = 1.1  on  26 of  30 obs.
-----------------------------------------
%  JUL  24, 1991  01h 15m 44.89± 1.79s
   43.118 N ± 8.9km   13.283 E ±15.9km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                       (381)

ARV      0.45 327 P      15 53.40  -0.8
                  eSg    16 03.10
ASS      0.46 264 P      15 53.50  -0.7
                  eSg    16 02.00
AQU      0.77 173 P      15 59.90   0.0
MNS      0.86 211 P      16 01.50   0.1
CRE      1.10 298 P      16 07.00   1.4
     S.D. = 1.3  on   5 of   5 obs.
-----------------------------------------
   JUL  24, 1991  02h 44m 44.07± 0.57s
   44.813 N ± 3.1km    6.750 E ± 6.9km
   DEPTH =   6.8 ±  5.2 km
 FRANCE                              (538)
      ML 2.5 (GEN), 2.3 (LDG).

RRL      0.11  13 P      44 47.20   0.4
                  S      44 49.69
PZZ      0.40 141 P      44 51.85  -0.3
                  S      44 58.24
RSP      0.49  47 P      44 54.68   0.6
                  S      45 02.04
LPG      0.69   0 Pg     44 57.40  -0.4
                  Sg     45 07.40
STV      0.70 144 P      44 57.82  -0.3
                  S      45 07.14
LPL      0.70 359 Pg     44 57.70  -0.5
                  Sg     45 08.50
ENR      0.76 140 P      44 58.78  -0.4
                  S      45 08.37
ROB      0.95 122 P      45 02.22  -0.4
                  S      45 14.38
SBF      1.07 152 Pg     45 05.40   0.9
                  Sg     45 20.30
IMI      1.22 137 P      45 06.56  -0.5
                  S      45 21.20
FRF      1.25 183 Pg     45 07.50  -0.2
                  Sg     45 24.60
PCP      1.31 101 P      45 09.02   0.4
                  S      45 24.46
LRG      1.39 192 Pg     45 10.60   0.8
                  Sg     45 29.00
LMR      1.49 187 Pg     45 11.18  -0.1
                  Sg     45 31.10
     S.D. = 0.6  on  14 of  14 obs.
-----------------------------------------
?  JUL  24, 1991  03h 10m 10.71± 4.36s
   51.500 N ±29.6km   16.057 E ±25.4km
   DEPTH =  10.0km  (geophysicist)
 POLAND                              (548)
      ML 3.5 (VKA), 3.4 (GRF).

KSP      0.67 167 iP     10 24.10   0.0
                  i      10 26.50
                  iS     10 33.40
BRG      1.47 246 iPg    10 38.00   0.8
                  iSg    10 57.70
PRU      1.79 213 Pn     10 42.10   0.2
       0.5s     51.10nm
                  Pg     10 44.20
                  e      10 46.70
                  Sn     11 00.50
                  Sg     11 07.10
                  i      11 14.30
CLL      1.92 265 iPn    10 43.40  -0.4
                  iPg    10 46.30
                  iSg    11 11.80
KHC      2.86 215 Pn     10 57.00  -0.2
                  Pg     11 03.00
                  Sn     11 32.00
                  eSg    11 42.00
HOF      2.90 247 ePn    10 57.50  -0.3
MOX      2.93 255 ePn    10 59.00   0.8
                  iPg    11 06.00
                  iSg    11 45.00
WET      3.12 222 ePn    11 01.00   0.2
VKA      3.24 177 ePg    11 12.00   9.3X
                  iSg    11 54.70
ZST      3.38 168 eP     12 00.80  56.3X
SPC      3.54 129 eP     11 19.60  12.6X
                  e      12 13.60
                  e      18 55.90
                  e      19 48.20
GRF      3.57 241 e(Pn)  11 06.10  -1.2
                  ePg    11 20.30
                  eSg    12 04.00
     S.D. = 0.7  on   9 of  12 obs.
-----------------------------------------
   JUL  24, 1991  03h 10m 41.15± 0.23s
   52.150 N ± 5.4km  162.243 E ± 3.6km
   DEPTH =  33.0km  (normal)
   5.1mb ( 60 obs.)  4.2Msz (  6 obs.)
 OFF EAST COAST OF KAMCHATKA         (219)

KUSJ    14.86 239 eP     14 04.40  -6.0X
ASAJ    15.32 246 eP     14 15.00  -1.4
HOOJ    16.11 240 eP     14 24.60  -1.9
YAK     20.03 312 iP     15 08.90  -4.7X
                  ePP    15 30.00
                  ePPP   15 43.00
                  eS     18 48.00
                  ePcP   19 23.00
                  eSS    19 36.00
MAT     23.06 237 eP     15 45.00   0.6
        1.0s     56.00nm          5.0mb
                  eS     19 55.00
TTA     24.40  48 eP     15 57.80   0.5
SVW     24.44  52 eP     15 58.70   1.1
CN2     25.77 266 eP     16 09.20  -1.2
        4.0s    300.00nm          5.2mb X
     Z  14s      2.20um          4.8MszX
     N  13s      0.30um
     E  13s      0.80um
                  eS     20 36.00
IMA     25.89  41 eP     16 10.90  -0.5
        1.3s     97.80nm          5.2mb
BRW     26.43  28 eP     16 15.70  -0.4
FBA     28.18  44 eP     16 31.80  -0.4
BJI     33.60 267 eP     17 20.00  -0.2
     Z  20s      0.48um          4.2Msz
     N  16s      1.05um
INK     33.83  37 ePd    17 20.80  -1.0
TIA     35.42 261 eP     17 35.50  -0.4
BTO     37.06 273 eP     17 44.50  -5.3X
     N  13s      0.30um
     E  13s      0.40um
TIY     37.33 267 eP     17 52.00   0.0
     Z  16s      0.83um          4.6MszX
     N  13s      0.74um
MBC     37.40  23 ePd    17 51.00  -1.1
        1.0s      6.00nm          4.4mb
XAN     41.89 266 P      18 29.00  -0.8
YKA     42.97  43 eP     18 37.20  -1.0
        1.2s     12.80nm          4.5mb
LZH     43.66 272 eP     18 45.00   0.6
        1.5s     68.00nm          5.2mb
     Z  20s      0.59um          4.5Msz
     E  10s      0.39um
GTA     44.03 279 P      18 47.70   0.4
        1.2s     20.00nm          4.8mb
     Z  12s      0.60um          4.7MszX
     E  14s      0.60um
                  pP     18 54.60  23kmX
                  PcP    20 33.40
PNT     47.28  61 eP     19 13.00   0.1
        0.8s      6.00nm          4.7mb
WMQ     48.53 291 P      19 23.00   0.3
        1.0s     30.00nm          5.3mb
     Z  14s      0.30um          4.4MszX
GYA     48.60 260 iPc    19 23.00  -0.5
        1.2s     37.00nm          5.3mb
NEW     49.24  61 eP     19 27.90  -0.2
        1.0s      3.00nm          4.3mb
SES     51.12  55 eP     19 41.00  -1.4
FFC     52.73  46 eP     19 53.00  -1.5
        1.4s     35.00nm          5.1mb
TNP     55.69  70 iP     20 16.20  -0.4
        1.2s     22.18nm          5.1mb
                  e      20 44.00
SOD     56.23 341 eP     20 18.00  -1.8
BW06    56.83  62 iP     20 24.20  -0.6
        1.2s     18.84nm          5.0mb
                  e      20 52.00
CLC     57.01  73 eP     20 26.00   0.1
SBB     57.66  74 eP     20 30.00  -0.5
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24d 03h

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GSC     57.84  73 eP     20 32.00    0.3
RSSD    58.83  57 iP     20 38.90    0.1
        1.2s     67.06nm          5.6mb
                  e      20 57.00
CHG     59.02 261 ePd    20 41.00    0.9
        1.2s     37.11nm          5.4mb
PLM     59.16  74 eP     20 41.60    0.5
GUN     60.31 278 Pd     20 48.92   -0.4
        0.4s     33.00nm          5.8mb
GLA     60.58  73 eP     20 51.00    0.3
KKN     60.76 278 Pd     20 52.00   -0.2
PKI     60.84 278 Pd     20 52.50   -0.4
KAF     60.86 338 iP     20 50.70   -1.4
        0.4s      4.10nm          4.9mb
GKN     61.00 279 Pd     20 53.36   -0.4
GOL     61.23  62 eP     20 55.00   -0.3
        1.1s      7.69nm          4.7mb
NUR     62.66 338 eP     21 03.00   -1.2
OBN     64.01 329 iPd    21 11.50   -1.7
        2.0s    *******nm          8.5mb X
      Z  16s      0.50um          4.8MszX
      N  14s      0.30um
                  e      21 29.00
                  i      21 47.00
ANMO    64.05  66 eP     21 14.50    0.5
                  e      21 41.50
ALQ     64.05  66 eP     21 13.30   -0.7
        1.0s      5.00nm          4.6mb
NB2     64.81 345 P      21 16.70   -1.6
        0.6s      6.60nm          4.9mb
HFS     65.24 343 eP     21 18.80   -2.3
        0.6s      6.60nm          4.9mb
      Z  15s      0.10um          4.1MszX
                  LR     46 37.00
MEO     68.51  61 iPd    21 42.00   -0.1
TUL     69.13  58 iPc    21 45.10   -0.8
        1.8s     60.80nm          5.4mb
MAIO    69.24 303 eP     21 47.00    0.3
VVO     69.60  59 eP     21 48.50   -0.3
EKA     72.20 351 Pc     22 04.00   -0.1
        1.1s     11.60nm          4.8mb
HYB     72.60 276 eP     22 06.30   -0.8
KRA     73.27 336 eP     22 10.80    0.3
KSP     73.42 338 eP     22 11.10   -0.2
CLL     73.69 340 iPd    22 12.70   -0.2
        1.4s     46.00nm          5.3mb
BRG     73.91 340 eP     22 13.80   -0.4
        1.2s     22.00nm          5.0mb
SPC     73.99 335 e(P)   22 14.70   -0.2
WTS     74.19 345 eP     22 16.00    0.3
        1.1s     25.00nm          5.1mb
MOX     74.60 341 iP     22 18.50    0.3
        1.5s     27.00nm          5.0mb
PRU     74.61 339 Pd     22 18.50    0.2
        1.3s     13.10nm          4.8mb
VRI     75.15 330 eP     22 22.50    1.1
ENN     75.52 345 eP     22 23.50    0.1
        1.0s     50.00nm          5.5mb
GRF     75.59 341 iPd    22 24.80    0.9
        1.2s     45.00nm          5.3mb
KHC     75.63 339 iP     22 24.50    0.3
ZST     75.70 337 iP     22 24.90    0.4
SRO     75.75 336 eP     22 23.70   -1.1
WET     75.77 340 iPd    22 25.70    0.7
        1.2s     34.00nm          5.2mb
WR2     75.80 207 eP     22 25.60    0.2
        1.0s      6.10nm          4.6mb
WRA     75.80 207 P      22 25.00   -0.4
        1.2s      6.50nm          4.5mb
CDF     77.56 343 eP     22 35.00    0.0
        1.2s     29.75nm          5.2mb
WTTA    77.82 340 iPd    22 37.40    0.8
        1.3s     53.90nm          5.4mb
                  i      22 47.20
HAU     78.12 344 eP     22 38.00    0.0
        1.2s     17.85nm          5.0mb
      Z  21s      0.10um          4.1Msz
BSF     78.21 343 eP     22 38.30   -0.3
        1.0s     12.00nm          4.9mb
OGA     78.32 340 eP     22 40.60    1.2
        1.2s     20.00nm          5.0mb
FLN     78.39 348 eP     22 39.10   -0.4
        1.2s     35.70nm          5.3mb
LDF     78.51 348 eP     22 39.60   -0.5
        1.2s     20.85nm          5.0mb
OSS     78.68 341 ePd    22 42.20    0.9
GRR     78.81 349 eP     22 41.60   -0.1
        1.2s     47.60nm          5.4mb
VDL     79.00 341 ePc    22 44.50    1.4
LPF     79.18 349 eP     22 43.70   -0.1
        1.0s     23.80nm          5.1mb
LOR     79.25 345 eP     22 44.10   -0.1
        1.2s     23.80nm          5.1mb
      Z  22s      0.17um          4.4Msz
ASPA    79.46 206 iPd    22 46.80    1.2
        0.9s      7.00nm          4.7mb
TMA     79.48 342 ePc    22 46.30    0.6
SSF     79.50 345 eP     22 45.70    0.2
        1.2s     13.40nm          4.8mb
LBF     79.50 345 eP     22 45.50   -0.1
        1.2s     10.00nm          4.7mb
MMK     79.71 342 ePc    22 48.20    1.2
DIX     79.79 342 ePc    22 48.70    1.2
AVF     79.79 345 eP     22 47.40    0.3
        1.2s     29.75nm          5.2mb
SMF     79.85 345 eP     22 47.70    0.2
        1.2s     23.80nm          5.1mb
SKO     80.29 331 iP     22 49.80    0.0
TCF     80.45 346 eP     22 51.00    0.3
        1.0s     11.00nm          4.8mb
VAY     80.55 330 iP     22 51.80    0.6
LSF     80.59 347 eP     22 51.80    0.4
        1.2s     11.00nm          4.7mb
BNI     80.92 343 P      22 54.50    1.2
RJF     81.52 346 eP     22 57.00    0.7
        1.2s     20.85nm          5.0mb
      Z  21s      0.10um          4.2Msz
CAF     81.81 346 eP     22 58.80    1.0
        1.2s     30.70nm          5.2mb
SBF     81.92 342 eP     22 58.90    0.5
        1.0s     52.30nm          5.5mb
LFF     81.99 347 eP     22 59.50    0.8
        1.0s     29.75nm          5.3mb
LPO     82.17 346 eP     23 00.60    0.9
        1.2s     24.40nm          5.1mb
FRF     82.36 342 eP     23 01.20    0.5
        1.3s     23.80nm          5.1mb
CDR     82.41 343 ePd    23 02.10    1.2
LRG     82.52 343 eP     23 02.40    1.0
        1.4s     47.60nm          5.4mb
      Z  22s      0.13um          4.2Msz
LMR     82.61 342 eP     23 02.90    1.0
        1.2s     44.65nm          5.4mb
PGF     82.87 340 eP     23 03.80    0.3
        1.1s     34.85nm          5.4mb
EPF     83.91 347 eP     23 09.10    0.4
        1.2s     28.90nm          5.3mb
WARB    84.00 212 eP     23 11.20    2.1
CCH    128.65  66 PKP    29 39.80   -7.0X
        S.D. = 0.8  on 106 of 110 obs.
-----------------------------------------
?  JUL  24, 1991  03h 17m 45.65± 5.65s
    51.570 N ±35.7km   16.168 E ±33.8km
    DEPTH =  10.0km  (geophysicist)
 POLAND                              (548)
        ML 3.5 (VKA), 3.5 (GRF).
KSP      0.73 174 iP     18 00.20    0.2
                  i      18 02.60
                  iS     18 09.60
BRG      1.56 244 ePn    18 14.20    0.7
                  iPg    18 14.60
                  iSg    18 33.70
PRU      1.89 214 Pnd    18 18.10   -0.1
        0.4s     53.40nm
                  Pg     18 20.00
                  Sn     18 37.00
                  Sg     18 43.30
                  i      18 50.00
CLL      2.00 264 iPn    18 19.30   -0.5
                  iPg    18 22.00
                  i      18 48.60
KHC      2.95 215 Pn     18 32.50   -0.9
                  Pg     18 39.50
                  Sn     19 08.00
                  Sg     19 18.50
HOF      2.99 247 ePn    18 33.40   -0.6
MOX      3.01 254 ePn    18 35.00    0.7
                  iPg    18 42.00
                  iSg    19 22.00
WET      3.21 222 iPnc   18 37.90    0.7
VKA      3.31 178 iPgc   18 48.40    9.8X
                  iSg    19 31.00
ZST      3.43 169 eP     19 36.00   55.8X
GRF      3.67 241 iPnc   18 43.40   -0.2
                  ePg    18 55.00
                  e(Sn)  19 35.70
                  eSg    19 41.60
        S.D. = 0.7  on   9 of  11 obs.
-----------------------------------------
   JUL  24, 1991  03h 27m 51.58± 0.23s
   16.028 S ± 4.1km   73.657 W ± 6.2km
   DEPTH =  55.5km  ( 19 depth phases)
   5.1mb ( 22 obs.)
 NEAR COAST OF PERU                (115)
      Felt (III) at Arequipo.
      CENTROID, MOMENT TENSOR      (HRV)
      Data Used: GDSN
      L.P.B.: 14S, 25C
      Centroid Location:
      Origin Time        03:27:56.7 0.7
      Lat 16.14S  FIX;Lon  73.83W  FIX
      Dep  56.0 FIX Half-duration  1.8
      Moment Tensor;   Scale 10**16 Nm
        Mrr= 3.38 0.96  Mtt= 1.52 0.88
        Mff=-4.90 1.72  Mrt=-8.13 0.60
        Mrf= 1.88 0.71  Mtf=-0.80 0.77
       Principal Axes:
        T  Val= 10.87  Plg=48  Azm=190
        N       -4.72     17      300
        P       -6.15     37       43
      Best Double Couple:Mo=8.5*10**16
       NP1:Strike=191 Dip=17 Slip= 162
       NP2:        298    85       73
ARE      2.12 102 iPc    28 26.50    0.9
                  iS     28 38.50
NNA      5.07 322 iPd    29 46.80   39.8X
        0.5s    387.32nm
                  eS     30 47.50
PT10     5.08 320 eP     29 07.50    0.5
                  i      29 13.60
                  eS     30 15.50
ZOBO     5.32  93 Pc     29 14.00    3.0
                  S      30 20.00
LPB      5.36  96 P      29 15.00    3.6X
                  i      29 16.90
                  S      30 18.00
ANT      8.22 159 iPc    29 47.20   -3.6
                  i(S)   31 10.50
SLA     11.55 140 e(P)   30 34.50   -2.0
SIV     12.10  92 P      30 41.20   -2.5
RTLL    15.95 164 ePd    31 34.30    0.4
RTBS    16.03 167 e(P)   31 37.00    2.2
QUR     16.47 343 eP     31 42.70    1.7
JACH    16.81 171 eP     31 46.00    1.2
ROCH    17.04 172 eP     31 48.00    0.2
PEL     17.25 172 iP     31 50.60    0.3
        1.1s    189.87nm          5.2mb
LCCH    17.47 174 iPc    31 53.00    0.0
PSO     17.49 348 eP     31 54.50    0.8
SAN     17.56 172 ePd    31 54.00   -0.1
TACH    17.72 173 iP     31 56.50    0.5
PCH     17.75 171 eP     31 57.00    0.6
LNV     17.97 174 iPd    31 59.50    0.5
CHCH    18.03 172 ePd    32 00.50    0.6
ITB1    19.98 119 Pd     32 22.00   -0.2
ITB7    20.34 120 e(P)   32 25.50   -0.5
BOG     20.52 359 eP     32 30.50    2.3
                  iS     36 25.00
FUQ     21.36 360 eP     32 35.00   -1.7
BMG     22.96   1 iPc    32 52.50    0.2
BAO     24.69  93 ePc    33 09.20    0.1
UPA     25.52 346 iPd    33 17.60    0.9
      Z  20s      0.85um          4.3Msz
VAO     26.07 110 eP     33 20.80   -1.1
                  e      33 41.80   95kmX
                  e      33 47.30
TRN     29.15  25 eP     33 50.00    0.3
SOB1    32.65  82 eP     34 18.10   -2.6
                  e      34 39.80   95kmX
JSC     50.55 352 eP     36 45.00   -1.4
                  e      37 01.00   62km
BLA     53.33 353 eP     37 07.00   -0.4
        1.1s     12.66nm          4.9mb
VVO     55.21 338 eP     37 19.20   -1.9
TUL     55.74 338 iPc    37 23.30   -1.7
        1.0s     31.60nm          5.3mb
      Z  22s      0.21um          4.2Msz
                  LR     57 01.00
MEO     55.81 335 e(P)   37 23.80   -1.7
```

```
FVM     55.99 344 eP     37 28.00   1.3
        1 0s     20.00nm          5.1mb
ALO     59.50 329 eP     37 49.50  -2.1
        1.0s     19.25nm          5.2mb
                  e      38 05.70  61km
GLA     62.68 322 eP     38 28.00  15.0X
GOL     62.84 333 eP     38 14 80   0.6
        1.1s      7.69nm          4.7mb
                  e      38 28.50  49km
BAR     63.54 320 eP     38 18.00  -0.7
                  e      38 34.00  59km
PLM     64.12 320 eP     38 22.00  -0.6
                  e      38 38.00  59km
TPC     64.14 322 eP     38 39.00  16.4X
                  e      38 53.00  50km
RVR     64.87 321 eP     38 36.00   8.8X
                  e      38 43.00  22kmX
GSC     65.42 322 eP     38 31.00   0.1
                  e      38 46.00  54km
SBB     65.61 321 eP     38 32.00  -0.1
                  e      38 47.00  54km
RSSD    65.98 336 iP     38 34.20  -0.3
        1.2s     29.15nm          5.2mb
CLC     66.24 322 eP     38 36.00  -0.1
                  e      38 51.00  54km
ISA     66.66 321 eP     38 39.00   0.2
                  e      38 54.00  54km
CWC     66.95 322 eP     38 40.00  -0.8
                  e      38 56.00  58km
TNP     67.58 324 iP     38 44.80   0.0
        1.5s     38.64nm          5.2mb
PRI     68.31 320 eP     38 51.70   2.5X
                  e      39 05.30  48km
SNA     68.75 160 iPc    38 51.00  -0.3
PRS     68.86 320 e(P)   38 52.80   0.3
CMB     69.38 322 eP     38 56.00   0.3
MHC     69.68 321 eP     38 58.50   0.9
                  e      39 13.80  55km
SCH     70.80   4 eP     39 03.00  -1.0
LRM     70.85 332 eP     39 04.00  -0.8
ORV     71.04 323 eP     39 06.00   0.3
                  e      39 22.30  59km
KIC     71.72  78 P      39 08.12  -2.2
WDC     72.31 323 eP     39 12.10  -1.2
                  e      39 27.30  54km
NVL     73.50 160 Pd     39 19.50  -0.3
                  e      39 38.50  71kmX
                  e      39 42.00
                  e      40 18.00
SES     73.85 336 eP     39 22.00  -0.1
                  pP     39 37.00  53km
FFC     74.48 343 iPd    39 40 10  14.5X
        0.8s     15.00nm
NEW     74.80 332 eP     39 27.00  -0.6
        1.0s      2.75nm          4.1mb
                  e      39 43.10  58km
PNT     76.70 331 eP     39 39.00   0.6
        0.7s     10.00nm          4.9mb
SBA     80.35 191 iP     40 00.00   2.1
MAL     83.66  49 iPc    40 17.20   1.5
YKA     84.59 342 eP     40 18.30  -1.5
        0.9s      9.70nm          4.9mb
EPF     89.55  45 eP     40 44.00  -0.4
        0.8s      3.35nm          4.7mb
LFF     90.54  43 eP     40 50.00   1.2
        1.2s     29.75nm          5.5mb
LPF     90.60  40 eP     40 53.00   4.0X
        1.2s     23.80nm          5.4mb
LPO     90.74  44 eP     40 51.00   1.2
        0.8s      8.05nm          5.2mb
GRR     90.86  40 eP     40 54.10   3.9X
        0.9s      9.85nm          5.2mb
RJF     91.19  43 eP     40 52.80   1.0
        1.0s      8.00nm          5.1mb
      Z 20s       0.35um          4.8Msz
CAF     91.41  44 eP     40 54.00   1.1
        1.0s      8.00nm          5.1mb
MAF     92.20  42 eP     40 58.60   2.1
        0.9s     51.55nm          6.0mb
INK     94.31 341 eP     41 05.00  -0.7
                  pP     41 21.00  55km
LPL     94.72  44 eP     41 10.20   1.9
        0.4s      1.45nm          4.8mb
LPG     94.72  44 eP     41 10.50   2.0
        0.9s      4.90nm          4.9mb
BUL     95.63 113 iPc    41 12.00  -1.0
MBC     96.07 350 eP     41 14.00   0.4
```

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WTTA    98.46  43 eP     41 24.50  -0.7
        1.0s     12.00nm          5.4mb
                  i      41 41.60  60km
OIS    131.13 223 iPKPc  46 59.40  -0.3
YAK    131.17 346 ePKP   46 57.90  -0.6
WR2    134.87 219 iPKP   47 06.30  -0.5
                  i      47 23.90
                  ePP    49 39.50
WRA    134.89 219 PKP    47 06.00  -0.8
        0.9s     25.70nm
IRK    143.80   2 ePKP   47 39.90  17.8X
CHJJ   144.78 311 ePKP   47 28.80   4.6X
MAT    145.12 312 iPKPd  47 23.50  -1.3
        1.0s     38.00nm
MTMJ   145.39 312 PKP    47 24.80  -0.6
IIDJ   145.82 310 PKP    47 26.20   0.1
WMO    148.08  26 PKP    47 33.20   3.7X
      Z 28s      0.60um          5.2MszX
SNY    150.31 333 iPKPc  47 39.00   6.2X
NDI    150.35  60 ePKP   47 39.00   5.7X
KOD    151.31  98 ePKP   47 42.60   7.1X
GBA    151.96  91 PKPc   47 42.00   6.0X
        0.8s     31.80nm
BJI    154.59 342 ePKP   47 45.00   6.0X
HHC    154.86 351 ePKP   47 41.40   1.9
BTO    155.31 353 ePKP   47 46.40   6.3X
GTA    156.01  13 ePKP   47 42.20   1.0
                  pPKP   47 59.20
                  sPKP   48 07.00
GKN    156.66  56 PKP    47 41.80  -0.6
KKN    157.26  55 PKP    47 43.80   0.6
TIY    157.74 347 ePKP   47 44.00   0.7
LZH    159.90   6 ePKP   48 02.50  16.6X
        2.0s     35.00nm
                  sP     48 41.50
XAN    161.92 353 PKP    47 49.00   1.2
GYA    169.62 358 PKP    47 54.00  -0.4
      S.D. = 1.2  on  88 of 107 obs.
-----------------------------------
   JUL  24, 1991  05h 06m 15.45± 0.33s
   41.889 N ± 5.1km    21.060 E ± 3.8km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                        (383)
      ML 3.2 (SKO), 3.0 (TTG). Felt
      (IV) ot Gostivar.

SKO      0.29  74 iPgc   06 21.60   0.0
                  iSg    06 26.00
PVY      1.07 312 iPgd   06 33.96  -1.8
                  iSg    06 50.21
FNA      1.13 168 ePc    06 35.94  -0.7
                  eS     06 52.46
VAY      1.27 116 ePg    06 38.80  -0.2
IVA      1.31 319 iPgc   06 38.71  -1.0
                  iSg    06 58.16
ULC      1.35 274 iPgd   06 40.18  -0.2
                  iSg    07 01.66
GRG      1.37 132 ePd    06 40.58  -0.1
                  eS     06 59.78
TTG      1.44 293 iPgc   06 41.63   0.0
                  iSg    07 03.11
KNT      1.56 117 ePd    06 43.46   0.2
                  iS     07 04.94
BDV      1.71 284 iPnd   06 46.40   1.0
                  iSn    07 10.80
NKY      1.79 302 iPnd   06 47.76   1.1
                  iSn    07 11.51
PLE      1.89 320 iPnd   06 48.26   0.0
                  iSn    07 14.73
HCY      1.98 287 iPnd   06 50.90   1.5
                  iSn    07 17.10
SOH      2.03 121 iPc    06 50.50   0.4
                  iS     07 15.46
SRS      2.05 111 ePc    06 50.58   0.2
LIT      2.09 148 ePd    06 51.22   0.3
                  iS     07 19.90
BRY      2.12 299 iPnc   06 53.50   2.0X
                  iSn    07 21.08
OUR      2.70 124 ePd    06 59.66   0.0
PAIG     2.79 134 ePd    07 01.01   0.1
AGG      3.02 161 ePd    07 03.98  -0.3
CZI      4.60 236 P      07 26.00  -0.7
      S.D. = 0.8  on  20 of  21 obs.
-----------------------------------
?  JUL  24, 1991  05h 23m 34.50±10.36s
   41.244 N ±32.3km    21.101 E ±70.2km
   DEPTH =   5.0km  (geophysicist)
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 YUGOSLAVIA                        (383)

FNA      0.50 156 ePd    23 44.52  -0.1
                  eS     23 52.96
GRG      1.02 106 ePd    23 54.32   0.0
                  eS     24 09.72
VAY      1.11  86 ePg    23 55.60  -0.2
KNT      1.36  93 ePc    24 00.32   0.3
                  eS     24 19.80
      S.D. = 0.3  on   4 of   4 obs.
-----------------------------------
&  JUL  24, 1991  05h 47m 06.81s
   60.091 N          139.150 W
   DEPTH =  10.3km
 SOUTHEASTERN ALASKA               ( 19)
      <AEIC>. ML 2.6 (AEIC).

PNL      0.44 196 iP     47 15.40  -0.4
YKU      0.61 209 eP     47 18.67  -0.5
CTGM     1.39 310 eP     47 30.60  -1.7
                  eS     47 48.46
BALM     1.84 302 eP     47 36.56  -2.2
                  eS     48 01.75
TGL      1.94 292 eP     47 39.09  -1.2
                  eS     48 03.28
CROM     2.09 290 eP     47 40.63  -1.8
GLB      2.66 303 eP     47 49.14  -1.3
KLU      3.60 296 eP     48 02.19  -1.7
VLZ      3.69 290 eP     48 03.63  -1.4
VZW      3.78 288 eP     48 05.99  -0.4
TOA      3.96 304 eP     48 08.02  -0.9
      11 obs. associated
-----------------------------------
?  JUL  24, 1991  05h 50m 46.13±10.71s
   32.000 S ±14.0km    67.528 W ±93.1km
   DEPTH =  33.0km  (normal)
 MENDOZA PROVINCE, ARGENTINA       (139)

RTLL     1.04 310 iPc    51 04.40  -0.1
ZON      1.08 294 iPd    51 06.00   1.0
                  eS     51 19.00
RTBS     1.67 281 iPd    51 12.10  -1.4
JACH     2.68 254 iPc    51 29.50   1.5
                  eS     52 00.00
PEL      2.90 246 iPc    51 32.50   1.4
                  iS     52 05.50
PCH      2.99 236 iPd    51 35.50   3.1X
                  iS     52 12.50
ROCH     3.10 251 iP     51 33.20  -0.9
                  eS     52 07.00
CHCH     3.26 233 iPd    51 39.00   2.9X
                  iS     52 19.00
TACH     3.31 239 iPd    51 38.00   1.1
LCCH     3.71 246 iP     51 41.10  -1.4
LNV      3.80 238 eP     51 42.50  -1.2
      S.D. = 1.5  on   9 of  11 obs.
-----------------------------------
%  JUL  24, 1991  05h 56m 43.65± 0.54s
   46.975 N ± 5.7km     0.247 E ± 5.6km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                            (538)
      ML 2.5 (LDG).

MFF      0.46 216 Pg     56 53.10   0.1
                  Sg     57 00.20
LSF      1.14 129 Pg     57 03.70  -1.4
                  Sg     57 18.00
LPF      1.37 321 Pn     57 07.90  -0.9
                  Pg     57 08.80
                  Sg     57 27.30
TCF      1.52 116 Pg     57 10.40  -0.5
                  Sg     57 29.20
GRR      1.60 333 Pg     57 12.40   0.4
                  Sg     57 32.60
LDF      1.64 351 Pg     57 12.80   0.2
                  Sg     57 33.50
MAF      1.77 114 Pg     57 14.30  -0.2
                  Sg     57 37.00
BGF      1.83 102 Pg     57 16.00   0.5
                  Sg     57 38.00
RJF      1.89 152 Pg     57 17.40   1.1
                  Sg     57 42.50
AVF      2.14  94 Pg     57 19.80   0.0
                  Sg     57 46.20
SSF      2.23  87 Pg     57 21.80   0.6
                  Sg     57 49.60
CAF      2.41 148 Pg     57 26.70   2.9X
```

24d 05h

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                    Sg     57 58.60
SMF      2.49  96 Pg     57 27.80    2.9X
                    Sg     57 56.80
      S.D. = 0.8  on  11 of  13 obs.
-----------------------------------------
   JUL  24, 1991  06h 06m 44.59± 0.30s
   30.302 N ± 5.5km    94.785 E ± 3.9km
   DEPTH =  33.0km  (normal)
   4.8mb ( 17 obs.)
 TIBET                                (306)

LSA      3.21 260 P      07 36.00    1.7
SHL      5.37 209 eP     08 04.50   -0.2
                  eS     09 45.50
CD2      7.76  83 eP     08 38.00   -0.1
GUN      8.15 255 P      08 43.56   -0.2
PKI      8.65 254 P      08 50.48   -0.3
       0.9s    48.00nm          5.6mb
KKN      8.69 256 P      08 50.50   -0.7
       0.9s   107.00nm          6.0mb X
KMI      8.73 124 eP     08 52.00    0.2
DMN      8.89 255 P      08 53.82   -0.2
       0.8s    63.00nm          5.8mb
GKN      9.16 258 P      08 55.34   -2.3
LZH      9.53  50 eP     08 57.00   -5.8X
       2.0s    35.00nm          5.2mb
     Z 10s      0.32um          3.3MszX
GTA      9.98  23 eP     09 07.10   -1.8
     Z 10s      0.40um
     N 10s      0.30um
GYA     11.14 107 iPc    09 23.40   -1.3
       1.2s    60.00nm          5.7mb
CHG     12.05 161 eP     09 38.00    1.1
XAN     12.54  69 eP     09 42.80   -0.8
WMO     14.62 339 P      10 09.50   -1.4
                  sP     10 18.00
NST     15.37 160 eP     10 25.40    4.7X
BTO     16.09  46 eP     10 31.00    1.0
TIY     16.38  58 eP     10 35.10    1.4
     Z 17s      0.72um
     E 10s      0.29um
HHC     17.21  48 eP     10 45.50    1.5
TIA     19.57  67 eP     11 13.70    1.0
BJI     19.96  55 eP     11 15.00   -1.7
     Z 12s      0.30um
NJ2     20.66  79 eP     11 21.00   -3.1X
IRK     23.05  15 eP     11 43.00   -4.8X
GBA     23.08 228 Pc     11 48.40    0.1
       0.9s    15.40nm          4.5mb
QUE     24.03 277 eP     12 07.70   10.0X
SNY     25.84  56 eP     12 13.20   -1.4
CN2     27.76  52 P      12 32.60    0.4
MAIO    29.98 291 eP     12 53.00    0.6
MLR     54.80 307 ePc    16 14.50    0.8
SKO     58.71 303 eP     16 39.50   -1.8
NB2     60.94 326 P      16 55.60   -0.9
       0.8s     4.00nm          4.6mb
WRA     62.80 138 P      17 09.00   -0.3
       1.0s     3.10nm          4.4mb
WR2     62.82 138 eP     17 10.00    0.6
       0.6s     3.90nm          4.7mb
ASPA    65.49 141 eP     17 24.70   -2.2
       0.9s     5.60nm          4.7mb
CDF     66.46 313 eP     17 33.20    0.3
       1.0s    10.00nm          4.9mb
LPL     67.81 311 eP     17 42.50    0.8
       1.0s    10.00nm          4.9mb
SMF     69.26 313 eP     17 50.40    0.0
       1.2s    11.90nm          4.8mb
SSF     69.32 313 eP     17 51.00    0.3
       1.0s    10.00nm          4.8mb
AVF     69.52 313 eP     17 52.20    0.3
       1.2s    11.90nm          4.8mb
MAF     70.24 313 eP     17 57.30    0.9
       1.1s     9.75nm          4.8mb
TCF     70.44 313 eP     17 58.20    0.6
       1.1s    12.20nm          4.9mb
CAF     71.09 311 eP     18 02.60    1.1
       1.1s    12.20nm          4.9mb
MBC     71.57   8 eP     18 04.50    0.6
INK     75.40  17 eP     18 27.00    0.7
PTZ     75.40 244 eP     18 27.00   -0.2
LSZ     78.46 245 iPc    18 46.00    1.7
      S.D. = 1.1  on  41 of  46 obs.
-----------------------------------------
&  JUL  24, 1991  06h 19m 32.36s
   61.715 N          151.169 W
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   DEPTH =  75.6km
 SOUTHERN ALASKA                    (  2)
      <AEIC>.

SKT      0.32 327 iPd    19 43.83   -0.6
                  eS     19 53.09
SUA      0.32 141 iPc    19 44.75    0.1
                  eS     19 54.50
NCG      0.57 237 iPd    19 45.93   -0.7
                  eS     19 56.76
CGLM     0.57 225 iPd    19 46.04   -0.6
                  eS     19 57.29
PWA      0.62  95 iPc    19 46.81   -0.2
                  eS     19 58.58
SPU      0.68 219 iPd    19 47.02   -0.8
                  eS     19 58.95
BGL      0.74 233 iPd    19 47.73   -0.7
CKL      0.77 228 iPd    19 47.89   -0.9
CUT      0.81  31 iPc    19 48.59   -0.5
PMS      0.90 121 iPc    19 49.57   -0.7
NKA      0.98 182 ePd    19 52.78    1.7
PLRM     0.98  96 iPc    19 50.00   -1.1
                  eS     20 04.92
GHO      1.07  86 ePc    19 51.33   -1.0
RDT      1.29 208 iPd    19 54.51   -0.7
                  iS     20 12.09
SLKM     1.30 159 ePc    19 54.28   -1.0
KNK      1.33 102 iPc    19 54.51   -1.2
                  eS     20 12.62
DFR      1.35 214 ePd    19 55.27   -0.7
RDN      1.43 213 iPd    19 56.45   -0.7
                  eS     20 15.26
NCT      1.44 217 ePd    19 56.97   -0.2
                  eS     20 15.90
REF      1.44 212 eP     19 56.63   -0.6
                  eS     20 16.04
HUR      1.46  29 eP     19 56.16   -1.2
RDW      1.47 214 ePd    19 57.22   -0.5
RSO      1.47 212 eP     19 57.45   -0.3
RED      1.52 212 iPd    19 57.62   -0.6
                  eS     20 17.08
TRF      1.79  13 iPc    20 00.71   -1.3
SEW      1.82 152 eP     20 02.86    0.6
KTH      1.85   3 ePc    20 01.67   -1.0
RND      2.01  31 eP     20 03.36   -1.5
GLI      2.14 111 iPc    20 03.87   -2.7
                  eS     20 29.73
KNIM     2.16 128 ePc    20 03.64   -3.3
VZW      2.32 104 eP     20 06.82   -2.3
LTI      2.33 135 ePc    20 06.51   -2.8
TOA      2.40  78 iPc    20 09.23   -1.0
VLZ      2.40 102 ePc    20 07.37   -2.8
PDB      2.44 219 eP     20 09.42   -1.3
KLU      2.52  93 iPc    20 09.45   -2.5
TZL      2.74  81 eP     20 13.47   -1.5
SDG      2.77  70 eP     20 14.11   -1.2
PAX      2.94  62 eP     20 16.02   -1.8
CDD      3.05 205 eP     20 18.36   -1.0
WRH      3.10  25 ePc    20 17.77   -2.2
GLB      3.53  91 eP     20 23.29   -2.7
TGL      4.14 100 eP     20 33.16   -1.5
BALM     4.30  95 eP     20 34.37   -2.5
        44 obs. associated
-----------------------------------------
%  JUL  24, 1991  06h 22m 35.17± 0.63s
   47.071 N ± 7.1km     0.402 E ± 7.8km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                             (538)
      ML 3.0 (LDG).

MFF      0.60 219 Pg     22 46.00   -1.3
                  Sg     22 52.90
LSF      1.13 136 Pg     22 56.50    0.2
                  Sg     23 11.20
LPF      1.37 315 Pn     23 00.60    0.3
                  Pg     23 01.40
                  Sg     23 20.10
TCF      1.47 122 Pg     23 03.20    1.5
                  Sg     23 21.90
LDF      1.56 347 Pn     23 03.50    0.5
                  Pg     23 05.30
                  Sg     23 26.20
GRR      1.57 328 Pn     23 03.40    0.3
                  Pg     23 05.10
                  Sg     23 25.80
MAF      1.72 119 Pg     23 07.70    2.4X
                  Sg     23 28.80
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BGF      1.76 106 Pg     23 08.50    2.7X
                  Sg     23 30.30
FLN      1.79 341 Pn     23 06.00   -0.4
                  Pg     23 10.00
                  Sg     23 32.40
RJF      1.93 156 Pg     23 09.80    1.4
                  Sg     23 34.90
AVF      2.04  97 Pn     23 08.30   -1.7
                  Pg     23 12.60
                  Sg     23 38.40
SSF      2.12  89 Pg     23 14.10    3.0X
                  Sg     23 42.20
LFF      2.15 174 Pg     23 15.40    3.9X
                  Sg     23 41.50
LOR      2.37  84 Pg     23 18.30    3.6X
                  Sg     23 49.20
SMF      2.40  99 Pn     23 14.20   -0.9
                  Pg     23 19.40
                  Sg     23 49.00
CAF      2.44 151 Pg     23 19.40    3.7X
                  Sg     23 50.90
LBF      2.45  91 Pg     23 19.30    3.5X
                  Sg     23 51.20
LPO      2.45 167 Pg     23 20.30    4.5X
                  Sg     23 52.00
      S.D. = 1.2  on  10 of  18 obs.
-----------------------------------------
&  JUL  24, 1991  06h 42m 31.95s
   60.742 N          146.708 W
   DEPTH =  14.9km
 SOUTHERN ALASKA                    (  2)
      <AEIC>. ML 2.5 (AEIC).

GLI      0.23 306 iPc    42 37.14   -0.2
                  eS     42 41.80
VZW      0.33  13 iPd    42 38.67   -0.3
                  eS     42 44.30
HIN      0.36 164 iPc    42 39.37   -0.2
                  eS     42 45.91
VLZ      0.43  25 iPd    42 40.08   -0.6
                  eS     42 46.71
CVA      0.51 112 iPc    42 41.62   -0.5
KNIM     0.64 233 iPc    42 43.30   -1.1
                  eS     42 52.45
SGAM     0.78 107 ePc    42 45.96   -0.7
                  eS     42 58.02
KLU      0.85  27 iPd    42 46.65   -1.2
                  eS     42 57.84
LTI      0.91 219 iPd    42 47.60   -1.2
                  eS     43 01.16
RAGM     1.07 109 iPc    42 50.85   -0.7
KNK      1.08 309 iPc    42 50.86   -1.0
                  eS     43 05.49
HMT      1.28 108 eP     42 53.45   -1.7
TOA      1.39  10 eP     42 55.94   -0.9
TZL      1.45  25 eP     42 56.83   -0.7
PLRM     1.45 307 iPc    42 56.31   -1.3
                  eS     43 15.43
PMS      1.48 291 ePc    42 56.91   -1.1
GHO      1.49 315 iPc    42 57.18   -1.0
SEW      1.50 246 ePd    42 56.54   -1.8
GLB      1.57  62 iPc    42 57.91   -1.5
                  eS     43 18.28
SLKM     1.75 264 iPd    43 00.43   -1.5
CROM     1.75  88 ePc    43 00.39   -1.7
PWA      1.79 302 ePc    43 01.89   -0.5
SDG      1.88  17 ePd    43 03.05   -0.7
TGL      1.90  88 ePd    43 02.32   -1.9
WAX      1.93  97 eP     43 02.30   -2.2
SUA      2.09 292 eP     43 05.62   -1.3
BALM     2.15  80 ePc    43 05.85   -2.0
PAX      2.31  14 eP     43 09.74   -0.4
CUT      2.38 316 eP     43 11.06    0.0
CNPM     2.57 244 iPc    43 11.46   -2.3
SKT      2.63 300 ePc    43 12.92   -1.7
CGLM     2.64 285 eP     43 12.58   -2.2
SPU      2.64 282 eP     43 13.24   -1.6
NCG      2.73 286 eP     43 13.77   -2.3
CKL      2.78 282 eP     43 14.70   -2.1
RDT      2.81 269 iPc    43 14.50   -2.7
DFR      2.95 270 ePc    43 16.40   -2.7
REF      2.97 268 ePc    43 13.81   -5.6
RDN      2.99 268 eP     43 16.65   -3.1
NCT      3.07 269 ePc    43 18.17   -2.7
        40 obs. associated
-----------------------------------------
%  JUL  24, 1991  06h 43m 58.79± 0.59s
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   40.410 N ± 5.0km   23.300 E ± 5.1km
   DEPTH =  10.0km  (geophysicist)
 GREECE                                  (364)
      ML 1.7 (THE).

THE      0 34 311 ePd    44 05.24  -0.5
                  eS     44 14.16
SOH      0.41   6 ePc    44 07.08  -0.2
OUR      0.53  98 ePd    44 09.68   0.2
                  eS     44 17.36
PAIG     0.56 149 ePc    44 09.76  -0.4
LIT      0.69 244 ePc    44 12.88   0.4
SRS      0.74  17 ePd    44 13.68   0.4
                  eS     44 24.16
KNT      0.81 338 ePc    44 14.36  -0.2
                  eS     44 26.36
GRG      0.87 309 ePc    44 16.00   0.4
                  eS     44 28.40
      S.D. = 0.4  on   8 of   8 obs.
-----------------------------------------
&  JUL  24, 1991  07h 06m 56.41s
   63.240 N          151.471 W
   DEPTH =  10.5km
 CENTRAL ALASKA                          (  1)
      <AEIC>. ML 2.8 (AEIC).

KTH      0.40  38 iP     07 04.01  -0.6
TRF      0.57  68 eP     07 07.66  -0.5
                  eS     07 16.48
HUR      0.87 107 eP     07 13.29   0.1
                  eS     07 25.53
CUT      1.00 146 iP     07 15.81   0.5
RND      1.19  81 eP     07 18.73   0.1
                  eS     07 35.80
MCK      1.24  65 eP     07 19.26  -0.2
SKT      1.26 181 eP     07 19.19  -0.7
                  eS     07 35.69
                  eS     07 35.73
BWN      1.29  43 eP     07 21.29   1.0
                  eS     07 39.24
NEA      1.71  37 eP     07 24.04  -2.3
PWA      1.76 154 eP     07 27.33   0.3
SUA      1.81 169 eP     07 27.89  -0.1
GHO      1.89 140 eP     07 29.31   0.3
                  eS     07 54.80
WRH      1.94  49 eP     07 28.86  -0.8
CGLM     1.96 188 eP     07 29.36  -0.6
PLRM     1.98 146 eP     07 30.13  -0.1
BGL      2.03 193 eP     07 31.12   0.0
SPU      2.08 188 iP     07 31.40  -0.4
TTA      2.09 263 eP     07 28.35  -3.6
CKL      2.09 192 eP     07 32.09   0.1
CCB      2.15  47 eP     07 30.20  -2.5
PMS      2.19 155 eP     07 33.66   0.3
KNK      2.31 141 eP     07 35.66   0.6
FBA      2.32  42 eP     07 36.49   1.3
NKA      2.51 177 eP     07 41.45   3.7
TOA      2.70 113 eP     07 41.08   0.5
RDT      2.71 190 eP     07 41.51   0.7
DFR      2.72 193 eP     07 41.24   0.3
PAX      2.74  93 eP     07 40.94  -0.3
NCT      2.78 195 eP     07 41.68  -0.1
RDN      2.80 193 eP     07 42.76   0.6
SLKM     2.81 167 eP     07 42.67   0.6
SDG      2.81 102 eP     07 42.72   0.6
REF      2.82 192 eP     07 43.12   0.6
RDW      2 84 194 eP     07 42.76   0.0
RSO      2.85 193 eP     07 43.71   0.8
SVW      2.89 224 eP     07 45.79   2.5
IMA      2.99 342 eP     07 42.23  -2.6
TZL      3.04 111 eP     07 45.51   0.2
KLU      3.12 122 eP     07 47.33   0.7
VZW      3.18 131 iP     07 45.24  -2.2
VLZ      3.21 129 eP     07 47.78   0.1
KNIM     3.40 147 eP     07 49.26  -1.2
LTI      3.64 150 eP     07 52.97  -1.0
GLB      4.00 113 eP     07 59.52   0.5
        44 obs. associoted
-----------------------------------------
*  JUL  24, 1991  09h 26m 58.61± 0.70s
   21.499 N ±13.1km   93.719 E ±12.2km
   DEPTH =  33.0km  (normal)
   4.3mb (  4 obs.)
 BURMA                                   (296)

SHL      4.39 338 eP     28 07.50   2.7
                  iS     28 54.50
CHG      5.59 118 ePn    28 20.00  -1.6
                  eSg    29 52.00
BDT      6.54 129 eP     28 39.10   4.1X
GUN      9.57 313 P      29 17.10  -0.4
PKI      9.68 310 P      29 19.08   0.0
KKN      9.90 311 P      29 21.44  -0.6
DMN      9.92 310 P      29 21.64  -0.6
GKN     10.49 310 P      29 28.50  -1.4
         0.3s    48.00nm          6.2mb X
KOD     19.21 237 eP     31 24.00   0.9
WRA     57.22 133 P      36 46.00   0.7
         0.6s     1.00nm          4.0mb
WR2     57.24 133 eP     36 46.60   1.2
         0.6s     2.50nm          4.4mb
                   e     36 59.40
HFS     66.66 328 eP     37 47.70  -0.3
         0.4s     4.10nm          4.9mb
NB2     67.83 329 P      37 54.80  -0.6
         0.6s     1.30nm          4.2mb
      S.D. = 1.3  on  12 of  13 obs.
-----------------------------------------
   JUL  24, 1991  09h 36m 37.34± 0.12s
   32.229 N ± 2.7km  138.766 E ± 2.7km
   DEPTH = 245.0km  (  5 depth phases)
   5.1mb ( 74 obs.)
 SOUTH OF HONSHU, JAPAN                  (211)
      CENTROID, MOMENT TENSOR            (HRV)
      Data Used: GDSN
      L.P.B.: 10S, 20C
      Centroid Location:
      Origin Time        09:36:39.7 0.9
      Lat 32.29N 0.10 Lon 138.75E 0.13
      Dep 247.5 6.6 Half-duration  1.7
      Moment Tensor;   Scale 10**16 Nm
        Mrr= 0.27 0.88  Mtt=-1.29 1.54
        Mff= 1.02 1.40  Mrt=-4.54 1.02
        Mrf=-7.70 1.00  Mtf= 1.85 1.09
       Principal Axes:
        T  Val= 10.14  Plg=42  Azm=120
        N       -2.31      1       211
        P       -7.83     48       302
      Best Double Couple:Mo=9.0*10**16
       NP1:Strike=193 Dip= 3 Slip=-108
       NP2:        31     87       -89

WKYJ     3.32 308 P      37 34.70   1.2
                  S      38 18.30
IIDJ     3.32 348 iP+    37 32.70  -0.8
                  S      38 14.10
CHJJ     3.81   3 iPd    37 37.00  -2.2
                  S      38 22.80
TSRJ     4.03 326 iP+    37 42.50   0.8
                  S      38 32.80
KAKJ     4.13  16 P      37 37.60  -5.3X
                  S      38 23.70
MAT      4.33 354 iPd    37 43.50  -1.8
                  eS     38 35.00
TKSJ     4.33 295 P      37 46.40   1.1
                  S      38 41.60
MTMJ     4.42 350 P      37 45.30  -1.2
NIIJ     5.00   2 P      37 50.10  -3.4X
                  S      38 46.00
YONJ     5.31 305 P      37 59.00   1.6
                  S      39 03.00
SHK      5.59 296 iPc    38 02.70   1.9
         0.8s   146.27nm          5.0mb
YAMJ     6.02  10 P      38 01.90  -4.3X
                  eS     39 09.80
SHNJ     6.69 288 P      38 16.80   2.1
KUMJ     6.72 275 P      38 18.70   3.6X
                  S      39 37.30
KAGJ     6.79 263 P      38 18.40   2.4
OFUJ     7.23  18 P      38 15.90  -5.6X
                  S      39 31.00
AOMJ     8.41   8 eP     38 33.40  -3.2X
MRRJ    10.34  10 P      38 56.90  -4.2X
                  eS     40 46.90
HOOJ    10.75  18 P      39 01.30  -5.0X
                  eS     40 53.50
KUSJ    11.82  22 P      39 14.80  -5.0X
                  eS     41 17.50
ASAJ    12.25  13 P      39 20.30  -4.8X
                  eS     41 29.20
SSE     15.02 270 eP     39 53.00  -6.1X
         1.0s    74.00nm          5.1mb
      Z  16s     0.40um          4.5Msz
      N  12s     0.30um
      E  12s     0.50um
SNY     15.44 313 iPd    40 02.80  -1.3
         1.2s    70.00nm          5.0mb
      Z  13s     0.50um          4.4MszX
DL2     15.45 300 Pd     40 05.00   0.7
      Z  14s     0.30um
CN2     15.58 322 P      40 03.80  -2.1
         4.0s    30.00nm          4.1mb X
      Z  15s     1.70um          4.1Msz
      N  10s     0.30um
      E  10s     0.30um
                  epP    40 08.50
                  eS     42 52.00
NJ2     16.87 275 Pc     40 20.50   0.0
         1.0s   100.00nm          5.2mb
TIA     18.33 288 eP     40 35.10  -0.7
PJG     19.38 162 eP     40 45.50  -1.1
GUA     19.44 162 eP     40 45.50  -1.7
         0.5s   123.94nm          5.7mb
BJI     19.81 300 eP     40 50.00  -0.7
         1.5s   440.00nm          5.8mb
                  ePP    41 24.00
                  eS     44 20.00
                  eScP   48 11.00
                  eScS   51 53.00
WHN     20.90 272 iPc    41 03.00   1.4
         0.7s    60.00nm          5.2mb
TIY     22.23 292 eP     41 15.20   0.7
         0.8s    30.00nm          4.9mb
HHC     23.42 299 P      41 26.00   0.1
         1.2s   200.00nm          5.5mb
      Z  13s     0.60um          4.2MszX
                   S     45 11.50
                   sS    45 27.00
BTO     24.52 298 P      41 36.00  -0.1
XAN     25.02 282 Pd     41 40.00  -0.7
GYA     28.50 267 eP     42 11.00  -1.3
LZH     29.06 287 eP     42 15.00  -2.2
         2.0s    49.00nm          4.8mb
CD2     29.78 277 eP     42 22.00  -1.4
YAK     30.37 352 eP     42 26.60  -1.5
                  epP    42 46.00  84kmX
                  ePP    43 38.00
                  ePPP   44 00.00
                  ePcP   45 06.00
                  e      47 09.00
                  eS     47 43.00
                  iScS   52 33.00
IRK     31.99 319 ePd    42 42.10  -0.3
                  e      43 10.00 128kmX
                  e      59 34.10
GTA     32.20 294 Pd     42 43.60  -0.9
         0.8s    20.00nm          4.8mb
                  pP     43 32.60 243km
                  PP     43 59.50
                  sP     44 04.00
                  PcP    45 29.60
                  ScP    48 47.80
                  ScS    52 44.80
CHG     38.12 259 eP     43 35.00   0.4
WMQ     41.26 301 P      44 00.00  -0.2
         1.5s   100.00nm          5.0mb
                  pP     44 49.50 235km
                  sP     45 15.50
                  PP     45 39.50
                  PcP    45 53.50
                  ScP    49 21.00
                  S      49 56.50
PMG     42.17 168 eP     44 07.00  -0.6
PKI     46.10 279 P      44 39.30  -0.1
HNR     46.11 150 eP     44 40.00   1.0
KKN     46.14 279 P      44 39.76   0.2
         0.9s   129.00nm          5.2mb
DMN     46.34 279 P      44 41.40   0.2
GKN     46.61 280 P      44 43.42   0.3
         0.9s    82.00nm          5.1mb
ANM     46.84  29 eP     44 44.30   0.1
KNA     48.66 193 eP     44 58.00  -0.6
SVW     50.66  35 eP     45 14.40   0.9
         1.0s    20.00nm          4.5mb
BRW     51.68  22 eP     45 21.30   0.4
IMA     51.93  29 eP     45 22.80  -0.2
         1.1s    22.80nm          4.5mb
WR2     52.05 185 iPd    45 22.00  -2.2
         0.4s   116.40nm          5.7mb
                  epP    46 12.00 226kmX
                  iPcP   46 33.50
```

24d 09h

			iScP	50 06.80	
			eS	52 30.00	
KDC	52.21	39	eP	45 23.40	-1.5
OIS	52.49	179	iPc	45 26.00	-1.4
CTAO	52.51	171	ePc	45 26.50	-1.0
NDI	52.54	283	iPd	45 28.60	0.8
	0.6s		73.33nm		5.3mb
PMR	53.80	34	eP	45 37.00	0.5
FBA	54.33	30	eP	45 40.00	-0.4
ASPA	55.77	185	iPd	45 49.50	-1.7
	0.5s		80.90nm		5.5mb
			eS	53 17.00	
HYB	55.95	270	ePc	45 52.50	-0.2
	1.0s		500.00nm		6.0mb
BALM	57.10	35	eP	45 59.60	-0.7
GBA	58.71	267	Pd	46 11.00	-0.8
	0.6s		34.20nm		5.2mb
RMO	59.16	170	iPc	46 17.20	2.6
	0.9s		71.00nm		5.3mb
WARB	59.23	193	eP	46 15.00	-0.1
	0.6s		25.00nm		5.0mb
INK	59.65	25	iPd	46 16.60	-0.9
DZM	60.14	150	iPc	46 22.40	0.9
OUE	60.36	289	eP	46 22.20	-0.9
MBC	61.73	15	iPd	46 30.90	-0.5
	0.5s		38.00nm		5.3mb
FORR	63.54	190	iPd	46 43.00	-0.7
	0.3s		16.00nm		5.2mb
COO	63.69	167	iPd	46 44.60	-0.2
	0.7s		8.00nm		4.6mb
CMS	63.72	173	iPc	46 44.60	-0.3
	0.9s		17.00nm		4.8mb
MAIO	63.88	298	iPc	46 46.80	0.7
	0.8s		9.15nm		4.6mb
KBS	65.01	350	iPd	46 53.00	0.3
BAL	65.90	201	eP	46 57.80	-1.1
ADE	66.84	180	e(P)	47 04.90	0.2
BWA	66.92	171	eP	47 05.80	0.5
CAN	67.88	171	eP	47 11.60	0.4
NWAO	67.92	199	eP	47 11.00	-0.4
	0.5s		19.00nm		5.1mb
YKA	69.06	28	eP	47 16.60	-1.5
	0.6s		1.80nm		4.0mb X
BFD	69.14	177	eP	47 16.00	-2.7
	0.9s		37.00nm		5.1mb
RKG	69.52	199	eP	47 21.30	0.1
TOO	69.72	174	iPd	47 23.20	0.8
	0.9s		44.00nm		5.2mb
TEH	70.12	300	eP	47 14.00	-11.2X
OBN	70.63	323	iP	47 27.00	-0.7
			e	47 42.00	54kmX
			e	48 26.00	
IR4	70.69	300	iPc	47 08.50	-20.2X
PGC	71.27	44	eP	47 32.00	0.4
KAF	71.57	333	iP	47 32.50	-0.7
	0.5s		33.80nm		5.3mb
NUR	73.15	332	iP	47 42.00	-0.4
PNT	73.16	42	eP	47 43.00	0.2
FHC	74.68	51	eP	47 52.80	1.2
NEW	75.12	42	eP	47 54.00	0.0
	1.0s		4.50nm		4.2mb
WDC	75.74	51	ePc	47 58.20	0.6
MIN	76.47	51	eP	48 01.50	-0.4
ORV	76.95	51	eP	48 04.30	0.0
SES	77.26	38	ePc	48 05.80	0.0
BRK	77.30	53	eP	48 06.70	0.5
BKS	77.32	53	iPc	48 06.80	0.5
	0.7s		42.00nm		5.3mb
			iPcP	48 20.60	
PCC	77.41	54	eP	48 07.30	0.5
HFS	77.54	335	eP	48 06.50	-0.6
	0.6s		64.60nm		5.5mb
NB2	77.75	337	P	48 07.60	-0.7
	0.6s		46.50nm		5.4mb
GCC	77.91	54	eP	48 10.80	1.2
MHC	78.00	53	ePc	48 10.70	0.5
CMB	78.48	52	ePc	48 13.30	0.5
PRS	78.71	54	eP	48 14.80	0.8
CNZ	78.85	152	P	48 15.80	1.2
LLA	78.85	54	eP	48 15.70	1.0
NGZ	78.85	152	P	48 15.70	1.1
FFC	78.93	31	eP	48 15.00	0.3
	0.8s		10.00nm		4.6mb
LRM	79.13	42	eP	48 16.90	0.5
PRI	79.29	54	eP	48 18.30	1.1
KAS	79.38	312	eP	48 04.50	-13.0X
FRI	79.49	53	ePc	48 18.40	0.3
KIW	80.03	153	P	48 20.40	-0.3
THZ	80.06	155	P	48 20.90	0.0
TCW	80.09	154	P	48 20.80	-0.1
MRW	80.27	153	P	48 21.90	0.0
CAW	80.30	153	P	48 22.20	0.1
PGZ	80.35	152	P	48 22.90	0.6
WDW	80.41	153	P	48 22.60	0.0
MTW	80.51	153	P	48 23.20	0.0
CCW	80.53	154	P	48 22.30	-1.0
TNP	80.56	51	iP	48 24.70	0.7
	1.0s		25.00nm		4.9mb
BSD	80.62	331	iPd	48 23.30	-0.3
	0.4s		14.00nm		5.0mb
LTZ	80.73	156	P	48 26.00	1.7
KHZ	80.86	155	P	48 24.60	-0.3
VRI	80.94	319	ePc	48 25.50	0.0
MSZ	81.01	159	P	48 26.90	1.3
ISA	81.05	54	eP	48 26.00	-0.4
CLC	81.56	53	eP	48 29.00	0.0
MLR	81.60	319	ePc	48 29.00	-0.2
KRA	81.82	325	eP	48 30.50	0.5
	0.8s		61.00nm		5.4mb
SBB	82.03	54	eP	48 32.00	0.5
EYL	82.08	313	eP	48 32.60	0.9
PAS	82.09	55	eP	48 32.00	0.3
MWC	82.12	55	eP	48 32.00	-0.2
GPA	82.15	313	eP	48 29.00	-3.0X
HRT	82.23	314	eP	48 32.00	-0.4
SPC	82.24	324	iP	48 33.80	1.3
GSC	82.38	53	eP	48 33.00	-0.4
GBZT	82.39	314	iPd	48 40.00	6.9X
ITU	82.46	314	iPc	48 48.00	14.5X
BW06	82.61	44	iP	48 34.10	-0.5
	1.0s		6.25nm		4.3mb
RVR	82.72	54	eP	48 35.00	0.0
PEC	82.93	54	iP	48 36.30	0.2
KSP	83.00	327	iPd	48 36.70	0.7
	0.7s		86.00nm		5.6mb
			i	48 49.50	43kmX
PLM	83.43	55	eP	48 39.00	0.1
TPC	83.57	54	eP	48 39.00	-0.3
KHL	83.80	312	eP	48 33.70	-6.7X
BAR	83.94	55	eP	48 42.00	0.8
BRG	84.03	328	iPd	48 41.60	0.4
	0.9s		40.00nm		5.2mb
CLL	84.13	329	iPd	48 41.90	0.2
	1.0s		78.00nm		5.5mb
			ipP	49 40.90	245km
PRU	84.39	328	P	48 43.50	0.4
	1.0s		19.30nm		4.9mb
			e	49 43.00	247km
ZST	84.45	325	iP	48 43.80	0.4
ELL	84.48	310	eP	48 29.00	-15.0X
RSSD	84.88	40	eP	48 46.20	0.3
GLA	85.01	54	eP	48 47.00	0.5
IZM	85.17	313	eP	48 47.00	-0.3
MOX	85.22	329	iPc	48 47.50	0.3
	1.6s		29.00nm		4.9mb
KHC	85.45	327	iPd	48 48.50	0.1
	1.0s		10.70nm		4.6mb
			e	49 51.50	263kmX
GRF	86.09	329	ePd	48 52.20	0.7
	1.1s		24.00nm		4.9mb
			e(pP)	49 53.60	255km
VAY	86.14	317	iP	48 51.70	-0.2
SKO	86.36	318	iP	48 53.70	0.8
EKA	86.89	339	Pc	48 55.70	0.5
	1.3s		33.40nm		5.0mb
CDF	88.76	330	eP	49 04.00	-0.4
	1.0s		12.00nm		4.8mb
ALO	89.38	48	eP	49 08.00	0.3
	1.0s		2.75nm		4.1mb
BSF	89.41	330	eP	49 07.00	-0.5
	0.9s		54.85nm		5.5mb
HAU	89.46	330	eP	49 06.30	-1.3
	1.0s		8.00nm		4.6mb
	Z 20s		0.17um		4.5Msz
AKSR	89.96	298	eP	49 28.00	17.7X
LOR	91.08	331	eP	49 14.50	-0.6
	1.0s		15.00nm		4.9mb
	Z 20s		0.20um		4.6Msz
LPL	91.24	329	eP	49 16.00	-0.1
	0.6s		16.25nm		5.2mb
LPG	91.24	328	iPd	49 16.00	-0.2
	0.6s		21.65nm		5.3mb
LBF	91.26	331	eP	49 15.40	-0.5
	1.2s		20.85nm		5.0mb
SSF	91.39	331	eP	49 16.40	-0.1
	1.1s		24.40nm		5.1mb
FLN	91.54	334	iPd	49 17.00	-0.1
	0.7s		15.05nm		5.1mb
	Z 20s		0.13um		4.4Msz
LDF	91.55	334	eP	49 17.00	-0.2
	1.0s		40.00nm		5 4mb
SMF	91.59	331	eP	49 17.00	-0.4
	1.1s		29.30nm		5.2mb
AVF	91.67	331	iPd	49 17.90	0.2
	1.1s		53.70nm		5.5mb
GRR	91.99	334	iPd	49 19.20	0.0
	0.8s		53.75nm		5.6mb
BGF	92.06	331	eP	49 19.60	0.0
	1.0s		18.00nm		5.1mb
LPF	92.36	334	iPd	49 21.10	0.2
	0.7s		39.70nm		5.6mb
MAF	92.45	331	eP	49 21.90	0.5
	0.6s		13.55nm		5.2mb
TCF	92.54	331	iPd	49 21.80	0.0
	0.8s		23.50nm		5.3mb
LSF	92.85	332	iPd	49 23.40	0.2
	0.7s		41.90nm		5.6mb
MFF	93.21	333	iPd	49 25.90	1.0
	1.0s		44.00nm		5.5mb
RJF	93.62	331	iPd	49 26.80	0.0
	1.0s		44.00nm		5.5mb
	Z 20s		0.17um		4.5Msz
CAF	93.71	331	iPd	49 27.80	0.6
	1.0s		20.00nm		5.2mb
LFF	94.24	332	iPd	49 30.20	0.6
	0.7s		30.85nm		5.6mb
LPO	94.27	331	eP	49 30.60	0.8
	0.8s		10.75nm		5.1mb
TUL	95.11	42	eP	49 33.60	-0.2
	0.8s		5.60nm		4.8mb
NPA	105.82	262	iPKP	54 52.40	18.7X
PTZ	112.08	267	iPKPc	54 52.00	6.4X
			i	56 04.00	
LSZ	115.24	267	iPKPc	55 06.80	15.0X
KMZ	116.36	270	iPKPc	54 58.90	5.0X
			i	57 14.10	
SPA	122.06	180	iPKPd	55 22.90	19.7X
	0.8s		12.50nm		
			i	04 43.20	
TIC	128.19	312	PKP	55 02.56	-14.0X
	1.0s		50.00nm		
KIC	128.23	311	PKPc	55 02.64	-13.9X
	0.8s		96.00nm		
LIC	128.52	311	PKP	55 04.86	-12.2X
	0.8s		72.50nm		
ARE	148.42	67	ePKP	55 58.00	4.8X
ZOBO	150.90	63	iPKPc	56 04.20	6.9X
	0.8s		15.05nm		
LPB	151.08	64	PKP	56 05.00	7.6X
SIV	155.79	53	PKP	56 04.20	0.7
SOB1	157.09	359	(PKP)	56 19.00	13.8X
			e	56 36.70	

S.D. = 0.9 on 173 of 205 obs.

JUL 24, 1991 09h 45m 41.89± 0.15s
36.520 N ± 3.2km 44.066 E ± 1.9km
DEPTH = 25.5km (9 depth phases)
5.4mb (90 obs.) 5.1Msz (17 obs.)
IRAN-IRAQ BORDER REGION (346)

At least 20 people killed, mony injured; at leost 100 houses destroyed and many damoged in the Arbil-Dibs areo, Iraq. Felt at Mahabad and Piranshahr, Iran.

CENTROID, MOMENT TENSOR (HRV)
Data Used: GDSN
L.P.B.: 21S, 43C
Centroid Location:
Origin Time 09:45:46.4 0.6
Lat 36.40N 0.06 Lon 43.77E 0.05
Dep 15.0 BDY Half-duration 2.2
Moment Tensor; Scale 10**17 Nm
Mrr= 1.91 0.06 Mtt=-0.93 0.09
Mff=-0.99 0.07 Mrt= 0.80 0.21
Mrf= 0.35 0.20 Mtf= 1.08 0.07
Principal Axes:
T Val= 2.25 Plg=69 Azm=326
N -0.19 21 132
P -2.06 5 224
Best Double Couple:Mo=2.2*10**17
NP1:Strike=335 Dip=44 Slip= 121

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        NP2:        116      53        64
MSL      0.75 260 iPgc  45 56.00  -0.3
                  iSg   46 07.00
SLY      1.48 128 iPnd  46 10.50   3.4X
                  iSn   46 32.00
TAB      2.37  49 iPc   46 22.60   2.5X
                  i     46 44.90
BHD      3.25 175 iPnc  46 35.00   2.7X
                  iP+   46 40.00
IR7      5.36  97 iPc   47 03.50   1.1
IR5      5.45 102 eP    47 05.50   1.8
IR1      5.48 100 iPc   47 06.00   1.8
GAZ      5.54 279 eP    47 03.70  -1.1
BHL      7.36 252 Pd    47 30.00  -0.6
HRI      7.57 247 eP    47 33.50   0.0
KVT      7.74 308 eP    47 38.10   2.3
JARJ     7.95 240 Pd    47 37.89  -0.9
MDSJ     8.11 235 Pd    47 40.62  -0.4
ATZ      8.13 246 eP    47 42.00   0.8
                  eS    50 03.00
CSTJ     8.17 231 Pd    47 39.37  -2.5X
FAM      8.32 262 eP    47 48.00   4.2X
KFNJ     8.36 239 P     47 43.22  -1.1
MASJ     8.41 238 P     47 44.54  -0.6
GHZJ     8.76 230 Pc    47 49.08  -1.0
CSS      8.87 263 eP    47 53.50   2.1
PPCY     9.67 264 eP    48 09.00   6.5X
PRNI     9.76 233 eP    48 03.60  -0.2
MBH     10.22 231 eP    48 09.40  -0.8
HOL     10.47 229 iPc   48 10.00  -3.4X
                  eS    50 25.00
MJMA    10.68 174 iPc   48 11.30  -5.1X
                  eS    50 27.00
DHR     11.43 151 iPc   48 25.00  -1.5
                  eS    50 40.00
RYD     11.96 169 iPc   48 32.00  -1.8
                  eS    50 44.00
MAIO    12.43  86 eP    48 42.00   1.8
        0.9s    38.36nm          5.6mb
                  eS    52 35.00
HLW     12.55 242 eP    48 43.50   1.9
                  eS    52 07.50
PRK     14.32 286 eP    49 08.50   3.6X
TLB     14.59 308 eP    49 14.00   5.5X
KDZ     15.35 295 iP    49 21.00   2.5X
DIM     15.37 297 iP    49 20.00   1.4
BUC1    15.78 305 ePd   49 26.00   2.1
                  e     54 36.00
ISR     15.79 308 ePd   49 25.50   1.4
PVL     15.85 301 iPd   49 28.00   3.2X
RZN     15.87 295 iPd   49 27.00   1.6
PLD     15.98 296 iPd   49 28.00   1.5
VRI     16.02 311 ePc   49 26.50  -0.5
AGAL    16.26 220 eP    49 32.00   1.8
ATH     16.27 281 eP    49 34.00   3.8X
AGMR    16.32 221 eP    49 32.00   1.1
PGB     16.48 298 iPd   49 35.00   2.1
MMB     16.58 294 iPd   49 36.00   1.8
PTT     16.77 314 eP    49 37.00   0.5
VLI     16.97 277 eP    49 40.00   1.0
VTS     17.17 297 iPd   49 44.00   2.3
VAY     17.39 293 iP    49 46.50   2.2
KZN     17.87 289 iPd   49 52.70   2.4
ABHA    18.24 184 ePc   49 56.00   0.8
                  eS    52 05.00
SKO     18.33 294 iPc   49 57.20   1.2
        7.5s  3216.00nm          5.6mb X
      Z  13s    13.58um          5.0Msz
      N  15s    13.93um
      E  13s    12.90um
                  iPP   50 16.00
                  i     51 16.00
                  i     52 08.00
                  iS    53 25.50
                  iSS   53 53.00
                  iPcP  54 25.00
                  i     55 02.20
DEV     18.42 307 ePc   49 58.00   1.0
VLS     18.73 282 eP    50 00.30  -0.6
BMR     18.84 313 ePd   50 04.00   1.9
OBN     19.28 347 iPc   50 04.60  -2.7X
      Z  12s    22.00um
      N  13s    16.30um
      E  12s     5.30um
                  i     50 17.00  55kmX
                  ePP   50 26.00
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                  i     50 30.00
                  ePPP  50 32.00
                  e     50 42.00
                  i     51 00.00
                  iS    53 38.00
                  iSS   53 58.00
                  eSSS  54 15.00
                  i     54 50.00
KEK     19.34 287 eP    50 07.00  -1.3
CEI     19.46 312 eP    50 14.00   4.5X
PVY     19.51 296 iPc   50 09.72  -0.6
IVA     19.62 296 iPc   50 11.23  -0.2
BEO     19.69 302 iP    50 10.50  -1.5
ULC     19.94 293 iPc   50 12.28  -2.5X
TTG     20.00 295 iPc   50 13.62  -1.7
      Z  12s    10.10um          5.4MszX
                  iS    54 06.40
PLE     20.07 297 iPc   50 16.00  -0.1
QUE     20.11 102 Pc    50 17.70   0.9
                  eS    54 04.70
                  e     56 58.00
NKY     20.26 296 iPc   50 16.85  -1.3
BDV     20.30 294 iPc   50 15.73  -2.7X
HCY     20.56 295 iPc   50 19.13  -2.1
BRY     20.60 296 iPc   50 20.05  -1.7
LCI     20.78 289 P     50 20.60  -2.8X
PSZ     21.13 310 iPd   50 26.70  -0.3
SPC     21.46 314 eP    50 27.50  -3.0X
                  e     13 23.40
UZD     21.48 306 eP    50 28.00  -2.5X
BUD     21.50 308 e(P)  50 31.00   0.3
KRA     22.05 315 eP    50 35.30  -0.8
        1.5s   195.00nm          5.3mb
      Z  16s     3.10um          4.8MszX
      E  16s     5.00um
                  i     50 36.60   5kmX
                  e     50 40.00
                  i     50 44.80
                  eS    54 44.00
CSI     22.05 287 P     50 36.40   0.1
SRO     22.07 309 iP    50 37.80   1.4
HVAR    22.16 296 iP    50 36.80  -0.5
CZI     22.18 285 P     50 37.00  -0.5
MMN     22.28 287 P     50 35.60  -2.9X
MGR     22.61 288 P     50 42.40   0.6
SGO     22.81 289 P     50 44.00   0.3
ZST     22.96 309 iP    50 45.40   0.2
                  e     13 39.70
                  e     16 48.70
                  e     20 09.50
ZAG     22.99 303 iPc   50 47.00   1.5
PTJ     23.03 303 eP    50 46.20   0.2
VBY     23.42 301 eP    50 50.50   0.9
VKA     23.48 309 iPd   50 48.80  -1.4
        3.3s  1059.00nm          5.8mb X
      Z  12s     3.60um          5.1MszX
                  i     50 50.80   7kmX
                  e     55 15.00
                  LR    03 11.00
RIY     23.98 301 eP    50 55.70   0.6
LJU     24.03 303 ePc   50 56.50   0.9
                  eS    55 12.00
CEY     24.04 302 ePc   50 56.00   0.3
AOU     24.31 293 P     51 00.50   2.1
VOY     24.46 302 iP    51 00.40   0.5
KSP     24.48 315 iPc   51 01.00   1.1
        1.4s   173.00nm          5.4mb
                  e     58 12.00
TRI     24.48 301 ePc   51 01.00   1.0
                  e     51 50.00
                  iS    55 28.00
KMR     24.81 307 iP+   51 04.80   1.7
ASS     24.90 295 P     51 05.50   1.4
ARO     24.91 183 eP+   51 11.00   6.7X
KBA     25.06 304 iPc   51 06.00   0.2
        1.1s   256.00nm          5.8mb
RSM     25.14 297 P     51 08.80   2.6X
PRU     25.18 312 P     51 07.00   0.4
      Z  15s     3.80um          5.0MszX
      N  11s     2.50um
      E  15s     2.50um
                  e     51 15.00  28km
                  e     52 10.20
                  eS    55 39.00
KSH     25.25  74 P     51 10.00   2.4
CRE     25.47 296 P     51 10.70   1.2
KHC     25.48 309 iPc   51 09.10  -0.4
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        1.4s    63.10nm          5.1mb
      Z  14s     4.50um          5.1MszX
      N  12s     2.00um
      E  14s     5.80um
                  e     51 15.80  24km
                  S     55 40.00
BHG     25.53 306 eP    51 09.60  -0.3
        1.1s    84.00nm          5.3mb
PGD     25.66 297 P     51 13.30   2.0
BRG     25.86 313 iP    51 12.40  -0.5
        1.7s   100.00nm          5.2mb
                  iS    55 56.00
WET     25.92 309 eP    51 12.50  -1.1
        1.2s    81.00nm          5.2mb
WTTA    26.24 304 iP    51 15.40  -1.4
        0.9s   102.00nm          5.5mb
                  ic    51 16.00   2kmX
                  i     51 41.00
                  i     52 06.70
MME     26.42 297 P     51 20.20   1.7
PII     26.51 296 P     51 19.20   0.2
CLL     26.57 314 iPc   51 20.30   0.8
        1.7s   110.00nm          5.2mb
                  eS    56 06.00
OGA     26.57 303 iPc   51 19.50  -0.3
        1.3s    82.00nm          5.2mb
FUR     26.68 306 eP    51 20.00  -0.6
        1.2s   226.00nm          5.7mb
BRN     26.89 316 eP    51 23.00   0.7
NUR     27.02 339 iP    51 22.70  -0.8
        0.9s    71.00nm          5.3mb
                  eS    56 12.00
GRF     27.12 309 iPc   51 24.40  -0.1
        1.3s   219.00nm          5.6mb
      Z  20s     1.40um          4.5Msz
                  e     51 28.40  14kmX
OSS     27.14 303 ePd   51 25.10   0.2
MOX     27.16 312 iPd   51 25.50   0.5
        1.2s    22.00nm          4.7mb
      Z  15s     2.80um          5.0MszX
      N  18s     3.80um
      E  16s     2.30um
                  iS    56 30.00
BSD     27.23 322 eP    51 24.00  -1.5
        1.0s    46.00nm          5.1mb
AAE     27.79 191 eP    51 35.50   4.3X
KAF     27.91 342 iP    51 30.50  -1.1
LLS     27.94 303 ePd   51 31.20  -1.1
PCP     27.99 298 P     51 30.93  -1.6
CKI     28.17 297 P     51 33.40  -0.7
FIN     28.21 297 P     51 32.87  -1.6
IMI     28.42 296 P     51 36.46   0.0
SLE     28.43 304 ePd   51 35.90  -0.6
ZLA     28.45 304 ePd   51 36.00  -0.7
ROB     28.46 297 P     51 36.36  -0.4
ORX     28.48 300 P     51 36.40  -0.7
MMK     28.54 301 ePd   51 37.40  -0.3
COP     28.74 322 iPc   51 40.00   0.9
        1.1s   101.27nm          5.5mb
ENR     28.78 297 P     51 39.03  -0.6
STV     28.84 297 P     51 39.13  -1.2
NDI     28.89  96 iPd   51 42.00   1.2
DOI     28.91 298 P     51 39.10  -1.8
DIX     28.93 301 ePd   51 40.10  -1.1
RSP     28.95 299 P     51 39.95  -1.3
TNS     28.98 309 ePc   51 40.70  -0.8
PZZ     29.02 297 P     51 39.64  -2.3
LSD     29.04 299 P     51 42.31   0.0
RRL     29.27 298 P     51 43.02  -1.3
LPG     29.33 299 eP    51 45.00   0.1
        0.8s    29.55nm          5.1mb
LPL     29.35 300 eP    51 43.70  -1.3
        1.4s    69.70nm          5.2mb
CDF     29.35 305 eP    51 43.30  -1.5
        1.0s    16.00nm          4.7mb
BNI     29.35 299 P     51 44.20  -0.7
BSF     29.57 304 iPd   51 46.20  -0.6
        1.0s    24.00nm          4.9mb
HAU     29.89 304 iPd   51 49.00  -0.6
        0.8s    16.10nm          4.9mb
      Z  18s     2.00um          4.8Msz
BNS     29.95 311 iPd   51 51.00   0.9
WLF     30.31 308 iPd   52 08.44  15.3X
WTS     30.44 312 eP    51 55.50   1.2
        1.1s    68.00nm          5.4mb
HFS     30.59 330 eP    51 54.20  -1.4
        1.1s    99.30nm          5.6mb
```

24d 09h

Z 17s 2.33um 4.9MszX
LR 04 04.00
ENN 30.68 310 eP 51 56.50 0.1
0.9s 16.00nm 4.8mb
WIT 30.76 314 eP 51 58.00 0.9
SMF 31.44 301 iPd 52 01.70 -1.5
1.2s 41.65nm 5.2mb
DBN 31.45 312 eP 52 04.00 0.9
Z 20s 0.70um 4.3Msz
ePP 53 05.00
eS 57 20.00
e 58 01.00
LOR 31.48 303 iPd 52 02.00 -1.5
0.9s 16.40nm 4.9mb
Z 19s 4.75um 5.2Msz
SSF 31.70 302 iPd 52 04.40 -1.1
1.0s 24.00nm 5.0mb
AVF 31.78 302 iPd 52 04.40 -1.8
1.1s 39.05nm 5.2mb
NB2 32.12 330 P 52 07.20 -1.8
1.2s 47.30nm 5.3mb
BGF 32.12 301 eP 52 07.70 -1.4
1.2s 20.85nm 4.9mb
MAF 32.29 301 iPd 52 09.60 -1.1
1.2s 38.70nm 5.2mb
ESEL 32.34 288 eP 52 11.10 -0.1
SOD 32.46 348 eP 52 12.00 0.1
TCF 32.54 301 iPd 52 12.00 -0.9
1.0s 22.00nm 5.0mb
CAF 32.62 298 iPd 52 13.00 -0.6
1.1s 26.85nm 5.1mb
RJF 33.01 299 iPd 52 16.70 -0.2
1.0s 52.00nm 5.4mb
Z 22s 2.75um 4.9Msz
LPO 33.25 298 eP 52 18.40 -0.6
0.9s 26.20nm 5.2mb
LFF 33.56 298 eP 52 21.30 -0.4
0.8s 37.60nm 5.4mb
WMQ 33.81 64 P 52 25.00 1.0
1.5s 100.00nm 5.5mb
Z 18s 2.30um 4.9Msz
pP 52 32.50 26km
eS 57 47.00
EPF 33.93 295 iPd 52 22.90 -2.1
0.9s 8.20nm 4.7mb
EBR 34.03 291 (P) 52 26.00 0.2
EROO 34.09 291 eP 52 25.90 -0.5
MFF 34.18 301 iPd 52 25.50 -1.6
1.4s 52.30nm 5.3mb
LDF 34.25 305 eP 52 27.50 -0.1
1.1s 34.20nm 5.2mb
FLN 34.50 305 eP 52 29.00 -0.8
0.9s 19.65nm 5.0mb
Z 19s 3.75um 5.1Msz
KEV 34.56 350 iP 52 30.00 0.0
0.7s 16.00nm 5.1mb
eS 57 13.00
GRR 34.73 304 iPd 52 30.40 -1.3
0.9s 68.80nm 5.6mb
LPF 34.83 304 iPd 52 31.10 -1.5
1.1s 58.60nm 5.4mb
ACU 35.08 287 eP 52 34.00 -0.9
GKN 35.13 92 P 52 35.68 0.0
ECHE 35.31 289 eP 52 37.00 0.1
DMN 35.68 92 P 52 40.64 0.3
KKN 35.74 92 P 52 40.92 0.1
TRO 35.87 345 eP 52 40.60 -0.6
HYB 35.89 113 eP 52 42.50 0.6
eS 58 20.00
PKI 35.94 92 P 52 42.68 0.0
ETOR 35.94 291 eP 52 41.00 -1.3
GUN 36.17 92 P 52 44.84 0.2
EVIA 36.66 288 eP 52 48.00 -0.4
ESY 36.79 317 eP 52 48.50 -0.6
1.2s 200.00nm 5.8mb
ENIJ 36.80 285 eP 52 51.00 1.6
EKA 36.98 316 Pc 52 49.90 -0.8
1.1s 70.20nm 5.4mb
EBL 37.00 317 eP 52 50.60 -0.2
0.7s 85.00nm 5.7mb
ESK 37.00 316 eP 52 51.00 0.1
0.8s 80.00nm 5.6mb
EDU 37.14 318 eP 52 51.20 -0.8
EBH 37.35 317 eP 52 53.80 0.0
ELO 37.50 318 eP 52 54.20 -0.9
GUD 37.55 291 eP 52 54.80 -1.0
GBA 37.57 119 Pd 52 55.10 -0.9
0.9s 13.50nm 4.8mb
EBAN 37.75 287 eP 52 57.50 0.1
AFC 37.77 286 eP 52 57.00 -0.7
ECOG 37.78 286 eP 52 57.30 -0.5
EGUA 37.89 285 eP 52 59.00 0.4
NAI 38.20 192 eP 53 08.00 6.4X
ePcS 59 02.40
eSS 02 16.00
MAL 38.57 285 iPc 53 04.00 -0.3
iS 03 54.00
DLF 38.66 312 eP 53 04.80 0.0
1.2s 109.00nm 5.5mb
DMU 38.94 313 eP 53 07.00 -0.2
1.3s 185.00nm 5.7mb
EHOR 38.95 287 eP 53 06.70 -0.7
EPLA 39.10 291 eP 53 08.30 -0.4
DCN 39.11 312 eP 53 09.30 0.7
EJIF 39.46 285 eP 53 11.30 -0.4
LSA 39.71 86 P 53 12.50 -1.9
N 16s 1.80um
IFR 40.05 281 iPc 53 19.00 2.1
EVAL 40.16 287 eP 53 16.70 -0.8
AVE 41.93 281 iP 53 33.00 1.0
i 53 50.00 68kmX
SHL 42.02 91 iP 53 33.00 -0.1
iS 59 52.60
TIO 42.64 278 iP 53 39.00 0.9
i 54 00.40 90kmX
GTA 43.46 69 P 53 45.00 0.4
1.2s 40.00nm 5.1mb
Z 20s 1.50um 4.9Msz
N 13s 1.20um
pP 53 53.00 27km
sP 53 56.20
PP 55 29.00
PcS 59 23.70
KBS 44.50 352 eP 53 53.50 1.1
IRK 44.51 50 iP+ 53 53.00 0.2
e 53 58.70 19km
e 54 15.00
e 54 24.80
ePcP 55 37.10
ePPP 55 58.00
eS 00 30.00
eSS 03 49.00
e 07 11.00
e 09 45.00
AKU 45.97 329 iP 54 05.50 1.3
1.1s 81.01nm 5.6mb
LZH 47.48 72 iPc 54 17.50 0.8
2.0s 210.00nm 5.8mb
Z 34s 2.20um 4.9MszX
N 10s 1.00um
sP 54 25.00
eS 01 10.00
sS 01 20.00
CD2 49.29 78 eP 54 31.30 0.6
1.0s 100.00nm 5.8mb
Z 17s 1.44um 5.0MszX
BTO 50.65 64 P 54 42.00 1.0
5.0s 800.00nm 5.9mb X
Z 12s 0.60um 4.8MszX
N 12s 0.90um
E 12s 0.60um
sP 54 56.00
KMI 50.96 86 Pd 54 43.00 -0.8
2.5s 300.00nm 5.8mb
Z 20s 1.90um 5.1Msz
PP 56 40.00
S 02 00.00
CHG 51.03 95 ePc 54 43.00 -1.1
1.2s 93.75nm 5.6mb
eS 02 04.00
HHC 51.69 63 Pc 54 49.50 0.6
4.0s 700.00nm 5.9mb X
Z 14s 1.80um 5.3MszX
N 10s 0.30um
E 11s 0.70um
pP 54 57.00 25km
sP 55 03.00
PP 56 45.00
BDT 51.92 96 eP 54 48.20 -2.5X
0.9s 102.90nm 5.8mb
XAN 52.09 72 P 54 51.30 -0.7
1.2s 100.00nm 5.6mb
N 12s 1.40um
E 12s 1.00um
pP 55 00.00 29km
KHT 52.95 99 eP 54 58.50 0.0
TIY 53.39 67 Pc 55 01.00 -0.6
1.8s 180.00nm 5.7mb
Z 16s 2.15um 5.3MszX
N 13s 1.00um
S 02 34.00
GYA 53.49 82 P 55 00.60 -2.0
Z 28s 1.50um 4.9MszX
N 18s 3.40um
E 18s 2.10um
PP 57 08.00
S 02 34.00
NST 53.68 97 eP 55 03.60 -0.3
MTD 54.31 195 iPd 55 10.20 1.8
BJI 55.27 63 eP 55 16.00 0.8
2.0s 190.00nm 5.8mb
Z 16s 1.46um 5.2MszX
N 12s 0.93um
YAK 56.55 34 iPd 55 23.60 -0.5
eS 57 32.00
e 00 18.00
TIA 57.43 67 Pd 55 31.30 0.5
1.8s 200.00nm 5.8mb
Z 16s 1.00um 5.0MszX
N 13s 0.90um
E 13s 0.70um
WHN 57.72 74 Pd 55 33.50 0.7
1.5s 200.00nm 5.9mb
Z 16s 0.80um 4.9MszX
E 17s 2.40um
S 03 32.00
BUL 58.22 197 iPd 55 37.40 0.9
CIR 58.42 194 eP 55 43.00 5.2X
GDH 58.96 336 iPd 55 41.00 0.0
1.0s 160.00nm 6.1mb
i 55 49.00 26km
e 10 48.00
DL2 59.60 62 Pc 55 44.00 -1.8
1.0s 330.00nm 6.4mb X
Z 20s 0.60um 4.7Msz
E 13s 1.20um
S 03 56.00
QIZ 59.69 88 P 55 46.00 -0.7
SNY 59.78 58 Pc 55 46.00 -1.0
1.4s 100.00nm 5.8mb
Z 14s 2.10um 5.4MszX
N 11s 0.90um
E 14s 1.40um
eS 03 53.50
CN2 60.26 56 Pc 55 49.00 -1.3
1.0s 40.00nm 5.5mb
Z 15s 5.80um 5.8MszX
N 10s 0.70um
E 10s 0.70um
epP 55 57.00 26km
PP 58 06.00
eS 04 04.00
NJ2 60.50 70 Pd 55 52.00 0.0
1.6s 200.00nm 6.0mb
N 11s 0.70um
E 11s 0.50um
IPM 61.00 107 ePd 55 52.20 -3.5X
0.9s 35.90nm 5.5mb
SSE 62.71 70 iPc 56 06.00 -0.9
1.0s 74.00nm 5.8mb
Z 20s 1.80um 5.2Msz
N 14s 0.70um
E 14s 1.10um
PP 58 24.00
S 04 32.00
SLR 63.68 196 iPd 55 59.50 -14.0X
WIN 64.05 208 iPc 56 18.00 2.0
1.0s 70.00nm 5.7mb
KGM 64.39 108 ePc 56 22.00 3.8X
PRY 65.02 196 iPd 56 26.60 4.5X
1.0s 25.00nm 5.3mb
SEK 66.33 196 eP 56 33.70 3.2X
0.8s 11.19nm 5.0mb
FRB 66.86 333 eP 56 33.00 -0.4
0.8s 68.00nm 5.8mb
MBC 67.01 356 ePc 56 34.00 -0.2
1.0s 20.00nm 5.2mb
HVD 69.01 197 iPc 56 48.70 1.4
0.8s 22.39nm 5.3mb
KUMJ 69.17 64 P 56 48.00 -0.3
SHK 69.48 62 eP 56 50.00 -0.2

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YONJ    69.71  61 eP     56 49.70  -1.9
BAG     69.72  84 eP     56 50.00  -2.1
KAGJ    69.91  66 P      56 52.50  -0.3
TKSJ    70.74  62 eP     56 57.00  -0.9
MRRJ    71.00  51 eP     56 59.00  -0.3
ASAJ    71.06  49 P      56 59 70   0.0
TSRJ    71.28  59 P      57 00 50  -0.6
BRW     71.46   7 eP     57 02.60   1.1
SCH     71.50 325 ePd    57 01.70  -0.5
        1.2s    81.00nm          5.7mb
WKYJ    71 71  61 eP     57 03.20  -0.6
MTMJ    71.98  58 P      57 04.30  -1.1
MAT     72.28  57 eP     57 06.00  -1.1
        2.0s   341.18nm          6.0mb
                eS       06 29.00
NIIJ    72.44  57 P      57 07.30  -0.7
YAMJ    72.62  55 P      57 08.40  -0.7
IIDJ    72.65  59 P      57 07.70  -1.6
KUSJ    72.88  49 eP     57 10.00  -0.4
CHJJ    73.08  58 P      57 11.00  -0.8
OFUJ    73.20  54 P      57 12.20  -0.2
KAKJ    73.79  57 P      57 15.00  -0.9
INK     75.48 359 eP     57 25.00   0.0
ANM     76.62  13 eP     57 33.20   1.7
IMA     76.82   7 eP     57 33.40   0.6
        1.4s   218.70nm          6.0mb
FBA     78.48   5 P      57 41.90   0.1
        1.0s    74.00nm          5.7mb
TTA     79.59   9 eP     57 49.80   1.8
YKA     79.84 350 eP     57 49.90   0.7
        1.2s    19.20nm          5.0mb
SVW     81.40  10 P      57 58.40   0.9
        1.2s   121.21nm          5.8mb
PMR     81.65   6 eP     58 00.20   1.5
        1.3s    57.70nm          5.4mb
      Z 20s      2.00um          5.5Msz
RSO     82.38   8 P      5B 04.00   1.1
SLKM    82.61   7 P      58 04.00   0.2
BALM    82.65   3 P      58 04.60   0.5
TBR     84.26 318 P      58 12.50  -0.1
PNJ     84.39 318 iP     58 14.90   1.7
FFC     84.55 341 ePd    58 15.30   1.5
        1.1s    27.00nm          5.4mb
ADK     85.03  24 P      58 17.50   1.3
        0.8s    33.10nm          5.6mb
KDC     85.06   9 eP     58 18.40   2.2
SIT     86.78 360 eP     58 26.90   2.2
SES     90.71 344 eP     58 44.00   0.3
SOB1    91.39 260 eP     58 49.80   2.6X
JSC     93.07 317 P      58 55.00   0.3
PNT     93.32 349 eP     58 57.00   1.3
NEW     93.94 348 P      58 59.60   1.0
        1.2s    28.79nm          5.6mb
RSSD    94.68 338 P      59 02.80   0.5
        1.5s    25.92nm          5.4mb
      Z 20s      3.05um          5.8Msz
FVM     94.76 326 P      59 02.60   0.2
        1.0s    20.00nm          5.5mb
BW06    97.49 341 P      59 14.00  -1.1
GLD     99.01 337 P      59 25.00   3.1X
      Z 20s      2.50um          5.7Msz
GOL     99.10 337 P      59 25.00   2.5X
      Z 20s      1.50um          5.5Msz
WRA    101.80 106 Pdiff  59 34.00  -0.5
        0.7s     1.10nm          4.6mb
WR2    101.82 106 ePdiff59 33.40  -1.2
        0.6s     1.30nm          4.7mb
ALQ    103.79 335 e(Pdif59 45.00   1.7
      Z 20s      0.53um          5.1Msz
ZOBO   117.21 269 PKP    04 28.00   0.4
      Z 20s      0.53um          5.2Msz
                 LR     42 10.00
LPB    117.33 269 PKP    04 29.00   1.3
ARE    120.02 271 e(PKP)04 35.00   2.4X
      S.D. = 1.1  on 273 of 310 obs.
-----------------------------------
    JUL  24, 1991  10h 08m 36.66± 0.29s
    36.615 N ± 6.3km   43.968 E ± 3.5km
    DEPTH =  33.0km  (normal)
    4.7mb ( 10 obs.)
  IRAQ                                (375)

MSL      0.70 251 iPg    08 50.00  -0.1
                iSg    09 01.00
SLY      1.60 129 iPnd   09 04.50   1.5
                iPg    09 06.00
                iSn    09 26.50
TAB      2.37  52 iPc    09 16.00   1.7
                i      09 19.00
IR7      5.45  98 eP     09 58.00   0.2
IR5      5.55 103 eP     10 02.00   2.8X
IR1      5.58 100 eP     10 01.00   1.4
IR4      5.79 102 eP     10 03.50   0.8
BHL      7.32 251 Pd     10 24.00  -0.1
                S      12 44.00
HRI      7.53 246 eP     10 27.00  -0.1
ATZ      8.10 245 eP     10 40.00   5.1X
                eS     12 58.00
CSS      8.80 262 eP     11 02.00  17.4X
RMN      9.89 235 eP     11 22.00  22.3X
MAIO    12.51  87 eP     11 34.00  -1.2
SKO     18.22 294 eP     12 54.80   6.2X
OBN     19.17 347 eP     12 59.00  -0.9
                e      13 06.00
                e      13 24.00
QUE     20.21 102 eP     13 11.20  -0.5
HVAR    22.05 296 eP     13 30.30   0.2
KSP     24.36 314 eP     13 54.40   1.9
PRU     25.05 312 eP     14 02.00   2.8X
                e      14 09.00
KHC     25.36 309 P      14 02.50   0.3
                e      15 08.00
WTTA    26.12 304 iPc    14 09.70   0.2
        0.5s     8.90nm          4.6mb
CLL     26.45 314 e(P)   14 13.00   0.8
GRF     26.99 309 eP     14 18.20   1.0
                e      14 22.40
PGF     27.46 293 eP     14 25.40   3.7X
        0.9s    24.55nm          4.9mb
KAF     27.80 342 iP     14 24.10  -0.3
SBF     28.64 296 eP     14 32.20   0.0
        0.8s    21.50nm          4.9mb
HFS     30.47 330 eP     14 48.20  -0.1
        0.7s     6.40nm          4.5mb
NB2     32.00 330 P      15 01.10  -0.6
        0.8s     1.70nm          4.0mb
WMQ     33.84  64 P      15 19.00   1.0
GKN     35.22  92 P      15 29.72  -0.4
DMN     35.76  93 P      15 34.58  -0.3
KKN     35.82  92 P      15 35.82   0.5
PKI     36.02  92 P      15 36.76  -0.4
GUN     36.25  92 P      15 39.08   0.0
EKA     36.86 316 Pd     15 44.00   0.6
        0.5s     3.10nm          4.4mb
GTA     43.50  69 eP     16 39.20   0.5
        0.8s    10.00nm          4.6mb
XAN     52.14  72 P      17 45.50  -0.6
GYA     53.56  82 P      17 54.60  -2.2
KiC     53.63 24B P      17 56.50  -0.7
        0.7s     8.50nm          4.9mb
LIC     53.93 248 P      17 58.20  -1.2
        0.7s     6.00nm          4.7mb
BUL     58.28 197 iPc    18 31.20   9.5
DL2     59.63  62 eP     18 39.00  -0.7
        0.8s    40.00nm          5.6mb
CN2     60.27  56 eP     18 42.80  -1.3
MAT     72.29  57 eP     19 59.00  -1.9
ZOBO   117.13 269 PKP    27 03.00 -18.1X
      S.D. = 1.0  on  37 of  45 obs.
-----------------------------------
?  JUL  24, 1991  10h 10m 28.20± 3.72s
    11.874 N ±32.1km   89.401 W ±24.6km
    DEPTH =  10.0km  (geophysicist)
    4.0mb (  1 obs.)
  OFF COAST OF CENTRAL AMERICA     ( 76)
       Felt (II) at San Salvador, El
       Salvador.

OZA      1.69  13 iPd    10 56.70  -1.2
SJAS     1.80   7 iPd    10 58.80  -0.8
VSS      1.86   5 iPd    11 00.70   0.2
VSM      1.90  35 iPd    11 02.00   0.9
TME      2.13   1 eP     11 04.00  -0.3
YPE      2.25 353 iPd    11 07.70   1.5
YKA     53.68 346 eP     19 51.80  -0.3
        0.8s     1.50nm          4.0mb
      S.D. = 1.1  on   7 of   7 obs.
-----------------------------------
%  JUL  24, 1991  10h 38m 37.83± 3.86s
    33.301 S ± 8.9km   70.976 W ±11.6km
    DEPTH =  79.2 ± 39.0 km
  CHILE-ARGENTINA BORDER REGION    (127)

PEL      0.29  57 iP     38 50.30   0.1
                iS     38 59.10
ROCH     0.33 355 iP     38 50.60  -0.1
                iS     38 59.40
TACH     0.35 175 iP     38 50.50  -0.1
PCH      0.50 130 iP     38 51.70  -0.1
                iS     39 02.50
LCCH     0 53 251 iP     38 52.00   0.1
                iS     39 02.90
CHCH     0.69 157 iP     38 53.70   0.2
                iS     39 05.70
JACH     0.70  28 iP     38 53.70   0.0
                iS     39 05.30
LNV      0.75 209 iPd    38 54.00  -0.1
      S.D. = 0.1  on   8 of   8 obs.
-----------------------------------
*  JUL  24, 1991  11h 07m 03.17± 1.03s
    40.273 N ± 7.2km   21.919 E ± 9.7km
    DEPTH =  10.0km  (geophysicist)
  GREECE                              (364)
       MD 2.8 (THE).

LIT      0.47 111 iPc    07 11.98  -0.7
                eS     07 19.62
FNA      0.66 321 ePc    07 15.94  -0.4
                iS     07 25.54
GRG      0.78  28 ePd    07 18.06  -0.2
                eS     07 29.02
VAY      1.16  25 ePn    07 20.70  -4.1X
KNT      1.16  40 iPd    07 25.70   0.9
AGG      1.29 166 ePd    07 27.58   0.5
                eS     07 45.98
      S.D. = 0.9  on   5 of   6 obs.
-----------------------------------
%  JUL  24, 1991  11h 20m 57.75± 0.67s
    42.633 N ± 6.8km   19.072 E ± 5.2km
    DEPTH =  10.0km  (geophysicist)
  YUGOSLAVIA                          (383)
       ML 1.2 (TTG).

NKY      0.19 343 iPgc   21 01.58  -0.4
                iSg    21 04.90
TTG      0.25 145 iPgc   21 02.57  -0.4
                iSg    21 07.55
HCY      0.46 247 iPgd   21 07.50   0.3
                iSg    21 14.75
BRY      0.47 305 iPgc   21 07.35   0.0
                iSg    21 15.17
IVA      0.65  68 iPgd   21 11.43   0.6
PVY      0.67  93 iPgc   21 11.00  -0.1
      S.D. = 0.5  on   6 of   6 obs.
-----------------------------------
?  JUL  24, 1991  11h 21m 30.00± 4.91s
    12.742 N ±34.4km   89.133 W ±14.3km
    DEPTH =  10.0km  (geophysicist)
  OFF COAST OF CENTRAL AMERICA     ( 76)
       Felt (II) at San Salvador, El
       Salvador.

OZA      0.79  10 iPd    21 45.20  -0.1
SJAS     0.92 358 iPd    21 47.50  -0.2
                eS     21 58.00
VSS      1.00 354 iPc    21 49.70   0.7
LFU      1.00   1 iPd    21 49.00   0.0
VSM      1.08  51 iPc    21 50.50   0.0
TME      1.29 350 eP     21 53.50  -0.4
YPE      1.47 339 eP     21 56.70   0.0
      S.D. = 0.4  on   7 of   7 obs.
-----------------------------------
%  JUL  24, 1991  11h 23m 42.83± 2.68s
    44.252 N ±26.5km   10.831 E ± 6.8km
    DEPTH =  10.0km  (geophysicist)
  NORTHERN ITALY                      (545)

MME      0.11 238 Pd     23 46.00   0.1
                eSg    23 48.40
BDI      0.25 222 P      23 48.40   0.2
                eSg    23 52.50
PII      0.57 203 P      23 54.10  -0.4
                eSg    24 02.30
PGD      0.74 120 P      23 58.10   0.6
SFI      0.81 114 P      23 57.70  -0.7
                eSg    24 08.40
CRE      1.02 127 P      24 02.50   0.3
      S.D. = 0.6  on   6 of   6 obs.
-----------------------------------
%  JUL  24, 1991  11h 29m 07.40± 0.93s
    41.900 N ± 7.9km   13.127 E ± 6.8km
```

24d 11h

```
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN ITALY                          (390)

RMP      0.33 255 P      29 14.00  -0.2
                  eSg    29 18.50
AQU      0.50  24 P      29 17.00  -0.5
SDI      0.55 110 P      29 18.80   0.2
                  eSg    29 27.70
MNS      0 59 326 P      29 19.30   0.0
                  eSg    29 28.90
ASS      1.22 344 P      29 30.70   0.6
                  eSg    29 48.00
      S D. = 0.6  on   5 of   5 obs.
-----------------------------------------
%  JUL  24, 1991  11h 59m 45.39± 3 35s
   32.983 N ±27.3km   36.048 E ±13.0km
   DEPTH =  10.0km  (geophysicist)
 DEAD SEA REGION                         (373)

SHMJ     0.35 223 Pd     59 52.76   0.1
JARJ     0.75 187 Pd     00 00.44   0.3
SALJ     1.02 198 Pd     00 05.02   0.3
KFNJ     1.16 196 P      00 06.87  -0.2
MASJ     1.28 193 Pc     00 08.92  -0.3
SHBJ     1.46 117 Pd     00 11.89   0.1
MKRJ     1.47 194 Pc     00 11.52  -0.4
      S.D. = 0.4  on   7 of   7 obs.
-----------------------------------------
?  JUL  24, 1991  11h 59m 50.31± 6.10s
    7.248 S ±36.0km  129.559 E ±21.8km
   DEPTH = 114.2 ± 58.4 km
   4 6mb (  1 obs.)
 BANDA SEA                               (280)

KNA      8.49 185 iPd    01 53.00   1.0
                  eS     03 27.00
WR2     13.46 160 iPd    02 55.50  -2.4X
       0.3s    63.90nm          5.5mb X
                  iS     05 23.00
OIS     16.42 145 eP     03 34 00  -1.4
       0.3s    12.00nm          4.6mb
                  iS     06 29.00
ASPA    16.85 166 eP     03 39.90  -0.8
       0.5s    43.20nm          5.0mb X
                  iS     06 46.50
WARB    19.04 188 eP     04 06.20   0.0
                  eS     07 37.00
CTAO    20.61 130 iP     04 24.00   1.5
                  i      04 28.00
                  e(S)   08 31.00
PSI     32.13 287 eP     06 08.80  -0.3
      S.D. = 1.8  an   6 of   7 obs.
-----------------------------------------
&  JUL  24, 1991  13h 26m 06.38s
   62.018 N          149.332 W
   DEPTH =  41.2km
 CENTRAL ALASKA                          (  1)
      <AEIC>. ML 2.5 (AEIC).

GHO      0.31 142 ePd    26 14.71  -0.3
                  eS     26 21.93
PLRM     0.44 167 iPd    26 15.50  -0.8
                  eS     26 23.83
PWA      0.45 215 ePd    26 16.48   0.0
                  eS     26 24.86
CUT      0.59 312 iPc    26 17.65  -0.7
KNK      0.74 145 iPc    26 19.57  -0.9
                  eS     26 30.49
PMS      0.78 188 iPc    26 20.56  -0.6
SUA      0.87 231 iPd    26 22.22  -0.2
HUR      0.97 352 ePc    26 22.89  -0.9
                  eS     26 36.08
SKT      1.04 269 iPc    26 23.64  -1.0
                  eS     26 38.01
RND      1.41   9 ePc    26 28.79  -1.2
                  eS     26 46.88
CGLM     1.46 242 ePc    26 30.64  -0.1
                  eS     26 49.89
NCG      1.48 247 eP     26 30.09  -1.0
TOA      1.49  85 iPc    26 30.51  -0.6
TRF      1.50 343 iPc    26 30.44  -1.0
SPU      1.55 238 iPc    26 31.65  -0.3
                  eS     26 52.81
GLI      1.57 136 ePc    26 30.84  -1.4
                  eS     26 52.45
SLKM     1.58 196 eP     26 31.57  -0.8
VZW      1.64 125 iPc    26 31.99  -1.3
                  eS     26 54.16
BGL      1.64 244 eP     26 33.42   0.0
CKL      1.66 241 eP     26 33.45  -0.1
VLZ      1.69 120 ePc    26 32.20  -1.7
                  eS     26 53.41
KTH      1.71 335 ePc    26 33.35  -0.9
                  eS     26 54.99
KLU      1.71 106 iPc    26 32.74  -1.5
                  eS     26 53.83
TZL      1.84  87 ePc    26 35.68  -0.4
SDG      1.84  72 ePc    26 35.47  -0.7
SEW      1.92 182 eP     26 38.34   1.2
PAX      2.03  60 ePc    26 38.11  -0.8
                  eS     27 03.71
RDT      2.07 227 ePd    26 38.35  -1.2
                  eS     27 03.91
LTI      2.11 159 eP     26 37.82  -2.2
REF      2.24 228 eP     26 41.57  -0.4
RDN      2.24 229 eP     26 41.58  -0.4
NCT      2.27 232 eP     26 42.16  -0.2
RSO      2.27 228 eP     26 42.28  -0.2
CNPM     2.67 201 eP     26 47.59  -0.3
GLB      2.69 100 ePc    26 46.18  -2.0
CCB      2.73  14 ePd    26 47.01  -1.7
FBA      2.97  13 ePd    26 50.32  -1.9
MDM      2.99   9 ePd    26 50.70  -1.8
TGL      3.37 109 eP     26 55.48  -2.5
BALM     3.49 103 eP     26 56.90  -2.7
        40 obs. associated
-----------------------------------------
?  JUL  24, 1991  13h 32m 34.01± 0.94s
   44.308 N ±10.4km    7.470 E ± 7.1km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                          (545)
      ML 2.0 (GEN).

ENR      0.09 204 P      32 36.51  -0.2
                  S      32 38.46
STV      0.12 239 P      32 37.33   0.2
                  S      32 39.28
ROB      0.29  93 P      32 40.10   0.0
                  S      32 45.22
PZZ      0.33 307 P      32 40.82  -0.1
                  S      32 45.63
      S.D. = 0.3  on   4 of   4 obs.
-----------------------------------------
   JUL  24, 1991  13h 54m 52.06± 0.19s
   18.274 S ± 4.3km   34.856 E ± 4.2km
   DEPTH =  32.0km  ( 14 depth phases)
   5.2mb ( 42 obs.)  4.7Msz (  9 obs.)
 MOZAMBIQUE                              (581)
      Felt (III) in Manica Province.
      Also felt in Monicaland Province
      and at Harare, Zimbabwe.
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 14S, 19C
      Centroid Location:
      Origin Time        13:54:52.4 0.8
      Lat 18.30S 0.10 Lan  34.62E 0.05
      Dep  24.7 4.9 Half-duration  2.3
      Moment Tensor;   Scale 10**16 Nm
        Mrr=-5.63 0.54   Mtt= 0.91 1.12
        Mff= 4.72 0.74   Mrt= 0.00 0.00
        Mrf= 0.00 0.00   Mtf=-0.07 0.41
       Principal Axes:
        T  Val=  4.72   Plg= 0   Azm= 90
        N        0.91       0       180
        P       -5.63      90       180
      Best Double Couple:Mo=5.2*10**16
       NP1:Strike=180 Dip=45 Slip= -90
       NP2:          0      45       -90

SONG     3.32 323 iPn    55 39.60  -3.5X
                  iSn    56 15.70
                  iSg    56 28.20
MTD      3.46 295 iPgc   55 43.00  -2.1
                  iSg    56 17.00
CIR      4.12 228 iPnc   55 54.30  -0.1
                  iPg    56 06.00
                  iSg    56 58.00
KRI      5.20 285 iPc    56 08.00  -1.9
                  iPg    56 16.00
                  iS*    57 03.50
                  iSg    57 14.00
PTZ      5.24 319 iPn    56 07.00  -3.4X
NPA      5.27  54 iPc    56 12.00   1.3
BUL      6.19 252 iPnd   56 19.20  -4.6X
                  iP*    56 25.00
                  iSn    57 22.80
                  iSg    57 55.00
LSZ      7.05 294 iPn    56 32.00  -3.9X
JOZ      9.48 195 eP     57 45.00  35.5X
                  S      59 26.60
SLR      9.61 218 iPc    57 05.60  -5.8X
                  S      58 47.60
KMZ      9.91 298 iPn    57 11.00  -4.6X
                  iSn    58 57.20
                  eSg    00 27.00
PRY     10.98 217 iPd    57 25.00  -5.2X
                  S      59 20.00
SEK     12.00 212 iPc    57 40.10  -4.0X
                  S      59 42.20
VIR     12.21 216 eP     57 58.00  11.1X
                  S      00 03.50
FRS     14.36 216 iPc    58 07.00  -8.0X
                  S      00 34.20
NAI     17.00   7 iPc    58 48.50  -0.9
       1.0s    18.00nm          4.2mb X
                  eSS    05 04.00
WIN     17.18 253 iPc    58 46.00  -5.6X
                  S      01 45.00
CER     20.50 220 iPc    59 26.00  -4.2X
                  S      02 02.50
KIC     46.10 298 P      03 14.20  -1.2
LIC     46.27 298 P      03 15.36  -1.3
TIC     46.48 299 P      03 17.40  -1.0
HOL     47.27   0 iPc    03 25.00   0.8
MBH     47.76   0 iPc    03 29.80   1.5
LKO     48.55 301 P      03 33.32  -1.3
       1.3s    33.00nm          5.2mb
MKT     48.94   0 iPc    03 38.80   1.5
DSI     49.56   1 iPc    03 43.30   1.3
MAW     52.46 167 eP     04 03.00  -0.7
       0.7s    13.00nm          5.0mb
GBA     52.60  56 Pd     04 03.50  -1.8X
       0.9s    14.50nm          4.9mb
NVL     54.28 189 Pc     04 16.00  -1.0
                  e      04 27.50  40km
SNA     56.65 194 iPc    04 33.90  -0.3
       1.0s    80.00nm          5.7mb
QUE     57.24  33 eP     04 39.50   0.3
                  ePP    04 50.20
VAY     60.38 349 iP     05 00.50   0.1
                  i      05 11.00  35km
SKO     61.21 349 iP     05 05.50  -0.6
                  i      05 15.50  33km
CMP     63.86 352 ePc    05 23.00  -0.7
MLR     63.97 353 eP     05 24.00  -0.6
VRI     64.26 354 ePc    05 25.00  -1.3
VBY     65.92 345 e(P)   05 37.00   0.0
CEY     66.35 345 eP     05 40.50   0.7
GKN     66.61  47 P      05 40.44  -1.5
DMN     66.70  48 P      05 40.82  -1.9
VOY     66.76 344 eP     05 42.50   0.0
PKI     66.89  48 P      05 42.38  -1.6
KKN     66.93  48 P      05 42.76  -1.3
GUN     67.43  48 P      05 45.94  -1.5
       0.9s   261.00nm          6.3mb X
SRO     67.44 348 eP     05 46.40  -0.2
                  e      05 56.40  32km
ZST     68.05 347 eP     05 48.90  -1.5
GRBF    68.11 334 P      05 51.88   0.9
SALF    68.19 334 P      05 52.70   1.2
OGA     68.31 343 iPc    05 53.40   1.1
OSS     68.40 342 ePd    05 52.90   0.0
SPC     68.41 350 iP     05 52.10  -0.8
LPG     68.41 339 eP     05 57.10   4.0X
       1.1s    17.10nm          5.1mb
LPL     68.43 339 eP     05 57.30   4.1X
       1.2s    23.80nm          5.2mb
MMK     68.50 340 ePd    05 53.60   0.0
DIX     68.70 340 ePd    05 54.50  -0.4
EPF     68.77 334 iPd    05 55.80   0.7
       1.1s    41.50nm          5.4mb
LLS     68.90 341 ePd    05 56.50   0.5
IPM     69.02  78 ePd    05 57.50   0.3
       0.8s    52.10nm          5.7mb
KRA     69.30 350 eP     05 57.20  -0.9
                  e      06 07.50  33km
CAF     69.63 336 eP     06 01.20   0.9
       1.4s    61.00nm          5.5mb
ZLA     69.64 341 ePd    06 00.60   0.3
KHC     69.72 345 iPc    06 00.00  -0.8
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                 i      06 08.50  27km
SLE    69.86 341 ePd    06 01.80   0.2
BBS    69.90 341 P      06 02.53   0.6
LOMF   70.01 340 P      06 03.21   0.6
FEL    70.10 341 P      06 03.60   0.3
RJF    70.16 336 eP     06 04.00   0.5
       0.8s     10.75nm          5.0mb
     Z  18s      0.57um          4.9Msz
PRU    70.30 346 eP     06 03.00  -1.2
                 e      06 13.50  34km
SMF    70.42 338 iPd    06 05.20   0.2
       1.0s     16.00nm          5.0mb
BSF    70.45 340 eP     06 05.40   0.1
       1.0s     20.00nm          5.1mb
MAF    70.52 337 iPd    06 06.50   0.8
       1.0s     24.00nm          5.2mb
LBF    70.66 338 eP     06 06.60   0.0
       1.0s      8.00nm          4.7mb
ECH    70.67 341 P      06 06.70   0.1
BGF    70.71 337 eP     06 07.20   0.4
       1.0s     14.00nm          5.0mb
TCF    70.71 337 iPd    06 06.10  -0.8
       1.6s     49.75nm          5.3mb
AVF    70.72 338 eP     06 07.00   0.2
       1.2s     20.85nm          5.1mb
KSP    70.73 348 eP     06 06.00  -0.8
HAU    70.74 340 iPd    06 07.10   0.1
       1.0s     26.00nm          5.3mb
     Z  18s      0.20um          4.4Msz
CDF    70.81 341 P      06 07.44  -0.1
GRF    70.83 344 iPd    06 08.00   0.5
       1.1s     57.00nm          5.6mb
     Z  19s      0.30um          4.6Msz
                 e      06 17.80  31km
SSF    70.89 338 eP     06 07.80  -0.1
       0.8s      4.05nm          4.5mb
LOR    70.94 338 eP     06 08.40   0.1
       1.6s     31.10nm          5.1mb
     Z  20s      0.50um          4.8Msz
VITF   71.05 340 P      06 09.08   0.2
GWF    71.20 341 P      06 10.42   0.6
BRG    71.26 346 iP     06 09.60  -0.4
       0.8s     10.00nm          4.9mb
                 e      06 19.60  32km
MOX    71.61 345 iPc    06 12.50   0.3
       1.3s     24.00nm          5.1mb
     Z  19s      0.30um          4.6Msz
SPA    71.84 180 iPd    06 13.50  -0.1
       1.0s     60.00nm          5.6mb
                 i      06 41.10 109kmX
CLL    71.88 346 iP     06 13.60  -0.2
       1.3s     17.00nm          4.9mb
                 i      06 22.80  30km
CHG    72.94  63 ePd    06 20.00  -0.7
       1.0s     35.00nm          5.3mb
OBN    73.09   1 iP     06 20.00  -0.7
       1.0s   *******nm          8.1mb X
     Z  15s      0.30um          4.7MszX
     N  20s      0.60um
                 i      06 30.00  32km
BNS    73.10 342 iPc    06 22.50   1.6
MUN    73.40 119 iPc    06 23.40   0.2
GRR    73.62 336 eP     06 19.10  -4.9X
       1.2s     29.75nm          5.2mb
NWAO   74.06 120 eP     06 27.00  -0.1
KLB    74.77 119 eP     06 31.00  -0.2
COOL   77.76 119 eP     06 48.00   0.0
       0.7s     26.00nm          5.4mb
WMQ    78.44  36 P      06 51.40   0.0
       1.5s     30.00nm          5.1mb
                 sP     07 02.00
BAO    78.61 257 eP     06 54.00   1.0
KMI    78.89  59 Pc     06 54.50   0.0
NUR    78.94 355 iP     06 53.70   0.1
HFS    80.00 349 eP     06 58.70  -0.7
       0.9s     19.40nm          5.1mb
     Z  20s      0.21um          4.5Msz
                 LR     42 04.00
EKA    80.10 339 Pc     07 01.20   1.1
       0.8s      3.90nm          4.5mb
SBA    80.20 171 iPc    07 02.10   1.7X
KAF    80.40 356 iP     07 01.60   0.1
       0.7s     23.80nm          5.3mb
NB2    81.29 349 P      07 06.50   0.2
       0.9s     17.30nm          5.1mb
CD2    82.26  54 eP     07 12.40   0.4
       1.0s    100.00nm          5.8mb
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GYA    82.66  59 P      07 13.00  -1.3
       1.2s     70.00nm          5.6mb
                pP      07 23.60  34km
GTA    83.42  45 Pd     07 18.40   0.5
       0.9s     50.00nm          5.6mb
     Z  28s      0.30um          4.5MszX
                pP      07 25.50  22km
WARB   83.68 115 eP     07 19.50   0.1
       0.8s     52.00nm          5.7mb
                 e      09 45.00 709kmX
LZH    84.65  49 iPd    07 24.80   0.6
       2.0s     85.00nm          5.6mb
     Z  20s      0.25um          4.6Msz
                sP      07 35.00
TSM    84.72  84 ePd    07 24.80   0.0
SOD    85.61 357 iP     07 29.00   0.9
XAN    87.54  53 P      07 37.50  -0.8
WHN    90.47  58 Pc     07 52.00  -0.1
SIV    90.52 253 Pd     07 53.60   0.8
ASPA   90.72 115 iPd    07 53.10  -0.5
       1.3s     16.30nm          5.2mb
BTO    90.96  47 P      07 54.20  -0.2
TIY    91.59  51 Pc     07 56.70  -0.6
     Z  16s      0.80um          5.3MszX
     N  15s      0.60um
     E  15s      0.40um
HHC    92.14  48 eP     08 01.00   1.2
IRK    92.35  35 eP     08 00.50   0.2
                 e      08 11.20  33km
WRA    92.39 112 P      08 00.00  -1.3
       1.2s     13.60nm          5.3mb
WR2    92.40 112 iPd    08 01.00  -0.4
       1.2s     11.50nm          5.2mb
STK    93.95 125 eP     08 08.40   0.1
       0.9s      3.20nm          4.8mb
TIA    94.58  54 eP     08 10.40  -0.6
BJI    95.14  50 eP     08 12.00  -1.4
CNCB   96.47 250 P      08 22.00   1.3
LPB    96.67 250 (P)    08 31.00   9.5X
     Z  24s      1.55um          5.4MszX
                LR      46 10.00
ZOBO   96.79 250 P      08 22.50   0.3
     Z  22s      0.40um          4.9Msz
                LR      46 18.00
MBC   120.49 353 ePKP   13 40.50  -0.6
BRW   126.53   5 ePKP   13 52.60  -0.3
INK   129.45 354 ePKP   13 58.00  -0.5
                pP      14 09.00
YKA   131.00 342 ePKP   13 59.50  -2.1
       0.7s      3.90nm
IMA   131.96   5 ePKP   14 03.50   0.1
       1.6s     74.60nm
TTA   134.75   7 e(PKP)14 10.00   1.1
MEO   135.62 301 iPKPc  14 12.00   0.7
PMR   136.64   3 ePKP   14 04.70  -7.6X
RSSD  137.04 316 PKP    14 02.00 -12.0X
SES   137.99 328 ePKP   14 15.00  -0.4
GLD   139.49 310 PKP    14 25.00   6.4X
     Z  19s      1.62um          5.8MszX
GOL   139.62 310 PKP    14 25.00   6.1X
     Z  20s      1.00um          5.6Msz
BW06  141.25 317 PKP    14 14.00  -7.7X
LRM   141.44 323 ePKP   14 18.60  -3.4X
ANMO  141.91 304 PKP    14 18.00  -5.1X
ALQ   141.91 304 ePKP   14 18.00  -5.1X
       1.0s      3.75nm
NEW   142.41 329 PKP    14 22.00  -1.4
PV09  142.78 310 PKP    14 20.80  -3.8X
PNT   142.82 332 ePKPc  14 25.00   1.0
       0.8s     22.00nm
VAH   146.61 176 iPKP   14 34.40   3.2X
       1.0s     40.00nm
RUV   146.68 176 iPKP   14 34.00   2.7X
       1.0s     45.00nm
PMO   146.82 175 iPKP   14 35.20   3.6X
       1.0s     55.00nm
TPT   146.86 176 iPKP   14 35.30   3.7X
       1.0s     65.00nm
GLA   149.10 304 ePKP   14 37.00   2.1X
TPC   149.64 307 ePKP   14 41.00   5.3X
GSC   149.70 310 ePKP   14 37.00   1.2
CLC   150.03 311 ePKP   14 38.00   1.8
CWC   150.07 313 ePKP   14 38.00   1.6
MIN   150.09 322 ePKP   14 37.29   1.0
                esPKP   14 41.70
WDC   150.47 324 ePKP   14 37.30   0.7
                esPKP   14 41.50
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ORV   150.53 321 ePKP   14 38.24   1.5
                esPKP   14 42.80
PLM   150.56 306 ePKP   14 43.00   5.7X
BAR   150.68 305 ePKP   14 43.00   5.8X
RVR   150.69 308 ePKP   14 39.00   1.8
SBB   150.72 309 ePKP   14 38.00   0.7
ISA   150.73 312 ePKP   14 39.00   1.7
CMB   150.76 317 ePKP   14 38.92   1.7
                esPKP   14 43.40
FRI   150.90 315 ePKP   14 39.49   2.1X
                esPKP   14 44.70
MWC   151.10 309 ePKP   14 44.00   6.0X
FHC   151.11 325 ePKP   14 40.13   2.5X
PAS   151.22 309 ePKP   14 44.00   6.0X
PRI   152.01 314 ePKP   14 43.27   4.0X
                esPKP   14 47.30
BKS   152.03 319 iPKP   14 46.70   7.7X
      S.D. = 0.9  on 129 of 171 obs.
-----------------------------------------
?  JUL  24, 1991  13h 55m 55.20± 1.13s
   44.397 N ± 9.6km     7.411 E ± 8.0km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                     (545)
      ML 1.8 (GEN).

STV     0.16 202 P      55 59.08   0.0
                S      56 00.93
ENR     0.17 178 P      55 59.08  -0.1
PZZ     0.25 296 P      56 00.52   0.0
                S      56 04.52
ROB     0.35 107 P      56 02.37   0.0
                S      56 08.41
      S.D. = 0.1  on   4 of   4 obs.
-----------------------------------------
   JUL  24, 1991  15h 24m 40.00± 0.35s
   43.074 N ± 6.6km    78.168 E ± 8.7km
   DEPTH =  10.0km  (geophysicist)
   4.4mb (  7 obs.)  5.1Msz (  1 obs.)
 ALMA-ATA REGION                    (330)

GKN    15.92 159 P      28 25.20  -0.7
KKN    16.30 157 P      28 30.58  -0.2
GUN    16.37 155 P      28 32.52   0.8
       0.8s     52.00nm          4.7mb
DMN    16.42 158 P      28 32.60   0.2
PKI    16.55 157 P      28 34.36   0.4
LZH    20.94 101 eP     29 25.50   0.1
       1.0s     26.00nm          4.6mb
     Z  15s      0.24um          3.7MszX
                sP      29 30.50
NB2    42.77 319 P      32 39.40   0.5
       0.9s      3.70nm          4.1mb
MBC    60.43   5 eP     34 51.50   0.1
       0.7s      5.00nm          4.8mb
YKA    74.28   6 eP     36 18.60   0.0
       0.7s      1.20nm          4.0mb
LKO    79.01 273 P      36 45.72  -0.2
KIC    80.51 270 P      36 54.00   0.0
TIC    80.53 270 P      36 54.00  -0.1
LIC    80.82 270 P      36 55.60   0.0
     Z  21s      0.90um          5.1Msz
WRA    81.20 128 P      36 57.00  -0.4
       1.1s      2.10nm          4.1mb
WR2    81.21 128 eP     36 57.00  -0.5
       0.5s      2.70nm          4.5mb
      S.D. = 0.4  on  15 of  15 obs.
-----------------------------------------
   JUL  24, 1991  15h 54m 59.98± 0.66s
   44.404 N ± 4.3km     8.301 E ± 5.0km
   DEPTH =   5.0km  (geophysicist)
 NORTHERN ITALY                     (545)
      ML 2.2 (GEN).

CKI     0.03 323 Pc     55 01.10  -0.1
                eSg     55 02.10
FIN     0.21 199 P      55 04.18   0.0
                S      55 06.33
PCP     0.22  52 P      55 04.59   0.1
                S      55 08.38
ROB     0.33 251 P      55 06.84   0.2
                S      55 11.77
IMI     0.58 211 P      55 11.46  -0.1
                S      55 18.87
ENR     0.66 255 P      55 12.48  -0.7
                S      55 21.20
STV     0.72 257 P      55 14.84   0.5
                S      55 24.07
```

24d 15h

```
BHB      0.86 301 P      55 17.18   0.1
PZZ      0.87 277 P      55 17.30   0.1
                  S      55 28.89
RSP      1.05 316 P      55 20.17  -0.2
                  S      55 33.58
      S.D. = 0.3  on  10 of  10 obs.
-----------------------------------------
&  JUL  24, 1991  16h 46m 44.30s
   40.353 N          123.770 W
   DEPTH =   6.0km
 NORTHERN CALIFORNIA                ( 36)
      <BRK>. ML 3.4 (BRK). Felt (III)
      at Rio Dell.

FOX      0.24 315 iPd    46 49.60   0.4
FHC      0.48 340 iPc    46 52.70  -1.2
WDC      0.97  76 iPc    47 02.23  -0.8
                  eS     47 16.23
MIN      1.65  90 eP     47 12.11  -2.0
                  eS     47 33.31
LBFM     1.74  55 eP     47 14.00  -1.4
ORV      1.92 114 eP     47 15.30  -2.5
ARN      3.47 149 eP     47 37.00  -3.0
CMB      3.50 130 e(P)   47 39.50  -1.0
         8 obs. associated
-----------------------------------------
   JUL  24, 1991  18h 37m 01.59± 0.32s
   36.584 N ± 6.0km   43.937 E ± 4.0km
   DEPTH =  33.0km  (normal)
   4.6mb (  6 obs.)
 IRAQ                               (375)

MSL      0.67 253 iPgc   37 14.50  -0.1
                  iSg    37 26.50
SLY      1.60 127 iPnc   37 29.00   1.1
                  iP*    37 30.00
                  iSn    37 51.50
TAB      2.41  51 iPd    37 41.30   1.6
                  i      37 43.40
BHD      3.32 174 iPnd   37 54.00   1.5
                  iPg    38 04.50
                  iSn    38 34.50
                  iSg    38 53.50
GAZ      5.42 278 ePn    38 27.80   5.6X
IR7      5.47  97 eP     38 22.00  -1.0
IR5      5.56 102 eP     38 26.00   1.6
IR1      5.60 100 eP     38 24.00  -0.8
IR4      5.81 101 eP     38 27.50  -0.4
TEH      6.08  96 e(P)   38 56.00  24.3X
BHL      7.29 251 P      38 48.00  -0.5
                  S      41 04.00
HRI      7.50 246 eP     38 52.00   0.5
ZNT      8.54 242 eP     39 07.00   1.1
                  eS     41 27.00
MBH     10.18 231 eP     39 28.00  -0.6
MAIO    12.53  87 eP     40 06.00   5.5X
OBN     19.19 347 iPc    41 23.40  -1.7
        1.0s  *******nm          7.4mb X
      Z  12s     0.50um          4.2Msz
      N  12s     0.50um
                  e      41 32.00
QUE     20.22 102 eP     41 36.60  -0.2
ZST     22.84 309 eP     42 01.00  -1.8
PRU     25.06 312 P      42 30.10   5.9X
KHC     25.36 309 P      42 28.50   1.4
CLL     26.45 314 e(P)   42 41.00   3.9X
NUR     26.93 339 eP     42 41.70   0.4
GRF     27.00 309 e(P)   42 46.00   3.8X
KAF     27.82 342 eP     42 51.90   2.4
HFS     30.48 330 eP     43 13.40   0.1
        0.7s      6.60nm          4.5mb
      Z  15s     0.06um          3.3MszX
                  LR     54 59.00
NB2     32.01 330 P      43 26.60  -0.2
        0.7s      1.50nm          4.0mb
WMQ     33.88  64 P      43 45.00   1.7
                  pP     43 51.00  20kmX
GKN     35.24  92 P      43 55.34   0.1
DMN     35.78  92 P      44 00.50   0.5
KKN     35.85  92 P      43 59.32  -1.1
PKI     36.04  92 P      44 01.22  -1.0
GUN     36.28  92 P      44 02.12  -2.1
EKA     36.86 316 P      44 09.00   0.6
        0.6s      6.10nm          4.6mb
GTA     43.53  69 eP     45 05.00   1.1
                  pP     45 12.00  23kmX
CHG     51.14  95 eP     46 02.00  -1.5
XAN     52.17  72 P      46 10.50  -0.8
KIC     53.59 248 Pc     46 21.38  -0.5
        0.7s     33.00nm          5.4mb
TIC     53.61 249 P      46 21.22  -0.8
LIC     53.89 248 Pc     46 23.54  -0.5
        0.8s     30.00nm          5.4mb
MTD     54.34 195 iPc    46 27.70   0.3
BUL     58.25 197 iPc    46 55.00  -0.3
YKA     79.76 350 eP     49 14.30   6.9X
        0.9s      1.60nm          4.0mb
      S.D. = 1.2  on  35 of  42 obs.
-----------------------------------------
   JUL  24, 1991  19h 35m 58.85± 0.76s
   22.230 N ± 9.2km   94.370 E ± 7.9km
   DEPTH =  88.3 ±  7.8 km
   4.5mb ( 13 obs.)
 BURMA                              (296)

SHL      4.03 326 iP     37 00.00   0.4
                  iS     37 41.00
CHG      5.47 128 ePn    37 20.00   0.5
                  eSg    38 50.00
BDT      6.61 138 eP     37 35.80   0.6
LSA      7.98 339 P      37 52.80  -1.7
                  S      39 18.60
KMI      8.19  68 Pd     38 01.50   4.2X
KHT      8.42 151 eP     38 04.50   4.4X
GUN      9.55 308 P      38 17.56   1.7
PKI      9.72 305 P      38 17.82  -0.3
KKN      9.93 306 P      38 20.46  -0.4
DMN      9.97 304 P      38 21.28  -0.1
GKN     10.52 305 P      38 27.72  -1.1
XAN     17.39  44 P      39 56.50  -0.7
WMQ     22.23 347 P      40 50.50   1.3
TIA     24.18  50 eP     41 09.50   1.4
WRA     57.28 134 P      45 38.00  -1.8
        0.5s      2.50nm          4.5mb
WR2     57.30 134 iPd    45 39.20  -0.7
        0.5s      4.20nm          4.8mb
HFS     66.37 327 eP     46 39.20  -0.9
        0.5s      5.80nm          4.8mb
NB2     67.52 328 P      46 46.20  -1.2
        0.7s      2.50nm          4.3mb
CDF     71.83 316 eP     47 13.90  -0.1
        0.5s      1.45nm          4.1mb
BSF     72.28 315 eP     47 16.40  -0.3
        0.5s      1.45nm          4.1mb
LPG     72.87 313 eP     47 20.80   0.3
        0.8s      5.35nm          4.5mb
LPL     72.88 313 eP     47 20.80   0.4
        0.5s      4.35nm          4.6mb
SMF     74.53 314 eP     47 29.70   0.0
        0.5s      4.35nm          4.6mb
AVF     74.81 315 eP     47 31.20   0.0
        0.4s      1.45nm          4.2mb
CAF     76.22 313 eP     47 40.10   0.8
        0.5s      2.20nm          4.3mb
LPO     76.89 313 eP     47 43.70   0.7
        0.4s      3.45nm          4.6mb
LFF     77.11 313 eP     47 45.40   1.2
        0.6s      3.60nm          4.4mb
      S.D. = 1.0  on  25 of  27 obs.
-----------------------------------------
?  JUL  24, 1991  19h 37m 47.13± 2.48s
   20.882 S ±65.6km  174.939 E ±37.1km
   DEPTH =  33.0km  (normal)
   4.1mb (  1 obs.)
 VANUATU ISLANDS REGION             (185)

SVA      4.31  51 eP     38 52.40   0.3
SGE      4.32  41 eP     38 51.70  -0.6
VUN      4.39  50 eP     38 52.20  -1.0
OVA      4.82  49 iP     38 59.70   0.3
MBU      5.29  43 eP     39 06.50   0.6
KRO      5.51  51 eP     39 09.00   0.0
                  eS     40 08.90
NDE      5.96  45 eP     39 15.90   0.4
RMO     24.60 252 eP     43 14.00   8.3X
                  i      43 20.00
WRA     37.99 264 P      45 04.00   0.0
        0.7s      1.90nm          4.1mb
CLL    146.50 339 ePKP   57 45.00  20.1X
KHC    148.13 337 ePKP   57 40.00  12.3X
      S.D. = 0.7  on   8 of  11 obs.
-----------------------------------------
?  JUL  24, 1991  21h 39m 32.22±15.22s
   44.534 N ±18.2km    8.701 E ±107.km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                     (545)

PCP      0.11 274 P      39 35.18   0.0
                  S      39 37.23
FIN      0.48 228 P      39 41.94   0.0
                  S      39 46.45
ROB      0.64 248 P      39 45.35   0.2
                  S      39 52.20
ENR      0.97 252 P      39 50.56  -0.1
STV      1.03 254 P      39 51.68   0.0
                  S      40 04.81
      S.D. = 0.2  on   5 of   5 obs.
-----------------------------------------
*  JUL  24, 1991  22h 10m 36.36± 2.27s
   41.284 N ± 6.9km   20.992 E ±19.2km
   DEPTH =   5.0km  (geophysicist)
 ALBANIA                            (391)
      ML 2.6 (SKO). MD 2.5 (THE).

FNA      0.58 150 ePc    10 47.52  -0.4
                  eS     10 55.44
SKO      0.77  26 iPg    10 51.50  -0.2
                  iSg    11 01.50
GRG      1.11 107 ePd    10 57.52  -0.2
                  eS     11 13.44
VAY      1.19  88 ePg    10 58.70  -0.3
KNT      1.44  94 ePc    11 03.44   0.2
                  eS     11 23.32
LIT      1.64 136 ePd    11 06.40   0.4
SRS      1.97  94 ePd    11 11.20   0.5
      S.D. = 0.4  on   7 of   7 obs.
-----------------------------------------
   JUL  24, 1991  22h 33m 30.17± 0.32s
   41.305 N ± 4.1km   21.008 E ± 3.4km
   DEPTH =   5.0km  (geophysicist)
 YUGOSLAVIA                         (383)
      ML 3.0 (TTG). MD 2.9 (THE). Felt
      (IV) at Ohrid and Kicevo.

FNA      0.59 152 ePd    33 40.80  -1.2
                  iS     33 49.24
SKO      0.74  26 iPgc   33 44.30  -0.7
                  i      33 47.50
                  i      33 48.80
                  i      33 54.00
                  iSg    33 55.00
                  i      33 56.20
GRG      1.11 108 ePc    33 50.88  -0.6
                  eS     34 05.92
KZN      1.15 150 iPc    33 53.00   0.7
                  eS     34 10.00
VAY      1.18  89 iPg    33 52.20  -0.4
                  iSg    34 09.30
KNT      1.43  95 iPc    33 56.80  -0.1
                  eS     34 15.44
ULC      1.47 297 iPgd   33 55.90  -1.5
                  iSg    34 17.23
PVY      1.50 329 iPgd   33 58.00   0.1
                  iSg    34 20.58
THE      1.63 114 ePc    33 59.04  -0.5
LIT      1.65 136 ePc    34 00.08   0.2
TTG      1.72 311 iPnd   34 01.68   0.8
                  iSn    34 25.00
IVA      1.77 333 iPnd   34 02.28   0.6
                  iSn    34 27.20
KEK      1.84 211 eP     34 02.80   0.2
SOH      1.84 104 ePc    34 03.08   0.4
IGT      1.84 196 ePd    34 04.28   1.5
                  eS     34 29.08
BDV      1.90 302 iPnd   34 03.65   0.1
                  iSn    34 29.12
SRS      1.96  95 ePd    34 03.68  -0.7
NKY      2.12 316 ePn    34 07.58   0.7
                  iSn    34 35.42
HCY      2.19 302 iPnd   34 07.03  -0.8
                  iSn    34 36.88
PLE      2.35 330 ePn    34 10.43   0.3
                  iSn    34 41.65
BRY      2.43 312 ePn    34 12.03   0.7
                  iSn    34 42.90
PAIG     2.46 123 ePc    34 10.80  -0.7
OUR      2.46 112 ePc    34 12.12   0.6
LCI      2.51 248 P      34 09.50  -2.8X
                  eSn    34 38.00
BRT      2.91 263 P      34 16.50  -1.5
                  eSn    34 44.50
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RDO      3.42  91 eP     34 27.00   1.8
     S.D. = 0.9   on  25 of  26 obs.
-----------------------------------------
%  JUL  25, 1991  00h 10m 08.23± 1.66s
   45.143 N ±11.5km     2.762 E ±12.8km
   DEPTH =   5.0km  (geophysicist)
 FRANCE                              (538)
      ML 2.2 (LDG).

CAF      0.54 247 Pg     10 18.30  -0.8
                  Sg     10 26.20
RJF      0.89 281 Pg     10 26.60   0.7
                  Sg     10 40.20
MAF      1 09 353 Pg     10 28.70  -0.4
                  Sg     10 43.70
TCF      1.21 342 Pg     10 31.50   0.3
                  Sg     10 47.80
LPO      1.21 248 Pg     10 31.70   0.5
                  Sg     10 49.10
LSF      1.40 322 Pn     10 33.80  -0.7
                  Pg     10 35.20
                  Sg     10 54.60
BGF      1.42   2 Pg     10 35.00   0.3
                  Sg     10 52.60
SMF      1.68  26 Pg     10 38.50   0.1
                  Sg     11 00.20
     S.D. = 0.7   on   8 of   8 obs.
-----------------------------------------
   JUL  25, 1991  00h 17m 34.80± 0.77s
   51.556 N ± 6.3km     7.020 E ± 5.9km
   DEPTH =  10.0km  (geophysicist)
 GERMANY                             (543)
      ML 3.0 (LDG). MD 2.8 (UCC). Felt
      in the Recklinghausen area.

WTS      0.46 344 ePg    17 44.50   0.4
       0.7s    65.00nm
BNS      0.60 171 iPd    17 46.40  -0.5
       0.5s    48.00nm
ENN      1.05 222 iPnc   17 56.90   2.3
       0.5s    61.00nm
                  eSn    18 13.50
MEM      1.14 214 iPd    17 57.96   1.8
                  iS     18 16.63
KOE      1.22 158 iPd    17 59.30   1.9
                  iS     18 16.60
TNS      1.61 145 ePn    18 03.80   0.4
                  eSn    18 25.00
ABH      1.71 168 ePn    18 05.35   0.5
RUP      1.86 179 ePn    18 07.86   0.9
WLF      1.97 197 iP     18 10.26   1.7
SNF      2.02 240 iPc    18 10.97   1.7
DOU      2.12 227 P      18 12.00   1.3
TOD      2.26 149 ePn    18 13.32   0.5
MOX      3.04 106 ePg    18 23.00  -0.8
                  eSg    19 07.00
CDF      3.15 177 Pn     18 25.40  -0.1
                  Sg     19 16.20
GRF      3.26 123 ePg    18 31.60   4.6X
                  e(Sn)  19 04.40
                  e(Sg)  19 23.70
HAU      3.58 187 Pn     18 31.10  -0.4
BSF      3.73 182 Pn     18 33.60  -0.2
LOR      4.76 207 Pn     18 47.80  -0.5
                  Sn     19 43.60
                  Sg     20 11.30
LBF      4.99 205 Pn     18 50.30  -1.2
SSF      5.05 208 Pn     18 51.70  -0.6
                  Sg     20 18.50
SMF      5.34 204 Pn     18 55.10  -1.4
AVF      5.34 208 Pn     18 55.10  -1.4
LDF      5.47 240 Pn     18 58.00  -0.3
                  Sn     20 00.30
FLN      5.57 243 Pn     18 59.50  -0.2
                  Sn     20 01.70
BGF      5.70 210 Pn     19 00.40  -1.2
                  Sn     20 03.20
GRR      5.99 241 Pn     19 05.00  -0.5
                  Sn     20 12.00
LPL      6.05 182 Pn     19 06.20  -0.4
LPG      6.07 182 Pn     19 06.40  -0.6
MAF      6.09 211 Pn     19 04.70  -2.3
LPF      6.30 239 Pn     19 09.30  -0.6
     S.D. = 1.2   on  29 of  30 obs.
-----------------------------------------
?  JUL  25, 1991  00h 41m 33.13± 1.15s
   10.470 N ±15.3km    61.550 W ±12.9km
   DEPTH =  33.0km  (normal)
 TRINIDAD                            ( 98)
      MD 2.7 (TRN).

TPP      0.18 147 eP     41 39.43  -0.1
TRN      0.23  39 eP     41 39.77  -0.2
                  eS     41 46.11
TCE      0.30 319 eP     41 41.03   0.1
                  eS     41 44.47
TBH      0.48  88 eP     41 43.59   0.2
                  eS     41 54.99
     S.D. = 0.3   on   4 of   4 obs.
-----------------------------------------
&  JUL  25, 1991  01h 29m 46.93s
   60.134 N          140.613 W
   DEPTH =   0.1km
 SOUTHEASTERN ALASKA                 ( 19)
      <AEIC>. ML 3.4 (AEIC), 3.5
      (PGC).

YKU      0.73 142 iP     30 02.06   0.5
                  eS     30 12.37
PNL      0.77 127 iP     30 02.05  -0.3
                  eS     30 13.74
CTGM     0.91 337 iP     30 04.60  -0.4
                  eS     30 18.26
BALM     1.24 317 iP     30 09.51  -1.6
                  eS     30 27.94
TGL      1.26 301 iP     30 09.70  -1.7
                  eS     30 28.34
CROM     1.40 298 eP     30 11.51  -2.2
                  eS     30 31.25
HYT      1.69  64 Pc     30 18.80   0.8
GLB      2.04 311 eP     30 21.95  -1.1
                  eS     30 48.78
PLBC     2.25 106 P      30 26.00   0.0
WHC      2.80  75 P      30 33.90   0.0
                  S      31 10.70
KLU      2.94 300 eP     30 34.23  -1.6
VLZ      2.99 292 eP     30 33.89  -2.6
VZW      3.07 290 eP     30 35.06  -2.7
GLI      3.29 286 eP     30 38.34  -2.4
TOA      3.34 309 eP     30 40.56  -1.0
SDG      3.38 317 eP     30 41.50  -0.5
TMW      3.40 342 eP     30 42.58   0.3
KNIM     3.56 277 eP     30 43.53  -1.0
LTI      3.63 272 eP     30 42.74  -2.8
PAX      3.67 323 eP     30 45.98  -0.3
DWY      3.97   8 P      30 50.40   0.0
KNK      4.05 292 eP     30 53.95   2.3
PLRM     4.41 293 eP     30 57.72   1.0
        23 obs. associated
-----------------------------------------
&  JUL  25, 1991  01h 46m 46.00s
   47.458 N          122.608 W
   DEPTH =  24.6km
 WASHINGTON                          ( 29)
      <SEA>. ML 3.3 (SEA). Felt (IV)
      at Bremerton, Gig Harbor,
      Poulsbo and Vashon. Felt (III)
      at Belfair, Burley, Dockton,
      Manchester, Normandy Park, Port
      Orchard, Silverdale, South Colby
      and Tracyton.

GMW      0.15 307 Pc     46 50.61  -0.5
MEW      0.26 186 Pd     46 52.70   0.3
SPW      0.26  69 Pc     46 52.81   0.4
                  S      46 58.10
SEA      0.28  46 P      46 53.51   0.8
HDW      0.36 302 Pc     46 53.18  -0.8
PGW      0.36   1 Pd     46 53.59  -0.4
GHW      0.48 151 Pd     46 55.13  -0.6
                  S      47 01.90
SMW      0.52 255 Pc     46 55.82  -0.7
                  S      47 03.73
BLH      0.54  46 Pd     46 56.22  -0.6
RMW      0.54  90 Pc     46 56.32  -0.7
BLN      0.60 336 Pd     46 56.67  -1.2
CPW      0.60 217 Pd     46 57.03  -0.9
GSM      0.61 114 Pc     46 57.52  -0.6
HTW      0.66  58 Pd     46 58.01  -0.9
RVC      0.67 140 Pc     46 58.37  -0.7
LMW      0.82 165 Pd     47 00.51  -1.1
OSD      0.82 297 Pc     47 00.96  -0.8
REMR     0.83 140 Pc     47 00.63  -1.1
FMW      0.83 129 Pc     47 00.77  -1.0
JCW      0.87  32 Pd     47 01.05  -1.3
OHW      0.87   3 Pd     47 00.77  -1.5
LON      0.89 142 Pc     47 01.54  -1.3
ONR      0.98 234 P      47 03.65  -0.5
STW      1.00 314 P      47 03.53  -0.8
CMW      1.02  19 Pd     47 03.60  -1.2
CZM      1.03 176 Pd     47 03.64  -1.2
KOSW     1.04 164 Pd     47 04.02  -1.0
WPW      1.05 136 Pc     47 04.52  -0.7
BMW      1.07 204 Pd     47 04.40  -1.1
OOW      1.11 285 Pc     47 05.86  -0.1
GLK      1.13 142 Pc     47 05.73  -0.6
TDL      1.14 166 Pd     47 05.62  -0.9
OBC      1.15 301 Pd     47 04.56  -2.1
                  S      47 09.14
ERK      1.17 171 Pd     47 05.63  -1.3
TWW      1.23 104 P      47 07.88   0.1
MCW      1.23 353 Pd     47 06.82  -0.9
RPW      1.23  36 Pd     47 07.21  -0.6
STD      1.25 168 Pd     47 07.30  -0.8
SOSW     1.26 165 Pd     47 07.31  -1.0
FL2      1.27 172 Pd     47 07.45  -1.0
OFK      1.28 293 P      47 08.09  -0.3
SHW      1.29 168 Pd     47 08.04  -0.6
REMW     1.29 167 Pd     47 08.33  -0.5
ESD      1.30 166 P      47 08.26  -0.6
RVW      1.31 184 Pd     47 08.09  -0.8
HSR      1.32 167 Pd     47 08.70  -0.4
JLK      1.35 166 Pd     47 08.99  -0.5
CDFW     1.40 164 Pd     47 09.70  -0.4
LVP      1.40 174 Pd     47 09.59  -0.6
TBM      1.40 101 Pc     47 10.53   0.4
MBW      1.41  19 Pd     47 10.00  -0.4
NAC      1.42 120 Pc     47 10.77   0.4
MTMW     1.46 169 Pd     47 10.66  -0.4
ASR      1.48 152 Pd     47 11.29  -0.1
NLO      1.49 203 Pd     47 11.31  -0.1
EBG      1.50 111 Pc     47 12.06   0.5
ETW      1.55  84 Pc     47 13.08   0.7
NLW      1.65  67 P      47 14.32   0.4
GULW     1.69 155 Pd     47 14.58   0.2
YAKW     1.70 123 P      47 15.72   1.2
                  S      47 36.54
CBSW     1.77  78 P      47 15.71   0.1
MXC      1.81 118 P      47 16.47   0.4
WTV      1.81  81 P      47 16.14   0.0
APM      1.84 159 P      47 17.18   0.7
VTG      1.86 105 P      47 16.50  -0.2
KMOR     1.92 199 Pd     47 17.29  -0.5
GL2      1.94 140 P      47 18.53   0.5
VLMM     1.96 168 Pc     47 19.07   0.7
BVW      1.97 108 P      47 18.59   0.2
DHW2     1.99  74 P      47 18.82   0.1
PGO      1.99 177 P      47 19.32   0.6
BRVW     2.04 118 P      47 19.69   0.2
EPH      2.05  92 P      47 19.18  -0.4
VLL      2.10 162 P      47 21.34   1.0
MDW      2.12 112 P      47 20.76   0.2
SAW      2.18  82 P      47 24.71   3.2
                  S      47 52.59
WAH2     2.20 108 P      47 21.71   0.1
RC1      2.23 102 ePc    47 21.75  -0.3
TDH      2.24 165 P      47 24.32   1.9
                  S      47 54.28
VFP      2.28 159 P      47 23.96   1.0
CRF      2.29 105 Pc     47 22.54  -0.3
LOCW     2.29 108 P      47 23.08   0.1
GT2      2.31 174 P      47 24.16   0.8
VGB      2.32 146 P      47 23.71   0.3
GBL      2.32 111 P      47 25.94   2.6
PRW      2.36 121 P      47 27.29   3.3
MJ2      2.40 111 P      47 24.31  -0.1
WRD      2.41 100 P      47 23.96  -0.7
WIW      2.50 113 P      47 26.47   0.6
VBEM     2.50 163 Pc     47 27.51   1.4
PATW     2.52 128 P      47 29.25   3.1
                  S      48 03.08
OD2      2.65  90 P      47 31.28   3.2
                  S      48 05.80
OD2      2.65  90 P      47 27.00  -1.1
CROR     2.72 155 P      47 32.77   3.7
                  S      48 06.00
PNT      2.73  46 P      47 29.40   0.2
JBO      2.77 135 Pc     47 33.95   4.2
DPW      3.01  80 P      47 31.83  -1.3
VIPM     3.26 154 P      47 38.15   1.3
HBO      3.62 177 P      47 43.27   1.2
```

25d 01h

```
NEW      3.78  76 P      47 44.00   -0.1
       100 obs  ossociated
-----------------------------------------
   JUL  25, 1991  01h 52m 45.21± 0.35s
   30.317 N ± 6.3km   94.791 E ± 4.3km
   DEPTH =  33.0km  (normol)
   4.8mb ( 13 obs.)
 TIBET                                (306)

LSA      3.22 260 P      53 37.00    2.0
SHL      5.39 209 eP     54 05.50    0.0
                  eS     55 36.30
CD2      7.75  83 eP     54 40.30    1.7
                  eS     56 05.00
GUN      8.16 255 P      54 44.08   -0.5
PKI      8.66 254 P      54 50.46   -1.1
KKN      8.70 256 P      54 50.52   -1.4
KMI      8.74 124 eP     54 52.50    0.0
DMN      8.90 255 P      54 53.48   -1.3
GKN      9.17 258 P      54 55.86   -2.5
LZH      9.52  50 eP     55 08.00    4.8X
      Z  10s      0.32um
GTA      9.96  23 eP     55 06.80   -2.5
      Z  12s      0.30um
      N  10s      0.30um
GYA     11.14 107 P      55 23.60   -1.7
        12s     40.00nm          5.5mb
CHG     12.06 161 eP     55 38.40    0.7
WMO     14.61 339 P      56 10.50   -0.9
BTO     16.08  46 eP     56 32.00    1.6
TIY     16.37  59 eP     56 36.00    1.9
      Z  14s      0.70um
WHN     16.87  84 eP     56 38.50   -1.9
HHC     17.19  48 eP     56 42.00   -2.5
BJI     19.95  55 eP     57 17.00   -0.2
        1.6s    21.00nm          4.2mb
      Z  12s      0.30um          5.3Msz
NJ2     20.65  79 eP     57 25.00    0.4
GAR     21.87 300 eP     57 37.70    0.7
GBA     23.09 228 Pc     57 50.00    1.0
        0.8s    10.20nm          4.4mb
OUE     24.03 277 eP     58 05.40    7.0X
CN2     27.75  52 P      58 33.10    0.4
MAIO    29.98 291 iPd    58 54.80    1.8
OBN     47.70 319 iP     01 22.00    1.6
        1.5s    *******nm         8.2mb X
VRI     54.20 307 ePc    02 10.00    0.4
MLR     54.80 307 eP     02 15.00    0.8
SKO     58.71 303 eP     02 42.00    0.1
HFS     59.88 325 eP     02 49.50   -0.3
        1.4s    21.50nm          5.1mb
ZST     60.22 311 eP     02 52.60    0.4
NB2     60.93 326 P      02 56.70   -0.3
        1.2s     7.90nm          4.7mb
GRF     63.59 314 eP     03 15.00    0.2
ASPA    65.50 141 eP     03 25.00   -2.5X
        1.0s     2.70nm          4.3mb
LPG     67.80 311 eP     03 42.60    0.3
        1.0s     6.00nm          4.6mb
LPL     67.81 311 eP     03 42.40    0.1
        1.2s    14.90nm          5.0mb
LBF     69.04 313 eP     03 49.30   -0.4
        1.2s    11.90nm          4.8mb
SMF     69.26 313 eP     03 50.70   -0.3
        1.2s    11.90nm          4.8mb
SSF     69.31 313 eP     03 52.30    1.0
        1.2s    14.90nm          4.9mb
AVF     69.51 313 eP     03 52.30   -0.2
        1.2s    13.40nm          4.9mb
TCF     70.44 313 eP     03 58.60    0.4
        1.2s    11.90nm          4.8mb
MTD     76.74 241 iPc    04 36.20    0.8
BUL     81.01 240 iPc    04 58.50   -0.1
     S.D. = 1.2  on  40 of  43 obs.
-----------------------------------------
   JUL  25, 1991  03h 20m 06.62± 0.26s
   41.322 N ± 2.8km   21.096 E ± 2.7km
   DEPTH =   5.0km  (geophysicist)
 YUGOSLAVIA                           (383)
     MD 3.4 (ATH), 2.9 (THE). ML 3.0
     (TTG). Felt (IV) at Ohrid and
     Kicevo.

FNA      0.58 158 iPd    20 16.66   -1.5
                  eS     20 25.22
SKO      0.70  22 iPg    20 20.70    0.1
                  i      20 29.00
                  iSg    20 31.00
                  i      20 32.00
GRG      1.05 110 iPc    20 26.54   -0.4
                  eS     20 40.46
VAY      1.11  90 iPg    20 27.70   -0.2
                  iSg    20 44.70
KZN      1.14 153 eP     20 29.00    0.6
                  eS     20 46.00
KNT      1.37  96 ePc    20 32.50    0.2
                  eS     20 50.22
PVY      1.52 327 iPgd   20 34.29   -0.3
                  iSg    20 56.43
ULC      1.52 295 iPgc   20 32.21   -2.4X
                  iSg    20 54.81
THE      1.57 115 ePd    20 35.46    0.2
KKB      1.59  69 iP     20 36.00    0.5
                  iS     21 01.00
LIT      1.62 139 ePd    20 35.86    0.0
TTG      1.76 310 iPnd   20 37.96    0.0
                  iSn    21 01.10
SOH      1.78 106 ePd    20 38.98    0.7
IVA      1.79 330 iPnc   20 38.49    0.1
                  iSn    21 02.46
IGT      1.88 198 ePc    20 40.90    1.2
                  eS     21 04.58
KEK      1.89 212 eP     20 38.80   -1.0
SRS      1.89  95 ePc    20 39.74   -0.2
BDV      1.95 300 iPnc   20 40.14   -0.6
                  iSn    21 05.28
MMB      2.00  81 eP     20 41.00   -0.4
                  eS     21 14.00
VTS      2.02  50 iP     20 42.00    0.1
                  iS     21 14.00
NKY      2.16 314 iPnd   20 43.88    0.0
                  iSn    21 11.01
HCY      2.24 301 iPnd   20 46.28    1.3
                  iSn    21 17.13
PLE      2.37 328 iPnd   20 46.28   -0.6
                  iSn    21 17.13
OUR      2.40 113 ePd    20 47.18    0.0
PAIG     2.41 124 ePd    20 47.38    0.0
BRY      2.47 311 iPnc   20 47.73   -0.6
                  iSn    21 18.84
AGG      2.48 157 ePd    20 48.02   -0.4
VLS      3.17 187 eP     20 59.10    1.0
RDO      3.35  92 eP     21 00.70    0.0
     S.D. = 0.7  on  28 of  29 obs.
-----------------------------------------
%  JUL  25, 1991  03h 38m 45.02± 1.99s
   40.296 N ±15.1km   29.346 E ±10.1km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                               (366)

IZI      0.10  67 iPg    38 47.70   -0.2
                  eSg    38 51.20
YLV      0.27   4 ePg    38 50.70   -0.1
HRT      0.58  25 iPg    38 56.80    0.0
EYL      0.68  66 ePg    38 58.70    0.2
                  eSg    39 09.70
GPA      0.74  90 ePn    38 59.50    0.0
CTT      1.10 321 iPn    39 05.70    0.0
     S.D. = 0.2  on   6 of   6 obs.
-----------------------------------------
*  JUL  25, 1991  04h 13m 08.01± 1.59s
   36.549 N ±14.0km   70.972 E ± 9.2km
   DEPTH = 193.5 ± 18.2 km
   4.0mb (  6 obs.)
 HINDU KUSH REGION                    (718)

OUE      7.18 209 iPc    14 51.60    0.0
                  eS     16 03.00
NDI      9.44 144 iPd    15 21.00    0.0
GKN     14.35 123 P      16 23.02   -0.7
DMN     14.92 123 P      16 31.22    0.3
KKN     14.92 122 P      16 30.74   -0.2
PKI     15.15 122 P      16 33.70   -0.1
GUN     15.26 120 P      16 35.88    0.7
GBA     23.57 164 Pd     18 02.90    0.6
        0.5s     6.40nm          4.5mb
HFS     43.01 322 eP     20 48.10   -1.4
        0.6s     2.00nm          3.8mb
NB2     44.33 323 P      21 00.60    0.5
        0.6s     1.00nm          3.5mb
YKA     81.20   3 eP     25 04.20    1.4
        0.5s     0.70nm          3.6mb
WRA     82.04 122 P      25 07.00   -0.8
        0.5s     2.00nm          4.1mb
WR2     82.06 122 iPd    25 07.60   -0.3
        0.4s     8.50nm          4.8mb
     S.D. = 0.9  on  13 of  13 obs.
-----------------------------------------
%  JUL  25, 1991  04h 27m 19.39± 0.91s
   41.844 N ± 8.6km   13.030 E ± 6.5km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN ITALY                       (390)

RMP      0.25 262 P      27 24.80    0.2
                  eSg    27 28.60
AQU      0.58  28 P      27 31.10   -0.1
                  eSg    27 40.00
MNS      0.60 334 P      27 30.70   -0.8
                  eSg    27 40.60
SDI      0.60 103 P      27 30.40   -1.2
                  eSg    27 39.50
DUI      1.08  99 P      27 41.00    1.2
ASS      1.26 348 P      27 43.20    0.4
                  eSg    28 00.10
ARV      1.65 358 P      27 49.00    0.4
     S.D. = 1.0  on   7 of   7 obs.
-----------------------------------------
?  JUL  25, 1991  04h 37m 09.77± 1.47s
   6.888 S ±15.0km   11.637 W ±27.2km
   DEPTH =  10.0km  (geophysicist)
   4.6mb (  8 obs.)
 ASCENSION ISLAND REGION              (408)

KIC     14.85  28 P      40 41.40   -0.3
BUL     41.17 113 iPc    44 55.00   -1.4
KRI     41.48 108 iPc    45 00.10    1.1
HVD     42.03 129 e(P)   45 14.50   11.1X
SLR     42.42 121 iPc    45 07.00    0.4
MTD     43.34 107 iPc    45 14.30    0.1
SIV     49.18 255 P      46 09.20    8.8X
TCF     54.36  12 eP     46 39.30    0.4
        0.8s     5.35nm          4.6mb
LPG     54.69  16 eP     46 42.30    0.6
        0.8s     3.35nm          4.4mb
LPL     54.70  16 eP     46 42.40    0.7
        0.9s     4.90nm          4.5mb
SSF     55.37  13 eP     46 46.30    0.1
        1.0s     8.00nm          4.7mb
LBF     55.40  13 eP     46 46.30   -0.2
        1.0s     8.00nm          4.7mb
LDF     56.16   9 eP     46 55.60    3.7X
        0.9s     9.85nm          4.8mb
HFS     69.76  13 eP     48 20.60   -1.3
        1.0s     6.60nm          4.7mb
NB2     70.05  12 P      48 23.60   -0.1
        0.9s     1.40nm          4.1mb
     S.D. = 0.8  on  12 of  15 obs.
-----------------------------------------
   JUL  25, 1991  04h 41m 10.23± 0.39s
   49.159 N ± 3.4km    6.906 E ± 4.6km
   DEPTH =  10.0km  (geophysicist)
 GERMANY                              (543)
     ML 2.7 (STR). MD 2.7 (UCC).

GWF      0.50 111 Pg     41 20.60    0.1
RUP      0.55  10 ePg    41 21.38   -0.1
WLF      0.71 316 iPd    41 23.94   -0.2
                  iS     41 33.47
CDF      0.79 162 Pg     41 25.28   -0.3
                  Sg     41 36.43
ABH      0.84  30 ePg    41 26.37    0.0
ECH      0.96 170 Pg     41 28.49    0.0
                  Sg     41 42.15
VITF     1.12 213 Pg     41 30.73   -0.6
MOF      1.32 173 Pg     41 34.55   -0.1
                  Sg     41 52.68
TOD      1.32  69 ePg    41 33.97   -0.6
FEL      1.48 150 Pg     41 38.64    1.6
                  Sg     41 58.21
MEM      1.56 338 iP     41 37.77   -0.3
                  i      41 39.30
ENN      1.73 339 ePn    41 42.50    2.0X
        0.4s    19.00nm
                  iSn    42 07.40
DOU      1.77 303 iP     41 40.90   -0.2
                  i      41 43.00
                  LR     11 43.00
LOMF     1.81 182 Pn     41 41.17   -0.6
SNF      2.17 310 P      41 48.10    1.2
     S.D. = 0.7  on  14 of  15 obs.
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   JUL  25, 1991  05h 05m 42.92± 1 46s
   38.996 N ± 6.5km   30.437 E ±15.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                                (366)
      MD 3.3 (ISK).

KHL      0.98 227 iPg    06 01.10  -0.5
                  eSg    06 16.10
GPA      1.29 356 iPn    06 06.70  -0.2
IZI      1.53 331 ePn    06 10.80   0.4
EYL      1 58 352 ePn    06 11.70   0.5
YLV      1.77 333 iPn    06 13 50  -0.3
GBZT     1.95 337 ePn    06 16.00  -0.3
ISK      2.32 333 ePn    06 21.50  -0.2
EDC      2 40 305 iPn    06 22.90   0.0
YER      2.52 223 ePn    06 25.00   0.4
IZM      2.55 257 ePn    06 25.00  -0.1
CTT      2.64 325 ePn    06 26.20  -0.1
EZN      3.29 286 ePn    06 36.00   0.5
      S.D. = 0.4  on  12 of  12 obs.
-----------------------------------------
*  JUL  25, 1991  05h 09m 26.75± 1.13s
   18.062 S ±11.4km   34.627 E ±11.3km
   DEPTH =  10.0km  (geophysicist)
   4.1mb (  1 obs.)
 MOZAMBIQUE                            (581)

SONG     3.02 324 ePn    10 14.70  -0.9
                  eSn    10 51.70
                  iSg    11 02.40
CIR      4.11 224 iPn    10 31.50   0.5
                  iSn    11 16.00
                  iSg    11 33.00
PTZ      4.93 320 iPn    10 44.00   1.2
                  iSn    11 42.00
                  iSg    12 04.00
KRI      4.94 284 iPn    10 45.30   2.4X
                  iSn    11 36.50
                  iSg    12 03.00
NPA      5.33  57 iPn    10 48.30  -0.1
                  iSn    11 45.40
                  iSg    12 12.00
BUL      6.05 249 iPn    10 57.90  -0.7
                  iSn    12 03.00
                  iSg    12 33.00
SEK     12.07 211 eP     12 17.00  -4.9X
                  S      14 20.50
WIN     17.04 252 iPd    13 22.00  -4.9X
      0.9s    14.29nm          4.1mb
      S.D. = 1.2  on   5 of   8 obs.
-----------------------------------------
   JUL  25, 1991  06h 47m 19.02± 0.49s
   43.104 N ± 5.7km    0.342 W ± 3.5km
   DEPTH =   5.0km  (geophysicist)
 PYRENEES                              (378)
      ML 3.0 (LDG).

JAU      0.07 197 Pg     47 20.52  -0.3
OGE      0.12 304 Pg     47 22.54   1.0
ESCF     0.17 262 Pg     47 22.69   0.1
                  Sg     47 25.09
ATE      0.26 266 Pg     47 24.25  -0.1
                  Sg     47 28.11
LHE      0.28 227 Pg     47 24.21  -0.5
                  Sg     47 27.50
ISSF     0.34 257 Pg     47 25.94   0.0
                  Sg     47 30.66
MADF     0.35 277 Pg     47 26.37   0.2
                  Sg     47 31.68
EPF      0.50  98 Pg     47 30.10   1.0
                  Sg     47 36.70
SALF     1.18 106 Pg     47 41.84   0.4
LPO      1.93  34 Pg     47 56.30   3.5X
                  Sg     48 23.40
LFF      1.99  23 Pg     47 57.40   3.7X
                  Sg     48 25.40
CAF      2.52  43 Pn     48 00.60  -0.7
                  Pg     48 09.30
                  Sg     48 42.10
RJF      2.57  31 Pn     48 01.00  -1.1
                  Pg     48 09.50
                  Sg     48 43.00
MFF      3.50   2 Pg     48 27.20  12.0X
                  Sg     49 11.60
      S.D. = 0.7  on  11 of  14 obs.
-----------------------------------------
*  JUL  25, 1991  08h 00m 52.62± 0.77s
   51.202 S ±10.0km  138.650 E ±24.0km
   DEPTH =  10.0km  (geophysicist)
   4.8mb (  7 obs.)
 SOUTH OF AUSTRALIA                    (437)

BFD     14.29  13 eP     04 17.00   0.0
                  eTT    17 34.00
ADE     16.23   0 eP     04 43.20   1.0
      0.9s    90.76nm          4.9mb
CAN     17.54  29 ePKP   05 03.40   4.7X
BWA     18.21  27 ePKP   05 06.30  -0.6
STK     19.43   8 iPc    05 21.60  -0.2
      1.3s     7.40nm          3.8mb
CMS     20.40  18 eP     05 31.00  -1.2
COO     22.84  31 eP     05 56.00  -0.9
RMO     25.85  21 eP     06 28.70   2.9
      1.2s    44.00nm          5.0mb
ASPA    27.73 351 iPd    06 43.50   0.4
      0.9s     8.50nm          4.5mb
WR2     31.37 352 eP     07 14.70  -0.9
      0.7s    10.90nm          4.9mb
WRA     31.38 352 P      07 15.00  -0.6
      1.0s    10.70nm          4.7mb
SPA     38.99 180 iPc    08 21.00   0.5
      1.5s    30.68nm          4.8mb
NVL     52.52 200 P      10 07.00  -0.5
PKI     91.35 315 P      14 00.00   0.1
NB2    149.90 310 PKP    20 42.40   4.1X
      1.0s     2.20nm
      S.D. = 1.2  on  13 of  15 obs.
-----------------------------------------
   JUL  25, 1991  08h 26m 24.77± 0.24s
   43.124 N ± 2.6km   31.303 E ± 3.0km
   DEPTH =  10.0km  (geophysicist)
   4.6mb (  6 obs.)
 BLACK SEA                             (360)
      MD 4.2 (ATH).

KAS      2.53 133 iPnd   27 06.80   0.2
                  iSg    27 33.00
HRT      2.60 208 iPn    27 08.80   1.1
ITU      2.64 221 iPnc   27 09.00   0.9
                  iSg    27 38.00
ISK      2.65 220 iPn    27 08.80   0.5
EYL      2.70 199 iPn    27 09.30   0.2
GBZT     2.71 211 ePn    27 09.50   0.3
                  iSg    27 38.20
TLB      2.78 303 ePc    27 10.00  -0.1
GPA      2.93 195 iPn    27 12.80   0.5
YLV      2.93 210 iPn    27 13.30   0.9
CFR      3.06 313 iPd    27 14.50   0.4
IZI      3.10 207 ePn    27 11.00  -3.7X
EDC      3.78 224 ePn    27 24.30  -0.1
ISR      3.97 302 iPd    27 28.00   0.9
BUC      3.99 291 eP     27 32.00   4.8X
BUC1     4.01 290 eP     27 19.00  -8.6X
PPE      4.06 321 iPc    27 28.00  -0.2
KVT      4.08 118 iPn    27 27.50  -1.0
ALT      4.16 193 iPn    27 29.80   0.0
VRI      4.27 312 ePd    27 31.00  -0.3
CLI      4.46 322 eP     27 35.00   1.0
MLR      4.52 303 iPd    27 35.50   0.6
RDO      4.72 247 ePn    27 37.10  -0.6
                  eSn    28 29.00
IAS      4.85 328 eP     27 37.00  -2.5
MTUR     4.96 297 ePd    27 41.00  -0.1
KHL      4.98 196 ePn    27 41.10  -0.3
CMP      4.99 298 ePd    27 43.00   1.5
PTT      5.16 319 eP     27 44.00   0.1
PRK      5.42 226 ePn    27 47.80   0.2
IZM      5.63 214 ePn    27 46.00  -4.6X
CIN      6.04 205 eP     27 55.00  -1.2
OUR      6.15 246 ePc    27 56.48  -1.2
ELL      6.46 190 eP     28 03.00   0.7
KNT      6.55 255 ePc    28 03.20  -0.3
                  eS     29 02.96
PAIG     6.55 243 ePc    28 03.24  -0.3
DEV      6.61 298 ePc    28 05.00   0.7
BMR      7.13 312 iPc    28 17.00   5.4X
AGG      7.92 242 ePd    28 21.36  -1.3
BEO      8.01 286 e(P)   28 52.50  28.6X
PSZ      9.33 305 iP     28 42.10  -0.2
SPC      9.78 312 iP     28 48.30  -0.3
KRA     10.44 316 eP     29 06.50   9.0X
OBN     12.47  14 eP     28 41.00 -44.0X
      1.0s   *******nm
                  ePP    28 54.00
                  iS     31 35.00
                  iSS    31 52.00
KSP     12.81 312 iPc    29 18.50 -11.1X
HFS     20.12 334 eP     30 58.50  -2.8X
      0.6s    11.50nm          4.4mb
    Z  16s     0.14um          3.4MszX
                  LR     37 27.00
NB2     21.62 333 P      31 15.40  -1.3
      0.7s     2.40nm          3.7mb
MAIO    22.67  98 eP     31 29.00   1.6
GKN     45.19  91 P      34 43.62  -0.2
DMN     45.76  92 P      34 48.18  -0.2
KKN     45.78  91 P      34 48.34  -0.2
PKI     46.00  91 P      34 50.28  -0.1
GUN     46.15  91 P      34 51.18  -0.5
TIC     48.37 232 P      35 08.00  -0.8
KIC     48.44 231 P      35 08.30  -1.0
LIC     48.72 232 P      35 10.70  -0.7
LZH     54.74  71 eP     35 56.00  -0.7
      1.0s    21.00nm          5.1mb
MBC     59.43 352 eP     36 29.50   0.2
INK     68.31 354 eP     37 19.00  -8.5X
YKA     71.23 344 eP     37 45.50   0.0
      0.7s     3.30nm          4.6mb
FBA     72.32 360 eP     37 53.10   1.2
      1.0s     5.50nm          4.6mb
SVW     75.97   3 eP     38 13.60   0.4
      1.0s    11.00nm          4.9mb
BALM    76.07 357 eP     38 14.60   0.8
SES     81.24 337 eP     38 43.00   0.9
      S.D. = 0.8  on  51 of  62 obs.
-----------------------------------------
?  JUL  25, 1991  08h 51m 09.45± 5.50s
   40.584 N ±44.9km   23.007 E ± 9.7km
   DEPTH =  10.0km  (geophysicist)
 GREECE                                (364)

THE      0.06 326 ePc    51 11.66   0.0
SOH      0.35  48 ePc    51 16.78   0.0
                  eS     51 21.74
KNT      0.58 352 ePc    51 21.22  -0.1
                  eS     51 28.34
GRG      0.59 309 ePc    51 21.46   0.0
                  eS     51 29.46
      S.D. = 0.0  on   4 of   4 obs.
-----------------------------------------
   JUL  25, 1991  08h 56m 06.55± 0.80s
   44.063 N ± 4.1km    6.355 E ±10.6km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                                (538)
      ML 2.4 (LDG).

FRF      0.54 157 Pg     56 17.60   0.0
                  Sg     56 25.60
LRG      0.61 180 Pg     56 18.70  -0.1
                  Sg     56 27.10
LMR      0.74 171 Pg     56 20.90  -0.1
                  Sg     56 31.40
DOI      0.78  55 P      56 21.70  -0.1
                  eSg    56 31.30
SBF      0.80 104 Pg     56 22.30   0.1
                  Sg     56 34.20
BNI      1.02  13 P      56 24.90  -1.0
                  eSg    56 38.30
LPG      1.46  11 Pg     56 33.70   0.5
LPL      1.48  10 Pg     56 34.00   0.6
      S.D. = 0.6  on   8 of   8 obs.
-----------------------------------------
%  JUL  25, 1991  09h 11m 15.75± 1.18s
   40.065 N ±12.1km   27.371 E ± 8.3km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                                (366)
      MD 3.2 (ISK).

KGT      0.39 352 ePg    11 23.80   0.1
EDC      0.47  53 iPg    11 24.30  -1.0
                  eSg    11 31.30
EZN      0.84 254 ePn    11 31.70  -0.2
CTT      1.35  36 iPn    11 41.20   0.6
YLV      1.61  71 iPn    11 44.80   0.4
      S.D. = 0.9  on   5 of   5 obs.
-----------------------------------------
*  JUL  25, 1991  09h 22m 24.67± 0.96s
   20.017 S ±13.2km  133.834 E ± 8.1km
   DEPTH =   5.0km  (geophysicist)
 NORTHERN TERRITORY, AUSTRALIA         (591)
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25d 09h

```
WR2      0.50  82 iPc    22 35.20    0.4
ASPA     3.63 179 iPc    23 28.00    5.2X
                 iS     24 12.70
QIS      5.44  97 iPd    23 48.20   -0.3
                 eS     24 49.00
                 e      25 19.00
KNA      6.42 311 eP     24 02.00   -0.3
                 eS     25 10.00
WARB     9.02 226 eP     24 40.20    1 5
                 eS     26 12.00
FORR    11.96 204 eP     25 17.50   -1.3
                 eS     27 27.00
      S.D. = 1.5  on   5 of   6 obs.
-----------------------------------------
?  JUL  25, 1991  10h 22m 12 05± 4.34s
   14.251 N ±47.2km   92.772 W ±19.7km
   DEPTH =  77.9 ± 16.7 km
   4.2mb (  1 obs.)
 NEAR COAST OF CHIAPAS, MEXICO    ( 69)

TPX      0.82  37 iP     22 28.99    0.0
                 iS     22 46.50
SCX      2.47   3 iP     22 51.00    0.0
                 iS     23 23.00
OXX      4.73 307 iP     23 27.50    4.8X
IISM     6.45 317 eP     23 46.50    0.1
PPM      7.38 311 eP     23 56.00   -3.7X
YKA     50.61 347 eP     31 04.30   -0.5
         0.8s     1.90nm          4.2mb
INK     59.99 344 eP     32 12.00   -0.3
MBC     63.57 353 eP     32 37.00    0.8
      S.D. = 0.7  on   6 of   8 obs.
-----------------------------------------
%  JUL  25, 1991  10h 55m 22.45± 2.03s
    1.016 S ±10.3km   77.974 W ±19.7km
   DEPTH =  33.0km  (normol)
 ECUADOR                            (107)

VC1      0.57 311 P+     55 37.70    3.1X
TUNG     0.62 230 P      55 35.10    0.1
                 eS     55 56.30
OTO      0.98 325 eP     55 40.60    0.4
QUIL     0.98 285 Pd     55 40.10   -0.3
QUR      1.01 327 iPd    55 41.00    0.3
GGP      1.04 323 P+     55 41.50    0.2
YANA     1.08 326 P+     55 41.70    0.0
CAYA     1.09 360 Pd     55 42.30    0.4
COTA     1.39 345 P+     55 45.20   -1.0
      S.D. = 0.6  on   8 of   9 obs.
-----------------------------------------
   JUL  25, 1991  12h 25m 00.46± 0.29s
    5.763 S ± 4.1km  130.758 E ± 7.9km
   DEPTH =  33.0km  (normol)
   5.2mb ( 18 obs.)
 BANDA SEA                          (280)

KNA     10.11 191 iPd    27 30.00    3.4X
         0.4s   212.00nm          6.8mb X
                 eS     29 26.00
WR2     14.53 166 iPc    28 24.50   -1.2
         0.5s   135.40nm          5.7mb
                 eS     30 55.10
LAT     16.17  94 eP     28 52.80    5.8X
PMG     16.65 104 eP     28 56.50    3.5X
QIS     17.03 151 eP     28 58.00    0.2
                 iS     31 53.60
ASPA    18.06 171 iPd    29 11.60    1.0
         0.3s    66.80nm          5.3mb
TRT     18.10 263 iPd    29 17.60    6.5X
MBL     18.61 214 eP     29 19.40    2.0
                 eS     32 37.00
KKM     18.66 309 iPc    29 21.90    3.7X
         0.9s   111.50nm          5.1mb
CTAO    20.73 135 iPd    29 42.00    1.1
                 i      29 53.00
                 iS     32 54.00
NANU    22.25 220 iPc    29 56.80    0.6
QLP     24.37 150 eP     30 18.00    1.2
                 i      30 38.80
                 eS     34 44.00
FORR    25.08 185 eP     30 22.50   -1.1
COOL    26.57 199 eP     30 37.00   -0.5
RMQ     26.83 142 eP     30 43.00    3.1X
                 epP    31 11.70 136kmX
                 eS     35 17.00
STK     27.89 160 iPd    30 48.90   -0.6
         0.4s     3.10nm          4.3mb
                 eS     36 08.00
BAL     28.02 206 eP     30 50.50   -0.2
         0.3s    19.00nm          5.3mb
KLB     28.44 204 iPc    30 54.40    0.0
         0.3s    30.00nm          5.5mb
CMS     29.23 153 eP     31 01.00   -0.5
                 e      31 30.00
                 eS     36 47.00
MUN     29.42 206 eP     31 03.20    0.0
NWAO    29.82 203 eP     31 06.50   -0.3
ADE     29.97 167 eP     31 08.50    0.3
COO     31.69 144 eP     31 24.00    0.6
QIZ     32.12 321 P      31 27.80    0.6
LOE     36.77 309 eP     32 08.00    0.9
SSE     37.78 347 P      32 16.00    0.7
         0.6s    10.00nm          4.9mb
                 pP     32 26.00   34kmX
BDT     38.82 307 eP     32 25.50    1.2
         0.8s    85.10nm          5.6mb
NJ2     39.28 344 Pc     32 29.00    1.1
WHN     39.37 337 Pc     32 30.50    1.8
         1.0s    50.00nm          5.2mb
GYA     39.64 325 iPc    32 30.80   -0.4
         1.0s    30.00nm          5.0mb
CHG     39.74 309 iPc    32 33.20    1.2
         0.9s    46.22nm          5.2mb
KMI     41.05 320 Pc     32 44.50    1.6
         1.2s    80.00nm          5.3mb
MAT     42.66   9 eP     32 55.00   -0.7
         0.9s    13.45nm          4.7mb
XAN     44.65 334 iPc    33 11.50   -0.5
CD2     44.68 326 eP     33 12.20   -0.1
TIY     46.50 340 Pc     33 26.80    0.2
BJI     47.52 345 eP     33 34.50    0.0
         1.0s    21.00nm          5.1mb
CN2     49.57 355 P      33 49.50   -0.8
HHC     49.62 341 eP     33 51.40    0.5
BTO     49.92 339 P      33 52.80   -0.4
GTA     53.27 330 iPc    34 18.80    0.3
         1.0s    10.00nm          4.8mb
                 pP     34 26.80   26kmX
                 PcP    35 24.80
GUN     54.72 310 P      34 29.38   -0.3
PKI     54.91 309 P      34 30.30   -0.7
KKN     55.12 310 P      34 31.86   -0.5
DMN     55.16 309 P      34 32.36   -0.4
KOD     55.40 287 eP     34 34.00   -0.7
GKN     55.72 310 P      34 36.24   -0.4
GBA     56.32 290 Pc     34 38.20   -2.7X
         1.2s    29.80nm          5.2mb
HYB     56.46 295 iPc    34 40.10   -1.9
NDI     61.84 307 iPc    35 17.00   -2.0
         0.4s    93.22nm          6.3mb X
WMQ     62.78 326 P      35 25.00   -0.1
         1.0s    60.00nm          5.7mb
YAK     67.59 359 iPc    35 54.50   -1.1
SPA     84.28 180 iPd    37 28.40   -1.7
         0.7s    10.55nm          5.1mb
KIC    135.75 273 PKP    44 10.40 -10.1X
LIC    136.03 273 PKP    44 11.00 -10.1X
      S.D. = 0.9  on  46 of  55 obs.
-----------------------------------------
&  JUL  25, 1991  12h 30m 58.84s
   60.170 N          152.250 W
   DEPTH =  98.6km
 SOUTHERN ALASKA                    (  2)
      <AEIC>.

RED      0.36 314 iPc    31 13.21   -0.7
                 eS     31 24.44
RSO      0.39 320 iPc    31 13.59   -0.6
                 eS     31 24.97
REF      0.39 325 iPc    31 13.67   -0.5
RDT      0.41 349 iPc    31 13.42   -0.8
                 eS     31 25.35
RDW      0.42 319 iPc    31 13.71   -0.7
RDN      0.43 324 iPc    31 13.73   -0.6
                 eS     31 25.26
IVS      0.45 249 eP     31 13.07   -1.6
DFR      0.48 333 iPc    31 13.95   -0.7
NNL      0.49 105 iPc    31 14.84    0.2
NCT      0.52 320 eP     31 14.11   -0.9
HOM      0.60 149 iPc    31 15.24   -0.2
                 eS     31 27.81
NKA      0.76  41 iPc    31 18.14    1.2
XLV      0.77 159 iPc    31 16.09   -0.9
BRLK     0.80 120 eP     31 16.71   -0.6
CNPM     0.82 141 iPc    31 16.99   -0.6
                 eS     31 31.27
AUE      0.99 215 ePd    31 18.22   -1.1
AUH      1.01 217 ePd    31 18.62   -1.0
SPU      1.02   5 iPd    31 19.04   -0.7
                 eS     31 34.92
AUI      1.03 216 ePd    31 18.56   -1.2
                 eS     31 34.52
CKL      1.03 358 iPd    31 19.22   -0.7
PDB      1.05 249 iPc    31 18.83   -1.1
                 eS     31 34.73
SLKM     1.06  71 iPc    31 19.03   -1.2
                 eS     31 35.14
BGL      1.10 356 iPd    31 20.08   -0.6
CGLM     1.15   6 iPd    31 20.64   -0.6
                 eS     31 37.32
NCG      1.24   2 iPd    31 21.58   -0.7
SEW      1.40  92 ePc    31 22.57   -1.6
CDD      1.43 210 iPd    31 23.03   -1.6
                 eS     31 43.93
MCNL     1.45 228 iPd    31 23.23   -1.5
                 iS     31 42.08
SUA      1.49  29 iPd    31 24.97   -0.5
                 eS     31 45.42
SYI      1.57 183 iPd    31 25.04   -1.2
                 eS     31 46.15
BGM      1.70 244 eP     31 27.19   -0.8
PMS      1.71  50 iPd    31 27.21   -0.9
                 eS     31 48.51
SKT      1.85  11 iPd    31 28.76   -1.2
PWA      1.88  37 eP     31 29.50   -0.8
SVW      1.91 301 iPd    31 29.50   -1.2
         0.3s   128.36nm
PLRM     2.09  46 eP     31 31.50   -1.5
PMR      2.09  46 iPd    31 32.50   -0.5
         0.4s   108.62nm
LTI      2.21  91 iPc    31 32.65   -1.9
KNK      2.24  55 ePd    31 33.24   -1.8
                 eS     31 59.69
KNIM     2.26  83 iPc    31 32.55   -2.7
                 eS     31 59.13
GHO      2.28  44 ePd    31 34.35   -1.4
MTU      2.31  93 iPc    31 34.47   -1.6
KDC      2.43 183 eP     31 34.80   -2.8
CUT      2.44  22 eP     31 36.40   -1.3
GLI      2.65  72 eP     31 37.19   -3.3
VZW      2.95  70 eP     31 41.80   -2.9
VLZ      3.07  69 eP     31 43.59   -2.6
HUR      3.08  23 eP     31 45.87   -0.6
TTA      3.30 329 eP     31 47.60   -1.9
KLU      3.37  64 iPc    31 47.99   -2.5
TRF      3.42  15 eP     31 49.40   -1.9
KTH      3.45  10 eP     31 50.83   -0.8
TOA      3.53  54 eP     31 51.16   -1.5
RND      3.63  25 ePd    31 52.49   -1.5
MCK      3.90  22 eP     31 56.64   -1.1
SDG      4.00  51 eP     31 58.86   -0.2
BWN      4.22  17 eP     32 00.66   -1.4
PAX      4.29  46 eP     32 01.92   -1.2
GLB      4.33  69 ePc    32 00.55   -3.0
NEA      4.66  17 eP     32 05.92   -2.2
TGL      4.70  79 eP     32 06.69   -2.1
WRH      4.73  22 eP     32 06.82   -2.3
CCB      4.94  23 eP     32 09.54   -2.5
BALM     4.96  76 eP     32 10.11   -2.3
MDM      5.15  19 eP     32 12.74   -2.2
FBA      5.18  22 iPc    32 13.00   -2.3
         0.5s    26.86nm          4.7mb X
CTGM     5.44  77 eP     32 17.34   -1.8
         67 obs. associoted
-----------------------------------------
   JUL  25, 1991  12h 40m 40.14± 0.65s
   44.090 N ± 4.9km    7.203 E ± 4.1km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                     (545)
      ML 2.3 (GEN).

STV      0.18  30 P      40 44.28    0.1
                 S      40 47.36
ENR      0.21  49 P      40 44.69    0.0
                 S      40 47.97
DOI      0.42   4 P      40 48.60    0.0
                 eSg    40 54.30
PZZ      0.42 350 P      40 48.49   -0.3
                 S      40 54.54
ROB      0.52  67 P      40 50.74    0.0
                 S      40 58.12
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IMI      0.53 110 P      40 50.64  -0.2
                  S      40 57.10
FIN      0.73  80 P      40 54.43  -0.1
BHB      0.75   3 P      40 54.41  -0.5
                  S      41 04.66
RRL      0.88 340 P      40 57.82   0.6
                  S      41 09.51
PCP      1.06  64 P      41 00.79   0.6
                  S      41 14.16
CDR      1.12 249 ePgc   41 01.10   0.0
                  eSg    41 14.80
     S.D. = 0.4  on  11 of  11 obs.
-----------------------------------
%  JUL  25, 1991  12h 49m 31.09± 0.80s
   38.941 N ± 7.5km   27.858 E ± 9.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                          (366)
      MD 2.7 (ISK).

IZM      0.71 221 ePg    49 45.00  -0.2
                  eSg    49 55.00
EDC      1.40   0 ePn    49 56.50  -0.2
KHL      1.44 115 ePn    49 57.50   0.2
EZN      1.48 307 ePn    49 58.20   0.5
KGT      1.57 344 iPn    49 58.80  -0.2
     S.D. = 0.4  on   5 of   5 obs.
-----------------------------------
   JUL  25, 1991  14h 32m 23.95± 0.47s
   21.567 S ± 4.0km   66.579 W ± 6.5km
   DEPTH = 224.2 ±  5.2 km
   4.7mb (  7 obs.)
 SOUTHERN BOLIVIA                (125)

SLA      3.30 163 ePc    33 21.90   2.9
ANT      4.13 238 iPc    33 29.00   0.2
                  iS     34 14.30
CNCB     4.91 344 iPc    33 40.20   1.1
LPB      5.21 344 iPc    33 43.80   1.2
                  S      34 42.00
ZOBO     5.47 344 iPc    33 46.40   0.3
                  S      34 40.00
ARE      6.88 317 iPc    34 01.30  -2.6
                  iS     35 13.60
SIV      7.61  44 P      34 12.50  -0.5
RTLL     9.87 189 iPd    34 40.50  -1.6
ZON     10.11 190 eP     34 45.00  -0.3
                  eS     36 35.00
RTBS    10.38 194 ePc    34 48.50   0.0
ITB1    11.63 108 e(P)   35 10.00   5.5X
JACH    11.63 197 eP     35 05.50   0.9
ITB     11.82 108 e(P)   35 15.00   8.0X
ITB7    11.93 110 e(P)   35 16.50   8.1X
ROCH    12.02 198 eP     35 09.50  -0.2
PEL     12.09 197 iPc    35 10.60   0.2
        1.0s   205.00nm          5.4mb
SAN     12.38 196 iPc    35 14.20   0.2
PCH     12.50 195 eP     35 14.50  -1.1
TACH    12.64 197 iP     35 16.50  -0.7
LCCH    12.66 199 iPd    35 17.00  -0.4
CHCH    12.83 195 eP     35 17.50  -2.2
LNV     13.06 198 eP     35 19.00  -3.4X
VAO     18.21  98 eP     36 23.10   0.2
                  e      36 26.60
BAO     18.57  75 ePc    36 26.50  -0.3
BMA     20.80  97 eP     36 49.80   0.7
SOB1    27.59  68 eP     37 49.70  -2.9X
                  e      38 38.50
JSC     57.26 346 P      41 48.00  -2.3
POW     61.95 338 P      42 20.00  -2.1
VVO     62.99 333 ePd    42 27.80  -1.2
FVM     63.34 339 P      42 29.00  -2.2
MEO     63.76 331 iPd    42 32.80  -1.2
NVL     66.00 159 P      42 50.00   2.0
                  e      43 22.00
                  e      43 45.00
TIC     66.52  72 P      42 51.00  -1.1
KIC     66.64  73 P      42 51.60  -1.3
ALQ     67.76 325 eP     42 59.00  -0.7
        1.0s    17.00nm          4.7mb
GOL     70.90 329 P      43 18.00  -0.8
BAR     72.11 317 eP     43 26.00   0.2
TPC     72.67 319 eP     43 30.00   1.0
PLM     72.67 318 eP     43 29.00  -0.2
PEC     73.21 318 iPc    43 33.00   0.8
        1.1s    19.84nm          4.8mb
RVR     73.41 318 eP     43 34.00   0.7
MSU     73.48 324 P      43 34.00   0.1
                  pP     44 33.50 254kmX
RSSD    73.82 333 P      43 35.00  -0.7
        1.0s    10.85nm          4.5mb
GSC     73.93 319 eP     43 36.00  -0.4
PAS     74.01 317 eP     43 37.00   0.2
SBB     74.15 318 eP     43 38.00   0.4
CLC     74.75 319 eP     43 41.00   0.0
ABL     75.13 317 P      43 44.00   0.6
ISA     75.19 318 eP     43 44.00   0.5
BW06    75.28 329 P      43 43.00  -1.1
SYP     75.40 317 eP     43 46.00   1.1
CWC     75.45 319 eP     43 46.00   0.8
BCH     75.89 317 P      43 49.00   1.5
TNP     76.03 321 P      43 49.00   0.6
        0.8s     6.86nm          4.4mb
SCH     76.07 360 eP     43 47.00  -0.9
PHAM    76.50 318 P      43 51.00   0.2
BONR    76.59 320 P      43 52.30   0.7
PRI     76.86 318 eP     43 54.30   1.4
LLA     77.33 318 eP     43 56.70   1.3
PRS     77.42 317 eP     43 56.50   0.7
CMB     77.89 319 eP     43 58.50   0.1
ARN     78.16 318 P      44 01.00   1.1
MHC     78.22 318 eP     44 02.00   1.6
LRM     78.93 329 eP     44 05.20   1.0
ORV     79.53 320 eP     44 07.70   0.5
LBFM    80.89 321 P      44 15.00   0.4
SES     81.70 333 eP     44 18.00  -0.3
FFC     81.81 340 eP     44 18.00  -0.8
        1.2s    18.00nm          4.7mb
YKA     91.98 340 eP     45 07.50  -0.2
        1.1s     8.50nm          4.7mb
WARB   130.83 196 ePKP   51 16.90   6.3X
WR2    133.94 208 ePKP   51 17.00   0.4
        0.2s     6.20nm
WRA    133.95 208 PKP    51 17.00   0.4
        0.4s     2.30nm
GBA    144.86  97 PKPc   51 35.70  -0.7
        0.7s     5.70nm
IRK    148.55  11 ePKP   51 46.20   4.8X
                  e      52 46.50
     S.D. = 1.1  on  67 of  74 obs.
-----------------------------------
%  JUL  25, 1991  15h 23m 27.05± 0.67s
   39.628 N ± 6.3km   29.012 E ± 6.5km
   DEPTH =  33.0km  (normal)
 TURKEY                          (366)
      MD 3.0 (ISK).

YLV      0.98  16 iPg    23 44.80   0.3
                  eSg    23 59.80
EDC      1.14 309 ePn    23 46.50  -0.2
GPA      1.20  56 ePn    23 47.90   0.3
EYL      1.28  43 iPn    23 48.30  -0.6
HRT      1.29  23 ePn    23 49.00   0.0
KHL      1.36 163 ePn    23 50.00   0.0
ISK      1.44   1 ePn    23 51.00   0.0
KGT      1.55 303 ePn    23 52.80   0.2
CTT      1.58 344 ePn    23 53.00  -0.1
     S.D. = 0.3  on   9 of   9 obs.
-----------------------------------
   JUL  25, 1991  15h 25m 29.89± 0.14s
   17.818 N ± 2.8km   95.046 W ± 2.5km
   DEPTH = 127.4km  ( 28 depth phases)
   5.4mb ( 74 obs.)
 OAXACA, MEXICO                   ( 60)
      mb 5.7 (BRK). Mo=4.0*10**17 Nm
      (PPT). Felt in Oaxoca and
      southern Veracruz. Also felt
      lightly at Mexico City.
      CENTROID, MOMENT TENSOR     (HRV)
      Data Used: GDSN
      L.P.B.: 19S, 42C
      Centroid Location:
      Origin Time        15:25:33.7 0.3
      Lat 17.89N 0.03 Lon  95.20W 0.03
      Dep 132.9 1.1 Half-duration  2.7
      Moment Tensor;   Scale 10**17 Nm
        Mrr=-3.79 0.09  Mtt= 0.85 0.15
        Mff= 2.94 0.16  Mrt= 0.94 0.10
        Mrf= 0.03 0.10  Mtf=-1.22 0.12
       Principal Axes:
        T  Val=  3.53  Plg= 3  Azm= 65
        N        0.46      11      334
        P       -3.99      78      169
      Best Double Couple:Mo=3.8*10**17
       NP1:Strike=166 Dip=43 Slip= -73
      NP2:        324      49      -105
OXX      1.76 246 iP     25 59.20  -2.3
VHO      1.77 245 iP     25 58.75  -2.9X
LVVM     2.33 325 iP     26 06.38  -1.9
                  iS     26 36.38
IISM     2.50 298 iP     26 09.37  -1.1
SCX      2.54 115 iP     26 11.21   0.1
                  iS     26 40.54
IIT      3.32 292 (P)    26 21.50  -0.1
PPM      3.62 291 iP     26 25.93   0.1
IIA      3.67 292 iP     26 26.30   0.2
TPX      3.94 137 iP     26 30.22   0.6
                  iS     27 17.00
UNM      4.20 292 iP     26 32.50  -1.0
                  (S)    27 21.50
TAC      4.24 293 (P)    26 33.00  -0.9
                  (S)    27 18.00
ACX      4.69 259 iP     26 35.02  -4.8X
                  iS     27 35.00
JAT      4.78 136 eP     26 41.90   0.9
BVA      5.27 126 ePd    26 46.30  -1.6
GCG      5.40 126 eP     26 48.00  -1.5
                  S      27 31.00
TER      5.46 129 eP     26 48.50  -1.8
SLP      5.50 123 ePd    26 48.80  -2.2
IXG      5.71 129 ePd    26 52.10  -1.7
MRX      6.12 289 iP     26 59.45   0.2
YUP      6.19 125 ePd    26 58.90  -1.6
CGX      8.19 285 iP     27 27.50  -0.1
GUM2     8.30 291 iP     27 25.00  -4.0X
MEO     17.19 350 iPc    29 23.20  -0.4
VVO     17.46 358 ePc    29 26.90   0.0
OLY     17.90  10 P      29 31.40  -0.8
TUL     18.03 358 ePd    29 32.60  -1.2
        0.8s   166.10nm          5.4mb
     Z  20s      0.52um          5.2MszX
                  eS     32 56.00
                  eLg    33 00.40
                  LR     34 56.00
POW     18.58  10 P      29 38.60  -1.2
PRM     19.78  33 P      29 51.00  -1.3
ALQ     19.86 331 iPd-   29 53.30   0.0
        1.0s   127.50nm          5.3mb
                  e      30 19.00 152kmX
HBF     20.02  38 P      29 54.50  -0.3
ELC     20.06  14 P      29 54.00  -1.1
TKL     20.39  27 P      29 56.60  -2.0
FVM     20.49  10 P      29 57.80  -1.8
JSC     20.51  34 P      29 58.40  -1.3
CEH     22.89  35 eP     30 23.30   0.1
                  eS     34 19.80
BLA     23.21  31 P      30 26.00  -0.4
        1.0s   340.00nm          5.7mb
GLA     23.37 314 iPd    30 29.00   1.0
GLD     23.57 340 P      30 31.30   1.3
        1.5s   406.25nm          5.6mb
GOL     23.57 340 P      30 31.00   0.9
        0.8s    98.21nm          5.3mb
BMG     23.93 114 eP     30 33.00  -0.6
PV09    24.00 332 P      30 35.00   0.7
PSO     24.00 132 eP     30 37.50   2.9
BOG     24.36 120 eP     30 40.00   2.0
                  eS     34 50.00
BAR     24.46 311 eP     30 39.00   0.6
TPC     24.81 315 iPd    30 42.00   0.3
PLM     24.95 312 iPd    30 43.00  -0.2
MSU     25.47 328 P      30 48.80   0.8
RVR     25.66 313 iPd    30 50.00   0.5
GSC     26.02 316 iPd    30 53.00   0.1
MWC     26.26 313 iPd    30 56.00   0.8
CLE     26.28  23 iP     30 54.40  -0.7
SBB     26.35 314 eP     30 56.00   0.1
DAU     26.51 331 P      30 58.00   0.4
CLC     26.84 316 eP     31 01.00   0.6
DUG     27.07 329 P      31 03.00   0.5
RSSD    27.29 346 P      31 04.30  -0.2
        1.2s    58.31nm          5.1mb
ISA     27.34 315 iPd    31 05.00   0.2
DLA     27.46  22 P      31 04.05  -1.7
CWC     27.52 317 eP     31 06.00  -0.6
LDN     27.76  22 P      31 06.00  -2.4
BW06    27.77 337 P      31 08.00  -0.9
        1.0s    33.33nm          5.0mb
SYP     27.77 312 iPd    31 09.00   0.2
ELF     27.85  22 P      31 06.95  -2.3
TNP     28.00 321 P      31 11.20   0.3
```

25d 15h

	1.0s	145.00nm			5.6mb	
BCH	28 18	313	P	31 12.70	0.2	
BONR	28.58	319	P	31 17 30	1.0	
LVNJ	28.80	33	P	31 16.00	-1.9	
FRI	28.91	316	ePd	31 18.44	-0.4	
			ePcP	34 24.50		
PRI	29 09	314	iPd	31 21.09	0.4	
			epP	31 49.42	132km	
			ePcP	34 26.30		
KVN	29.15	321	P	31 21.40	0.1	
PNJ	29.19	34	iP	31 20.20	-1.1	
			sP	32 04.50		
TBR	29.33	33	P	31 21.00	-1.6	
TXNY	29.37	33	iP	31 21.70	-1.2	
LLA	29.53	315	iPd	31 24.19	-0.3	
			epP	31 52.57	132km	
			ePcP	34 27.30		
PRS	29.67	314	iPd	31 25.88	0.2	
			ePcP	34 27.30		
CMB	29.95	317	iPd	31 28.36	0.2	
			epP	31 57.24	135km	
			ePcP	34 27.30		
SAO	29.95	314	ePd	31 27.60	-0.5	
ARN	30.32	315	P	31 31.50	0.1	
MHC	30.39	315	ePd	31 32.80	0.7	
GCC	30.47	314	ePd	31 32.87	0.3	
PCC	30.97	315	eP	31 37.83	0.8	
BKS	31.07	316	iPd	31 38.50	0.5	
	1.0s	144.00nm			5.7mb	
			eS	36 38.00		
			eLQ	37 42.00		
			e	45 24.00		
BRK	31.09	316	eP	31 39.00	0.9	
ZSP	31.13	316	eP	31 39.22	0.8	
LRM	31.45	336	iPd	31 41.80	0.3	
ORV	31.54	319	iPd	31 42.82	0.8	
			epP	32 11.83	134km	
			ePcP	34 32.00		
MIN	32.07	320	eP	31 47.03	0.2	
WDC	32.79	320	ePd	31 50.80	-2.0	
			ePcP	34 34.00		
LBFM	32.85	321	P	31 53.00	-0.6	
BNH	33.32	32	P	31 56.00	-1.5	
FOX	33.66	318	ePd	32 00.88	0.5	
FHC	33.81	319	ePd	32 02.84	1.1	
SES	34.94	342	eP	32 11.00	-0.3	
	1.4s	259.00nm			5.9mb	
			pP	32 41.00	137km	
NEW	35.30	334	P	32 13.30	-1.0	
	0.9s	46.05nm			5.3mb	
LON	36.32	328	P	32 23.00	0.0	
			pP	32 53.00	133km	
BMW	36.86	327	P	32 27.10	-0.4	
			pP	32 56.00	127km	
PNT	37.16	333	ePd	32 30.00	0.1	
FFC	37.22	353	iPd	32 30.20	-0.1	
	0.6s	118.00nm			5.9mb	
GMW	37.35	329	P	32 30.00	-1.6	
PGC	38.43	330	eP	32 41.00	0.5	
	1.0s	91.00nm			5.5mb	
ARE	41.21	144	eP	33 06.00	1.9	
SCH	42.81	24	ePd	33 15.30	-1.1	
	0.6s	27.00nm			5.1mb	
ZOBO	43.02	140	iPd	33 19.20	0.0	
	1.1s	40.60nm			5.1mb	
	Z 22s	0.65um			4.5Msz	
			S	39 44.00		
			LR	43 04.00		
LPB	43.24	141	P	33 18.00	-2.8	
CNCB	43.52	141	P	33 23.00	-0.3	
YKA	46.67	348	eP	33 46.70	-0.4	
	0.9s	96.00nm			5.5mb	
SIV	47.42	133	Pd	33 52.00	-1.6	
FRB	49.34	15	eP	34 07.00	-0.7	
JACH	55.40	155	eP	34 53.00	-0.2	
ROCH	55.48	155	eP	34 53.00	-1.0	
LCCH	55.71	156	eP	34 45.00	-10.3X	
PEL	55.77	155	iPd	34 55.50	-0.3	
	0.7s	30.82nm			5.4mb	
INK	55.97	344	iPd	34 55.70	-1.1	
	0.5s	161.00nm			6.3mb	
			pP	35 27.00	132km	
SAN	56.05	155	ePc	34 58.00	0.2	
TACH	56.11	156	eP	34 58.10	-0.2	
LNV	56.20	156	eP	34 57.50	-1.3	
PCH	56.25	155	ePd	34 59.00	-0.3	
BAO	57.05	123	ePd	35 04.70	-0.6	

GDH	57.43	16	iPd	35 06.00	-1.0	
	0.8s	149 25nm			6.0mb	
			e	04 25.00		
PMR	57.70	333	P	35 08.70	-0.4	
	0.9s	89.58nm			5.7mb	
ITB1	57.89	136	e(P)	35 09.50	-1.4	
ITB	58.11	136	e(P)	35 11.00	-1.4	
FBA	58.60	337	P	35 14.00	-1.3	
	0.9s	166.67nm			6 0mb	
PDB	59.37	330	P	35 19.80	-0.9	
			pP	35 51.00	130km	
MBC	59.80	353	ePd	35 22.50	-0.9	
	1.0s	166.00nm			6.0mb	
			pP	35 54.00	131km	
SOB1	59.84	112	eP	35 23.00	-1.5	
RUV	61.13	241	iP	35 33.90	0.7	
	1.6s	165.00nm			5.8mb	
TTA	61.19	333	P	35 31.50	-1.6	
	1.0s	125.00nm			5.8mb	
			pP	36 03.00	131km	
TPT	61.22	241	iP	35 33.20	-0.7	
	1.6s	100.00nm			5.5mb	
IMA	61.32	337	P	35 32.00	-2.1	
VAH	61.36	241	iP	35 35.40	0.6	
	1.6s	165.00nm			5.8mb	
PMO	61.47	241	iP	35 36.10	0.6	
	1.6s	125.00nm			5.6mb	
VAO	62.08	129	eP	35 39.20	-0.4	
			e	36 08.30	119km	
TVO	63.99	239	eP	35 53.00	0.8	
	1.6s	265.00nm			5.9mb	
PPN	64.01	240	eP	35 53.00	0.7	
	1.6s	75.00nm			5.4mb	
PPT	64.15	240	eP	35 55.00	1.8	
	1.6s	175.00nm			5.7mb	
AKU	68.53	26	eP	36 20.60	0.4	
	1.5s	66.67nm			5.3mb	
DAG	69.63	14	iPc	36 26.20	-0.6	
	0.9s	168.07nm			5.9mb	
ADK	71.06	320	P	36 34.50	-1.3	
	0.9s	229.17nm			6.0mb	
			pP	37 06.00	127km	
DCN	74.60	38	eP	36 56.10	-0.4	
			e	37 29.00	132km	
DMU	74.72	38	eP	36 56.80	-0.4	
	1.0s	110.00nm			5.6mb	
ECB	75.05	39	eP	36 59.20	0.1	
ECP	75.33	40	eP	37 00.90	0.2	
	1.6s	938.00nm			6.3mb	
ETA	75.34	39	eP	37 01.10	0.4	
EZAM	75.62	50	eP	37 02.60	0.0	
SMY	76.54	321	P	37 06.00	-1.4	
EKA	76.60	36	Pd	37 07.60	-0.2	
	0.7s	26.10nm			5.1mb	
EPLA	77.98	52	eP	37 16.00	0.2	
AVE	78.51	59	iPc	37 19.80	1.0	
EHOR	79.14	54	eP	37 22.80	0.7	
TIO	79.21	61	iPc	37 24.50	1.7	
GUD	79.28	51	eP	37 23.80	0.9	
EJIF	79.31	55	eP	37 24.20	1.2	
LPF	79.58	43	eP	37 24.40	0.2	
	0.8s	44.35nm			5.3mb	
GRR	79.61	43	eP	37 24.80	0.4	
	0.9s	54.05nm			5.3mb	
FLN	79.75	42	eP	37 25.60	0.5	
	1.0s	76.00nm			5.4mb	
LDF	80.03	42	eP	37 27.10	0.5	
	1.0s	62.00nm			5.3mb	
MAL	80.06	55	iPd	37 28.70	1.7	
			iS	47 23.00		
IFR	80.31	58	eP	37 32.00	3.3X	
			i	37 42.00	32kmX	
LOF	80.32	21	eP	37 33.39	5.7X	
MFF	80.55	44	eP	37 30.00	0.6	
	1.0s	32.00nm			5.1mb	
ECOG	80.57	54	eP	37 30.80	0.9	
AFC	80.60	54	eP	37 31.00	1.0	
EGUA	80.69	54	eP	37 37.00	6.6X	
ETOR	80.77	50	eP	37 31.50	0.7	
EVIA	81.02	52	eP	37 33.00	0.8	
EHUE	81.18	53	eP	37 34.00	1.0	
TRO	81.41	19	eP	37 30.00	-3.4X	
			eSg	38 09.15		
MOR7	81.50	23	eP	37 30.24	-3.8X	
LFF	81.61	46	eP	37 35.30	0.4	
	1.0s	82.00nm			5.5mb	
LSF	81.76	44	eP	37 35.90	0.2	

	0.9s	27.05nm			5.0mb	
EPF	81.88	48	eP	37 37.00	0.5	
	1.0s	26.00nm			5.0mb	
LPO	81.99	46	eP	37 37.30	0.4	
	0.8s	33.60nm			5.2mb	
RJF	82.03	45	eP	37 37.40	0.2	
	1.0s	62.00nm			5.3mb	
	Z 20s	0.40um			4.8Msz	
NB2	82.19	28	P	37 38.70	1.0	
	1.0s	41.10nm			5.2mb	
TCF	82.20	44	eP	37 38.40	0.4	
	1.1s	46.40nm			5.2mb	
SNF	82.21	39	Pc	37 38.90	1.0	
			e	38 10.00	121km	
MAF	82.46	44	eP	37 39.80	0.4	
	1.0s	42.00nm			5.2mb	
DOU	82.54	40	Pc	37 40.30	0.7	
	0.9s	57.50nm			5.4mb	
			ed	38 12.20	125km	
			SKS	47 47.00		
BGF	82.54	44	eP	37 40.10	0.3	
	1.1s	70.80nm			5.4mb	
EBR	82.63	50	(P)	37 44.00	3.7X	
			e	47 50.00		
			e	48 36.00		
AVF	82.80	43	eP	37 41.10	0.0	
	0.8s	21.50nm			5.1mb	
SSF	82.81	43	eP	37 41.40	0.2	
	0.9s	31.10nm			5.2mb	
LOR	82.98	43	eP	37 42.60	0.6	
	1.0s	52.00nm			5.4mb	
	Z 20s	0.38um			4.8Msz	
KTK1	83.05	19	eP	37 22.50	-19.5X	
ENN	83.12	39	eP	37 43.00	0.4	
	0.9s	46.00nm			5.4mb	
			e	38 15.00	125km	
LBF	83.14	43	eP	37 43.00	0.1	
	1.1s	29.30nm			5.1mb	
SMF	83.16	43	eP	37 43.00	0.0	
	1.0s	16.00nm			4.8mb	
MEM	83.22	39	P	37 43.30	0.2	
			ec	38 15.30	125km	
WTS	83.22	38	eP	37 44.50	1.4	
	0.8s	20.00nm			5.0mb	
			e	38 16.00	123km	
WLF	83.63	40	P	37 46.00	0.8	
			e	38 18.00	125km	
HFS	83.68	28	eP	37 45.50	0.2	
	1.6s	72.80nm			5.3mb	
	Z 17s	0.41um			4.9MszX	
			LR	08 40.00		
HAU	84.32	41	eP	37 49.50	0.7	
	0.9s	37.65nm			5.3mb	
	Z 20s	0.40um			4.8Msz	
BSF	84.66	41	eP	37 50.80	0.2	
	0.9s	22.95nm			5.1mb	
CDF	84.76	41	eP	37 51.80	0.7	
	0.8s	24.20nm			5.1mb	
TNS	84.82	39	ePc	37 52.30	1.0	
			ec	38 23.70	122km	
COP	84.92	33	eP	37 54.00	2.5X	
			e	38 24.00	116kmX	
			eS	48 13.00		
CDR	85.43	46	ePc	37 54.50	0.1	
			e	38 26.60	125km	
LPL	85.44	44	eP	37 56.20	1.5	
	1.4s	45.75nm			5.2mb	
LPG	85.46	44	eP	37 56.40	1.5	
	1.2s	37.20nm			5.2mb	
DIX	85.68	43	ePc	37 57.60	1.7	
RRL	85.68	44	P	37 57.29	1.4	
LSD	85.74	44	P	37 57.80	1.6	
SLE	85.75	41	ePc	37 56.80	0.8	
ZLA	85.79	41	ePc	37 57.20	1.0	
RSP	85.91	44	P	37 58.52	1.6	
LRG	85.91	46	eP	37 58.00	1.2	
	1.0s	50.00nm			5.4mb	
	Z 18s	0.35um			4.8Msz	
BHB	86.03	44	P	37 58.42	1.1	
PZZ	86.04	45	P	37 59.14	1.6	
MMK	86.05	43	ePc	37 59.80	2.1	
LMR	86.06	46	eP	37 58.40	0.9	
	1.2s	83.30nm			5.5mb	
FRF	86.07	46	eP	37 58.40	0.8	
	1.2s	56.55nm			5.4mb	
ORX	86.21	43	P	37 59.34	1.0	
LLS	86.41	42	ePc	38 00.90	1.5	

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MOX     86.52  38 iPc    38 01.00   1.4
        2.1s    70.00nm           5.2mb
                  ipP    38 33.00 124km
                  eS     48 22.00
TMA     86.62  43 ePc    38 01.50   1.1
ROB     86.63  45 P      37 59.75  -0.6
CLL     87.05  37 iPd    38 02.40   0.3
        1.9s    46.00nm           5.1mb
                  epP    38 55.00 215kmX
                  eS     48 31.00
OSS     87.21  42 ePc    38 04 90   1.7
BRG     87.77  37 eP     38 05.20  -0.4
        1.5s    50.00nm           5.3mb
                  i      38 41.80 143kmX
                  i      38 55.20
                  i      41 30.40
                  i      48 40.00
WET     87.89  39 iPc    38 07.70   1.4
WTTA    87.91  41 iPc    38 07.60   1.0
        2.2s   186.00nm           5.7mb
                  i      38 30.90  86kmX
TIC     88.02  84 P      38 07.62   0.1
        1.0s    21.50nm           5.1mb
LIC     88.14  84 P      38 08.42   0.4
        1.1s    41.00nm           5.4mb
KIC     88.37  84 P      38 09.46   0.3
PRU     88.50  37 Pd     38 09.60   0.5
                  e      38 21.40  38kmX
                  e      38 41.00
KSP     89.12  36 eP     38 12.50   0.5
                  e      38 44.30 122km
                  e      39 07.70
ZST     90.82  38 eP     38 21.00   1.1
                  e      38 50.30 111kmX
KRA     91.54  36 eP     38 24.50   1.3
                  e      38 56.00 120km
SRO     91.71  38 eP     38 24.20   0.1
                  i      38 57.10 127km
                  e      42 01.80
SPC     92.15  36 eP     38 26.70   0.4
YAK     92.92 341 iPd    38 29.40   0.1
                  ipP    42 12.00
                  eS     49 26.00
SKO     96.56  42 iPKP   38 46.40   0.0
     Z  20s     1.05um            5.3Msz
     N  19s     1.02um
     E  19s     0.61um
                  i      39 19.00 125km
                  i      49 10.00
OBN     96.60  26 iP     38 46.30   0.0
                  epP    39 19.00 125km
                  ePP    42 38.00
                  e      43 24.00
                  eSKS   49 10.00
                  eS     49 55.00
                  esS    50 57.00
                  eSP    51 16.00
                  eSPP   52 08.00
                  eSS    56 44.00
                  e      57 50.00
CMP     97.00  38 ePc    38 47.00  -1.4
VAY     97.62  42 iPKP   38 52.00   0.8
MAT    106.18 318 ePdiff39 35.00   5.5X
        0.9s     4.20nm           5.5mb
HHC    116.61 338 PKP    44 00.10  -0.7
WMQ    118.61 358 PKP    44 04.00  -0.4
     Z  16s     0.30um            5.0MszX
TIY    119.01 335 PKPc   44 04.80  -0.6
SSE    120.19 324 PKPc   44 06.50  -1.2
     Z  20s     0.90um            5.4Msz
     N  16s     0.60um
     E  15s     0.40um
NJ2    120.72 327 PKPc   44 07.40  -1.3
RMQ    120.79 249 ePKP   44 12.50   3.5X
                  e      44 47.50
GTA    121.40 347 PKP    44 09.60  -0.3
                  PKS    47 46.40
GAR    121.84  13 iPKP   44 11.10   0.3
KMZ    123.09  95 iPKPc  44 14.00   0.2
                  i      44 48.00
LZH    123.49 342 iPKPc  44 14.50   0.4
     Z  22s     1.40um            5.6Msz
     N  15s     0.70um
                  sPKP   44 56.00
XAN    123.60 336 PKPc   44 13.60  -0.7
WHN    124.21 329 PKPc   44 15.00  -0.4
BUL    126.89 102 iPKPd  44 19.80  -1.3
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                  ipPKP  44 54.00
STK    127.27 243 iPKPd  44 20.70  -0.6
        1.1s     9.20nm
                  e      44 55.10
KRI    127.33  98 iPKPd  44 22.50   0.5
                  ipPKP  44 56.00
MAW    128.26 169 iPKPc  44 22.20   0.1
        0.9s    20.00nm
CD2    128.29 339 iPKPc  44 23.40   0.0
MTD    129.18  97 iPKPd  44 25.00  -0.5
                  ipPKP  44 59.80
QUE    129.22  20 iPKPc  44 26.00   0.6
GYA    131.20 334 PKP    44 27.40  -1.7
LSA    132.38 353 PKP    44 29.40  -2.3
NDI    133.17   9 iPKPd  44 33.00   0.4
WR2    133.33 259 ePKP   44 32.90  -0.3
WRA    133.35 259 PKP    44 32.00  -1.2
        1.1s    28.60nm
KMI    133.94 337 PKPc   44 34.00  -0.5
     Z  25s     1.50um            5.6MszX
                  sPKP   45 08.50
                  PKS    48 04.00
ASPA   134.03 254 iPKPd  44 33.50  -1.0
        1.4s    40.50nm
                  e      45 07.90
                  ePKS   48 01.10
GUN    134.53 359 PKP    44 23.90 -11.8X
KKN    134.66 360 PKP    44 24.60 -11.2X
DMN    134.84 360 PKP    44 25.56 -10.7X
PKI    134.88 359 PKP    44 25.24 -11.1X
CHG    141.09 339 ePKP   44 39.90  -7.7X
CHTO   141.09 339 ePKP   44 39.50  -8.1X
        1.1s    17.08nm
LOE    141.30 334 ePKP   44 41.50  -6.5X
BDT    142.51 338 ePKP   44 45.00  -5.1X
NST    143.51 335 ePKP   44 49.00  -2.8X
HYB    144.42  11 ePKPd  44 51.00  -2.4X
        1.0s   300.00nm
                  e      45 26.40
KHT    144.92 337 iPKPd  44 53.80  -0.5
RKG    146.93 233 ePKP   44 58.90   1.8
MBL    146.99 258 ePKP   44 39.00 -18.6X
GBA    147.91  14 PKPc   44 58.60  -0.5
        1.0s    64.50nm
MUN    148.47 237 ePKP   45 02.00   2.4X
                  e      45 37.00
BAL    148.48 240 ePKP   45 02.00   2.3X
                  e      45 37.00
KOD    151.16  15 ePKP   45 10.60   6.0X
TRT    151.23 287 ePKPc  45 05.60   1.3
IPM    152.67 323 ePKPc  45 05.90  -0.5
        1.4s    72.20nm
                  e      45 13.10
                  e      45 24.60
KGM    153.24 316 ePKPc  45 08.30   1.1
     S.D. = 1.0  on 255 of 2B3 obs.
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   JUL  25, 1991  15h 46m 00.59± 0.18s
   16.882 N ± 3.3km  101.390 W ± 2.9km
   DEPTH =   33.0km  (normol)
   5.4mb ( 65 obs.)  5.4Msz ( 15 obs.)
 NEAR COAST OF GUERRERO, MEXICO  ( 58)
      Ms 5.0 (BRK). Mo=1.3*10**18 Nm
      (PPT). Felt in Guerrero. Also
      felt lightly at Mexico City.
      CENTROID, MOMENT TENSOR     (HRV)
      Dota Used: GDSN
      L.P.B.: 13S, 25C
      Centroid Location:
      Origin Time        15:46: 0.5 0.7
      Lat 16.65N 0.10 Lon 101.41W 0.10
      Dep  15.0 FIX Half-duration  3.0
      Moment Tensor;   Scale 10**17 Nm
        Mrr=-3.14 0.21  Mtt= 0.37 0.26
        Mff= 2.77 0.26  Mrt= 2.99 0.70
        Mrf=-0.71 0.84  Mtf=-3.15 0.25
       Principol Axes:
        T  Val=  5.59  Plg=16  Azm= 51
        N       -0.59      30      312
        P       -5.00      56      165
      Best Double Couple:Mo=5.3*10**17
       NP1:Strike=176 Dip=39 Slip= -38
       NP2:       298     67      -123

ACX      1.47  90 iP     46 24.37  -0.6
                  iS     46 40.50
MRX      2.81   4 iP     46 44.44   0.3
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                  iS     47 20.00
UNM      3.22  40 (P)    46 50.00  -0.2
                  iS     47 28.00
TAC      3.26  39 (P)    46 45.00  -5.9X
                  (S)    47 32.00
PPM      3.41  50 iP     46 52.78  -0.5
CGX      3.43 325 iP     46 53.58   0.4
                  iS     47 34.00
IIA      3.44  49 iP     46 52.92  -0.3
IIT      3.62  54 iP     46 55.21  -0.8
GUM2     4.18 335 eP     47 06.00   2.2
IISM     4.36  61 iP     47 06.13  -0.1
VHO      4.46  87 iP     47 07.25  -0.7
QXX      4.47  87 iP     47 08.45   0.4
                  iS     47 56.00
LVVM     5.49  58 iP     47 19.53  -2.6
SCX      8.39  90 iP     48 02.50  -0.3
TPX      9.00 101 iP     48 13.43   2.1
ALQ     18.55 347 ePc+   50 16.50  -0.4
        1.0s    57.50nm           4.7mb
                  e      50 30.50
                  eS     53 48.00
VVO     19.06  14 eP     50 20.20  -2.7X
TUL     19.60  14 ePd    50 25.80  -3.2X
        0.8s   205.80nm           5.5mb
     Z  20s     6.10um            4.1Msz
     N  18s     4.68um
     E  18s    12.71um
                  eS     54 06.00
                  LR     56 29.00
GLA     20.15 326 eP     50 34.00  -1.0
OLY     20.55  24 P      50 36.20  -2.8X
BAR     20.93 322 eP     50 43.00   0.0
POW     21.23  23 P      50 43.40  -2.5
PLM     21.52 323 eP     50 47.00  -2.2
PWLA    21.60  31 P      50 47.20  -2.5
TPC     21.62 325 eP     50 49.00  -0.9
PEC     22.08 323 P      50 55.40   0.8
        1.5s   125.00nm           5.1mb
RVR     22.28 323 eP     50 55.00  -1.5
MWC     22.84 322 eP     51 03.00   0.8
GSC     22.93 326 eP     51 03.00   0.1
ELC     22.99  25 P      51 01.80  -1.6
GOL     23.00 352 P      51 03.70  -0.1
        1.2s   114.75nm           5.2mb
GLD     23.03 352 P      51 04.40   0.4
        1.6s   370.37nm           5.6mb
SBB     23.04 323 eP     51 05.00   1.0
FVM     23.13  22 P      51 02.80  -2.0
MSU     23.53 338 P      51 10.10   1.1
CLC     23.74 326 eP     51 11.00   0.2
ABL     23.96 322 P      51 14.30   1.1
ISA     24.11 324 eP     51 15.00   0.6
SYP     24.20 320 eP     51 17.00   1.6
TKL     24.41  37 P      51 15.80  -1.4
CWC     24.46 326 eP     51 18.00   0.1
BCH     24.71 321 P      51 21.30   1.0
HBF     24.80  46 P      51 21.80   0.8
JSC     25.02  42 P      51 22.60  -0.5
DUG     25.26 339 P      51 26.60   1.1
        1.2s   100.84nm           5.3mb
TNP     25.29 330 P      51 26.90   1.1
        1.1s    43.29nm           5.0mb
PRI     25.71 322 eP     51 30.70   1.0
BONR    25.72 328 P      51 30.80   0.8
FRI     25.75 325 eP     51 29.00  -1.0
LLA     26.19 322 eP     51 34.20   0.1
PRS     26.25 321 eP     51 34.50  -0.1
KVN     26.47 330 P      51 38.20   1.4
CMB     26.88 325 ePc    51 40.00  -0.4
ARN     27.04 323 P      51 42.30   0.4
GCC     27.09 322 eP     51 42.50   0.2
MHC     27.10 323 eP     51 42.80   0.3
RSSD    27.24 356 P      51 44.00   0.1
        1.6s   144.36nm           5.4mb
     Z  20s    12.20um            5.5Msz
CEH     27.41  42 P      51 44.00  -1.1
BLA     27.43  38 P      51 44.50  -0.9
        1.2s   113.64nm           5.4mb
BKS     27.81 323 e(P)   51 56.00   7.2X
     Z  20s     3.80um            5.0Msz
                  eLQ    58 36.00
PSO     28.36 121 eP     51 55.50   1.1
ORV     28.58 326 eP     51 56.20   0.5
BMG     29.32 106 eP     52 05.00   2.2
BOG     29.43 111 eP     52 09.00   5.0X
                  iS     57 06.00
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25d 15h

WDC	29.87	327	eP	52	05.80	-1.5
CLE	29.88	31	iP	52	06.40	-1.0
LRM	30.30	345	iPc	52	11.40	0.1
LVNJ	33.11	39	P	52	35.30	-0.4
PNJ	33.54	39	iP	52	39.10	-0.3
TBR	33.64	38	P	52	40.00	-0.3
TXNY	33.68	38	iP	52	40.40	-0.3
NEW	33.85	341	P	52	41.60	-0.5
	1.1s	60.19nm				5.4mb
	Z 18s	2.96um				5.1Msz
DPW	33.85	340	P	52	42.00	-0.1
LON	34.25	335	P	52	45.70	0.1
SES	34.32	349	ePc	52	45.70	-0.5
	1.6s	419.00nm				6.1mb
GMW	35.29	335	P	52	54.10	-0.3
PNT	35.57	339	eP	52	57.00	0.2
	1.2s	130.00nm				5.7mb
MCW	36.22	336	P	53	02.60	0.3
PGC	36.44	335	eP	53	05.00	1.0
BNH	37.48	36	P	53	13.30	0.4
FFC	37.77	359	iPc	53	14.10	-1.1
	1.1s	193.00nm				5.9mb
EMM	39.75	38	P	53	32.00	0.2
ARE	44.35	137	eP	54	11.00	0.9
SCH	46.25	27	ePc	54	23.50	-1.0
	1.0s	128.00nm				5.8mb
ZOBO	46.49	133	iPd	54	27.00	-0.4
	1.2s	103.04nm				5.7mb
YKA	46.50	352	ePP	54	25.20	-1.0
	0.8s	16.80nm				5.1mb
LPB	46.68	134	P	54	27.00	-1.8
	1.0s	220.00nm				6.1mb
		Lg		07	20.00	
		LR		10	30.00	
CNCB	46.96	134	iPd	54	31.80	0.7
SIV	51.46	127	iPd	55	03.40	-1.8
FRB	51.96	18	eP	55	08.00	-0.3
INK	55.29	346	eP	55	31.00	-1.9
	1.1s	62.00nm				5.6mb
RUV	55.45	237	iP	55	34.80	0.1
	1.2s	50.00nm				5.4mb
TPT	55.53	238	iP	55	34.80	-0.5
	1.2s	40.00nm				5.3mb
VAH	55.68	238	iP	55	36.40	0.1
	1.2s	55.00nm				5.5mb
PMO	55.77	238	iP	55	36.90	0.0
	1.2s	60.00nm				5.5mb
PMR	55.85	335	P	55	36.00	-0.9
	0.8s	32.76nm				5.4mb
	Z 20s	1.00um				4.9Msz
FBA	57.13	338	P	55	44.70	-1.5
	1.0s	37.50nm				5.4mb
PDB	57.20	331	P	55	45.00	-1.7
ROCH	57.45	150	eP	55	48.00	-1.0
PEL	57.75	150	iPd	55	50.00	-0.9
SAN	58.01	150	ePc	55	52.50	-0.2
TACH	58.04	150	ePc	55	52.10	-0.8
PCH	58.22	150	eP	55	53.50	-0.7
TVO	58.37	236	iP	55	55.40	-0.1
	1.2s	70.00nm				5.6mb
PPN	58.37	236	iP	55	55.20	-0.2
	1.2s	95.00nm				5.8mb
CHCH	58.41	150	eP	55	55.00	-0.5
TTA	59.32	334	P	55	59.50	-2.0
	1.0s	35.00nm				5.4mb
IMA	59.84	338	P	56	03.00	-2.1
MBC	60.12	355	ePc	56	06.30	-0.4
	1.2s	76.00nm				5.7mb
BAO	61.79	119	ePd	56	17.80	-1.3
VAO	66.35	125	eP	56	47.20	-1.5
		e		56	56.10	
CAI	67.62	105	eP	56	56.70	-0.1
ADK	67.84	320	P	56	55.30	-2.3
	1.0s	47.00nm				5.5mb
DAG	71.99	14	iPd	57	22.00	-0.5
	0.8s	30.60nm				5.4mb
AKU	72.00	26	iPc	57	24.10	1.4
	1.3s	61.54nm				5.4mb
DCN	79.06	38	eP	58	06.60	3.6X
DMU	79.14	37	eP	58	03.80	0.4
DLF	79.50	37	eP	58	05.90	0.5
EKA	80.88	35	Pd	58	13.70	1.0
	2.0s	169.90nm				5.7mb
EPLA	83.28	50	eP	58	26.00	0.4
AVE	84.14	57	eP	58	21.50	-8.5X
TRO	84.20	18	eP	58	31.50	1.9
GRR	84.35	41	eP	58	31.50	0.8

	1.0s	56.00nm				5.7mb
LPF	84.35	42	eP	58	31.50	0.8
	1.0s	56.00nm				5.7mb
FLN	84.46	41	iPc	58	32.10	0.8
	1.1s	83.05nm				5.8mb
	Z 20s	3.25um				5.7Msz
GUD	84.52	49	eP	58	33.00	1.1
EHOR	84.54	52	eP	58	33.00	1.1
LDF	84.74	41	iPc	58	32.50	-0.2
	1.0s	40.00nm				5.6mb
EJIF	84.77	54	eP	58	35.00	1.9
TIO	84.93	59	iP	58	36.00	1.8
MFF	85.39	43	iPc	58	36.50	0.5
	1.2s	29.75nm				5.4mb
MAL	85.50	53	iPc	58	38.80	2.1
		iS		09	04.00	
KONO	85.73	28	eP	58	39.00	1.6
NB2	85.81	27	P	58	38.40	0.5
	1.1s	10.50nm				5.0mb
IFR	85.91	56	eP	58	36.00	-3.1X
		i		58	44.30	
		i		58	46.00	
ECOG	85.98	52	eP	58	40.00	0.7
ETOR	85.98	49	eP	58	40.00	0.8
AFC	86.00	52	eP	58	40.80	1.3
EVIA	86.35	51	eP	58	42.30	1.2
LFF	86.54	44	eP	58	42.20	0.5
	1.3s	79.40nm				5.8mb
EHUE	86.55	52	eP	58	43.50	1.5
LSF	86.60	43	iPc	58	42.80	0.8
	1.0s	20.00nm				5.3mb
DBN	86.63	36	eP	58	48.00	6.0X
	Z 20s	0.60um				5.0Msz
		eS		09	26.00	
RJF	86.93	44	iPc	58	44.30	0.7
	0.9s	26.20nm				5.5mb
	Z 20s	1.45um				5.4Msz
LPO	86.93	44	eP	58	44.40	0.8
	1.7s	88.25nm				5.7mb
EPF	86.93	46	iPc	58	44.10	0.3
	1.6s	74.65nm				5.7mb
TCF	87.03	42	iPc	58	44.80	0.7
	0.9s	16.40nm				5.3mb
DOU	87.08	38	P	58	44.80	0.6
		e		02	07.00	
		SKS		09	16.00	
MAF	87.28	42	eP	58	45.80	0.5
	1.0s	22.00nm				5.4mb
BGF	87.34	42	eP	58	46.00	0.4
	0.9s	14.75nm				5.2mb
CAF	87.43	44	eP	58	46.40	0.3
	1.6s	43.55nm				5.5mb
SSF	87.57	41	iPc	58	47.30	0.6
	1.1s	17.10nm				5.2mb
AVF	87.58	42	iPc	58	47.00	0.3
	1.2s	20.85nm				5.3mb
ENN	87.59	37	eP	58	47.00	0.3
	1.0s	20.00nm				5.3mb
WTS	87.60	36	eP	58	48.00	1.4
	0.8s	5.00nm				4.8mb
LOR	87.72	41	iPc	58	48.30	0.9
	1.2s	35.70nm				5.5mb
	Z 20s	2.25um				5.6Msz
LBF	87.90	41	iPc	58	48.80	0.5
	1.0s	16.00nm				5.3mb
SMF	87.94	42	iPc	58	48.80	0.3
	1.1s	12.20nm				5.1mb
HAU	88.97	40	eP	58	52.80	-0.6
	1.2s	17.85nm				5.3mb
	Z 20s	1.92um				5.5Msz
BSF	89.31	40	eP	58	54.30	-0.8
	1.2s	17.85nm				5.3mb
CDF	89.37	39	eP	58	54.80	-0.6
	0.9s	6.55nm				4.9mb
LPL	90.24	42	eP	58	59.80	0.1
	1.2s	14.90nm				5.1mb
LPG	90.26	42	eP	58	59.80	0.0
	1.2s	26.80nm				5.4mb
MOX	90.90	36	eP	59	03.60	1.3
	2.4s	70.00nm				5.6mb
	Z 20s	1.10um				5.3Msz
	N 19s	0.50um				
	E 22s	0.70um				
GRF	91.12	37	eP	59	04.00	0.6
	1.5s	17.00nm				5.2mb
CLL	91.35	35	eP	59	05.00	0.7
	1.9s	31.00nm				5.4mb

	Z 19s	1.00um				5.3Msz
		eSKS		09	36.00	
BRG	92.08	35	eP	59	08.00	0.3
	1.5s	25.00nm				5.4mb
		eSKS		09	44.00	
PRU	92.86	36	ePd	59	11.90	0.6
	2.3s	29.90nm				5.3mb
		e		59	44.50	
KSP	93.37	34	eP	59	14.00	0.3
TIC	94.15	82	P	59	17.90	0.0
LIC	94.27	82	P	59	19.10	0.7
KIC	94.50	82	P	59	19.90	0.4
ZST	95.23	36	eP	59	23.00	0.8
KRA	95.75	34	eP	59	24.70	0.1
SRO	96.12	36	iP	59	27.20	0.9
SPC	96.41	34	eP	59	11.40	-16.5X
		e		59	26.50	
OBN	99.94	23	eP	59	45.00	1.5
	1.5s	*******nm				9.1mb X
	Z 22s	1.40um				5.4Msz
	N 22s	1.10um				
	E 22s	1.20um				
		iPP		03	46.20	
		ePSP		04	06.00	
		iSKS		10	22.00	
		eSKKS		10	47.00	
		eS		11	12.00	
		ePS		12	47.00	
		eSS		18	08.00	
		LQ		34	48.00	
		LR		39	00.00	
MAT	102.66	315	ePdiff	59	58.00	2.1
	1.0s	8.00nm				5.4mb
HHC	114.92	333	ePKP	04	40.00	-0.1
	Z 24s	1.90um				5.6MszX
	E 19s	1.50um				
TIY	117.07	330	ePKP	04	42.00	-2.3X
	Z 20s	2.13um				5.8Msz
	N 17s	1.13um				
		PP		06	02.00	
WMQ	119.03	352	iPKP	04	47.00	-0.8
	Z 24s	2.00um				5.7MszX
	N 20s	1.90um				
GTA	120.60	341	ePKP	04	50.40	-0.6
	Z 18s	1.40um				5.6Msz
	N 16s	1.10um				
		ePP		06	16.00	
		eSS		22	48.00	
STK	121.45	243	iPKPc	04	52.00	-0.6
	1.1s	2.50nm				
XAN	121.71	330	PKP	04	52.00	-1.1
	N 18s	1.40um				
	E 18s	1.30um				
LZH	122.16	336	ePKP	04	53.50	-0.6
	Z 22s	1.40um				5.6Msz
	N 15s	0.71um				
GAR	123.87	8	ePKP	04	57.30	0.0
CD2	126.68	333	PKP	05	02.20	-0.7
WR2	127.21	258	ePKP	05	01.60	-2.5X
	0.3s	3.90nm				
WRA	127.23	258	PKP	05	02.00	-2.2
	0.9s	14.60nm				
ASPA	127.96	253	iPKPc	05	04.40	-1.1
	1.0s	16.90nm				
MAW	128.30	172	ePKP	05	05.00	0.3
GYA	129.02	327	PKP	05	06.40	-1.2
KMZ	129.07	94	iPKPc	05	08.20	0.3
QUE	131.87	14	ePKP	05	13.50	0.5
LSA	132.14	345	ePKP	05	11.80	-2.0
GUN	134.92	351	PKP	05	20.10	1.1
GKN	135.00	352	PKP	05	18.56	-0.4
KKN	135.13	352	PKP	05	18.72	-0.5
PKI	135.32	351	PKP	05	18.48	-1.3
	1.2s	28.00nm				
DMN	135.33	352	PKP	05	18.68	-1.0
CHG	139.28	330	ePKP	05	26.70	-0.3
NANU	144.85	255	ePKP	05	33.00	-3.6X
TRT	145.58	281	ePKPd	05	39.00	1.0
HYB	145.92	0	ePKPd	05	38.00	-0.6
	1.0s	60.00nm				
SNG	147.67	316	ePKP	05	44.10	2.7X
KGM	149.22	305	ePKPc	05	49.00	5.1X
IPM	149.25	312	ePKPc	05	47.90	3.9X
	1.1s	38.40nm				
GBA	149.69	2	PKPc	05	44.00	-0.5
	1.0s	13.90nm				
KOD	153.04	2	ePKP	06	08.00	18.1X

S.D. = 1.0 on 191 of 209 obs.

? JUL 25, 1991 16h 05m 13.85± 2.89s
16.882 N ±24.4km 101.387 W ±19.7km
DEPTH = 33.0km (normal)
4.4mb (1 obs.)
NEAR COAST OF GUERRERO, MEXICO (58)

ACX	1.46	90	iP	05 38.00	-0.2
			iS	05 55.00	
MRX	2.81	4	iP	05 58.00	0.6
			iS	06 38.00	
IIT	3.62	54	iP	06 09.00	-0.3
			iS	07 02.00	
IISM	4.35	61	iP	06 19.00	-0.4
OXX	4.47	87	iP	06 22.00	0.7
			(S)	07 26.50	
FFC	37.77	359	eP	12 28.00	-0.4
	0.7s		4.00nm	4.4mb	

S.D. = 0.7 on 6 of 6 obs.

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* JUL 25, 1991 16h 59m 28.62± 0.58s
10.962 S ±12.7km 66.686 E ±10.5km
DEPTH = 10.0km (geophysicist)
4.7mb (4 obs.)
MID-INDIAN RISE (429)

GBA	26.63	24	Pd	05 07.80	-1.6
	0.9s		4.20nm	4.1mb	
LSZ	37.70	259	iPc	06 47.00	0.5
QUE	40.91	0	eP	07 14.10	1.1
PKI	42 39	25	P	07 27.00	1.6
GKN	42.46	24	P	07 25.60	-0.1
KKN	42.53	25	P	07 25.80	-0.6
ASPA	64.91	111	iPd	10 11.00	0.1
	0.9s		5.30nm	4.7mb	
WRA	65.46	107	P	10 14.00	-0.5
	0.7s		4.40nm	4.8mb	
WR2	65.48	107	iPc	10 15.20	0.6
	0.8s		5.60nm	4.8mb	
KIC	73.14	280	P	11 01.40	-0.4
LIC	73.38	280	P	11 03.00	-0.3
TIC	73.47	280	P	11 03.50	-0.3
MRX	165.44	308	(PKP)	19 48.00	12.9X

S.D. = 0.9 on 12 of 13 obs.

? JUL 25, 1991 17h 12m 17.79± 1.62s
40.269 N ±17.6km 29.187 E ± 8.8km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

IZI	0.23	73	iPg	12 22.80	0.0
			eSg	12 26.00	
YLV	0.33	25	iPg	12 24.80	0.2
HRT	0.66	33	iPg	12 30.80	-0.2
EDC	1.02	275	ePn	12 37.00	0.0

S.D. = 0.3 on 4 of 4 obs.

& JUL 25, 1991 17h 49m 14.56s
59.859 N 147.584 W
DEPTH = 9.9km
GULF OF ALASKA (15)
<AEIC>. ML 2.5 (AEIC).

MTU	0.13	345	iPd	49 17.98	0.2
			eS	49 20.78	
LTI	0.23	323	iPd	49 19.51	0.1
			eS	49 23.42	
KNIM	0.50	351	iPd	49 24.09	-0.6
			eS	49 31.75	
HIN	0 76	45	ePc	49 28.62	-0.9
			eS	49 41.00	
MID	0.77	124	ePc	49 28.72	-0.8
SEW	0.97	285	iPc	49 31.84	-1.1
			eS	49 45.51	
GLI	1.05	13	ePd	49 32.87	-1.6
			eS	49 48.01	
CVA	1.15	52	iPc	49 34.34	-1.7
			eS	49 50.60	
VZW	1.31	23	ePd	49 37.07	-1.7
			eS	49 55.13	
SGAM	1.35	60	eP	49 37.69	-1.7
			eS	49 56.97	
VLZ	1.42	25	eP	49 38.76	-1.6
			eS	49 57.90	
SLKM	1 47	297	ePd	49 39.23	-1.9
			eS	49 58.78	
RAGM	1.55	69	ePd	49 40.51	-1.8
KNK	1.62	345	eP	49 41.84	-1.4
			eS	50 03.56	
BRLK	1.67	268	eP	49 41.66	-2.4
			eS	50 02.68	
PMS	1.70	326	eP	49 43.06	-1.4
			eS	50 04.90	
HMT	1.73	73	eP	49 43.71	-1.2
			eS	50 04.95	
KLU	1.83	26	ePc	49 44.80	-1.6
			eS	50 08.70	
NNL	1.88	277	eP	49 47.57	0.6
CNPM	1.88	261	eP	49 47.45	0.4
GHO	2.03	342	eP	49 48.07	-1.2
HOM	2.06	266	eP	49 49.16	-0.5
SUA	2.24	317	ePc	49 51.24	-1.1
CROM	2.39	66	eP	49 52.13	-2.4
WAX	2.44	74	ePc	49 52.65	-2.5
GLB	2.44	48	ePc	49 53.23	-2.0
RDT	2.51	289	ePc	49 54.05	-2.1
TGL	2.53	67	eP	49 54.08	-2.4
SPU	2.58	303	ePc	49 55.09	-2.0
CGLM	2.62	306	ePc	49 55.90	-1.9
REF	2.63	286	ePc	49 55.81	-2.2
DFR	2.65	288	eP	49 55.80	-2.4
RSO	2.65	285	eP	49 56.85	-1.5
RED	2.66	284	ePc	49 56.43	-1.8
RDN	2.67	286	ePc	49 56.32	-2.2
RDW	2.69	286	eP	49 56.80	-2.0
CKL	2.71	302	eP	49 56.70	-2.3
BGL	2.76	303	eP	49 57.42	-2.3
NCT	2.76	287	eP	49 57.25	-2.5
BALM	2.85	63	ePc	49 58.68	-2.4
SKT	2.87	320	eP	49 58.75	-2.5

41 obs. associated

% JUL 25, 1991 17h 57m 24.20± 1.53s
35.692 N ±16.6km 51.378 E ±18.8km
DEPTH = 33.0km (normal)
IRAN (348)
Felt at Gorgan.

TEH	0.05	8	eP	57 30.00	0.0
IR4	0.60	221	ePc	57 36.00	-0.3
IR1	0.63	244	iPc	57 37.00	0.3
IR7	0.63	271	eP	57 36.50	-0.2
IR5	0.81	234	eP	57 39.50	0.2

S.D. = 0.4 on 5 of 5 abs.

& JUL 25, 1991 20h 52m 12.57s
61.715 N 149.797 W
DEPTH = 36.5km
SOUTHERN ALASKA (2)
<AEIC>. ML 3.3 (AEIC).

PWA	0.08	211	iPd	52 19.06	0.4
PLRM	0.34	111	iPc	52 20.39	-0.6
			eS	52 27.90	
PMR	0.34	111	iPc	52 20.40	-0.6
GHO	0.42	82	iPc	52 21.50	-0.7
			eS	52 29.41	
PMS	0.49	166	iPc	52 22.44	-0.6
SUA	0.52	241	iPd	52 22.84	-0.7
			eS	52 31.80	
KNK	0.71	115	iPc	52 25.33	-0.9
			eS	52 36.29	
CUT	0.73	342	iPd	52 25.56	-0.8
SKT	0.86	289	iPd	52 27.26	-1.1
			eS	52 39.52	
CGLM	1.14	250	iPc	52 31.76	-0.5
			iS	52 46.64	
NCG	1.17	256	iPc	52 32.15	-0.7
			eS	52 48.10	
SCM	1.18	83	eP	52 32.30	-0.6
NKA	1.20	216	eP	52 34.38	1.3
SPU	1.21	245	ePc	52 32.79	-0.5
			eS	52 48.91	
SLKM	1.23	190	ePc	52 32.10	-1.5
			eS	52 48.62	
HUR	1.27	3	iPc	52 33.78	-0.4
			eS	52 50.92	
BGL	1.32	251	ePc	52 34.49	-0.5
CKL	1.33	248	iPc	52 34.33	-0.7
GLI	1.55	122	iPd	52 36.83	-1.4
SEW	1.63	174	eP	52 37.77	-1.5
VZW	1.69	111	ePc	52 39.04	-1.3
KNIM	1.70	143	iPd	52 37.82	-2.6
RDT	1.71	229	ePc	52 39.35	-1.2
			eS	53 01.81	
RND	1.75	14	iPc	52 40.56	-0.7
TRF	1.76	353	iPc	52 40.66	-0.7
TOA	1.76	76	eP	52 41.19	-0.1
			eS	53 02.37	
VLZ	1.77	108	iPd	52 39.76	-1.5
			eS	53 02.11	
DFR	1.80	232	eP	52 40.95	-0.9
NNL	1.83	204	eP	52 41.73	-0.5
KLU	1.87	95	ePc	52 41.47	-1.3
			eS	53 05.11	
REF	1.87	230	eP	52 42.17	-0.8
RDN	1.88	231	eP	52 41.97	-1.0
RSO	1.91	230	eP	52 42.73	-0.8
NCT	1.91	234	eP	52 42.72	-0.7
RDW	1.92	231	eP	52 42.79	-0.8
KTH	1.92	345	iPc	52 42.98	-0.5
			eS	53 05.05	
LTI	1.93	150	iPd	52 41.03	-2.6
RED	1.95	229	eP	52 42.82	-1.1
			eS	53 07.58	
MTU	2.03	148	iPc	52 42.75	-2.2
BRLK	2.03	196	eP	52 45.26	0.2
			eS	53 08.13	
MCK	2.06	11	eP	52 45.50	0.0
HIN	2.08	128	iPd	52 43.98	-1.7
TZL	2.10	79	eP	52 45.76	-0.2
SDG	2.16	66	eP	52 47.04	0.2
CVA	2.29	119	eP	52 49.38	0.7
CNPM	2.31	199	eP	52 49.04	0.0
PAX	2.38	56	eP	52 50.36	0.2
BWN	2.47	3	ePc	52 50.71	-0.6
SGAM	2.54	117	eP	52 50.09	-2.2
RAGM	2.82	116	eP	52 54.40	-2.0
SVW	2.87	260	eP	52 55.00	-2.0
WRH	2.87	15	eP	52 55.67	-1.4
GLB	2.88	93	eP	52 54.64	-2.5
NEA	2.89	6	ePc	52 55.63	-1.7
PDB	2.90	230	ePc	52 55.59	-1.8
HMT	3.03	115	eP	52 56.87	-2.4
CCB	3.08	16	ePc	52 58.39	-1.6
TTA	3.15	296	eP	52 59.00	-2.0
FBA	3.32	15	e(P)	53 01.50	-1.9
MDM	3.33	12	eP	53 02.27	-1.3
CROM	3.36	104	eP	53 04.30	0.2
CDD	3.39	216	eP	53 04.56	0.3
TGL	3.50	103	eP	53 06.68	0.6
WAX	3.60	108	eP	53 05.35	-2.1
BALM	3.65	97	eP	53 06.19	-2.0
IMA	4.69	340	eP	53 20.90	-2.1

66 obs. associated

% JUL 25, 1991 21h 45m 44.25± 1.84s
43.075 N ± 9.5km 13.544 E ±15.3km
DEPTH = 5.0km (geophysicist)
CENTRAL ITALY (381)

ARV	0.61	314	P	45 56.30	-0.2
			eSg	46 05.70	
ASS	0.65	270	P	45 56.50	-0.7
			eSg	46 07.00	
AQU	0.73	188	P	45 58.00	-0.8
MNS	0.94	223	P	46 03.80	1.2
			eSg	46 18.50	
CRE	1.29	296	P	46 09.00	0.4
SDI	1.38	172	P	46 10.40	0.2

S.D. = 0.9 on 6 of 6 obs.

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* JUL 25, 1991 22h 03m 52.34± 0.94s
45.416 N ± 7.8km 20.570 E ±10.1km
DEPTH = 10.0km (geophysicist)
YUGOSLAVIA (383)
MG 3.0 (BEO).

BEO	0.60	188	iPg	04 04.40	-0.1
			iSg	04 14.20	
DEV	1.70	73	iPd	04 16.00	-6.2X
UZD	1.82	311	e(Pn)	04 31.00	7.1X
PSZ	2.55	350	iPn	04 35.00	0.6
SRO	2.B6	328	eP	04 32.50	-6.3X
			i	04 44.B0	
BMR	3.03	41	ePd	04 52.00	10.8X
CMP	3.15	91	ePc	04 44.00	1.0
PTJ	3.27	280	eP	05 02.70	1B.0X
SKO	3.50	169	ePn	04 52.80	4.9X

25d 22h

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SPC      3.78 357 eP     04 51.50  -0.6
MLR      3.78  87 eP     04 51.00  -1.1
VRI      4.34  82 eP     05 00.00   0.1
VAY      4.35 160 ePn    04 53.00  -6.9X
      S.D. = 1.0  on   6 of  13 obs.
-----------------------------------------
?  JUL  25, 1991  23h 07m 28.48± 2.61s
   53.176 N ±41.2km  165.723 W ±24.3km
   DEPTH =  33.0km  (normal)
   4.2mb (  2 obs.)
 FOX ISLANDS, ALEUTIAN ISLANDS    (  9)

SDN      3.75  53 eP     08 26.70   1.3
ADK      6.81 263 e(P)   09 10.00   1.4
PDB      9.19  39 eP     09 41.50  -0.1
TTA     11.03  24 eP     10 07.50   0.5
IMA     14.25  20 eP     10 51.00   1.2
INK     21.46  33 eP     12 26.00  10.4X
MBC     28.98  21 eP     13 26.00  -0.5
NB2     66.11   2 P      18 12.40  -1.5
        0.7s      0.80nm          3.9mb
HFS     67.04   0 eP     18 17.70  -2.1
        0.4s      2.00nm          4.6mb
      S.D. = 1.6  on   8 of   9 obs.
-----------------------------------------
?  JUL  25, 1991  23h 36m 54.00± 1.75s
   40.852 N ±13.3km   27.675 E ±13.4km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      MD 2.5 (ISK).

KGT      0.49 215 iPg    37 04.00   0.1
EDC      0.52 164 iPg    37 04.30  -0.3
                  iSg    37 11.00
CTT      0.64  62 iPg    37 06.60  -0.3
                  eSg    37 15.00
IZI      1.46 110 ePn    37 21.00   0.5
      S.D. = 0.7  on   4 of   4 obs.
-----------------------------------------
*  JUL  26, 1991  00h 34m 37.26± 1.14s
   5.258 S ±14.8km  145.527 E ± 9.8km
   DEPTH =  92.4 ±  7.4 km
   5.0mb (  8 obs.)
 EAST PAPUA NEW GUINEA REGION      (207)

MDG      0.25  88 iPd    34 50.60  -0.3
YYYY     1.07 156 iPd    34 59.70   1.3
PMG      4.43 159 iPd    35 41.60  -1.8
                  eS     36 31.00
CTAO    14.76 177 iP     38 07.50   4.9X
                  i      38 18.00
HNR     14.89 107 P      38 05.00   0.8
WR2     18.20 216 iPc    38 44.10  -1.3
        0.5s     50.50nm          5.0mb
RMO     21.34 172 eP     39 22.00   3.5X
        0.5s     79.00nm          5.3mb
ASPA    21.46 210 iPd    39 19.70  -0.1
        0.9s     30.20nm          4.6mb
                  eS     45 24.80
COO     25.89 167 eP     40 04.30   2.0
        0.9s     22.00nm          4.7mb
CMS     26.09 179 iP     40 03.90  -0.2
DZM     26.25 132 iPd    40 03.70  -2.1
STK     26.74 187 iPd    40 09.80  -0.2
        1.1s     13.60nm          4.4mb
BWA     29.15 175 eP     40 31.50  -0.3
CAN     30.09 174 eP     40 39.80  -0.3
ADE     30.23 191 iPc    40 41.20  -0.1
        0.6s     65.33nm          5.5mb
FORR    30.28 211 eP     40 41.40  -0.3
BFD     31.88 185 iPd    40 53.10  -2.7X
        0.7s     36.00nm          5.2mb
COOL    34.28 219 eP     41 16.70   0.0
KLB     36.92 221 eP     41 39.00   0.0
        0.3s     11.00nm          5.3mb
BAL     37.02 224 eP     41 40.00   0.1
NWAO    38.12 220 eP     41 49.00   0.0
MUN     38.20 222 eP     41 51.00   1.3
SIV    146.25 129 PKP    54 08.00  -0.4
PPD    148.26 149 ePKP   54 14.50   3.0X
KIC    150.40 274 PKP    54 21.00   6.0X
LIC    150.69 273 PKP    54 21.60   6.2X
      S.D. = 1.1  on  20 of  26 obs.
-----------------------------------------
%  JUL  26, 1991  00h 52m 03.62± 2.24s
   46.130 N ±19.3km    2.754 E ± 6.0km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                            (538)
      ML 1.6 (LDG).

MAF      0.16 305 Pg     52 07.30   0.0
                  Sg     52 09.60
TCF      0.41 293 Pg     52 12.00   0.0
                  Sg     52 17.30
BGF      0.43   8 Pg     52 12.50   0.0
                  Sg     52 18.30
AVF      0.78  32 Pg     52 18.30  -0.5
                  Sg     52 28.80
SMF      0.91  55 Pg     52 21.10   0.0
                  Sg     52 33.60
SSF      1.07  29 Pg     52 24.00   0.3
                  Sg     52 38.20
LOR      1.37  33 Pg     52 28.90   0.1
                  Sg     52 46.60
      S.D. = 0.3  on   7 of   7 obs.
-----------------------------------------
%  JUL  26, 1991  01h 30m 41.48± 0.82s
   42.473 N ± 8.0km   13.136 E ± 8.4km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                     (381)

AQU      0.23 121 P      30 46.40  -0.1
                  e$g    30 51.00
MNS      0.35 256 P      30 49.00   0.3
                  e$g    30 55.00
ASS      0.69 330 P      30 54.10  -1.1
                  e$g    31 03.30
SDI      0.92 146 P      30 59.00  -0.1
                  e$g    31 12.80
ARV      1.04 352 P      31 02.00   1.0
                  e$g    31 14.50
      S.D. = 1.1  on   5 of   5 obs.
-----------------------------------------
   JUL  26, 1991  02h 45m 33.36± 0.54s
   43.934 N ± 4.4km    7.487 E ± 5.0km
   DEPTH =   5.0km  (geophysicist)
 NEAR SOUTH COAST OF FRANCE        (379)
      ML 2.1 (GEN), 2.1 (LDG).

SBF      0.08 208 Pg     45 35.40   0.1
                  Sg     45 37.30
IMI      0.29  95 P      45 39.42   0.2
                  S      45 43.11
ENR      0.30 351 P      45 39.42   0.0
                  S      45 43.52
STV      0.33 339 P      45 40.24   0.2
                  S      45 44.75
ROB      0.45  37 P      45 42.19  -0.3
                  S      45 48.55
FRF      0.71 239 Pg     45 47.40  -0.2
                  Sg     45 58.00
LMR      0.93 230 Pg     45 51.40  -0.2
                  Sg     46 05.20
LRG      0.95 240 Pg     45 52.10   0.2
                  Sg     46 06.20
      S.D. = 0.2  on   8 of   8 obs.
-----------------------------------------
%  JUL  26, 1991  03h 12m 04.96± 0.70s
   42.543 N ± 5.6km   13.141 E ± 7.1km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                     (381)

AQU      0.27 134 P      12 10.50  -0.2
                  e$g    12 14.40
MNS      0.38 245 Pc     12 13.00   0.3
                  e$g    12 19.20
ASS      0.63 326 P      12 17.70   0.0
                  e$g    12 27.80
RMP      0.80 204 P      12 20.00  -0.5
ARV      0.97 351 P      12 23.30   0.0
                  e$g    12 38.00
SDI      0.98 149 P      12 24.00   0.5
                  e$g    12 36.70
      S.D. = 0.5  on   6 of   6 obs.
-----------------------------------------
   JUL  26, 1991  04h 39m 26.56± 0.41s
   38.629 N ± 3.7km   29.150 E ± 5.0km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      MD 3.5 (ISK).

KHL      0.42 136 iPg    39 34.90  -0.3
                  eSg    39 40.90
ALT      0.86  60 iPg    39 43.60   0.4
IZM      1.50 262 ePn    39 53.50   0.0
YER      1.64 205 iPn    39 55.90   0.3
IZI      1.72   8 ePn    39 56.90   0.1
GPA      1.89  28 iPn    39 59.10   0.0
ELL      1.97 162 ePn    40 00.50   0.0
EDC      1.98 330 ePn    40 00.90   0.4
GBZT     2.17   6 ePn    40 08.20   5.0X
HRT      2.23  10 ePn    40 03.80  -0.3
KGT      2.31 322 iPn    40 04.90  -0.4
CTT      2.58 348 ePn    40 08.90  -0.1
      S.D. = 0.3  on  11 of  12 obs.
-----------------------------------------
?  JUL  26, 1991  05h 13m 55.27± 3.73s
   9.885 S ±44.4km  124.181 E ±12.3km
   DEPTH =  33.0km  (normal)
   4.0mb (  1 obs.)
 TIMOR                             (289)

KUG      0.65 245 eP     14 08.00   0.1
KNA      7.35 143 eP     15 44.30   1.3
                  iS     17 10.00
WR2     14.02 137 eP     17 12.40  -1.5
        0.2s     8.60nm          5.1mb X
                  i      17 21.10
                  eS     19 45.80
WARB    16.38 172 eP     17 44.00  -0.4
                  eS     20 44.00
ASPA    16.55 147 iPd    17 46.80   0.2
        0.7s     9.00nm          4.0mb
                  eS     20 47.70
QIS     18.26 127 iPc    18 08.30   0.3
                  eS     21 26.00
      S.D. = 1.2  on   6 of   6 obs.
-----------------------------------------
?  JUL  26, 1991  05h 33m 52.18± 5.08s
   41.509 N ±37.1km   19.601 E ±10.4km
   DEPTH =   5.0km  (geophysicist)
 ALBANIA                           (391)
      ML 2.2 (TTG).

ULC      0.53 330 iPgc   34 02.86   0.2
                  iSg    34 11.73
TTG      0.95 345 iPgd   34 10.83   0.0
                  iSg    34 26.70
BDV      0.97 324 iPgd   34 10.80  -0.2
                  iSg    34 26.60
PVY      1.12  14 iPgd   34 13.41  -0.3
                  iSg    34 31.50
HCY      1.25 319 iPgd   34 15.66  -0.1
                  iSg    34 35.95
NKY      1.38 341 iPgc   34 18.30   0.2
                  iSg    34 40.01
IVA      1.38   9 iPgc   34 18.26   0.1
                  iSg    34 40.18
BRY      1.60 331 iPnd   34 22.16   0.9X
                  iSg    34 44.98
PLE      1.83 355 iPnc   34 24.86   0.3
      S.D. = 0.3  on   8 of   9 obs.
-----------------------------------------
   JUL  26, 1991  06h 56m 51.08± 0.27s
   14.916 N ± 4.1km  120.646 E ± 5.7km
   DEPTH =  33.0km  (normal)
   5.0mb ( 29 obs.)  4.6Msz (  7 obs.)
 LUZON, PHILIPPINE ISLANDS         (249)
      Felt (V) at Olongapo; (III) at
      Manila and Poonbato; (II) at
      Quezon City.

QCP      0.50 124 eP     57 00.00  -1.7
BAG      1.49 358 iPc+   57 12.00  -3.9X
DAV      9.16 148 eP     59 10.00   6.0X
MCO      9.82 318 eP     59 08.10  -5.1X
KKM      9.83 207 eP     59 13.00  -0.4
QZH     10.16 349 eP     59 16.00  -1.7
      Z  17s      5.38um
      E  16s      3.90um
                  pP     59 22.00
                  S      01 11.00
                  sS     01 17.00
                  SS     01 26.00
TSM     10.90 195 eP     59 27.50  -0.5
QIZ     11.11 293 eP     59 24.30  -6.6X
      N  15s      2.20um
      E  14s      2.80um
                  eS     01 26.00
SSE     16.11   2 Pc     00 38.00   1.3
        1.2s     24.00nm          4.2mb
```

```
      Z  20s      4.10um          4.0Msz
      N  17s      2.40um
      E  15s      2.20um
                   sS     03 48.00
WHN     16.60 341 eP     00 44.00   1.2
        1.5s    80.00nm          4.6mb
      Z  20s      2.10um          3.3MszX
      N  14s      2.10um
      E  12s      1.70um
                   sP     00 56.00
NJ2     17.14 355 Pd     00 51.20   1.6
        1.4s   100.00nm          4.8mb
      Z  20s      2.70um          3.9MszX
      N  11s      0.80um
      E  11s      1.30um
GYA     17.39 314 P      00 52.60  -0.4
      Z  18s      2.80um
      N  15s      5.10um
      E  15s      2.90um
LOE     18.34 280 eP     01 04.60  -0.1
KMI     19.63 304 Pd     01 21.00   0.7
        3.0s   470.00nm          5.3mb
      Z  20s      3.10um          4.5MszX
      N  12s      0.80um
      E  10s      1.00um
MKS     20.04 183 iPc    01 26.00   1.7
        1.0s   429.80nm          5.7mb
SNG     21.10 251 eP     01 35.60   0.4
                   eS     05 30.00
CHG     21.12 284 eP     01 31.00  -4.5X
        1.2s    22.66nm          4.4mb
                   eS     05 30.00
CHTO    21.12 284 eP     01 35.80   0.3
        1.1s    24.15nm          4.5mb
KHT     21.32 272 eP     01 39.50   2.0
KGM     21.37 235 ePd    01 41.80   3.8X
TIA     21.44 352 Pd     01 37.50  -1.1
      Z  20s      2.70um          4.6Msz
      N  16s      1.90um
      E  17s      1.70um
                   sP     01 49.00
XAN     21.79 333 P      01 40.20  -2.0
      N  14s      3.00um
      E  14s      2.90um
IPM     21.87 244 ePc    01 44.10   1.0
        0.8s    20.80nm          4.6mb
CD2     22.21 319 eP     01 44.30  -2.1
        1.0s   200.00nm          5.5mb
      Z  16s      2.80um          4.8MszX
      E  12s      3.70um
                   eS     05 45.00
KHKI    23.66 193 ePc    02 01.10   0.5
                   e      03 58.00
TRT     23.84 200 ePd    02 05.40   3.1X
        1.2s   761.00nm          6.1mb X
TIY     23.85 344 Pd     02 04.00   1.7
        1.4s    80.00nm          5.1mb
      Z  15s      3.08um          4.9MszX
      N  13s      1.90um
                   S      06 17.00
                   sS     06 30.00
DL2     23.91   2 eP     02 04.00   1.2
      Z  16s      1.78um          4.6MszX
      N  14s      1.80um
      E  14s      1.40um
BJI     25.33 352 eP     02 17.50   1.0
        1.7s   160.00nm          5.3mb
      Z  22s      1.86um          4.6Msz
      N  14s      1.08um
      E  14s      1.15um
LZH     25.89 328 eP     02 21.00  -0.9
        1.0s    78.00nm          5.3mb
      Z  20s      2.32um          4.7Msz
      N  12s      0.82um
      E  12s      2.46um
                   pP     02 27.50  23kmX
                   sP     02 31.00
                   PP     03 05.00
                   eS     06 50.00
                   sS     07 03.00
MAT     26.63  33 eP     02 29.00   0.4
        1.8s    86.36nm          5.1mb
      Z  20s      1.42um          4.5Msz
                   eS     07 04.00
HHC     27.02 345 eP     02 31.20  -1.0
      Z  16s      3.00um          4.9MszX
      N  15s      1.50um
      E  14s      1.10um
BTO     27.21 342 eP     02 34.00   0.0
      N  15s      2.10um
      E  14s      2.00um
                   epP    02 41.00  25kmX
                   ePP    03 23.50
                   eS     07 13.00
GTA     30.49 327 P      03 01.60  -1.8
        1.0s    10.00nm          4.6mb
      Z  16s      2.80um          5.0MszX
      E  13s      1.40um
                   PcP    06 03.00
                   eS     07 58.00
GUN     34.72 298 P      03 40.82   0.1
PKI     35.05 297 P      03 42.88  -0.6
KKN     35.21 297 P      03 43.52  -1.2
DMN     35.32 297 P      03 45.30  -0.4
GKN     35.81 297 P      03 48.50  -1.3
WRA     37.17 158 P      03 59.00  -2.0
        0.7s    28.30nm          5.2mb
WR2     37.18 158 iPc    03 59.70  -1.4
        0.5s    46.50nm          5.6mb
OIS     39.87 152 eP     04 24.00   0.4
WMQ     40.21 322 eP     04 26.50   0.2
      Z  20s      1.70um          4.9Msz
      N  14s      3.10um
      E  15s      1.80um
                   eS     10 36.00
                   ScS    14 25.50
HYB     40.45 279 eP     04 28.00  -0.5
ASPA    40.48 161 iPc    04 27.90  -0.7
        0.7s    28.60nm          5.1mb
      Z  20s      0.70um          4.5Msz
WARB    41.27 172 eP     04 34.00  -1.0
        0.5s    25.00nm          5.2mb
GBA     41.85 274 Pd     04 39.60  -0.4
        0.8s    20.50nm          4.9mb
CTAO    42.94 143 iPc    04 49.50   0.7
YAK     47.48   6 eP     05 23.00  -1.5
                   e      16 16.00
GAR     50.12 309 eP     05 42.00  -3.4X
                   i      27 00.00
STK     50.68 157 eP     05 49.60   0.1
        0.9s     3.50nm          4.3mb
QUE     51.42 297 eP     05 56.00   0.4
BWA     55.73 152 eP     06 29.40   2.4
CAN     56.74 152 eP     06 37.50   3.3X
DZM     58.02 128 iPc    06 44.00   0.5
MAIO    58.16 304 eP     06 44.00  -0.4
        0.9s    14.92nm          5.1mb
                   eS     15 00.00
DHR     66.28 292 eP     07 38.00  -0.6
MJMA    70.66 292 iPc    08 05.00  -1.0
KMSA    72.20 287 iP     08 14.00  -1.3
ABHA    74.20 285 eP     08 27.90   0.6
FBA     77.28  26 eP     08 41.50  -2.1
        1.0s    20.00nm          5.1mb
MML     78.20 301 eP     08 51.00   1.7
PRNI    78.93 299 eP     08 54.00   0.6
HQL     79.09 297 iPc    08 54.00  -0.2
RMN     79.22 299 eP     08 55.00   0.0
INK     81.99  21 eP     09 09.00   0.3
VRI     82.14 315 eP     09 09.50  -0.5
MBC     82.37  12 ePd    09 11.00   0.3
        0.9s    19.00nm          5.2mb
MLR     82.76 315 ePc    09 13.50   0.1
MTUR    83.42 315 eP     09 18.50   1.7
RZN     84.57 312 eP     09 23.00   0.3
MMB     85.31 312 eP     09 26.00  -0.2
HFS     85.39 331 eP     09 26.10  -0.1
        0.5s     3.10nm          4.8mb
      Z  17s      0.48um          5.0MszX
                   LR     44 22.00
VTS     85.41 313 eP     09 27.00   0.1
KRA     85.42 321 eP     09 26.80   0.2
        0.7s    25.00nm          5.5mb
                   e      09 29.00
                   e      09 41.30
SPC     85.50 320 eP     09 27.90   0.7
NB2     86.16 333 P      09 28.20  -1.9
        0.8s    24.60nm          5.5mb
VAY     86.22 312 eP     09 29.70  -1.0
SKO     86.84 313 eP     09 37.00   3.2X
KSP     87.37 322 eP     09 36.20   0.1
                   i      09 39.10
ZST     87.79 319 eP     09 41.60   3.4X
PRU     88.72 322 eP     09 41.50  -1.1
                   e      10 10.60
BRG     88.75 323 iP     09 44.20   1.5
        1.2s    11.00nm          5.1mb
CLL     89.13 323 eP     09 45.00   0.5
MOX     90.20 323 eP     09 50.80   1.2
GRF     90.82 322 eP     09 53.50   1.0
      Z  20s      0.40um          4.9Msz
YKA     91.68  22 eP     09 58.50   2.4
        1.0s     4.90nm          4.9mb
EKA     95.59 332 P      10 16.00   1.7
        1.0s     4.60nm          4.9mb
ZOBO   171.44 100 ePKP   17 02.00   3.5X
      Z  20s      0.20um
      S.D. = 1.1  on  77 of  89 obs.
-----------------------------------------
% JUL  26, 1991  08h 29m 06.56± 0.73s
   40.430 N ± 6.6km   23.294 E ± 6.2km
   DEPTH =  10.0km  (geophysicist)
 GREECE                              (364)
      MD 2.0 (THE).

THE     0.32 309 iPc     29 13.44   0.2
                   eS     29 17.36
SOH     0.39   7 ePc     29 14.56  -0.1
                   eS     29 18.84
OUR     0.53 100 ePc     29 17.28  -0.1
                   eS     29 25.84
PAIG    0.58 149 ePd     29 18.52   0.2
                   eS     29 27.08
LIT     0.70 242 ePc     29 20.16  -0.2
                   eS     29 30.68
      S.D. = 0.3  on   5 of   5 obs.
-----------------------------------------
? JUL  26, 1991  08h 50m 09.66± 4.49s
   40.610 N ±37.8km   22.979 E ± 7.5km
   DEPTH =  10.0km  (geophysicist)
 GREECE                              (364)
      MD 1.5 (THE).

THE     0.02 334 iPd     50 11.66   0.1
                   eS     50 12.44
SOH     0.35  53 ePc     50 16.68  -0.3
                   eS     50 22.20
KNT     0.55 354 ePc     50 20.84  -0.1
                   eS     50 28.16
GRG     0.56 308 ePc     50 21.00   0.0
                   eS     50 29.24
SRS     0.69  42 ePd     50 23.68   0.4
      S.D. = 0.4  on   5 of   5 obs.
-----------------------------------------
   JUL  26, 1991  08h 57m 29.70± 0.52s
   37.998 N ± 5.1km   20.907 E ± 2.5km
   DEPTH =  27.4 ±  3.6 km
   4.1mb (  3 obs.)
 IONIAN SEA                          (399)
      ML 4.1 (ATH), 4.0 (ROM), 4.0
      (TTG).

VLS     0.31 306 eP      57 36.00  -1.1
AGG     1.51  47 iPc     57 55.22   0.0
                   iS     58 17.53
IGT     1.60 344 ePc     57 58.00   1.6
                   eS     58 20.50
KEK     1.92 334 eP      58 07.00   5.9X
VLI     2.06 128 eP      58 05.50   2.3X
ATH     2.22  90 eP      58 07.00   1.6
KZN     2.40  16 eP      58 10.00   1.9
LIT     2.43  30 iPd     58 09.09   0.6
                   eS     58 40.20
FNA     2.81   7 iPc     58 15.14   1.4
                   eS     58 49.50
PAIG    2.90  47 ePc     58 14.76  -0.2
THE     3.08  31 ePd     58 18.38   0.8
                   eS     58 57.01
LCI     3.27 316 P       58 20.30   0.0
                   eSn    59 01.00
OUR     3.34  45 ePd     58 21.28   0.0
                   iS     59 03.82
SOH     3.40  33 iPc     58 22.98   0.8
                   eS     59 05.40
KNT     3.51  25 iPd     58 23.98   0.2
VAY     3.56  21 iPn     58 24.70   0.3
ROI     3.74 296 P       58 27.60   0.6
SRS     3.74  33 iPd     58 27.17   0.2
                   eS     59 12.10
SOI     3.83 273 P       58 27.80  -0.4
                   eSn    59 11.80
```

26d 08h

CZI	3.93	290	P	58	31.10	1.4
			eSn	59	19.40	
GMB	3.98	274	Pn	58	31.78	1.2
SKO	3.99	6	iPn	58	30.50	0.0
			i	58	35.00	
			i	58	42.50	
CSI	4.02	298	P	58	34.90	3.9X
BRT	4.06	316	P	58	32.30	0.7
			eSn	59	21.50	
ULC	4.16	343	iPnd	58	32.45	-0.5
			iSn	59	14.00	
MMB	4.19	30	iPd	58	33.00	-0.4
KKB	4.21	23	iP	58	33.00	-0.7
MMN	4.27	298	P	58	39.20	4.7X
ATN	4.30	274	P	58	34 60	-0.3
			eSn	59	23.80	
PRK	4.38	72	eP	58	36.00	-0.1
BAI	4.41	316	P	58	37.00	0.5
BDV	4.57	340	iPnc	58	37.42	-1.3
			iSn	59	22.93	
TTG	4.60	345	iPnc	58	39.07	-0.1
			iSn	59	25.15	
EZN	4.60	65	ePn	58	38.00	-1.3
PVY	4.65	351	iPnd	58	41.05	1.1
			iSn	59	29.18	
NPS	4.67	124	ePn	58	40.00	-0.2
MGR	4.68	299	P	58	40.60	0.2
RZN	4.71	37	iPd	58	40.00	-0.9
RDO	4.76	47	ePn	58	40.00	-1.5
HCY	4.81	338	iPnd	58	40.67	-1.5
			iSn	59	27.92	
MEU	4.83	261	P	58	40.80	-1.8
			eSn	59	35.00	
PZI	4.86	260	Pn	58	40.06	-2.9X
			Sn	59	35.96	
MNO	4.91	271	P	58	43.20	-0.6
			eSn	59	39.40	
VTS	4.91	20	iPc	58	43.00	-0.7
ALN	4.92	52	iPd	58	42.60	-1.1
IVA	4.93	351	iPnc	58	44.62	0.7
			iSn	59	35.23	
IZM	5.02	83	ePn	58	45.50	0.2
NKY	5.02	344	iPnd	58	44.17	-1.1
			iSn	59	35.07	
PLD	5.03	34	eP	58	47.00	1.7
SGO	5.04	302	P	58	46.50	1.1
PGB	5.18	28	eP	58	47.00	-0.5
FG4	5.21	309	Pn	58	51.29	3.5X
BRY	5.22	341	iPnc	58	46.50	-1.6
			iSn	59	37.88	
FG3	5.31	316	Pn	58	49.31	0.0
PLE	5.45	348	iPnc	58	51.00	-0.3
			iSn	59	46.93	
KGT	5.54	62	eP	58	51.90	-0.6
DUI	6.16	308	P	59	02.50	1.1
HVAR	6.19	328	iPn	58	59.00	-2.6X
			iSn	00	09.20	
PVL	6.21	31	iP	59	00.00	-1.8
RFI	6.28	304	Pn	59	04.81	2.0
SDI	6.59	306	P	59	07.90	0.5
BEO	6.83	357	e(P)	59	21.00	10.5X
AQU	7.21	309	P	59	22.78	6.8X
AOU	7.21	309	P	59	16.00	0.1
ALT	7.29	79	eP	59	14.00	-3.2X
BUC1	7.43	30	eP	59	51.50	32.6X
MNS	7.67	307	P	59	22.00	-0.4
CMP	7.89	22	ePc	59	28.00	2.5X
ASS	8.07	311	P	59	28.00	0.0
			eSn	00	57.10	
ARV	8.17	315	P	59	28.70	-0.7
			eSn	00	57.90	
ISR	8.29	29	eP	59	35.00	3.9X
MLR	8.38	25	ePd	59	34.50	2.1
VBY	8.60	332	ePn	59	34.00	-1.4
			iSn	01	07.50	
PTJ	8.71	337	eP	59	30.70	-6.2X
RSM	8.71	315	P	59	36.00	-0.9
CRE	8.81	312	P	59	38.00	-0.4
VRI	8.98	27	ePd	59	40.50	0.0
SFI	9.05	314	P	59	42.00	0.5
			eSn	01	19.90	
PGD	9.09	313	P	59	43.00	0.7
			eSn	01	20.60	
CEY	9.12	330	eP	59	41.50	-1.0
			e(S)	01	21.50	
TRI	9.36	328	e(Pn)	59	42.30	-3.5X
			iSn	01	24.60	

VOY	9.57	329	eP	59	46.30	-2.5X
			eS	01	32.30	
FVI	10.48	328	P	00	00.00	-1.1
WTTA	11.50	327	iPc	00	13.70	-1.5
	0.4s	6.00nm				5.2mb X
			iS	02	17.60	
PRU	12.83	341	eP	00	28.00	-4.8X
			e	00	40.50	
MOX	14.27	335	eP	01	06.20	14.4X
OBN	20.14	27	eP	02	06.00	1.7
	0.9s	******nm				7.3mb X
HFS	22.63	351	eP	02	29.50	0.1
	0.4s	4.60nm				4.3mb
	Z 15s	0.04um				3.0MszX
			LR	10	58.00	
EKA	23.75	325	Pd	02	41.00	0.7
	0.6s	3.80nm				4.1mb
NB2	23.85	348	P	02	41.50	0.1
	0.7s	3.20nm				4.0mb
	S.D. = 1.0	on	72 of		90 obs.	

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* JUL 26, 1991 09h 47m 37.82± 1.14s
40.838 N ± 9.2km 29.502 E ± 8.6km
DEPTH = 10.0km (geophysicist)
TURKEY (366)
MD 2.6 (ISK).

GBZT	0.07	221	ePg	47	38.80	-1.3
			iSg	47	40.20	
HRT	0.13	97	iPg	47	40.80	-0.2
YLV	0.29	200	iPg	47	44.10	0.2
			eSg	47	47.90	
IZI	0.50	183	iPg	47	48.00	0.0
CTT	0.87	291	iPn	47	54.90	0.4
	S.D. = 0.9	on	5 of		5 obs.	

? JUL 26, 1991 10h 47m 13.53± 6.25s
10.873 N ±22.4km 62.345 W ±56.8km
DEPTH = 33.0km (normol)
NEAR COAST OF VENEZUELA (97)

TCE	0.61	107	eP	47	27.33	1.7
			eS	47	37.78	
TRN	0.95	103	iP	47	31.21	0.7
			eS	47	43.79	
TPP	1.04	122	eP	47	30.56	-1.2
			eS	47	43.53	
TBH	1.31	107	eP	47	35.69	0.0
			eS	47	53.82	
GRW	1.44	28	eP	47	37.91	0.2
			eS	47	56.69	
BOT	1.62	79	eP	47	38.91	-1.3
			eS	47	59.99	
	S.D. = 1.5	on	6 of		6 obs.	

? JUL 26, 1991 11h 02m 51.44± 7.68s
6.017 S ±46.2km 147.831 E ±77.0km
DEPTH = 117.7 ± 14.4 km
EAST PAPUA NEW GUINEA REGION (207)

LAT	1.04	233	iPc	03	14.00	0.0
YYYY	1.87	263	eP	03	24.20	0.5
			eS	03	51.00	
MDG	2.18	290	iPd	03	27.20	-0.3
PMG	3.44	191	iPc	03	44.00	-0.2
			eS	04	21.00	
WR2	19.06	222	eP	07	05.80	-1.5
	0.3s	29.50nm				5.1mb X
ASPA	22.08	216	iPd	07	39.40	1.5
	0.3s	63.10nm				5.5mb X
			eS	11	26.90	
	S.D. = 1.5	on	6 of		6 obs.	

? JUL 26, 1991 11h 17m 41.02± 8.74s
51.576 N ±48.3km 16.245 E ±55.5km
DEPTH = 5.0km (geophysicist)
POLAND (548)
ML 3.8 (GRF), 3.7 (VKA).

KSP	0.73	178	iPd	17	55.80	0.1
	0.3s	154.00nm				
			iS	18	04.00	
BRG	1.61	245	iPn	18	09.70	-0.4
			iPg	18	11.40	
			iSg	18	31.00	
PRU	1.92	215	Pn	18	14.50	-0.2
	0.3s	29.00nm				
			Pg	18	16.40	
			e	18	20.70	
			Sn	18	33.10	
			iSg	18	40.70	
CLL	2.05	264	iPn	18	16.30	-0.2
			iPg	18	19.00	
			iSg	18	44.40	
KRA	2.79	122	eP	18	36.80	9.6X
			i	19	14.30	
HOF	3.04	247	iPnc	18	31.50	0.9
MOX	3.06	254	ePn	18	31.00	0.0
			iPg	18	39.00	
			iSg	19	19.00	
WET	3.25	223	iPnc	18	33.60	-0.1
VKA	3.32	179	iPgc	18	43.40	8.8X
			iSg	19	29.00	
SPC	3.50	131	eP	18	41.80	4.4X
			i	18	49.30	
GRF	3.71	241	ePn	18	40.20	-0.1
			ePg	18	51.00	
			eSg	19	38.10	
	S.D. = 0.4	on	8 of		11 obs.	

? JUL 26, 1991 11h 46m 27.89± 5.62s
33.983 S ±29.3km 70.665 W ±20.9km
DEPTH = 73.3 ± 40.0 km
CHILE-ARGENTINA BORDER REGION (127)

CHCH	0.05	11	iPc	46	38.50	-0.3
			iS	46	49.00	
PCH	0.38	19	iPc	46	40.50	0.2
			iS	46	52.00	
TACH	0.40	325	iPc	46	40.50	0.2
			iS	46	53.00	
SAN	0.53	0	iPc	46	41.50	0.0
			iS	46	54.60	
LNV	0.62	272	iPc	46	42.50	0.2
			iS	46	56.00	
PEL	0.84	359	iPc	46	44.70	-0.2
			iS	46	59.70	
LCCH	0.91	304	iP	46	45.50	-0.2
			iS	47	00.80	
ROCH	1.05	344	eP	46	47.60	-0.1
JACH	1.30	3	eP	46	50.90	0.1
			iS	47	09.70	
	S.D. = 0.2	on	9 of		9 obs.	

? JUL 26, 1991 12h 42m 35.78± 4.83s
30.650 S ±33.9km 30.429 E ±33.2km
DEPTH = 5.0km (geophysicist)
REPUBLIC OF SOUTH AFRICA (584)
mbLg 3.8 (BUL).

SEK	3.37	313	eP	43	31.30	1.0
			S	43	57.50	
JOZ	3.50	25	eP	44	12.00	40.0X
	1.0s	200.00nm				
			S	44	35.00	
HVD	4.25	269	eP	43	43.00	0.2
			S	44	19.50	
FRS	4.51	280	iPc	43	45.70	-0.6
			S	44	22.70	
SLR	5.25	338	iPc	43	56.00	-1.0
			S	44	50.00	
CER	9.83	251	eP	46	26.00	85.1X
	1.0s	148.00nm				
			S	47	28.50	
BUL	10.59	351	iPn	45	11.20	-0.2
			iSn	46	58.00	
			iSg	47	55.50	
KRI	13.78	357	iPn	45	55.00	0.7
			iSn	48	15.50	
			iLg	49	37.00	
MTD	13.85	5	iPn	45	57.00	1.8X
			iSn	48	23.50	
			iLg	49	48.00	
WIN	14.38	301	eP	46	25.50	23.3X
	1.0s	30.00nm				
			S	48	55.00	
LSZ	15.44	352	iPn	46	16.00	-0.1
			iSn	49	09.00	
			iSg	50	31.30	
PTZ	16.35	3	iP	46	35.50	7.7X
KMZ	17.63	345	eP	46	49.00	5.0X
	S.D. = 0.8	on	7 of		13 obs.	

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* JUL 26, 1991 12h 44m 42.56± 0.78s

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   42.657 N ± 8.2km   24.120 E ±11.5km
   DEPTH =  10.0km  (geophysicist)
 BULGARIA                                (359)
      MD 3.0 (THE).

SRS      1.59 195 ePc    45 09.90   -0.9
                  eS     45 28.38
KNT      1 75 212 ePd    45 12.74   -0.4
                  eS     45 32.38
VAY      1.77 221 ePn    45 13.40    0.1
SOH      1 92 198 iPd    45 14.86   -0.8
                  iS     45 36.62
SKO      2.10 252 ePn    45 19.70    1.5
ALN      2.27 140 ePc    45 22.06    1.4
                  eS     45 48.14
OUR      2 32 183 ePd    45 21.22   -0.2
                  eS     45 46.94
ISR      3.04  34 eP     45 42.00   10.4X
MLR      3.12  24 eP     45 31.00   -1.9
VRI      3.72  29 eP     45 42.50    1.3
      S.D. = 1.3  on   9 of  10 obs.
-----------------------------------------
*  JUL  26, 1991  13h 25m 14.33± 1.11s
   21.191 S ±13.9km   68.422 W ±20.2km
   DEPTH = 120.0km  (geophysicist)
 CHILE-BOLIVIA BORDER REGION             (124)

ANT      3.11 216 e(P)   26 02.80    0.1
CCH      4 36  30 P      26 21.50    1.6
CNCB     4.38   6 P      26 20.30   -0.2
LPB      4.64   4 P      26 28.00    4.1X
ZOBO     4.90   3 P      26 27.00   -0.6
SIV      8.68  55 P      27 17.70   -0.8
      S.D. = 1.3  on   5 of   6 obs.
-----------------------------------------
*  JUL  26, 1991  13h 44m 40.04± 0.90s
    5.507 S ± 9.9km  154.494 E ± 8.3km
   DEPTH = 168.1 ±  8.7 km
   4.9mb (  8 obs.)
 SOLOMON ISLANDS                         (193)

RAB      2.66 299 iPd    45 24.00   -0.4
       0.4s  2440.68nm
                  iS     46 06.00
HNR      6.67 126 eP     46 16.00   -0.6
LAT      7.54 261 eP     46 29.20    0.9
PMG      8.25 242 eP     46 42.00    4.4X
CTAO    16.56 208 iPc    48 25.50    1.4
DZM     20.12 146 iPc    49 03.00    0.1
OIS     20.81 223 iPc    49 09.90    0.2
       0.6s    60.00nm          5.2mb
RMO     21.57 194 iPc    49 22.00    4.8X
       0.6s   126.00nm          5.6mb X
OLP     23.13 204 iPc    49 33.00    0.7
       0.8s   560.00nm          6.1mb X
WRA     24.29 232 P      49 56.00   12.5X
       0.5s    15.60nm
COO     25.06 185 iPd    49 53.20    2.7X
       0.7s    23.00nm          4.9mb
ASPA    26.82 226 iPc    50 06.20   -0.5
       0.4s    49.90nm          5.5mb X
                  i      54 38.00
CMS     27.09 196 iPd    50 08.80   -0.2
KNA     27.22 246 iPc    50 10.00   -0.3
STK     28.89 203 iPc    50 24.30   -0.8
       0.5s     8.10nm          4.7mb
WARB    33.62 229 iPc    51 06.50   -0.1
FORR    35.36 221 iPc    51 20.60   -0.6
       0.4s    32.00nm          5.4mb
MBL     37.02 242 eP     51 34.80   -0.5
TAU     37.79 189 eP     51 43.00    1.6
COOL    40.22 227 eP     52 01.00   -0.8
       0.3s    19.00nm          5.2mb
KLB     43.07 228 eP     52 23.70   -1.3
BAL     43.40 230 eP     52 27.00   -0.7
MUN     44.42 229 eP     52 35.40   -0.4
CHTO    59.81 295 eP     54 31.50    1.3
       1.0s     4.50nm          4.3mb
                  e      55 05.00
LZH     62.91 315 eP     54 51.00    0.1
       1.0s    13.00nm          4.8mb
SPA     84.53 180 iPc    56 56.10    0.9
       0.8s     8.75nm          4.6mb
      S.D. = 0.9  on  22 of  26 obs.
-----------------------------------------
?  JUL  26, 1991  14h 54m 21.45±11.31s
   32.773 N ±65.2km   35.584 E ±50.1km
   DEPTH =  10.0km  (geophysicist)
 DEAD SEA REGION                         (373)

SHMJ     0.16 107 Pd     54 25.05   -0.1
BURJ     0.56 161 Pc     54 33.21    0.3
JARJ     0.62 150 Pd     54 33.49   -0.4
SALJ     0.77 174 Pd     54 36.44    0.0
KFNJ     0.91 175 Pd     54 38.81    0.0
CSTJ     1.89 150 Pc     54 50.03   -4.1X
      S.D. = 0.4  on   5 of   6 obs.
-----------------------------------------
   JUL  26, 1991  15h 04m 07.94± 0.25s
    2.090 S ± 4.1km  128.055 E ± 6.8km
   DEPTH =  26.5km  (  4 depth phoses)
   5.2mb ( 21 obs.)  4.2Msz (  2 obs.)
 CERAM SEA                               (270)

MKS      9.11 250 iPd    06 26.60    5.8X
TSM     11.99 302 eP     07 05.00    4.8X
KNA     13.59 177 eP     07 21.00   -0.5
                  eS     09 55.00
KHKI    13.87 243 ePd    07 32.60    7.5X
                  e      09 11.00
KKM     14.32 304 eP     07 39.00    7.8X
MDG     17.96 101 eP     08 18.10    0.5
WR2     18.79 161 iPc    08 25.50   -2.3
       0.4s    81.90nm          5.3mb
                  eS     11 46.50
LAT     19.42 104 eP     08 36.50    1.1
PMG     20.33 112 eP     08 49.00    3.9X
MBL     20.58 202 eP     08 46.20   -1.4
OIS     21.54 149 iPd    08 56.30   -1.1
       0.5s    54.00nm          5.2mb
                  eS     12 47.00
ASPA    22.18 166 iPd    09 02.90   -1.0
       0.6s   200.40nm          5.7mb
      Z  21s     0.80um          4.1Msz
                  eS     13 00.60
NANU    23.71 210 iPc    09 18.40   -0.3
       0.8s    76.00nm          5.3mb
WARB    23.99 183 eP     09 22.00    0.5
KGM     25.07 279 ePd    09 36.00    4.1X
CTAO    25.22 136 iPc    09 34.90    1.5
                  e(S)   13 42.00
IPM     27.81 284 ePd    09 58.70    1.4
       1.0s    31.20nm          5.0mb
COOL    29.38 192 eP     10 09.00   -2.2
KLB     30.91 197 eP     10 24.00   -0.8
       0.4s    32.00nm          5.5mb
RMO     31.36 143 eP     10 33.00    4.1X
MUN     31.76 199 eP     10 31.50   -0.7
STK     32.26 158 iPd    10 36.30   -0.3
       0.5s    10.70nm          5.0mb
                  eS     15 44.80
NWAO    32.31 197 eP     10 36.00   -1.1
LOE     32.39 308 eP     10 38.60    0.7
CMS     33.71 152 eP     10 49.00   -0.2
ADE     34.18 164 e(P)   10 49.20   -4.1X
BDT     34.50 305 eP     10 57.00    0.8
WHN     34.98 339 Pd     11 01.30    1.1
       1.2s    50.00nm          5.3mb
                  pP     11 12.50   41kmX
NJ2     35.06 346 eP     11 00.80    0.0
GYA     35.11 325 eP     11 01.60    0.2
CHG     35.37 307 eP     11 05.00    1.3
CHTO    35.37 307 eP     11 04.90    1.2
       1.1s    14.13nm          4.8mb
COO     36.23 144 eP     11 16.50    5.7X
       1.0s    21.00nm          5.0mb
KMI     36.52 319 Pd     11 16.00    2.4
       2.0s    73.00nm          5.2mb
                  pP     11 22.50   22km
BWA     37.36 152 eP     11 22.40    2.1
BFD     37.38 161 iPc    11 19.00   -1.4
TSRJ    38.16  10 P      11 27.00    0.1
CAN     38.36 152 eP     11 30.00    1.3
IIDJ    38.50  13 P      11 29.50   -0.3
TOO     38.78 158 iPc    11 34.20    2.0
CHJJ    39.29  14 P      11 35.00   -1.4
TIA     39.45 346 Pc     11 36.70   -1.0
MTMJ    39.53  12 P      11 38.30   -0.2
MAT     39.58  13 eP     11 38.00   -0.8
       0.7s    19.86nm          5.0mb
                  eS     17 38.00
XAN     40.20 335 P      11 43.60   -0.4
DL2     41.22 352 eP     11 52.70    0.5
       1.0s    50.00nm          5.2mb
TIY     42.17 341 eP     11 59.20   -0.9
      Z  16s     0.48um          4.5MszX
BJI     43.32 347 eP     12 08.50   -0.8
       1.0s    13.00nm          4.6mb
SNY     43.90 355 iPc    12 13.60   -0.4
       0.8s    30.00nm          5.2mb
TAU     44.14 160 eP     12 18.00    2.0
LZH     44.19 332 Pc     12 17.00    0.3
       1.6s    76.00nm          5.3mb
      Z  20s     0.30um          4.2Msz
                  pP     12 23.50   22km
                  sP     12 27.50
SHL     44.51 311 eP     12 20.00    0.5
HHC     45.31 342 P      12 24.80   -0.8
BTO     45.57 341 eP     12 27.80    0.2
CN2     45.74 357 eP     12 27.60   -1.2
                  epP    12 38.10   36km
LSA     47.36 315 P      12 41.10   -1.3
KUSJ    47.42  17 eP     12 42.30    0.3
ASAJ    47.82  14 eP     12 44.70   -0.5
GTA     48.77 331 iPc    12 53.00    0.2
       1.0s    20.00nm          5.1mb
                  pP     13 01.00   27km
                  sP     13 04.00
HYB     52.50 294 eP     13 21.50    0.1
GBA     52.55 289 Pd     13 21.60   -0.2
       0.7s     4.20nm          4.5mb
WMO     58.25 327 P      14 02.00   -0.6
       1.0s    30.00nm          5.3mb
      Z  16s     0.28um          4.5MszX
YAK     63.94   1 iPc    14 40.60   -0.1
OUE     66.42 304 eP     14 56.70   -0.9
MAIO    74.11 309 iPd    15 44.80    0.7
MAW     78.80 201 eP     16 12.00    2.3
SPA     87.92 180 iPd    16 58.40    1.9
       1.2s    14.79nm          5.2mb
INK     95.05  22 eP     17 29.00   -0.3
MBC     97.30  13 eP     17 39.50    0.0
NB2    104.55 333 Pdiff  18 09.90   -2.3
       0.9s     0.80nm          4.6mb
CNCB   155.44 140 PKP    24 13.00   11.1X
LPB    155.57 140 ePKP   24 15.00   13.1X
ZOBO   155.75 139 PKP    24 05.00    2.6X
SIV    159.90 154 (PKP)  24 00.00   -6.6X
      S.D. = 1.2  on  61 of  74 obs.
-----------------------------------------
%  JUL  26, 1991  15h 23m 02.79± 3.03s
   45.361 N ±13.2km    6.636 E ±19.9km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                                  (538)

BNI      0.31 175 P      23 09.30    0.0
                  eSg    23 12.70
LSD      0.38  75 P      23 10.61    0.0
                  S      23 14.91
RRL      0.45 167 P      23 11.94   -0.1
                  S      23 16.45
RSP      0.49 115 P      23 12.76    0.1
                  S      23 18.78
BHB      0.68 139 P      23 16.25   -0.1
                  S      23 24.55
PZZ      0.92 159 P      23 20.66    0.2
                  S      23 32.24
ORX      0.98  74 P      23 21.58    0.0
      S.D. = 0.1  on   7 of   7 obs.
-----------------------------------------
*  JUL  26, 1991  15h 33m 38.46± 0.84s
    7.570 N ±10.9km   37.665 E ±19.8km
   DEPTH =  10.0km  (geophysicist)
   4.4mb (  2 obs.)
 ETHIOPIA                                (558)

AAE      1.81  37 Pn     34 11.00    0.8
NAI      8.83 186 iPnd   35 50.00    0.7
                  Pb     36 07.50
                  Sn     37 10.00
                  Sb     37 39.00
                  Lg     38 03.50
OUE     35.49  47 eP     40 37.60   -0.1
SPC     44.00 344 eP     41 49.50    1.6
ZST     44.08 340 eP     41 51.30    2.9X
PRU     46.49 340 eP     42 06.50   -1.1
NB2     56.88 345 P      43 25.10   -0.6
       1.1s     2.60nm          4.2mb
WRA     98.79 109 P      47 19.00   -1.3
       1.1s     1.60nm          4.6mb
      S.D. = 1.3  on   7 of   8 obs.
```

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-----------------------------------------
?  JUL  26, 1991  16h 03m 10.73± 3.63s
   31.129 S ±19.6km  178.099 W ±21.8km
   DEPTH =  80.2 ± 28.5 km
   5.0mb (  4 obs.)
 KERMADEC ISLANDS REGION            (177)

PUZ      7.55 202 eP     05 00.10   -0.1
                  eS     06 33.70
NOZ      8.12 202 eP     05 07.70   -0.2
DZM     16.49 299 iPc    06 58.90    0.4
CAN     27.77 252 eP     08 56.90    3.0X
BWA     28.27 254 eP     08 58.80    0.4
CMS     30.74 260 eP     09 22.00    1.6
CTAO    33.84 280 iPd    09 47.00   -0.5
STK     34.24 258 iPc    09 51.90    1.1
         0.5s    11.00nm          5.0mb
ASPA    42.99 268 iPc    11 02.80   -1.1
         0.3s     6.80nm          5.0mb
      Z  21s     0.20um          4.0Msz
WR2     44.02 273 iPc    11 10.20   -2.0
         0.4s    26.90nm          5.4mb
WRA     44.04 273 P      11 09.00   -3.4X
         0.5s    13.80nm          5.0mb
KAF    145.20 340 iPKP   22 35.20   -4.6X
         0.5s     3.40nm
NUR    146.96 339 iPKP   22 41.20   -1.5
         0.5s     8.20nm
NB2    149.46 351 PKP    22 47.90    1.2
         0.9s     5.60nm
APO    149.52 348 ePKP   22 47.40    0.7
         0.7s    11.20nm
      S.D. = 1.3  on  12 of  15 obs.
-----------------------------------------
?  JUL  26, 1991  16h 20m 11.57± 4.64s
   31.387 S ±40.0km   69.813 W ±24.6km
   DEPTH = 148.6 ± 35.9 km
 SAN JUAN PROVINCE, ARGENTINA       (137)

RTBS     0.41 132 iPd    20 32.00   -0.8
ZON      0.98 100 iPd    20 37.00    0.6
                  eS     20 54.00
RTLL     1.15  87 iPc    20 37.80   -0.1
                  S      20 52.80
JACH     1.45 207 iP     20 41.50    0.6
                  iS     21 01.10
ROCH     1.88 212 iPc    20 46.10    0.3
                  iS     21 09.00
PEL      1.90 203 iPd    20 46.00    0.1
                  iS     21 09.50
PCH      2.30 195 iP     20 51.00    0.2
                  iS     21 18.50
TACH     2.45 203 iPc    20 52.50    0.0
                  iS     21 21.50
LCCH     2.56 215 iP     20 54.00    0.2
CHCH     2.64 195 eP     20 54.50   -0.3
                  iS     21 24.60
LNV      2.89 207 iP     20 57.30   -0.7
      S.D. = 0.5  on  11 of  11 obs.
-----------------------------------------
*  JUL  26, 1991  16h 27m 26.16± 0.56s
    2.098 S ± 8.3km  128.228 E ±17.4km
   DEPTH =  33.0km  (normol)
   4.9mb (  6 obs.)  4.0Msz (  1 obs.)
 CERAM SEA                          (270)

TRT     16.50 250 ePc    31 26.00    9.2X
WR2     18.73 162 eP     31 43.30   -1.3
         0.4s    23.10nm          4.7mb
                  eS     35 03.90
MBL     20.64 203 eP     32 04.80   -0.8
OIS     21.45 150 eP     32 14.00    0.1
                  e      36 07.00
ASPA    22.13 166 iPd    32 20.80    0.0
         1.1s    52.50nm          4.9mb
      Z  21s     0.60um          4.0Msz
                  eS     36 18.60
WARB    24.00 184 eP     32 41.00    2.1
CTAO    25.10 137 eP     32 54.00    4.4X
IPM     27.98 284 ePd    33 16.40    0.2
WHN     35.05 339 P      34 19.50    1.4
         1.0s    20.00nm          5.0mb
CHG     35.51 307 eP     34 23.30    1.0
CAN     38.28 152 eP     34 48.80    3.5X
XAN     40.28 335 P      35 01.10   -0.9
TIY     42.23 341 eP     35 16.60   -1.4
SNY     43.92 355 eP     35 31.90    0.4
LZH     44.28 331 eP     35 35.00    0.2
         1.5s    31.00nm          4.9mb
      Z  30s     0.29um          4.0MszX
                  pP     35 45.00   34kmX
                  sP     35 50.00
LSA     47.49 315 P      35 58.80   -1.9
GTA     48.86 331 P      36 10.60   -0.2
         0.8s    10.00nm          4.9mb
                  pP     36 21.80   39kmX
WMO     58.35 326 P      37 21.00    0.3
         1.0s    10.00nm          4.9mb
YAK     63.95   1 iPc    37 58.60    0.6
      S.D. = 1.1  on  16 of  19 obs.
-----------------------------------------
*  JUL  26, 1991  18h 50m 17.45± 1.08s
   32.968 S ± 9.4km   71.490 W ± 8.6km
   DEPTH =  33.0km  (normol)
 NEAR COAST OF CENTRAL CHILE        (135)

IHA      0.14 246 eP     50 23.50    0.0
                  iS     50 29.10
ROCH     0.40  91 iPd    50 27.10    0.3
                  iS     50 34.50
LCCH     0.51 188 iPc    50 28.00   -0.2
                  iS     50 36.00
PEL      0.70 105 iPd    50 31.50    0.6
                  iS     50 42.50
JACH     0.81  70 iP     50 32.00   -0.5
                  iS     50 44.10
TACH     0.82 146 iPd    50 32.60   -0.1
                  iS     50 45.50
SAN      0.85 125 iP     50 32.20   -0.8
                  iS     50 46.20
PCH      1.04 129 iPd    50 36.00    0.1
                  iS     50 51.00
CHCH     1.19 144 iPd    50 38.10    0.2
                  iS     50 54.80
      S.D. = 0.5  on   9 of   9 obs.
-----------------------------------------
?  JUL  26, 1991  19h 12m 49.41± 1.23s
   46.324 N ±25.6km    1.847 E ± 7.2km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                             (538)
      ML 1.6 (LDG).

LSF      0.23 251 Pg     12 54.40    0.0
                  Sg     12 57.90
TCF      0.25  98 Pg     12 55.20    0.4
                  Sg     12 59.20
MAF      0.51 101 Pg     12 59.40   -0.3
                  Sg     13 07.20
BGF      0.73  71 Pg     13 03.70    0.0
                  Sg     13 13.00
      S.D. = 0.5  on   4 of   4 obs.
-----------------------------------------
*  JUL  26, 1991  19h 14m 14.47± 1.33s
   21.742 S ±14.4km   68.007 W ±19.0km
   DEPTH = 120.0km  (geophysicist)
 CHILE-BOLIVIA BORDER REGION        (124)

ANT      2.96 228 iPc    15 01.00    0.1
CCH      4.68  22 P      15 26.30    1.8
CNCB     4.91   0 iPd    15 28.00    0.2
LPB      5.18 359 P      15 31.30   -0.1
ZOBO     5.45 359 P      15 34.00   -1.1
SIV      8.71  50 P      16 18.20   -0.8
      S.D. = 1.4  on   6 of   6 obs.
-----------------------------------------
?  JUL  26, 1991  19h 30m 37.09± 4.81s
   12.557 N ±33.5km   89.410 W ±21.0km
   DEPTH =  10.0km  (geophysicist)
 OFF COAST OF CENTRAL AMERICA        ( 76)
      Felt (II) at San Salvador, El
      Salvadar.

QZA      1.04  23 iPd    30 56.50   -0.3
SJAS     1.13  12 iPd    30 58.20   -0.1
VSS      1.19   8 eP     31 00.00    0.6
VSM      1.41  52 iPc    31 03.20    0.2
TME      1.45   2 eP     31 02.50   -0.9
YPE      1.58 350 iPd    31 05.80    0.5
                  eS     31 21.50
      S.D. = 0.7  on   6 of   6 obs.
-----------------------------------------
%  JUL  26, 1991  19h 45m 46.66± 1.05s
   14.947 N ± 8.2km   62.126 W ±18.6km
   DEPTH =  10.0km  (geophysicist)
 WINDWARD ISLANDS                    ( 95)
      MD 3.8 (TRN).

SLW      1.48 128 eP     46 12.72   -0.6
                  eS     46 32.63
SLB      1.53 137 iP     46 14.08    0.0
MGH      1.77 357 eP     46 17.52    0.0
SVB      1.87 153 eP     46 20.18    1.2
                  eS     46 35.79
FCV      1.97 154 eP     46 21.04    0.5
                  eS     46 51.16
GRW      2.81 171 eP     46 33.59    1.1
TCE      4.24 175 eP     46 52.76    0.0
TRN      4.33 171 eP     46 53.54   -0.5
TBH      4.55 167 eP     46 55.51   -1.7
      S.D. = 1.0  on   9 of   9 obs.
-----------------------------------------
&  JUL  26, 1991  19h 58m 06.21s
   59.796 N          153.079 W
   DEPTH = 104.5km
 SOUTHERN ALASKA                     (  2)
      <AEIC>.

IVS      0.21 360 eP     58 20.88    0.9
AUE      0.46 199 iPd    58 21.59   -0.8
AUH      0.47 203 ePd    58 21.86   -0.7
AUI      0.50 201 iPd    58 21.80   -0.8
                  eS     58 33.45
PDB      0.56 270 iPd    58 22.19   -1.0
RED      0.64  14 iPc    58 23.16   -0.8
                  eS     58 35.96
RSO      0.69  14 iPc    58 23.80   -0.6
RDW      0.70  11 iPc    58 23.82   -0.7
                  eS     58 37.21
REF      0.72  15 iPc    58 24.03   -0.7
                  eS     58 37.48
RDN      0.74  12 iPc    58 24.21   -0.6
                  eS     58 37.50
HOM      0.74 100 iPc    58 24.24   -0.4
                  eS     58 38.36
XLV      0.77 116 iPc    58 24.07   -0.9
                  eS     58 38.51
NCT      0.77   5 iPd    58 24.37   -0.7
                  eS     58 38.03
DFR      0.82  14 ePd    58 24.83   -0.7
RDT      0.85  23 iPc    58 24.98   -0.8
MCNL     0.89 227 iPd    58 24.93   -1.2
                  eS     58 39.11
CDD      0.92 199 iPd    58 25.23   -1.2
                  iS     58 40.88
NNL      0.93  74 iPc    58 26.76    0.2
CNPM     0.97 105 iPc    58 26.10   -0.9
                  eS     58 41.36
BRLK     1.11  91 ePc    58 27.53   -1.0
                  eS     58 44.19
BGM      1.17 251 eP     58 27.95   -1.2
SYI      1.24 163 ePc    58 29.00   -0.9
                  eS     58 46.78
NKA      1.32  43 ePc    58 31.83    1.0
CKL      1.45  14 iPd    58 31.94   -0.7
SPU      1.48  20 ePd    58 32.06   -0.8
BGL      1.51  13 iPd    58 32.88   -0.5
SLKM     1.60  62 ePc    58 33.21   -1.1
                  eS     58 54.33
CGLM     1.61  19 iPd    58 33.81   -0.7
NCG      1.68  15 iPd    58 34.81   -0.6
SVW      1.82 317 iPd    58 35.89   -1.3
                  eS     58 58.87
SUA      2.03  34 ePd    58 39.45   -0.5
                  eS     59 04.70
KDC      2.08 171 iPd    58 38.45   -2.0
                  eS     59 03.78
PMS      2.27  49 iPc    58 42.21   -0.8
SKT      2.32  18 ePd    58 42.62   -1.1
                  eS     59 12.31
PWA      2.44  39 eP     58 44.69   -0.5
LTI      2.64  82 iPc    58 46.32   -1.7
PLRM     2.65  45 eP     58 46.67   -1.4
KNIM     2.74  76 iPc    58 46.89   -2.3
MTU      2.74  84 ePc    58 47.70   -1.6
KNK      2.80  53 ePd    58 48.16   -1.9
GHO      2.84  44 eP     58 49.27   -1.5
CUT      2.95  26 ePd    58 51.17   -1.0
GLI      3.17  67 eP     58 51.78   -3.3
TTA      3.45 337 iPd    58 57.20   -1.8
VZW      3.47  66 eP     58 57.37   -1.9
HUR      3.60  26 ePd    59 00.49   -0.5
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VLZ      3.60  65 eP     58 58.51  -2.4
TRF      3 90  19 ePd    59 03.67  -1.6
KTH      3.91  14 eP     59 04.02  -1.2
KLU      3.91  61 iPc    59 02.83  -2.5
TOA      4.09  53 iPc    59 06.30  -1.4
RND      4.15  27 eP     59 06.89  -1.6
MCK      4.41  25 eP     59 10.92  -1.2
PAX      4.85  46 eP     59 17.40  -0.8
GLB      4.85  66 ePc    59 15.35  -2.9
CRQM     5.04  75 eP     59 19.20  -1.7
NEA      5.15  20 eP     59 19.72  -2.5
TGL      5.19  75 eP     59 20.95  -2.0
WRH      5.24  24 eP     59 20.98  -2.5
BALM     5.46  72 eP     59 23.81  -2.9
MDM      5.65  21 eP     59 26.60  -2.6
FBA      5.68  23 eP     59 27.16  -2.4
CTGM     5.94  74 eP     59 32.09  -1.3
IMA      6.30 358 eP     59 35.57  -2.7
PNL      6.92  85 iPc    59 43.98  -2.6
        65 obs. associated
-----------------------------------------
?  JUL  26, 1991  21h 16m 50.47± 2.18s
   43.927 N ±17.4km     7.667 E ±11.1km
   DEPTH =   5.0km  (geophysicist)
 NEAR SOUTH COAST OF FRANCE        (379)
      ML 1.8 (GEN).

IMI      0.16  96 P      16 53.86   0.0
                  S      16 56.26
ENR      0.35 329 P      16 57.55   0.0
                  S      17 02.35
ROB      0.40  22 P      16 58.43   0.0
                  S      17 02.81
STV      0.40 322 P      16 58.52   0.0
                  S      17 03.96
     S.D. = 0.1  on   4 of   4 obs.
-----------------------------------------
?  JUL  26, 1991  22h 53m 49.86± 0.88s
   43.216 N ±21.2km     0.444 E ±48.8km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                            (538)
      ML 2.9 (LDG). Felt (II) at
      Arthez d'Asson, France.

EPF      0.20 202 Pg     53 54.30   0.0
                  Sg     53 57.10
LPO      1.56  20 Pn     54 18.50   0.8
                  Pg     54 23.50
                  Sg     54 48.00
LFF      1.74   7 Pg     54 25.60   5.4X
                  Sg     54 50.80
CAF      2.07  34 Pn     54 25.50   0.4
                  Pg     54 33.80
                  Sg     55 05.30
RJF      2.23  20 Pg     54 35.50   8.2X
                  Sg     55 07.70
LSF      3.13  14 Pn     54 39.90  -0.2
                  Pg     54 51.30
                  Sg     55 34.90
TCF      3.32  22 Pn     54 43.10   0.2
                  Pg     54 55.40
                  Sg     55 41.30
MAF      3.36  26 Pn     54 42.30  -1.2
                  Sg     55 45.00
MFF      3.41 353 Pg     54 54.20  10.1X
                  Sg     55 39.30
BGF      3.75  26 Pg     55 04.40  15.4X
                  Sg     55 55.50
     S.D. = 0.9  on   6 of  10 obs.
-----------------------------------------
?  JUL  27, 1991  00h 44m 08.17± 0.98s
   43.723 N ±42.8km     7.109 E ±25.7km
   DEPTH =  10.0km  (geophysicist)
 NEAR SOUTH COAST OF FRANCE        (379)
      ML 1.6 (LDG).

SBF      0.27  59 Pg     44 14.00   0.0
                  Sg     44 18.80
FRF      0.37 244 Pg     44 16.00   0.2
                  Sg     44 21.90
LMR      0.58 229 Pg     44 20.00   0.0
                  Sg     44 29.60
LRG      0.61 244 Pg     44 20.20  -0.2
                  Sg     44 28.90
     S.D. = 0.3  on   4 of   4 obs.
-----------------------------------------
*  JUL  27, 1991  01h 45m 48.32± 1.73s
   5.690 S ±11.4km   131.036 E ±15.0km
   DEPTH =  76.7 ± 18.1 km
   4.2mb (  2 obs.)
 BANDA SEA                         (280)

AAI      3.46 305 ePc    46 42.00   1.0
                  eS     47 13.70
KNA     10.24 192 eP     48 13.70  -1.0
                  eS     50 03.00
QIS     16.96 151 eP     49 40.80  -1.4
                  eS     52 38.00
ASPA    18.09 172 iPd    49 55.40  -0.7
        0.4s     68.10nm          5.2mb X
                  eS     53 07.00
                  iPcS   57 03.10
MBL     18.83 214 eP     50 05.00   0.1
CTAO    20.58 135 iP     50 24.00   0.6
WARB    20.81 191 eP     50 27.00   1.3
                  eS     54 08.00
QLP     24.30 150 eP     51 01.00   1.1
STK     27.87 161 iPd    51 33.20   0.4
        1.2s     3.40nm          3.8mb
KLB     28.61 204 eP     51 40.00   0.5
BDT     39.00 306 eP     53 03.70  -5.4X
CHG     39.91 308 eP     53 15.70  -1.0
CHTO    39.91 308 iP     53 15.80  -0.9
        1.0s     6.25nm          4.5mb
ZOBO   151.10 139 PKP    05 36.70   7.0X
     S.D. = 1.1  on  12 of  14 obs.
-----------------------------------------
?  JUL  27, 1991  03h 16m 26.76± 6.05s
   14.491 N ±57.2km    92.330 W ±21.3km
   DEPTH =  48.5 ± 15.3 km
 NEAR COAST OF CHIAPAS, MEXICO     ( 69)

TPX      0.42   9 iP     16 37.00   0.0
                  iS     16 44.00
SCX      2.25 353 iP     17 02.25   0.0
                  iS     17 28.50
OXX      4.95 302 eP     17 44.00   3.2X
LVVM     6.54 324 (P)    17 59.00  -3.8X
IISM     6.59 313 iP     18 03.50   0.0
                  iS     19 21.50
IIT      7.28 309 (P)    18 30.50  16.9X
PPM      7.55 308 eP     18 17.50   0.0
                  iS     19 49.00
TUL     21.55 352 e(P)   21 14.00   0.0
     S.D. = 0.1  on   5 of   8 obs.
-----------------------------------------
?  JUL  27, 1991  03h 51m 32.06± 1.74s
   33.382 S ± 8.1km   117.725 E ±21.8km
   DEPTH =  10.0km  (geophysicist)
 WESTERN AUSTRALIA                 (590)

NWAO     0.61 318 eP     51 44.20  -0.2
                  eS     51 53.00
RKG      1.33 206 eP     51 56.50   0.0
                  eS     52 13.00
KLB      1.78   1 eP     52 03.10   0.0
                  eS     52 25.00
MUN      1.90 317 eP     52 05.00   0.3
                  eS     52 30.20
     S.D. = 0.3  on   4 of   4 obs.
-----------------------------------------
&  JUL  27, 1991  04h 01m 51.27s
   45.634 N          122.865 W
   DEPTH =  20.1km
 WASHINGTON-OREGON BORDER REGION ( 28)
      <SEA>. MD 2.8 (SEA).

PGO      0.33 120 P      01 58.24  -0.3
KMOR     0.44 270 Pc     01 59.55  -0.8
                  S      02 06.29
RVW      0.52   9 Pd     02 00.95  -0.7
                  S      02 08.50
LVP      0.54  36 Pd     02 01.28  -0.7
                  S      02 09.12
VLMM     0.59  99 Pd     02 02.35  -0.5
                  S      02 11.50
MTMW     0.60  49 Pd     02 02.16  -0.9
NLO      0.61 318 Pc     02 02.98  -0.2
GT2      0.64 139 P      02 02.76  -0.9
FL2      0.67  32 Pd     02 03.47  -0.7
SHW      0.71  38 Pd     02 04.18  -0.8
JLK      0.71  44 Pd     02 04.02  -1.0
HSR      0.72  41 Pd     02 04.44  -0.7
REMW     0.74  40 P      02 04.74  -0.7
CDFW     0.75  50 Pd     02 04.55  -1.0
STD      0.75  36 Pd     02 04.65  -1.0
ESD      0.75  41 Pd     02 04.85  -0.8
ERK      0.76  28 Pd     02 04.81  -1.0
SOSW     0.79  40 P      02 05.36  -0.9
TDH      0.83 114 Pc     02 06.07  -0.9
APM      0.84  83 Pd     02 06.35  -0.7
CZM      0.84  17 Pd     02 06.08  -1.0
TDL      0.85  32 Pd     02 06.25  -1.0
VLL      0.85 101 P      02 06.70  -0.6
BMW      0.88 343 Pd     02 06.48  -1.3
GULW     0.93  71 Pd     02 07.74  -1.0
KOSW     0.95  29 Pd     02 07.98  -1.0
ASR      1.03  59 Pd     02 09.18  -1.2
VFP      1.03 107 P      02 09.58  -0.9
VBEM     1.07 122 Pc     02 10.18  -0.9
LMW      1.11  21 Pd     02 10.85  -0.8
GLK      1.28  43 Pd     02 13.37  -0.8
LON      1.34  33 Pd     02 14.38  -0.5
CPW      1.35 352 Pd     02 14.30  -0.8
REMR     1.38  31 P      02 15.34  -0.3
WPW      1.40  40 Pd     02 15.58  -0.3
RVC      1.45  25 ePd    02 16.24  -0.3
GL2      1.47  76 P      02 17.10   0.3
GHW      1.47  16 P      02 15.99  -0.7
VGB      1.47  94 eP     02 17.00   0.2
CROR     1.48 116 ePc    02 16.76  -0.2
FMW      1.54  32 Pd     02 17.92   0.0
MEW      1.58   5 P      02 18.43   0.2
VTHM     1.69 105 P      02 19.92   0.0
SMW      1.72 349 P      02 20.46   0.1
GSM      1.74  25 Pd     02 21.00   0.3
TCO      1.77 149 P      02 21.39   0.1
NAC      1.79  51 P      02 22.04   0.5
GMO      1.81 131 P      02 21.46  -0.3
HBO      1.83 168 ePc    02 22.29   0.1
GMW      1.92   2 P      02 23.00  -0.2
VIPM     1.95 124 Pc     02 23.58  -0.3
RMW      1.97  21 Pd     02 24.57   0.5
SPW      1.97  12 P      02 24.55   0.6
HDW      2.02 356 Pd     02 24.83   0.0
MXC      2.02  61 P      02 24.92   0.1
EBG      2.04  50 P      02 25.52   0.4
PATW     2.19  82 P      02 27.88   0.7
TBM      2.20  45 P      02 28.21   0.9
RSW      2.41  70 P      02 31.31   1.0
ETW      2.63  41 P      02 37.20   3.6
JCW      2.64  14 P      02 34.73   1.1
        61 obs. associated
-----------------------------------------
?  JUL  27, 1991  05h 12m 13.83± 5.90s
   62.008 N ±21.7km     2.079 E ±45.8km
   DEPTH =  10.0km  (geophysicist)
 NORWEGIAN SEA                     (642)
      MD 2.1 (BER).

FRO      1.35 100 eP     12 38.44  -0.2
                  eS     12 53.22
FOO      1.47 105 eP     12 40.39   0.1
                  eS     12 57.47
SUE      1.60 125 iP     12 42.21   0.0
                  iS     13 00.87
HYA      2.14 111 iP     12 50.10   0.1
                  iS     13 13.85
ASK      2.15 134 iP     12 50.31   0.2
                  iS     13 14.91
EGD      2.32 137 iP     12 52.60   0.0
                  iS     13 19.26
MOL      2.62  75 iP     12 56.80   0.0
                  iS     13 24.61
KMY      3.21 149 iP     13 04.97  -0.3
                  eS     13 40.28
     S.D. = 0.2  on   8 of   8 obs.
-----------------------------------------
*  JUL  27, 1991  05h 36m 44.29± 2.37s
   24.636 S ±13.5km   179.827 E ±12.7km
   DEPTH = 552.9 ± 33.2 km
   4.3mb (  4 obs.)
 SOUTH OF FIJI ISLANDS             (171)

DZM     12.56 279 iPc    39 29.00   0.0
THZ     18.02 197 P      40 23.30   0.6
KHZ     18.48 195 P      40 26.50  -0.4
LTZ     19.14 197 P      40 32.70  -0.5
CTAO    31.33 272 iPd    42 22.00   0.6
STK     34.31 249 eP     42 47.60   1.3
        0.4s     2.10nm          4.1mb
```

27d 05h

```
ASPA    41.77 261 iPc    43 46.90  -0.2
        0.9s      9.00nm          4.3mb
WRA     42.20 267 P      43 49.00  -0.1
        0.5s     17.10nm          4.8mb
FORR    45.87 250 eP     44 08.50 -10.4X
PLM     83.38  49 eP     48 15.00   0.2
RVR     83.40  48 eP     48 14.00  -0.7
SBB     83.50  47 eP     48 15.00  -0.2
ISA     83.64  46 eP     48 16.00   0.1
CLC     84.31  46 eP     48 19.00  -0.2
CWC     84.36  46 eP     48 19.00  -0.6
TPC     84.37  49 eP     48 20.00   0.5
GSC     84.54  47 eP     48 20.00  -0.4
GLA     84.62  50 eP     48 22.00   1.2
ALQ     91 53  52 eP     48 53.50   0.2
        1.0s      3.25nm          4.3mb
NB2    142.78 351 PKP    55 11.60  -4.1X
        1.0s      3.70nm
HFS    143.23 348 ePKP   55 12.80  -3.6X
        0.7s     10.40nm
EKA    149 26   3 PKP    55 31.00   4.7X
        1.2s      7.90nm
KRA    150.20 334 ePKP   55 33.80   5.9X
KSP    150.91 338 iPKPc  55 35.80   6.8X
CLL    151.51 343 iPKPd  55 37.20   7.4X
BRG    151.63 341 iPKP   55 37.40   7.4X
        1.0s     12.00nm
                   i     57 43.40
      S.D. = 0.8  on  18 of  26 obs.
-----------------------------------
% JUL  27, 1991  08h 32m 36.50± 0.66s
   46.499 N ± 8.9km    2.909 E ± 6.7km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                            (538)
      ML 2.0 (LDG).

BGF      0.07 324 Pg     32 38.80  -0.1
                  Sg     32 40.10
MAF      0.37 221 Pg     32 44.00   0.0
                  Sg     32 49.30
AVF      0.42  46 Pg     32 44.20  -0.9
                  Sg     32 49.60
TCF      0.53 247 Pg     32 47.20   0.0
                  Sg     32 54.50
SMF      0.66  77 Pg     32 49.40  -0.2
LBF      0.88  56 Pg     32 54.10   0.7
                  Sg     33 04.70
                  Sn     33 06.50
LOR      1.01  40 Pg     32 56.20   0.6
                  Sg     33 08.00
                  Sn     33 09.80
      S.D. = 0.7  on   7 of   7 obs.
-----------------------------------
*  JUL  27, 1991  09h 33m 16.60± 0.93s
   1.111 N ±18.7km   91.499 W ±18.6km
   DEPTH =  10.0km  (geophysicist)
   4.4mb (  7 obs.)
 GALAPAGOS ISLANDS REGION          (696)

BOG     17.76  78 e(P)  37 26.00   0.0
                  e(S)  40 36.00
ZOBO    28.82 128 P     39 18.30   0.3
CNCB    29.24 129 P     39 23.00   1.2
SIV     34.52 121 P     40 06.00  -1.5
ALQ     36.44 339 eP    40 24.00   0.3
        1.1s      4.11nm          4.2mb
PLM     39.94 326 e(P)  40 51.30  -1.8
GOL     40.44 343 eP    40 56.50  -0.7
        1.0s      5.75nm          4.2mb
GLD     40.44 344 e(P)  40 56.50  -0.6
PV09    40.57 339 eP    41 00.50   2.1
RSSD    44.25 347 eP    41 27.70  -0.5
        1.2s      9.84nm          4.5mb
BW06    44.53 341 eP    41 31.00   0.5
        1.0s      2.83nm          4.1mb
ORV     47.03 328 e(P)  41 56.00   5.9X
SES     51.84 344 eP    42 28.00   0.9
NEW     51.92 338 eP    42 28.00   0.3
PNT     53.73 338 eP    42 42.00   0.9
        0.6s      4.00nm          4.6mb
FFC     54.13 353 eP    42 36.00  -7.8X
        1.0s      7.00nm          4.6mb
INK     72.90 345 eP    44 47.00  -0.5
MBC     76.69 353 eP    45 08.00  -1.1
        1.0s     13.00nm          5.0mb
      S.D. = 1.1  on  16 of  18 obs.
-----------------------------------
    JUL  27, 1991  09h 39m 32.80± 0.36s
     1.831 N ± 7.9km    90.555 W ± 8.8km
    DEPTH =  10.0km  (geophysicist)
    5.0mb ( 11 obs.)  5.2Msz (  3 obs.)
  GALAPAGOS ISLANDS REGION          (696)
        Mo=8.0*10**17 Nm (PPT).
        CENTROID, MOMENT TENSOR     (HRV)
        Data Used: GDSN
        L.P.B.: 21S, 45C
        Centroid Location:
        Origin Time        09:39:39.8 0.7
        Lat  1.60N 0.06 Lon  90.76W 0.07
        Dep  15.0 FIX Half-duration  2.5
        Moment Tensor;    Scale 10**17 Nm
          Mrr= 0.99 0.19  Mtt= 0.82 0.17
          Mff=-1.80 0.30  Mrt= 0.33 0.43
          Mrf=-1.12 0.64  Mtf=-3.05 0.14
        Principal Axes:
          T  Val=  3.20  Plg=23  Azm= 36
          N        0.73      65      192
          P       -3.93       9      302
        Best Double Couple:Mo=3.6*10**17
          NP1:Strike= 77 Dip=68 Slip= 170
          NP2:       171      81       23

ARE     26.17 135 eP    45 11.00   1.3
ZOBO    28.54 130 P     45 31.90   0.3
        1.1s     37.12nm          5.1mb
LPB     28.72 130 P     45 33.00   0.0
        1.0s     52.00nm          5.3mb
      Z  24s     22.09um          5.7MszX
                  PcP    48 36.00
                  LR     55 16.00
CNCB    28.97 131 P     45 36.20   0.7
CCH     30.72 129 P     45 51.00   0.2
JSC     33.43  14 P     46 14.50   0.6
SIV     34.09 122 Pd    46 19.40  -0.6
POW     34.15 359 P     46 20.00  -0.2
TUL     34.25 352 eP    46 20.80  -0.3
        0.8s      5.50nm          4.5mb
      Z  22s      1.32um          4.6Msz
                  eS     52 08.00
                  LR     52 56.00
FVM     35.98   0 eP    46 36.00   0.2
                  epP    46 41.20  18kmX
ALO     36.12 338 ePc   46 37.00  -0.3
        1.6s     37.50nm          5.0mb
      Z  18s      4.47um          5.3Msz
BLA     36.43  14 eP    46 40.00   0.4
        1.2s     53.03nm          5.2mb
CBN     38.17  17 eP    46 55.00   0.9
GLA     38.51 326 P     46 58.00   0.8
BAR     39.29 324 eP    47 03.00  -0.7
PLM     39.89 325 eP    47 10.00   1.2
TPC     39.98 326 eP    47 10.00   0.6
GLD     40.03 342 eP    47 10.80   0.8
                  epP    47 17.50  23kmX
GOL     40.03 342 P     47 10.20   0.1
        1.0s     18.75nm          4.7mb
PV09    40.26 337 eP    47 12.00   0.0
PEC     40.45 325 e(P)  47 12.50  -0.8
                  epP    47 18.20  19kmX
RVR     40.64 325 eP    47 15.00   0.2
MWC     41.20 324 eP    47 27.00   7.4X
GSC     41.28 327 eP    47 20.00  -0.1
SBB     41.40 325 eP    47 21.00  -0.1
MSU     41.53 334 P     47 23.00   0.7
CLC     42.09 327 eP    47 27.00   0.2
ISA     42.47 326 eP    47 31.00   1.1
SYP     42.55 323 eP    47 36.00   5.4X
CWC     42.82 327 eP    47 36.00   3.2X
TNP     43.58 329 eP    47 39.00  -0.1
        0.7s      6.67nm          4.5mb
                  ipP    47 45.20  21kmX
RSSD    43.78 346 eP    47 40.50  -0.1
                  ipP    47 46.90  21kmX
PRI     44.07 324 e(P)  47 47.00   4.1X
FRI     44.12 326 e(P)  47 44.30   1.2
BW06    44.17 340 eP    47 42.70  -1.1
                  ipP    47 48.50  19kmX
PRS     44.61 324 eP    47 51.70   4.5X
PPD     45.06 124 eP    47 49.90  -1.1
CMB     45.24 326 eP    47 52.90   0.6
MHC     45.46 325 eP    47 54.00  -0.1
BNH     45.88  19 eP    47 57.50   0.4
BKS     46.17 325 e(P)  47 56.00  -3.6X
                  eS     54 56.00
                  eLR    02 22.00
                  e      03 42.00
ORV     46.93 327 e(P)  48 04.30  -1.2
MIN     47.55 328 e(P)  48 11.80   1.2
LRM     47.84 339 eP    48 12.90   0.0
WDC     48.22 327 eP    48 16.70   1.0
VAO     49.10 123 eP    48 21.60  -1.2
SOB1    50.68 103 eP    48 34.90   0.0
SES     51.42 343 eP    48 39.00  -1.1
NEW     51.61 338 e(P)  48 40.00  -1.6
                  epP    48 44.50  15kmX
                  PcP    50 00.00
PNT     53.44 337 eP    48 55.00  -0.1
        1.0s     22.00nm          5.1mb
FFC     53.55 352 eP    48 55.00  -0.8
        1.7s     43.00nm          5.2mb
SCH     56.27  16 eP    49 15.00  -0.7
YKA     63.13 348 eP    50 12.60   9.8X
        1.0s      4.00nm          4.6mb
INK     72.46 345 eP    51 00.00  -1.1
PMR     73.91 335 e(P)  51 09.00  -0.7
FBA     74.96 338 P     51 14.00  -1.8
MBC     76.09 353 eP    51 22.00   0.1
        1.2s     28.00nm          5.2mb
KIC     85.64  84 P     52 14.20   0.5
MAL     85.82  53 eP    52 15.00   0.9
                  iS     02 56.00
MAT    120.78 315 ePKP  58 35.00   7.7X
      Z  20s      0.71um          5.3Msz
WRA    132.60 244 PKP   58 56.00   5.6X
        1.2s      1.50nm
QUE    141.60  32 ePKP  59 14.50   7.4X
KMI    150.27 335 PKPd  59 26.00   4.5X
      S.D. = 0.8  on  52 of  63 obs.
-----------------------------------
*  JUL  27, 1991  09h 54m 48.91± 0.80s
   39.865 N ±12.6km  118.799 E ± 7.1km
   DEPTH =  33.0km  (normal)
 NORTHEASTERN CHINA                (658)

BJI      2.02 276 Pn     55 21.50   0.1
                  Pg     55 24.00
                  Sg     55 50.50
DL2      2.39 113 iPnd   55 27.30   0.7
                  Pg     55 33.60
                  Sg     56 02.60
TIA      3.88 200 ePn    55 46.90  -0.8
                  Pg     55 58.50
                  Sn     56 30.40
                  Sg     56 46.80
SNY      4.12  60 Pn     55 50.60  -0.5
                  Sg     56 58.00
TIY      5.42 249 Pnc    56 09.40  -0.2
                  Pg     56 24.00
                  Sg     57 35.80
HHC      5.61 282 Pgc    56 29.80  17.4X
                  Sg     57 47.00
CN2      6.33  49 Pgd    56 45.50  23.1X
                  eSg    58 06.50
BTO      6.76 279 ePg    56 50.40  21.9X
                  Sg     58 18.60
XAN      9.81 237 eP     57 16.00   5.2X
GTA     14.64 274 eP     58 24.00   8.4X
CD2     15.16 239 eP     58 22.90   0.6
      S.D. = 0.8  on   6 of  11 obs.
-----------------------------------
*  JUL  27, 1991  10h 06m 36.82± 0.52s
     1.773 N ±12.8km   90.490 W ±14.2km
   DEPTH =  10.0km  (geophysicist)
   4.8mb (  9 obs.)  5.4Msz (  1 obs.)
 GALAPAGOS ISLANDS REGION          (696)

ZOBO    28.45 130 P     12 35.20   0.4
        1.0s     15.50nm          4.8mb
LPB     28.63 130 P     12 36.00  -0.3
CNCB    28.89 131 P     12 39.60   0.9
JSC     33.47  14 P     13 19.00   0.7
VVO     33.75 352 eP    13 27.20   6.5X
SIV     34.01 122 P     13 22.40  -0.9
POW     34.21 359 P     13 25.50   0.8
TUL     34.32 352 eP    13 25.90   0.2
        0.8s     13.50nm          4.9mb
                  e      13 30.90
ALQ     36.20 338 eP    13 41.20  -0.7
        1.3s     14.42nm          4.7mb
BAR     39.38 324 eP    14 14.00   5.5X
PLM     39.97 325 eP    14 14.00   0.4
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```
TPC     40.06 326 eP     14 15.00   0.9
GOL     40.11 342 P      14 14.50  -0.2
        0.9s     10.42nm          4.5mb
GSC     41.36 327 eP     14 26.00   1.2
SBB     41.49 325 eP     14 27.00   1.2
MSU     41.61 334 P      14 26.00  -1.0
CLC     42.18 327 eP     14 32.00   0.5
ISA     42.56 326 eP     14 35.00   0.4
CWC     42.90 327 eP     14 38.00   0.5
TNP     43.67 329 P      14 44.00   0.2
RSSD    43.85 346 P      14 45.00  -0.2
PRI     44.15 324 e(P)   14 51.40   3.8X
FRI     44.20 326 e(P)   14 47.40  -0.4
BW06    44.25 340 P      14 47.00  -1.5
PRS     44.70 324 e(P)   14 52.30   0.4
PPD     44.97 124 (P)    14 53.00  -1.3
CMB     45.32 326 eP     14 57.10   0.2
ORV     47.02 327 eP     15 10.60   0.4
MIN     47.63 328 e(P)   15 11.60  -3.7X
LRM     47.92 339 eP     15 16.50  -1.1
SES     51.49 343 eP     15 44.00  -0.6
PNT     53.51 337 eP     15 59.00  -0.7
        0.7s     10.00nm          4.9mb
FFC     53.61 352 eP     16 00.00  -0.3
        1.1s     18.00nm          5.0mb
YKA     63.20 348 eP     17 10.30   3.1X
        0.9s      6.30nm          4.8mb
INK     72.53 345 eP     18 04.00  -1.5
FBA     75.04 33B P      18 20.00  -0.2
        0.8s      4.31nm          4.5mb
MBC     76.15 353 ePc    18 25.50  -0.8
        1.0s     32.00nm          5.4mb
LIC     85.30  84 P      19 17.70   1.7
MAL     85.80  53 eP     19 19.00   1.0
BJI    131.76 332 ePKP   25 52.00  -0.2X
     Z  20s      0.72um          5.4Msz
WRA    132.63 244 PKP    25 59.00   4.5X
        1.3s      1.40nm
QUE    141.61  32 ePKP   26 15.60   4.4X
KMI    150.35 335 PKPc   26 29.00   3.4X
        2.5s    158.00nm
                  pP     26 39.50
     S.D. = 0.9  on  34 of  43 obs.
-----------------------------------
?  JUL  27, 1991  10h 15m 25.21± 6.91s
   13.028 N ±40.8km   89.584 W ±29.1km
   DEPTH =  10.0km  (geophysicist)
 EL SALVADOR                      ( 73)
      Felt (II) at Son Salvador.

SJAS     0.75  33 iPd    15 41.00   1.0
OZA      0.76  49 iPd    15 39.00  -1.0
VSS      0.78  25 iPd    15 41.50   0.9
LFU      0.85  33 iPd    15 40.50  -1.2
TME      1.01  13 iPd    15 44.50   0.2
YPE      1.09 355 iPc    15 45.50  -0.3
VSM      1.34  73 iPd    15 50.40   0.4
     S.D. = 1.0  on   7 of   7 obs.
-----------------------------------
   JUL  27, 1991  11h 38m 12.73± 0.32s
   37.291 N ± 2.3km   29.739 E ± 2.2km
   DEPTH =  22.2 ±  2.8 km
   4.7mb ( 46 obs.)  4.5Msz (  6 obs.)
 TURKEY                           (366)
      MD 4.5 (ISK). Felt at Burdur,
      Denizli, Isparto and Antalya.

ELL      0.56 166 iPg    38 23.50  -0.4
KHL      1.04 351 iPg    38 31.10  -0.9
                iSg     38 44.20
YER      1.17 263 iPg    38 33.70  -0.2
ALT      1.79   9 ePn    38 43.20   0.5
IZM      2.25 300 iPn    38 49.20  -0.2
GPA      3.03   8 iPn    39 01.10   0.8
IZI      3.05 356 ePn    39 00.50  -0.2
PPCY     3.20 138 eP     39 05.70   3.0X
                eS      39 53.00
YLV      3.28 355 iPn    39 04.00   0.0
EYL      3.29   6 iPn    39 04.50   0.4
PRK      3.36 307 eP     39 04.70  -0.3
EDC      3.39 335 ePn    39 05.00  -0.4
GBZT     3.50 356 ePn    39 07.10   0.0
HRT      3.53 359 ePn    39 08.00   0.5
EZN      3.68 314 iPn    39 09.40  -0.2
KGT      3.68 330 iPn    39 10.00   0.3
CSS      3.72 12B eP     39 10.30   0.1
                eS      40 02.60

ISK      3.81 352 ePn    39 12.00   0.6
ITU      3.85 352 ePn    39 11.00  -1.0
                iSg     40 20.00
NPS      3.90 240 eP     39 12.50  -0.2
CTT      3.98 346 iPn    39 13.80  -0.1
FAM      4.14 122 eP     39 16.60   0.5
                eS      40 13.50
ALN      4.61 323 iPc    39 22.10  -0.7
                eS      40 11.20
ATH      4.83 280 eP     39 26.40   0.5
RDO      5.05 321 eP     39 28.10  -0.8
KAS      5.13  36 eP     39 32.00   1.7
OUR      5.43 306 ePd    39 33.51  -0.8
                eS      40 31.96
PAIG     5.43 301 ePc    39 33.39  -1.0
VLI      5.47 266 eP     39 37.90   2.9X
KDZ      5.49 324 iPc    39 35.00  -0.2
JMB      5.71 336 i(P)c  39 39.00   0.7
DIM      5.75 327 eP     39 38.00  -0.9
RZN      5.86 320 iPc    39 40.00  -0.7
BHL      5.88 123 Pnc    39 41.00   0.1
                Sn      40 57.00
GAZ      5.96  89 ePn    39 47.30   5.4X
AGG      6.09 289 ePd    39 44.32   0.6
SRS      6.11 311 ePc    39 42.87  -1.2
ADI      6.15 131 eP     39 45.30   0.7
PLD      6.18 323 iPc    39 44.00  -0.9
KVT      6.19  50 ePn    39 47.00   1.9
THE      6.24 304 ePc    39 45.32  -0.5
LIT      6.33 299 ePc    39 46.48  -0.6
ATZ      6.36 133 eP     39 48.00   0.5
                eS      40 56.00
ZNT      6.66 138 eP     39 51.40  -0.4
                eS      41 03.00
SHMJ     6.72 131 Pc     39 53.60   1.0
PGB      6.78 323 iPc    39 52.00  -1.4
PVL      6.81 332 iPc    39 53.00  -0.8
VAY      6.86 308 iPn    39 54.60   0.0
KKB      6.88 314 i(P)d  39 55.00   0.2
KZN      6.91 298 eP     39 55.70   0.3
BURJ     7.09 133 Pd     39 59.15   1.3
JARJ     7.17 133 Pd     40 00.18   1.1
SALJ     7.19 135 Pc     39 59.73   0.5
VTS      7.29 319 iPc    39 59.00  -1.7
KFNJ     7.30 136 Pd     40 01.66   1.0
VLS      7.31 280 eP     40 04.50   3.7X
MASJ     7.42 137 Pd     40 03.51   1.0
MKRJ     7.52 138 Pc     40 04.21   0.4
HLW      7.53 169 eP     40 03.00  -0.9
                eS      41 22.00
KOT      7.55 166 ePn    40 03.50  -0.6
BUC1     7.59 339 eP     40 22.00  17.3X
BUC      7.63 340 iPc    39 09.00 -56.3X
MKT      7.75 143 eP     40 06.30  -0.8
                eS      41 32.00
SKO      7.93 309 iPnc   40 09.00  -0.5
     Z  12s     10.54um
     N  10s      9.93um
     E  10s      7.80um
                i       40 12.00
                i       40 14.60
                i       40 21.70
                iSn     41 32.00
                i       41 35.00
                i       41 43.00
                iS      41 50.00
                i       42 06.50
                iSg     42 20.00
                LR      43 35.00
CFR      7.98 352 iP     40 09.00  -1.1
KEK      8.16 290 eP     40 16.20   3.4X
ISR      8.20 344 eP     40 17.00   3.7X
SHWJ     8.39 144 Pd     40 15.57  -0.6
CSTJ     8.41 135 Pc     40 16.33   0.0
MBH      8.64 149 eP     40 18.00  -1.5
GHZJ     8.64 139 Pd     40 19.38  -0.2
MTUR     8.67 338 eP     40 16.50  -3.4X
MLR      8.67 342 ePd    40 19.00  -1.0
CMP      8.72 338 ePc    40 20.00  -0.5
VRI      8.86 346 ePd    40 19.50  -2.9X
HITJ     9.09 144 Pd     40 25.19  -0.5
BEO     10.28 320 ePn    40 43.50   1.6
ROI     10.58 286 P      40 41.80  -4.4X
MSL     10.79  91 eP     41 01.50  12.6X
                eS      42 45.50
                e       44 27.00
CSI     10.83 287 P      40 49.80   0.3

CZI     10.87 284 P      40 49.50  -0.6
SOI     10.88 278 P      40 48.70  -1.4
MMN     11.07 288 P      40 53.20   0.4
ATN     11.34 279 P      40 55.40  -1.1
BMR     11.35 338 ePd    41 01.00   4.5X
MGR     11.44 289 P      40 58.00   0.2
SGO     11.70 291 P      41 00.00  -1.4
MEU     11.82 274 P      41 02.80  -0.2
MNO     11.95 278 P      41 05.00   0.0
UZD     12.45 322 eP     41 17.00   5.6X
BHD     12.62 104 ePnd   41 19.00   5.3X
                ePg     42 02.00
                eSn     43 13.00
                eS*     43 47.00
                eSg     44 15.00
SLY     12.80  93 eP     41 09.00  -7.1X
SDI     13.06 295 P      41 19.50  -0.1
TAB     13.17  82 e(P)   41 28.00   6.9X
ZAG     13.35 314 eP     41 25.00   1.7
PTJ     13.41 314 eP     41 23.10  -1.2
SRO     13.46 325 eP     41 31.00   6.3X
SPC     13.74 333 eP     41 32.80   4.1X
ASS     14.27 299 P      41 39.50   4.0X
ZST     14.30 324 eP     41 36.60   0.9
                e        41 40.30
KRA     14.58 334 eP     41 44.00   4.6X
     Z  16s      4.30um
     E  18s      3.00um
                e        41 47.80
                e        44 35.00
VKA     14.72 322 i(P)   41 45.60   4.3X
        3.0s    291.00nm          5.2mb
     Z  10s      4.85um          5.1MszX
                e        44 46.00
                LR       48 14.00
CRE     14.94 301 P      41 45.50   1.2
SFI     15.10 302 P      41 51.00   4.7X
KBA     15.57 314 iPd    41 53.60   1.0
        1.6s     61.80nm          4.6mb
                ic       41 54.70
                i        42 03.10
FVI     15.64 312 P      41 58.30   5.0X
KMR     15.70 318 iP+    41 59.80   5.8X
MME     15.98 302 P      42 02.40   4.5X
BDI     16.00 301 P      42 01.00   3.0X
CTI     16.07 309 P      42 03.40   4.4X
KSP     16.60 329 eP     42 09.00   3.5X
WTTA    16.66 312 iPd    42 10.10   3.6X
        1.8s    146.00nm          4.8mb
                i        42 17.60
                i        42 24.80
                i        42 37.30
                i        43 10.20
                i        43 11.90
PRU     16.75 324 iP     42 08.50   1.1
        1.5s     30.40nm          4.2mb
     Z  12s      6.50um          3.5Msz
     N  12s      2.50um
     E  12s      4.50um
                e        42 12.50
                e        42 32.00
                S        45 16.00
IR7     16.86  89 eP     42 12.50   3.5X
IR5     16.94  91 eP     42 15.50   5.5X
IR1     16.98  90 eP     42 14.50   4.0X
BOB     17.01 302 P      42 15.00   4.2X
IR4     17.19  90 eP     42 17.00   3.8X
BRG     17.64 325 eP     42 21.50   3.0X
                eS       45 48.00
SBF     18.14 298 eP     42 26.00   1.1
        1.2s     74.40nm          4.7mb
GRF     18.22 319 eP     42 27.90   2.2
     Z  14s      4.00um
CLL     18.37 325 eP     42 29.00   1.4
                eS       46 04.00
OBN     18.42  13 iPc    42 28.00  -0.1
     Z  14s      1.00um
     N  14s      1.50um
     E  14s      1.30um
                i        42 36.00
                e        42 54.00
                i        43 17.00
                i        46 07.00
                i        46 19.00
                i        48 48.00
MOX     18.60 322 eP     42 30.70   0.4
        2.4s     57.00nm          4.3mb
```

27d 11h

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      Z  15s      2.90um          6.4MszX
      N  15s      2.90um
      E  14s      1.20um
                    eS     46 04.00
FRF     18.63 297 eP     42 32 40    1.5
        1.2s     56.55nm          4.6mb
LRG     18.82 296 eP     42 34.00    0.9
        1.2s     47.60nm          4.6mb
      Z  20s      0.95um          5.7Msz
LPG     19.05 303 eP     42 38.20    2.0
        1.4s     54.45nm          4.6mb
LPL     19.07 303 eP     42 38.00    1.6
        1.0s     23.00nm          4.4mb
CDF     19.79 311 eP     42 43.80   -0.6
        1.0s     68.00nm          4.9mb
BSF     19.84 309 eP     42 44.30   -0.7
        0.8s     21.50nm          4.5mb
TNS     20.00 317 eP     42 46.80    0.2
HAU     20.19 309 eP     42 47.60   -0.9
        1.0s     80.00nm          5.0mb
      Z  20s      1.70um          4.4Msz
BSD     20.49 335 eP     42 49.00   -2.5X
                  i      42 53.70
WLF     21.01 314 iPc    42 59.34    2.4
BNS     21.08 318 ePc    43 02.50    4.8X
      Z  11s      2.60um          4.9MszX
SMF     21.32 304 eP     42 59.40   -0.8
        1.0s     60.00nm          5.0mb
LBF     21.34 305 eP     42 59.80   -0.5
        1.0s     13.00nm          4.3mb
LOR     21.50 306 eP     43 01.30   -0.7
        0.8s     18.15nm          4.6mb
      Z  20s      1.88um          4.5Msz
MEM     21.54 316 iPd    43 02.35    0.1
ENN     21.67 316 eP     43 05.00    1.5
        2.0s    167.00nm          5.1mb
SSF     21.67 305 eP     43 02.90   -0.7
        0.8s     29.55nm          4.8mb
AVF     21.69 304 eP     43 03.20   -0.6
        1.2s     65.45nm          4.9mb
COP     21.81 333 iPc    43 09.70    4.8X
        0.7s     16.44nm          4.6mb
                  i      47 09.00
                  iS     47 16.00
WTS     21.83 320 eP     43 10.00    4.8X
BGF     21.96 303 eP     43 06.30   -0.3
        0.8s     14.80nm          4.5mb
MAF     22.06 302 eP     43 08.60    1.0
        1.2s     17.85nm          4.4mb
DOU     22.11 313 P      43 09.30    1.3
        1.0s     55.50nm          5.0mb
                  S      47 11.00
CAF     22.13 299 eP     43 10.00    1.7
        1.2s     14.90nm          4.3mb
TCF     22.32 302 eP     43 11.60    1.4
        1.1s     22.00nm          4.5mb
SNF     22.47 314 iPd    43 11.63    0.1
UCC     22.56 315 Pd+    43 15.40    3.0X
RJF     22.58 300 eP     43 13.40    0.7
        1.2s     20.85nm          4.5mb
      Z  20s      1.67um          4.5Msz
DBN     22.74 318 eP     43 17.00    2.8X
      Z  10s      3.10um          5.0MszX
                    eS     47 24.00
LSF     22.77 302 eP     43 13.70   -0.9
        0.8s      7.40nm          4.2mb
NUR     23.46 354 iP     43 22.40    1.2
        0.9s     24.20nm          4.7mb
MAIO    23.81  83 eP     43 26.00    1.1
        1.0s     15.00nm          4.5mb
MFF     23.98 302 eP     43 26.30    0.0
        1.0s     42.00nm          4.9mb
LDF     24.45 307 eP     43 30.00   -0.9
        0.9s     19.65nm          4.7mb
FLN     24.73 307 eP     43 34.10    0.6
        1.0s     16.00nm          4.6mb
      Z  20s      1.55um          4.5Msz
GRR     24.87 306 eP     43 33.60   -1.3
        0.8s     16.10nm          4.7mb
LPF     24.89 305 eP     43 33.90   -1.2
        1.2s     26.80nm          4.7mb
KAF     24.94 356 iP     43 35.10   -0.3
        0.8s     20.30nm          4.8mb
HFS     25.06 341 eP     43 38.20    1.6
        0.6s      1.40nm          3.8mb
      Z  16s      2.61um          4.8MszX
                  LR     53 33.00
NB2     26.49 340 P      43 48.60   -1.3
        1.0s      5.80nm          4.2mb
MAL     27.19 279 eP     43 56.00   -0.6
IFR     28.57 273 iP     44 10.00    0.7
EKA     28.63 320 P      44 16.00    6.6X
        1.1s     12.00nm          4.5mb
AAE     29.30 162 eP     44 19.40    3.3X
AVE     30.46 274 eP     44 30.00    4.0X
TIO     31.15 269 iP     44 32.50    0.3
OUE     31.59  92 eP     44 34.50   -1.7
NDI     40.39  88 iPc    45 52.00    1.3
WMO     43.74  63 eP     46 18.00    0.0
        2.5s     30.00nm          4.7mb
      Z  24s      0.60um          4.4MszX
      N  14s      0.40um
                    sP     46 31.00
                    PP     48 01.50
KIC     43.96 234 P      46 21.60    1.6
GKN     46.58  85 P      46 39.98   -1.1
HYB     47.09 101 eP     46 49.00    4.1X
DMN     47.13  85 P      46 44.92   -0.6
KKN     47.19  85 P      46 44.78   -1.1
PKI     47.39  85 P      46 47.42   -0.2
GUN     47.61  84 P      46 47.06   -2.3
GBA     48.48 106 Pc     46 54.20   -1.5
        0.9s     12.10nm          4.9mb
KOD     50.62 110 eP     47 12.50    0.0
PTZ     51.28 178 iP     47 17.00   -0.2
LSZ     52.30 182 iP     47 26.00    1.0
                  i      47 52.00
GTA     53.70  65 P      47 34.20   -1.0
        1.0s     10.00nm          4.8mb
      Z  20s      0.40um          4.5Msz
                    sP     47 44.00
MTD     53.81 178 eP     47 37.00    1.0
                    ipP    48 16.50 173kmX
BUL     57.13 181 iPd    48 00.50    0.4
LZH     57.95  67 eP     48 05.50   -0.4
CD2     60.19  72 eP     48 20.30   -1.1
HHC     61.37  59 eP     48 29.50    0.1
CHG     62.51  87 eP     48 36.00   -1.2
CHTO    62.51  87 eP     48 36.00   -1.1
        1.5s     23.65nm          5.1mb
SLR     62.70 181 iPd    48 38.00   -0.3
SCH     63.93 320 eP     48 33.00  -13.0X
BJI     64.87  58 eP     48 56.00    3.7X
      Z  20s      0.30um          4.5Msz
MBC     65.04 352 eP     48 52.50   -0.4
        1.2s     14.00nm          5.0mb
TIA     67.40  61 eP     49 08.30   -0.3
INK     73.97 354 eP     49 46.00   -1.6
IMA     76.94   1 eP     50 05.50    0.8
        1.8s     41.20nm          5.2mb
FFC     79.43 334 eP     50 18.00   -0.4
        2.2s     84.00nm          5.4mb
TTA     80.02   3 eP     50 23.90    2.4
PWA     81.41 360 eP     50 29.10    0.4
SES     86.10 336 eP     50 52.00   -1.0
                    pP     51 01.00  28kmX
TUL     91.38 319 eP     51 27.50    9.3X
        1.0s     12.70nm          5.2mb
VVO     91.78 318 eP     51 29.40    9.3X
        S.D. = 1.0  on 155 of 205 obs.
-----------------------------------------
    JUL  27, 1991  11h 47m 25.93± 0.66s
    37.562 N ± 5.0km   29.583 E ± 7.1km
    DEPTH =  10.0km  (geophysicist)
  TURKEY                              (366)
        MD 3.8 (ISK).

KHL      0.76 356 ePg     47 42.10    1.2
                    eSg    47 54.10
ELL      0.85 162 ePg     47 43.00    0.5
YER      1.12 248 iPn     47 46.20   -0.8
IZM      2.01 295 iPn     48 00.20   -0.2
GPA      2.78  12 ePn     48 10.60   -0.7
YLV      3.00 357 ePn     48 14.00   -0.5
EYL      3.03   8 ePn     48 14.00   -0.9
EDC      3.09 335 ePn     48 16.00    0.4
PRK      3.10 304 eP      48 16.00    0.3
KGT      3.39 329 ePn     48 20.00    0.1
EZN      3.41 313 ePn     48 20.20    0.1
CTT      3.69 346 ePn     48 24.00   -0.2
NPS      3.94 236 eP      48 24.00   -3.8X
RDO      4.76 320 eP      48 40.00    0.6
        S.D. = 0.7  on  13 of  14 obs.
-----------------------------------------
% JUL  27, 1991  11h 59m 32.34± 1.10s
    37.649 N ± 8.8km   29.007 E ± 9.5km
    DEPTH =   0.1km  (geophysicist)
  TURKEY                              (366)
        MD 3.8 (ISK).

YER      0.77 229 iPn     59 47.70   -0.1
KHL      0.79  31 ePg     59 47.60   -0.4
                  eSg    59 59.60
IZM      1.57 299 ePn     00 01.80    0.3
GPA      2.82  21 ePn     00 20.00    0.4
EDC      2.84 342 ePn     00 20.00    0.2
YLV      2.93   5 ePn     00 21.50    0.4
EZN      3.02 317 ePn     00 22.00   -0.3
KGT      3.10 335 ePn     00 23.00   -0.4
HRT      3.21   9 ePn     00 25.00    0.0
        S.D. = 0.4  on   9 of   9 obs.
-----------------------------------------
& JUL  27, 1991  12h 08m 00.30s
    37.180 N          122.397 W
    DEPTH =  11.0km
  CENTRAL CALIFORNIA                  ( 39)
        <BRK>. ML 2.9 (BRK).

PCC      0.32   2 ePc     08 06.40   -0.6
                  iS     08 11.35
GCC      0.35 115 iPd     08 07.00   -0.6
                  eS     08 13.30
MHC      0.62  75 iPd     08 12.40   -0.4
                  eS     08 21.50
BRK      0.70   9 ePd     08 13.60   -0.4
                  iS     08 23.50
BKS      0.71  10 ePc     08 13.90   -0.3
                  iS     08 23.90
ARN      0.71  76 iPc     08 13.70   -0.5
ZSP      0.77   8 eP      08 15.06   -0.2
                  eS     08 26.48
SAO      0.87 118 iPc     08 15.70   -1.2
PRS      1.18 135 eP      08 21.80   -0.5
LLA      1.29 115 eP      08 23.20   -1.0
PRI      1.74 126 ePd     08 32.52    1.9
                  eS     09 01.70
PHAM     2.10 129 eP      08 33.50   -2.3
FRI      2.16  94 eP      08 35.89   -0.8
                  eS     09 01.48
        13 obs. associoted
-----------------------------------------
    JUL  27, 1991  13h 06m 23.70± 0.52s
    16.836 N ± 7.3km  101.400 W ± 5.4km
    DEPTH =  33.0km  (normal)
    4.6mb ( 12 obs.)
  NEAR COAST OF GUERRERO, MEXICO  ( 58)

ACX      1.48  88 iP      06 48.50    0.2
                  iS     07 07.00
MRX      2.86   4 iP      07 08.50    0.5
                  iS     07 37.00
UNM      3.26  40 eP      07 14.00    0.1
TAC      3.31  39 (P)     07 27.00   12.4X
                  (S)    08 07.00
PPM      3.45  50 iP      07 16.00   -0.9
                  iS     07 54.00
CGX      3.46 326 iP      07 17.00    0.2
IIT      3.66  53 iP      07 18.50   -1.1
IISM     4.39  60 eP      07 29.50   -0.3
                  (S)    08 24.00
OXX      4.48  86 iP      07 32.50    1.2
LVVM     5.52  58 (P)     07 55.50    9.8X
MEO     18.05   7 e(P)    10 34.50    0.8
ALQ     18.59 347 eP      10 41.00    0.5
        1.2s     15.63nm          4.1mb
VVO     19.11  14 eP      10 37.30   -9.2X
TUL     19.64  14 ePc     10 49.80   -2.9X
        0.8s     21.60nm          4.5mb
      Z  18s      0.23um          4.5MszX
      N  20s      0.23um
      E  18s      0.49um
                  e      10 57.50
                  LR     17 29.00
BAR     20.96 322 eP      11 06.00   -0.4
PLM     21.55 323 eP      11 15.00    2.4
TPC     21.65 325 eP      11 11.00   -2.4
RVR     22.31 323 eP      11 21.00    1.1
MWC     22.87 322 eP      11 37.00   11.4X
PAS     22.88 322 eP      11 36.00   10.4X
GSC     22.96 326 eP      11 27.00    0.6
GOL     23.04 352 P       11 28.30    0.9
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        0.8s      4.84nm          4.1mb
SBB     23.07 324 eP     11 28.00   0.6
MSU     23.57 338 P      11 33.50   1.0
CLC     23.77 326 eP     11 35.00   0.8
ISA     24.14 324 eP     11 39.00   1.2
BCH     24.74 321 P      11 43.30  -0.4
JSC     25.06  42 P      11 47.40   0.9
TNP     25.32 330 P      11 49.20  -0.1
        1.0s      9.58nm          4.3mb
BONR    25.76 328 P      11 53.00  -0.5
BW06    26.78 347 P      12 01.90  -0.9
        0.9s     21.54nm          4.8mb
LRM     30.34 345 eP     12 34.50  -0.3
NEW     33.89 341 P      13 04.00  -1.5
        0.8s      9.90nm          4.8mb
SES     34.37 349 eP     13 09.00  -0.6
                  pP     13 18.00  31kmX
PNT     35.61 339 eP     13 20.00  -0.3
        0.8s     11.00nm          4.8mb
FFC     37.82 359 eP     13 38.00  -0.7
        0.9s     18.00nm          4.9mb
SCH     46.30  27 eP     14 48.00   0.1
ZOBO    46.46 133 P      14 51.00   0.7
YKA     46.54 352 eP     14 49.20  -0.5
        0.9s      6.80nm          4.6mb
LPB     46.66 134 P      14 51.00  -0.7
CNCB    46.93 134 P      14 54.80   0.8
SIV     51.44 127 P      15 26.60  -1.6
INK     55.34 346 eP     15 55.00  -1.3
PMR     55.89 335 P      15 59.00  -1.3
        0.8s     14.66nm          5.1mb
FBA     57.17 338 P      16 08.50  -1.0
MBC     60.16 355 ePc    16 29.60  -0.5
        0.9s     24.00nm          5.3mb
MAL     85.54  53 iPc    19 02.50   2.5
NB2     85.86  27 P      19 01.20   0.0
        0.9s      1.60nm          4.2mb
      S.D. = 1.0  on  42 of  48 obs.
-----------------------------------------
   JUL  27, 1991  13h 16m 48.93± 0.41s
   41.063 N ± 3.6km   22.501 E ± 3.8km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                        (383)
      ML 2.3 (SKO). MD 2.3 (THE).

GRG     0.13 215 ePd     16 51.90  -0.2
                 eS      16 53.74
VAY     0.26  11 iPg     16 53.80  -0.7
                 iSg     16 57.80
KNT     0.32  72 ePd     16 56.06   0.6
                 eS      17 00.70
THE     0.56 141 ePc     16 59.86  -0.3
                 eS      17 07.54
SOH     0.69 110 ePc     17 02.58   0.0
SRS     0.83  86 ePc     17 05.01   0.1
FNA     0.90 252 ePc     17 06.02  -0.1
                 eS      17 19.42
KKB     0.91  28 iPg     17 06.00  -0.4
LIT     0.96 180 ePd     17 07.50   0.3
MMB     1.06  60 iPg     17 09.00   0.0
SKO     1.21 319 ePg     17 12.00   0.6
                 iSg     17 26.00
VTS     1.62  19 eP      17 18.00   0.3
PLD     1.95  57 ePg     17 27.00   4.6X
      S.D. = 0.4  on  12 of  13 obs.
-----------------------------------------
?  JUL  27, 1991  13h 47m 24.08± 1.42s
   39.102 N ± 8.0km   27.673 E ±17.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      MD 2.8 (ISK).

IZM     0.77 205 ePg     47 39.20   0.0
                 eSg     47 51.20
EDC     1.25   7 ePn     47 47.50   0.2
EZN     1.27 305 ePn     47 47.70   0.1
KGT     1.38 348 iPn     47 49.00  -0.3
      S.D. = 0.3  on   4 of   4 obs.
-----------------------------------------
   JUL  27, 1991  14h 00m 16.64± 0.41s
   37.279 N ± 4.5km   29.746 E ± 5.6km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      MD 3.8 (ISK).

ELL     0.55 166 ePg     00 28.30   0.6
KHL     1.06 350 iPg     00 36.60   0.0
                 iSg     00 51.60
YER     1.18 263 iPn     00 38.70   0.1
IZM     2.26 300 iPn     00 54.20  -0.5
PRK     3.37 307 eP      01 09.80  -0.5
EDC     3.40 335 ePn     01 11.00   0.3
EZN     3.70 315 ePn     01 15.20   0.2
KGT     3.70 330 ePn     01 15.00   0.0
NPS     3.90 240 iPc     01 18.00   0.1
CTT     4.00 346 ePn     01 20.00   0.8
RDO     5.06 321 eP      01 34.00  -0.3
VLI     5.48 266 iPc     01 42.90   2.6X
ADI     6.14 131 eP      01 50.00   0.4
ATZ     6.35 133 eP      01 51.00  -1.6
                 eS      03 05.00
DSI     7.35 139 eP      02 07.00   0.4
      S.D. = 0.6  on  14 of  15 obs.
-----------------------------------------
   JUL  27, 1991  14h 43m 56.26± 0.44s
   37.282 N ± 3.2km   29.730 E ± 3.8km
   DEPTH =  10.6 ±  3.1 km
   4.2mb ( 13 obs.)
 TURKEY                            (366)
      MD 4.1 (ISK).

ELL     0.55 165 iPg     44 07.80   0.3
KHL     1.05 351 iPg     44 15.50  -0.6
                 iSg     44 29.20
YER     1.16 263 iPn     44 19.20   1.2
IZM     2.25 300 iPn     44 34.10   0.1
GPA     3.04   8 iPn     44 45.60   0.4
YLV     3.29 355 ePn     44 49.20   0.3
EYL     3.30   6 ePn     44 49.00   0.0
PRK     3.35 307 eP      44 49.50  -0.2
EDC     3.39 335 ePn     44 50.00  -0.2
HRT     3.54 359 iPn     44 52.00  -0.3
EZN     3.68 315 ePn     44 54.50   0.1
KGT     3.69 330 iPn     44 54.50   0.1
ISK     3.81 352 ePn     44 56.70   0.5
NPS     3.89 240 eP      44 57.50   0.2
CTT     3.99 346 ePn     44 58.50  -0.2
ALN     4.61 323 eP      45 07.00  -0.5
                 iS      45 38.04
RDO     5.05 321 eP      45 13.20  -0.5
PAIG    5.42 301 ePd     45 20.16   1.1
VLI     5.47 266 eP      45 22.90   3.3X
KDZ     5.49 324 iPd     45 20.00   0.0
RZN     5.86 320 i(P)d   45 25.00  -0.4
BHL     5.89 123 P       45 26.00   0.4
AGG     6.09 289 ePd     45 33.08   4.7X
SOH     6.09 307 ePc     45 28.04  -0.4
SRS     6.11 311 ePc     45 27.80  -0.9
ADI     6.15 131 eP      45 30.00   0.7
ATZ     6.36 133 eP      45 32.50   0.2
                 eS      46 43.00
ZNT     6.66 138 eP      45 37.00   0.5
                 eS      46 48.00
PVL     6.81 332 iPc     45 39.00   0.4
VAY     6.86 308 iPn     45 40.80   1.5
                 i       46 08.40
KKB     6.88 314 e(P)d   45 39.00  -0.5
BURJ    7.09 133 Pd      45 43.30   0.7
JARJ    7.17 133 Pd      45 44.46   0.7
SALJ    7.19 135 Pc      45 44.25   0.3
VTS     7.29 319 eP      45 45.00  -0.5
KFNJ    7.30 136 Pc      45 45.74   0.4
MKRJ    7.52 138 Pc      45 48.60   0.1
HLW     7.52 169 eP      45 47.50  -1.1
                 eS      47 07.50
MKT     7.75 143 eP      45 51.00  -0.8
                 eS      47 15.00
SKO     7.93 309 iPn     45 54.00  -0.2
      Z  11s      1.25um          5.4Msz
      N  10s      1.10um
      E  11s      0.93um
                 LR      49 18.00
MBH     8.64 149 eP      46 02.00  -2.2
MLR     8.68 342 eP      46 05.00   0.2
                 e       06 42.00
CMP     8.72 338 ePd     46 05.00  -0.3
PRU    16.76 324 P       47 54.50   2.2
      N  12s      0.30um
      E  12s      0.60um
BRG    17.65 325 eP      48 06.60   3.1X
        1.5s     10.00nm          3.7mb
CLL    18.38 325 eP      48 15.00   2.5X
MOX    18.60 322 eP      48 16.80   1.5
LPG    19.05 303 eP      48 21.40   0.3
        1.3s     14.45nm          4.1mb
LPL    19.07 303 eP      48 22.30   1.0
        1.3s     14.45nm          4.1mb
CDF    19.79 311 eP      48 29.40  -0.1
        1.2s     20.85nm          4.3mb
BSF    19.84 309 eP      48 29.00  -1.1
        0.8s      4.05nm          3.8mb
HAU    20.19 309 eP      48 33.20  -0.4
        1.0s     12.00nm          4.2mb
      Z  20s      0.20um          3.5Msz
WLF    21.02 314 P       48 49.00   7.0X
SMF    21.32 304 eP      48 44.40  -0.9
        0.8s      4.70nm          3.9mb
LOR    21.50 306 eP      48 48.60   1.5
        1.2s     11.90nm          4.2mb
      Z  20s      0.20um          3.5Msz
MEM    21.54 316 P       48 50.20   2.8X
SSF    21.66 305 eP      48 49.80   1.1
        0.8s      5.35nm          4.0mb
DOU    22.11 313 P       48 56.00   2.9X
MFF    23.97 302 eP      49 12.00   0.6
        1.0s     10.00nm          4.4mb
LDF    24.45 307 eP      49 14.50  -1.5
        1.0s      8.00nm          4.3mb
FLN    24.73 307 eP      49 17.00  -1.7
        1.2s     11.90nm          4.4mb
      Z  20s      0.15um          3.5Msz
GRR    24.86 306 eP      49 18.60  -1.4
        1.0s     14.00nm          4.6mb
      S.D. = 0.9  on  55 of  62 obs.
-----------------------------------------
   JUL  27, 1991  15h 04m 36.48± 0.40s
   37.316 N ± 4.1km   29.760 E ± 4.2km
   DEPTH =  18.4 ±  4.2 km
   4.0mb (  8 obs.)
 TURKEY                            (366)
      MD 4.0 (ISK).

KHL     1.02 350 iPg     04 55.60   0.2
                 eSg     05 08.00
YER     1.19 262 iPn     04 58.50   0.3
ALT     1.76   9 ePn     05 07.50   1.1
IZM     2.25 299 iPn     05 13.20  -0.3
GPA     3.00   8 ePn     05 25.70   1.7
YLV     3.26 355 ePn     04 42.00 -45.8X
PRK     3.35 306 eP      05 28.90  -0.1
EDC     3.37 335 ePn     05 29.00  -0.2
HRT     3.50 359 iPn     05 31.00  -0.2
KGT     3.67 329 ePn     05 34.00   0.4
EZN     3.68 314 ePn     05 33.70   0.0
NPS     3.93 240 eP      05 37.00  -0.2
ALN     4.60 322 ePd     05 46.16  -0.5
                 eS      06 39.80
RDO     5.04 321 eP      05 52.50  -0.4
PAIG    5.43 301 ePd     05 59.28   0.8
KDZ     5.48 324 iPc     05 59.00  -0.2
VLI     5.49 266 eP      06 02.30   2.9
RZN     5.85 320 iPc     06 04.00  -0.6
BHL     5.88 124 P       06 04.00  -1.0
SOH     6.09 307 ePc     06 07.39  -0.4
AGG     6.10 288 ePd     06 08.60   0.7
SRS     6.11 310 ePd     06 07.00  -1.1
ADI     6.15 132 eP      06 09.00   0.3
LIT     6.33 298 ePc     06 11.60   0.4
ATZ     6.36 133 eP      06 11.60  -0.1
                 eS      07 23.00
DHLJ    6.50 175 Pd      06 23.61  10.0X
ZNT     6.67 138 eP      06 16.00   0.0
                 eS      07 29.00
SHMJ    6.72 131 Pc      06 18.04   1.3
VAY     6.86 308 ePn     06 18.60   0.0
                 i       06 47.00
KKB     6.87 313 eP      06 17.00  -1.8
BURJ    7.09 134 Pc      06 22.81   0.8
JARJ    7.18 133 Pd      06 24.30   1.1
SALJ    7.20 136 Pc      06 23.39  -0.1
VTS     7.28 318 eP      06 24.00  -0.7
KFNJ    7.31 136 Pc      06 24.94   0.1
MASJ    7.43 137 P       06 26.47  -0.2
MKRJ    7.53 138 Pd      06 27.34  -0.7
HLW     7.55 169 eP      06 27.00  -1.3
MKT     7.77 143 eP      06 31.00  -0.4
                 eS      07 57.00
MDSJ    7.80 135 P       06 31.18  -0.7
SKO     7.92 308 iPn     06 33.00  -0.5
      Z  11s      0.69um
      N  11s      0.72um
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27d 15h

```
      E  11s      0.56um
                   LR     09 58.00
PRU     16.74 324 P       08 19.00 -12.4X
                   e      08 35.00
                   e      09 09.50
LPG     19.05 303 eP      09 02.40   2.0
        1.3s     10.85nm          3.9mb
LPL     19.07 303 eP      09 02.40   1.9
        1.3s     10.85nm          3.9mb
CDF     19.79 311 eP      09 08.00  -0.6
        1.0s     12.00nm          4.2mb
HAU     20.18 309 eP      09 11.60  -1.1
        1.0s     14.00nm          4.3mb
      Z  20s      0.13um          3.3Msz
LOR     21.50 306 eP      09 25.20  -1.0
        1.0s      5.00nm          3.9mb
      Z  20s      0.10um          3.2Msz
SSF     21.66 305 eP      09 27.00  -0.8
        0.8s      3.35nm          3.8mb
MFF     23.98 302 eP      09 50.60   0.1
        0.8s      5.35nm          4.2mb
GRR     24.86 306 eP      09 57.00  -2.1X
        1.0s     12.00nm          4.5mb
      S.D. = 1.0  on  46 of  50 obs.
-----------------------------------------
*  JUL  27, 1991  15h 26m 51.93± 0.87s
   5.120 S ±12.7km  143.815 E ± 9.5km
   DEPTH =  94.7 ± 14.5 km
   3.9mb (  2 obs.)
 PAPUA NEW GUINEA                  (202)

YYYY     2.41 118 eP      27 31.20   0.7
LAT      3.52 116 eP      27 45.30  -0.2
                  eS      28 49.50
JAY      4.04 310 ePc     27 52.50  -0.2
PMG      5.40 142 eP      28 11.00  -0.5
WR2     17.37 211 iPd     30 49.40  -0.5
        0.6s      4.00nm          3.8mb
                  i       30 55.20
KNA     18.17 233 eP      31 00.30   0.8
ASPA    20.77 206 eP      31 31.30   4.0X
        0.9s      7.40nm          4.0mb
SIV    147.65 131 PKP     46 25.00   0.0
      S.D. = 0.7  on   7 of   8 obs.
-----------------------------------------
*  JUL  27, 1991  15h 52m 18.83± 1.12s
   23.277 S ±11.4km   66.710 W ±14.2km
   DEPTH = 277.6 ± 19.2 km
 JUJUY PROVINCE, ARGENTINA         (128)

SLA      1.82 143 eP      53 03.00   0.3
                  S       53 31.50
ANT      3.43 262 iPc     53 17.50  -0.5
                  i       53 55.00
                  i       53 57.00
CCH      5.89   5 P       53 48.00   0.9
                  (S)     54 44.50
CNCB     6.54 349 iPc     53 56.10   0.7
                  iS      55 09.00
LPB      6.84 349 eP      53 54.00  -4.9X
ZOBO     7.10 349 P       54 02.00  -0.3
                  S       55 21.50
SIV      8.98  37 iPd     54 24.00  -1.4
PPD     14.27  88 eP      55 36.60   5.9X
                  e       55 39.00
VAO     18.16  93 eP      56 13.90   0.3
      S.D. = 1.1  on   7 of   9 obs.
-----------------------------------------
?  JUL  27, 1991  17h 18m 34.57± 3.31s
   2.026 N ±80.3km   90.353 W ±115.km
   DEPTH =  10.0km  (geophysicist)
   4.6mb (  4 obs.)
 GALAPAGOS ISLANDS REGION          (696)

ZOBO    28.51 130 P       24 33.90   0.8
        1.1s     11.60nm          4.6mb
LPB     28.69 131 P       24 34.20  -0.3
CNCB    28.95 131 P       24 38.00   1.0
MEO     33.48 348 iPc     25 17.50   1.3
SIV     34.03 123 P       25 20.80  -0.4
ALQ     36.02 337 eP      25 38.00  -0.2
        1.1s      5.38nm          4.3mb
RSSD    43.64 346 e(P)    26 40.00  -1.2
        1.5s     20.16nm          4.7mb
BW06    44.06 340 e(P)    26 33.20 -11.5X
        1.3s      6.83nm
PPD     45.00 124 (P)     26 51.00  -1.3
SES     51.29 343 eP      27 40.00  -0.9
PNT     53.34 336 eP      28 00.00   3.8X
INK     72.33 345 eP      30 07.00   4.9X
MBC     75.92 353 eP      30 24.00   1.3
        1.1s     23.00nm          5.2mb
      S.D. = 1.1  on  10 of  13 obs.
-----------------------------------------
*  JUL  27, 1991  17h 36m 50.61± 0.72s
   1.836 N ±18.9km   90.524 W ±22.7km
   DEPTH =  10.0km  (geophysicist)
   4.7mb (  6 obs.)
 GALAPAGOS ISLANDS REGION          (696)

NNA     19.32 136 e(P)    41 05.00 -14.1X
        1.0s     10.00nm
ZOBO    28.52 130 iPc     42 49.80   0.6
        1.2s     13.51nm          4.6mb
LPB     28.69 130 P       42 50.00  -0.7
CNCB    28.95 131 P       42 54.00   0.9
MEO     33.63 348 iPd     43 33.50   0.0
SIV     34.07 122 P       43 37.00  -0.6
ALQ     36.13 338 eP      43 54.70  -0.4
        1.1s      9.49nm          4.6mb
GLA     38.53 326 eP      44 17.00   1.9
BAR     39.31 324 eP      44 15.00  -6.7X
PLM     39.90 325 eP      44 26.00  -0.8
GOL     40.04 342 eP      44 28.10   0.2
        1.2s     31.15nm          4.9mb
PV09    40.27 337 e(P)    44 29.80  -0.1
SBB     41.42 325 eP      44 45.00   6.0X
TBR     41.81  19 eP      44 43.00   0.9
CLC     42.11 327 eP      44 45.00   0.3
ISA     42.49 326 eP      44 58.00  10.2X
TNP     43.60 329 e(P)    44 56.30  -0.7
BW06    44.18 340 eP      45 03.00   1.3
        1.2s     15.41nm          4.7mb
CMB     45.25 326 eP      45 11.10   0.9
ORV     46.94 327 e(P)    45 23.40   0.0
LRM     47.85 339 eP      45 30.70  -0.1
SES     51.42 343 eP      45 57.00  -0.9
NEW     51.62 338 eP      46 03.00   3.6X
        1.0s      4.00nm          4.3mb
PNT     53.44 337 eP      46 12.00  -1.0
INK     72.46 345 eP      48 32.00  13.1X
MBC     76.09 353 eP      48 38.00  -1.7
        1.2s     37.00nm          5.3mb
WRA    132.63 244 PKP     56 11.00   2.8X
        1.4s      1.40nm
      S.D. = 0.9  on  20 of  27 obs.
-----------------------------------------
?  JUL  27, 1991  17h 39m 54.75±17.23s
   39.765 N ±82.8km   30.533 E ±80.6km
   DEPTH =   5.0km  (geophysicist)
 TURKEY                            (366)
      MD 2.9 (ISK).

GPA      0.55 342 ePg      40 05.50  -0.3
EYL      0.85 340 ePg      40 11.50  -0.2
IZI      0.99 305 ePn      40 13.50  -0.6
YLV      1.20 312 ePn      40 18.00   0.4
HRT      1.25 328 ePn      40 19.00   0.6
      S.D. = 0.7  on   5 of   5 obs.
-----------------------------------------
*  JUL  27, 1991  18h 17m 40.58± 0.95s
   23.645 N ± 7.1km  121.415 E ±11.1km
   DEPTH =  10.0km  (geophysicist)
 TAIWAN                            (244)

TWF1     0.31 200 iPc      17 47.00  -0.1
                  eS      17 51.40
TWD      0.46  21 iPc      17 50.10   0.1
TWQ      0.82 320 ePc      17 56.40  -0.1
TWK      0.93 246 iPc      17 58.50   0.1
                  eS      18 12.30
TWC      1.04  22 ePc      18 00.10  -0.1
                  eS      18 16.00
ANP      1.54   4 eP      18 10.50   2.4X
SSE      7.42 35B Pn       19 29.00  -2.5X
        1.0s     12.00nm          5.0mb X
                  Pg      20 05.00
                  Sn      20 53.50
                  Sg      21 39.50
      S.D. = 0.1  on   5 of   7 obs.
-----------------------------------------
?  JUL  27, 1991  18h 19m 21.64± 4.63s
   44.546 N ± 7.2km    5.352 E ±49.6km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                            (538)
      ML 2.3 (LDG).

LRG      1.31 146 Pg       19 46.20   0.3
                  Sg      20 06.00
FRF      1.36 136 Pg       19 46.70   0.1
                  Sg      20 07.50
LPG      1.38  46 Pg       19 47.10   0.0
LPL      1.38  45 Pg       19 47.20   0.1
LMR      1.47 145 Pg       19 47.80  -0.4
                  Sg      20 10.10
SBF      1.65 114 Pn       19 50.60  -0.2
                  Pg      19 54.10
                  Sg      20 18.00
      S.D. = 0.3  on   6 of   6 obs.
-----------------------------------------
*  JUL  27, 1991  18h 58m 36.24± 1.38s
   45.228 N ±10.3km   20.833 E ±16.8km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                        (383)

SSR      0.74 119 iPc      58 50.00  -0.8
DEV      1.60  65 ePc      59 05.00   0.4
UZD      2.08 312 e(Pn)    59 24.00  12.4X
PSZ      2.77 347 eP       59 21.30  -0.2
BMR      3.06  36 ePd      00 14.00  48.5X
VTS      3.14 146 eP       59 27.00   0.1
MLR      3.61  84 eP       59 44.50  11.0X
PVL      3.81 120 eP       59 47.00  10.8X
RZN      4.53 140 eP       59 47.00   0.4
      S.D. = 0.7  on   5 of   9 obs.
-----------------------------------------
%  JUL  27, 1991  21h 03m 31.23± 0.80s
   43.756 N ± 8.4km   12.307 E ± 5.4km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                     (381)

RSM      0.20  31 P        03 35.90   0.3
                  eSg     03 38.90
CRE      0.29 244 P        03 37.70   0.4
                  eSg     03 41.30
SFI      0.37 297 P        03 38.60  -0.2
                  eSg     03 43.50
PGD      0.44 286 P        03 40.00  -0.3
                  eSg     03 45.50
ARV      0.53 119 P        03 41.70  -0.2
                  eSg     03 50.50
      S.D. = 0.4  on   5 of   5 obs.
-----------------------------------------
%  JUL  27, 1991  21h 16m 49.00± 0.83s
   44.114 N ± 6.7km    7.978 E ± 6.0km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                    (545)
      ML 1.6 (GEN).

FIN      0.19  60 P        16 53.05  -0.2
                  S       16 55.20
ROB      0.20 337 P        16 53.77   0.4
                  S       16 56.54
IMI      0.21 197 P        16 53.87   0.2
                  S       16 57.36
ENR      0.42 286 P        16 57.25  -0.3
                  S       17 04.12
STV      0.49 286 P        16 58.79  -0.1
                  S       17 05.87
PZZ      0.74 302 P        17 03.71   0.1
      S.D. = 0.3  on   6 of   6 obs.
-----------------------------------------
%  JUL  27, 1991  23h 27m 08.64± 0.75s
   42.367 N ± 6.4km   19.457 E ± 5.3km
   DEPTH =  10.0km  (geophysicist)
 YUGOSLAVIA                        (383)
      ML 1.7 (TTG).

TTG      0.16 293 iPgc     27 13.64   1.3
                  iSg     27 16.80
ULC      0.43 201 iPgd     27 17.40  -0.1
                  iSg     27 24.19
PVY      0.44  59 iPgd     27 17.85   0.1
                  iSg     27 25.19
BDV      0.47 260 iPgd     27 18.19  -0.1
                  iSg     27 25.90
NKY      0.56 323 ePg      27 19.47  -0.6
                  iSg     27 28.99
IVA      0.60  33 iPgd     27 20.87   0.1
                  iSg     27 29.82
HCY      0.71 277 iPgc     27 22.34  -0.4
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                    iSg   27 33.90
BRY      0.86 309 iPgd   27 24.89  -0.4
                    iSg   27 38.54
      S.D. = 0.7  on   8 of   8 obs.
-----------------------------------
   JUL  27, 1991  23h 50m 15.67± 0.98s
   40.764 N ± 7.9km   29.856 E ± 6.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      MD 2.9 (ISK).

HRT      0.15 292 iPg   50 19.00  -0.3
EYL      0.30 131 iPg   50 22.00   0.0
                  eSg   50 26.00
GBZT     0.31 275 ePg   50 22.20   0.0
                  iSg   50 27.10
YLV      0.42 242 iPg   50 24.00  -0.2
                  eSg   50 30.70
IZI      0.52 214 iPg   50 26.30   0.1
                  eSg   50 33.30
ISK      0.67 297 ePg   50 29.00  -0.1
                  eSg   50 38.00
CTT      1.15 290 iPn   50 37.50   0.4
      S.D. = 0.3  on   7 of   7 obs.
-----------------------------------
   JUL  28, 1991  00h 07m 42.13± 0.33s
   21.409 S ± 4.1km  179.117 W ± 5.8km
   DEPTH = 613.4 ±  4.4 km
   5.0mb ( 17 obs.)
 FIJI ISLANDS REGION               (181)

SVA      3.99 325 iPc   09 08.70  -0.2
VUN      4.08 326 iPc   09 08.70  -0.8
OVA      4.20 331 iP    09 15.50   5.1X
KRO      4.31 341 iPc   09 10.60  -0.6
TVI      4.54 349 eP    09 12.70  -0.2
SGE      4.71 323 iPc   09 15.50   1.3
MBU      4.86 335 iPc   09 15.70   0.4
NDF      4.87 318 eP    09 11.40  -3.8X
NDE      5.02 343 ePc   09 16.60   0.0
UDU      5.29 351 eP    09 18.70   0.1
PVC     12.40 285 iPc   10 25.80   1.1
BKM     12.48 285 iPc   10 26.90   1.4
DZM     13.44 265 iPd   10 36.00   1.1
HBZ     16.29 187 P     11 02.40   0.2
PUZ     16.76 187 P     11 07.80   1.1
NOZ     17.33 188 P     11 12.40   0.4
WDW     20.42 193 P     11 39.80  -0.7
MRW     20.44 193 P     11 40.20  -0.5
TCW     20.52 194 P     11 41.40   0.0
THZ     21.38 197 P     11 49.00  -0.3
KHZ     21.84 195 P     11 52.40  -0.9
LTZ     22.50 197 P     11 58.20  -1.2
MQZ     23.27 195 P     12 04.90  -1.2
HNR     23.40 297 eP    12 06.00  -1.5
MMCZ    25.45 200 P     12 24.40  -1.1
MHZ     25.45 199 P     12 25.30  -0.2
TLC     25.64 200 P     12 26.90  -0.3
COO     27.55 245 iPd   12 47.20   3.3X
        0.5s    14.00nm          4.8mb
                  eS    18 28.50
RMQ     29.75 254 iPd   13 08.00   5.3X
        0.3s    22.00nm          5.3mb
CTAO    32.37 266 iPd   13 25.00   0.2
CMS     32.83 245 iPd   13 29.30   0.7
        0.4s    14.00nm          4.9mb
QLP     33.80 254 iPd   13 37.50   0.8
        0.4s   129.00nm          5.9mb
LAT     35.88 289 eP    13 54.10   0.2
STK     36.46 245 iPd   13 59.90   1.4
        0.5s     7.90nm          4.6mb
MCQ     36.97 201 iPd   14 05.40   3.1X
        1.0s    39.40nm          5.0mb
MDG     37.61 290 eP    14 07.80  -0.3
OIS     38.47 264 e(P)  14 11.00  -4.1X
                  i     14 14.90
ASPA    43.30 258 iPd   14 53.40   0.0
        0.6s    78.90nm          5.4mb
                  iScP  19 24.20
                  iS    20 35.70
                  iScS  23 47.30
WR2     43.43 263 iPc   14 53.70  -0.7
        0.2s    99.80nm          6.0mb
                  iPcP  16 49.30
                  eS    20 38.20
WRA     43.45 263 P     14 53.00  -1.5
        0.3s    95.50nm          5.8mb
```

```
GUA     49.53 311 eP    15 39.30  -1.2
        0.8s   119.40nm          5.4mb
KNA     49.54 267 iPd   15 40.00  -0.6
        0.4s    49.00nm          5.3mb
WARB    49.57 253 eP    15 40.50  -0.2
                  e     22 03.00
PJG     49.60 311 eP    15 39.80  -1.2
SBA     56.90 184 iPc   16 35.20   3.4X
SPA     68.72 180 iPc   17 48.70   1.2
        1.0s    65.00nm          5.1mb
MAT     70.33 325 iPd   17 55.70  -1.4
        0.8s    14.93nm          4.6mb
MAW     80.36 200 eP    18 53.60   2.1
RVR     80.53  48 eP    18 41.00 -12.0X
PLM     80.53  49 eP    18 54.00   0.7
SBB     80.60  47 eP    18 54.00   0.5
ISA     80.71  46 eP    18 54.00   0.0
CLC     81.39  46 eP    18 57.00  -0.4
TNP     82.91  45 iP    19 05.20   0.0
        1.0s    23.75nm          4.7mb
NVL     87.75 184 Pd    19 28.00   0.3
PNT     87.99  34 eP    19 29.00   0.0
        0.8s    10.00nm          4.7mb
ALQ     88.78  52 eP    19 33.00  -0.2
        1.0s     4.25nm          4.3mb
MCMT    89.32  41 eP    19 36.30   0.7
CHTO    89.57 290 eP    19 38.00   1.1
BW06    90.34  44 iP    19 40.30   0.0
        1.1s     3.57nm          4.2mb
GOL     91.70  48 eP    19 45.50  -1.1
SOB1   128.93 122 (PKP) 25 23.00 -20.6X
                  e     25 42.50
                  e     28 07.40
NB2    139.75 352 PKP   25 53.90  -8.6X
        0.8s     0.70nm
HFS    140.26 350 ePKP  25 55.30  -8.0X
        0.2s     0.70nm
EKA    145.99   4 PKPd  26 14.60   1.4
        0.7s     4.60nm
DMU    147.02   8 ePKP  26 17.70   2.8X
DCN    147.51   9 ePKP  26 18.70   3.0X
KSP    148.23 341 ePKP  26 21.00   4.0X
                  e     26 26.30
                  e     28 39.80
CLL    148.69 345 iPKPc 26 21.80   4.2X
        1.0s    10.00nm
                  e     28 42.00
BRG    148.86 344 ePKP  26 22.40   4.5X
        1.0s    10.00nm
WTS    149.12 353 ePKP  26 23.50   5.3X
PRU    149.50 343 PKP   26 27.00   8.1X
MOX    149.62 346 ePKPc 26 24.30   5.2X
        0.9s     8.00nm
ENN    150.43 354 ePKP  26 26.50   6.2X
        0.8s     6.00nm
GRF    150.61 346 ePKP  26 27.10   6.5X
WLF    151.50 353 iPKPd 26 28.76   6.9X
LIC    163.86 158 PKP   26 37.42   0.0
KIC    164.08 159 PKP   26 37.70   0.0
        0.7s     5.50nm
TIC    164.25 158 PKP   26 37.74  -0.1
        0.6s     3.50nm
      S.D. = 0.9  on  57 of  79 obs.
-----------------------------------
%  JUL  28, 1991  00h 08m 38.22± 0.83s
   37.234 N ± 6.6km   29.667 E ± 9.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      MD 3.4 (ISK).

ELL      0.52 158 iPg   08 48.90   0.1
KHL      1.09 354 ePn   08 59.10   0.3
YER      1.11 265 iPn   08 58.90  -0.2
ALT      1.85  11 ePn   09 10.00  -0.4
IZM      2.23 302 ePn   09 16.00   0.2
      S.D. = 0.4  on   5 of   5 obs.
-----------------------------------
   JUL  28, 1991  01h 54m 24.17± 0.34s
   45.227 N ± 3.8km    3.220 E ± 3.3km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                            (538)
      ML 3.3 (LDG).

CAF      0.87 250 Pg    54 41.60   0.6
                  Sg    54 52.40
MAF      1.10 336 Pg    54 46.30   1.5
                  Sg    55 00.10
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RJF      1.21 274 Pn    54 47.10   0.5
                  Pg    54 48.30
                  Sg    55 03.90
TCF      1.28 327 Pn    54 48.20   0.3
                  Pg    54 48.90
                  Sg    55 06.20
BGF      1.36 349 Pn    54 49.10   0.0
                  Pg    54 51.10
                  Sg    55 08.20
SMF      1.48  17 Pn    54 50.50  -0.4
                  Pg    54 52.40
                  Sg    55 11.40
LPO      1.54 250 Pn    54 52.00   0.3
                  Pg    54 54.10
                  Sg    55 14.40
LSF      1.57 311 Pn    54 52.40   0.3
                  Pg    54 54.50
                  Sg    55 14.40
AVF      1.57   3 Pn    54 52.10   0.0
                  Pg    54 54.20
                  Sg    55 14.40
LFF      1.78 262 Pn    54 55.60   0.4
                  Pg    54 58.50
                  Sg    55 20.70
LBF      1.84  16 Pn    54 56.80   0.8
                  Pg    54 59.40
                  Sg    55 21.90
SSF      1.85   6 Pn    54 56.80   0.7
                  Pg    54 59.60
                  Sg    55 22.40
HYF      2.08 349 Pg    55 04.40   4.8X
                  Sg    55 30.60
LOR      2.09  12 Pn    55 00.30   0.6
                  Pg    55 04.30
                  Sg    55 29.70
CDR      2.39 129 eP    55 05.70   1.7
                  e     55 10.80
                  e     55 38.40
                  e     55 40.40
LPL      2.49  82 Pn    55 06.10   0.5
                  Pg    55 12.90
                  Sg    55 42.50
LPG      2.50  83 Pn    55 06.30   0.4
                  Pg    55 12.80
                  Sg    55 42.80
MFF      2.72 302 Pn    55 08.70   0.0
                  Pg    55 16.30
                  Sn    55 39.40
                  Sg    55 51.10
LRG      2.87 127 Pn    55 10.60  -0.1
                  Pg    55 19.10
                  Sg    55 55.30
FRF      2.97 123 Pn    55 11.70  -0.5
                  Pg    55 20.30
                  Sg    55 58.30
EPF      3.02 224 Pn    55 11.40  -1.5
                  Pg    55 21.20
                  Sn    55 46.80
                  Sg    56 01.50
LMR      3.03 128 Pn    55 13.60   0.6
                  Pg    55 21.50
SBF      3.31 113 Pn    55 15.80  -1.3
                  Sg    56 08.80
HAU      3.52  37 Pn    55 17.00  -3.0X
                  Pg    55 30.50
BSF      3.59  42 Pn    55 19.10  -2.0
                  Pg    55 31.70
LPF      4.06 315 Pn    55 26.60  -1.0
LDF      4.07 327 Pn    55 27.10  -0.7
GRR      4.22 320 Pn    55 29.40  -0.6
CDF      4.23  40 Pg    55 44.20  14.0X
FLN      4.35 326 Pn    55 30.70  -1.1
      S.D. = 0.9  on  27 of  30 obs.
-----------------------------------
*  JUL  28, 1991  01h 57m 18.02± 1.54s
   18.181 S ±12.2km   72.185 W ±14.5km
   DEPTH =  41.9 ± 20.4 km
   4.9mb (  1 obs.)
 OFF COAST OF NORTHERN CHILE       (121)

ARE      1.83  21 iPd   57 45.50  -2.4
                  iS    58 06.00
LPB      4.23  68 Pc    58 22.90   0.7
        1.0s   460.00nm
CNCB     4.24  72 Pc    58 24.40   2.0X
ZOBO     4.32  65 iPc   58 24.90   1.3
ANT      5.74 164 e(P)  58 42.50  -0.5
```

28d 01h

NNA	7.62	323	eP	59 10.70	1.2
	0.7s		12.33nm		4.9mb
			eS	00 49.00	
PT10	7.63	322	e(P)	59 18.00	8.5X
			e(S)	00 43.00	
PPD	19.97	105	eP	01 49.70	0.0
KIC	70.83	76	P	08 32.60	-0.4
MAT	147.59	311	ePKP	17 04.00	7.0X
	0.7s		6.85nm		

S.D. = 1.8 on 7 of 10 obs.

JUL 28, 1991 03h 37m 49.64± 0.43s
34.617 N ± 5.1km 23.997 E ± 4.2km
DEPTH = 33.0km (normal)
3.9mb (25 obs.) 2.9Msz (1 obs.)
CRETE (370)
ML 4.1 (ATH).

NPS	1.48	64	iPnc	38 19.40	5.2X
VLI	2.27	338	ePn	38 23.00	-2.5
ATH	3.36	356	ePn	38 42.00	1.0
YER	4.29	53	iPn	38 57.80	3.5X
VLS	4.49	323	ePn	38 56.50	-0.7
AGG	4.60	344	ePc	38 59.60	1.0
IZM	4.60	34	iPn	39 00.80	2.1
PRK	4.97	21	ePn	39 04.00	0.1
PAIG	5.31	357	ePc	39 08.40	-0.2
LIT	5.60	348	ePd	39 12.84	0.0
OUR	5.71	360	iPc	39 14.24	0.0
IGT	5.71	330	ePd	39 14.88	0.5
			eS	40 12.68	
KZN	5.95	343	ePn	39 18.50	0.7
THE	6.06	353	ePd	39 19.20	-0.1
SOH	6.22	355	ePc	39 21.68	0.2
KGT	6.39	23	ePn	39 23.00	-0.9
FNA	6.50	342	ePd	39 24.40	-1.1
SRS	6.50	357	ePc	39 25.00	-0.4
KNT	6.59	353	ePd	39 25.72	-1.0
ALT	6.61	46	ePn	39 29.00	2.0
RDO	6.63	10	ePn	39 28.00	0.7
VAY	6.79	351	iPn	39 30.00	0.5
SOI	7.28	301	P	39 33.70	-2.6
			eSn	40 46.50	
SKO	7.61	345	iPn	39 40.00	-1.0
			i	39 41.00	
			LR	42 50.00	
ATN	7.74	300	P	39 41.60	-1.2
			eSn	40 56.60	
MEU	7.77	291	P	39 41.70	-1.6
			eSn	40 58.00	
CZI	7.79	308	P	39 41.60	-2.0
			eSn	41 04.20	
HLW	7.82	125	eP	39 44.80	0.8
			eS	41 07.50	
CSI	8.02	312	P	39 47.20	0.4
KOT	8.11	123	ePn	39 48.00	0.0
BRT	8.24	321	P	39 48.40	-1.5
			eSn	41 11.30	
MMN	8.27	312	P	39 51.80	1.6
MGR	8.69	312	P	39 54.90	-1.1
SGO	9.09	313	P	40 00.90	-0.6
			eSn	41 29.50	
ADI	9.46	96	eP	40 06.00	-0.7
ATZ	9.56	98	eP	40 07.00	-1.1
			eS	41 47.00	
HRI	9.85	95	eP	40 10.00	-2.1
DSI	10.02	104	eP	40 13.00	-1.3
SDI	10.69	314	P	40 21.00	-2.5
ASS	12.21	317	P	40 44.00	-0.2
ARV	12.34	319	P	40 44.00	-1.8
FVI	14.67	328	P	41 17.50	1.1
CTI	14.78	324	P	41 16.80	-1.2
KRA	15.71	350	eP	41 51.90	21.9X
SBF	15.78	311	eP	41 35.30	4.2X
	0.6s		7.20nm		4.0mb
PRU	16.86	339	P	41 41.50	-3.0X
	1.1s		10.90nm		3.9mb
			i	41 48.00	
LPG	17.06	315	eP	41 52.60	5.1X
	0.4s		1.15nm		3.4mb
LPL	17.08	315	eP	41 52.40	4.7X
	0.4s		1.15nm		3.4mb
KSP	17.16	343	eP	41 51.00	2.7X
			id	41 57.70	
GRF	17.75	332	eP	41 59.10	3.4X
Z	19s		0.20um		
			e	42 04.10	
BRG	17.82	339	e(P)	41 59.00	2.5
			eSg	01 44.00	
MOX	18.39	334	eP	42 10.00	6.5X
BSF	18.43	321	eP	42 05.40	1.2
	0.6s		6.30nm		4.0mb
CLL	18.49	338	eP	42 06.00	1.3
			i	42 13.40	
HAU	18.77	321	eP	42 09.00	0.7
	0.4s		2.85nm		3.8mb
Z	20s		0.10um		3.5Msz
LBF	19.49	315	eP	42 17.00	0.3
	0.6s		2.70nm		3.7mb
LOR	19.71	316	eP	42 20.00	0.9
	0.5s		2.20nm		3.7mb
Z	20s		0.08um		5.5Msz
AVF	19.75	314	eP	42 20.60	1.1
	0.6s		2.25nm		3.6mb
BGF	19.94	313	eP	42 21.60	0.1
	0.4s		1.45nm		3.7mb
WLF	19.95	324	P	42 23.00	1.4
LPO	20.18	307	eP	42 25.60	1.6
	0.6s		6.30nm		4.1mb
BNS	20.40	328	e(P)	42 15.80	-10.4X
LFF	20.57	307	eP	42 30.20	2.2
	0.5s		2.90nm		3.9mb
LSF	20.60	311	eP	42 28.90	0.5
	0.4s		2.00nm		3.8mb
MEM	20.67	326	P	42 29.60	0.6
ENN	20.81	326	eP	42 35.00	4.5X
	0.7s		7.00nm		4.2mb
DOU	21.00	323	P	42 32.40	0.0
	0.8s		21.70nm		4.6mb
WTS	21.31	330	e(P)	42 42.00	6.5X
	0.8s		4.00nm		3.9mb
SNF	21.42	324	P	42 36.70	0.1
MFF	21.80	311	eP	42 42.10	1.6
	0.4s		3.45nm		4.1mb
OBN	22.28	19	eP	42 45.00	-0.2
			eS	47 03.00	
LDF	22.69	315	eP	42 49.20	-0.1
	0.6s		8.10nm		4.4mb
LPF	22.97	313	eP	42 52.50	0.5
	0.5s		7.30nm		4.4mb
FLN	22.98	315	eP	42 52.20	0.1
	0.4s		6.30nm		4.5mb
Z	21s		0.05um		2.9Msz
GRR	23.02	314	eP	42 53.90	1.4
	0.5s		4.35nm		4.2mb
NUR	25.91	1	eP	43 19.00	-1.1
	0.4s		1.00nm		3.8mb
HFS	26.40	348	eP	43 23.60	-1.0
	0.4s		5.60nm		4.5mb
KAF	27.56	2	iP	43 36.00	0.9
	0.3s		1.00nm		4.0mb
NB2	27.69	347	P	43 34.60	-1.9
	0.6s		0.80nm		3.6mb
TIC	38.61	231	P	45 12.30	0.8
KIC	38.65	230	P	45 12.60	0.7
LIC	38.93	230	P	45 15.00	0.8

S.D. = 1.2 on 69 of 82 obs.

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* JUL 28, 1991 05h 31m 55.61± 1.41s
17.766 S ±17.2km 122.539 E ± 9.6km
DEPTH = 10.0km (geophysicist)
WESTERN AUSTRALIA (590)

MBL	4.23	217	eP	33 02.00	0.4
			eS	33 46.00	
KNA	6.29	72	eP	33 31.40	0.6
			eS	34 39.00	
NANU	8.13	233	eP	33 56.00	-0.5
			eS	35 15.00	
WARB	9.20	156	eP	34 12.00	0.6
			eS	35 49.00	
WR2	11.40	103	eP	34 41.10	-0.6
	0.3s		7.70nm		5.5mb X
			eS	36 40.70	
ASPA	12.14	121	eP	34 51.10	-0.6
	0.7s		3.10nm		4.7mb X
			eS	37 05.60	

S.D. = 0.8 on 6 of 6 obs.

JUL 28, 1991 05h 35m 13.19± 0.22s
16.135 N ± 4.6km 94.913 W ± 3.8km
DEPTH = 53.3km (6 depth phases)
4.9mb (54 obs.)
OAXACA, MEXICO (60)

OXX	1.97	299	iP	35 46.50	1.5
			iS	36 07.50	
SCX	2.27	74	iP	35 53.00	4.1X
			iS	36 20.50	
TPX	2.83	115	eP	36 00.50	3.5X
			iS	36 36.00	
IISM	3.68	321	iP	36 09.50	0.5
			iS	36 49.50	
LVVM	3.87	338	iP	36 10.00	-1.6
			iS	36 53.00	
IIT	4.33	312	(P)	36 21.00	2.7X
			iS	37 05.00	
PPM	4.59	310	iP	36 24.00	1.8X
ACX	4.80	279	iP	36 22.75	-2.0
			iS	37 18.50	
UNM	5.16	309	(P)	36 34.50	4.3X
TAC	5.22	309	(P)	36 34.00	3.1X
			(S)	37 39.00	
MRX	6.95	302	iP	36 57.00	2.1
			iS	38 07.50	
GUM2	9.15	301	eP	37 23.25	-2.2
MEO	18.86	351	iPc	39 31.00	-0.8
VVO	19.14	358	iP	39 33.80	-1.1
			Lg	43 04.20	
TUL	19.71	358	iPc	39 39.30	-1.8
	0.6s		32.00nm		4.8mb
Z	22s		0.17um		4.0MszX
			Lg	43 10.40	
			eS	43 31.00	
ALQ	21.40	333	iPd	39 59.00	0.4
	0.9s		23.11nm		4.5mb
JSC	21.84	32	eP	40 00.00	-2.8X
FVM	22.12	9	eP	40 03.50	-2.1
	1.0s		19.00nm		4.5mb
BLA	24.60	29	eP	40 29.30	-0.5
	1.2s		6.56nm		4.0mb
GLA	24.65	317	eP	40 31.00	0.6
GOL	25.19	341	iP	40 36.00	0.4
	1.0s		40.00nm		4.9mb
PV09	25.55	333	eP	40 39.00	0.0
BAR	25.68	314	eP	40 41.00	1.0
TPC	26.11	317	eP	40 45.00	1.0
PLM	26.20	315	eP	40 46.00	1.0
CBN	26.86	32	e(P)	40 58.00	7.3X
RVR	26.92	315	eP	40 52.00	0.7
MSU	26.96	329	P	40 52.70	0.7
GSC	27.34	318	eP	40 55.00	-0.2
MWC	27.51	315	eP	40 53.00	-4.0X
SBB	27.63	316	eP	40 58.00	0.1
CLC	28.16	318	eP	41 03.00	0.4
ISA	28.63	317	eP	41 08.00	1.1
CWC	28.85	319	eP	41 09.00	0.0
RSSD	28.95	346	eP	41 10.00	0.2
	1.2s		29.15nm		4.8mb
BW06	29.36	338	P	41 12.50	-1.1
TNP	29.39	322	P	41 14.40	0.6
	0.8s		11.76nm		4.6mb
BONR	29.95	321	P	41 20.20	1.2
FRI	30.23	318	ePd	41 20.60	-0.4
PRI	30.36	316	eP	41 22.80	0.4
PRS	30.94	316	eP	41 27.20	-0.1
SAO	31.23	316	eP	41 30.90	1.0
CMB	31.28	319	ePd	41 30.70	0.3
MHC	31.68	317	ePd	41 34.70	0.7
GCC	31.74	316	eP	41 33.90	-0.5
ORV	32.90	320	ePd	41 45.10	0.7
LRM	33.04	337	iPd	41 46.30	0.4
MIN	33.45	321	eP	41 49.20	-0.2
WDC	34.15	321	eP	41 53.30	-2.0
FHC	35.17	320	ePd	42 04.80	0.8
SES	36.57	343	ePd	42 15.70	0.0
NEW	36.86	335	P	42 17.50	-0.7
	0.8s		15.63nm		5.0mb
LON	37.82	330	P	42 26.80	0.5
RMW	38.32	330	P	42 30.00	-0.5
PNT	38.72	334	ePd	42 34.00	0.3
	0.9s		23.00nm		5.0mb
GMW	38.86	330	P	42 34.30	-0.6
FFC	38.90	353	iPd	42 34.80	-0.3
	0.8s		19.00nm		5.0mb
PGC	39.95	330	eP	42 44.00	0.2
ZOBO	41.66	139	P	42 58.90	0.0
LPB	41.87	140	P	43 00.00	-0.5
CNCB	42.15	140	P	43 04.00	1.0
SCH	44.29	23	eP	43 17.00	-2.3
YKA	48.34	348	eP	43 50.20	-0.9
	0.8s		17.30nm		5.1mb

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PEL     54.19 155 eP     44 35.50  -0.2
                 i       44 51.50  61km
SAN     54.47 155 eP     44 37.50  -0.2
TACH    54.54 155 eP     44 38.00  -0.2
LNV     54.62 156 eP     44 38.00  -0.7
PCH     54.68 155 eP     44 39.00  -0.3
BAO     56.05 122 ePc    44 49.30  -0.2
PPD     57.13 130 eP     44 55.20  -1.8
                 e       44 59.60  14kmX
                 e       45 01.30
INK     57.61 344 eP     44 59.00  -0.7
                 pP      45 13.50  53km
KLU     57.83 334 P      45 01.80   0.3
TOA     58.22 334 eP     45 05.10   0.9
PMR     59.25 333 eP     45 11.30   0.1
        1.0s    29.90nm          5.4mb
KDC     59.37 328 eP     45 12.30   0.2
FBA     60.19 337 eP     45 17.10  -0.5
        0.8s    28.02nm          5.4mb
PDB     60.88 330 P      45 21.50  -0.9
VAO     60.93 128 (P)    45 20.00  -3.3X
MBC     61.47 354 iPd    45 25.80  -0.4
        1.0s    84.00nm          5.8mb
TTA     62.74 333 eP     45 33.70  -1.2
BMA     62.90 127 eP     45 40.20   3.7X
IMA     62.91 337 eP     45 34.80  -1.3
        1.0s     3.60nm          4.4mb
                 i       46 13.40 163kmX
DCN     75.83  38 eP     46 55.30   0.0
DMU     75.97  38 eP     46 55.80  -0.3
        0.7s    76.00nm          5.7mb
DLF     76.28  38 eP     46 57.80  -0.1
EKA     77.89  36 Pc     47 06.90   0.2
        0.9s    42.20nm          5.5mb
AVE     79.28  58 iP     47 15.50   0.7
LPF     80.73  43 eP     47 22.30   0.1
        0.8s    21.50nm          5.1mb
GRR     80.76  42 eP     47 21.70  -0.7
        0.8s    21.50nm          5.1mb
FLN     80.91  42 eP     47 22.60  -0.6
        0.8s    18.80nm          5.1mb
      Z  22s     0.25um          4.5Msz
MAL     80.93  54 iPc    47 25.00   1.5
LDF     81.18  42 eP     47 24.10  -0.5
        1.0s    20.00nm          5.0mb
MFF     81.66  44 eP     47 27.20   0.0
        0.9s     9.85nm          4.8mb
LFF     82.69  45 eP     47 32.90   0.4
        0.9s    26.20nm          5.3mb
LSF     82.88  44 eP     47 33.60   0.1
        1.0s    12.00nm          4.9mb
EPF     82.92  47 eP     47 34.30   0.5
        0.9s     8.20nm          4.7mb
LPO     83.07  46 eP     47 33.80  -0.7
        1.0s    16.00nm          5.0mb
RJF     83.12  45 eP     47 33.80  -1.0
        1.0s    20.00nm          5.1mb
      Z  20s     0.13um          4.3Msz
TCF     83.32  44 eP     47 35.90   0.1
        1.0s    12.00nm          4.9mb
SNF     83.43  39 P      47 37.40   1.2
MAF     83.57  44 eP     47 36.10  -1.0
        1.0s    12.00nm          4.9mb
CAF     83.60  45 eP     47 37.10  -0.2
        0.9s     7.35nm          4.7mb
NB2     83.61  28 P      47 37.80   0.8
        1.1s    23.10nm          5.1mb
BGF     83.66  43 eP     47 37.50   0.0
        0.7s    11.00nm          5.0mb
DOU     83.74  40 Pc     47 38.50   0.7
        0.5s     8.40nm          5.0mb
AVF     83.93  43 eP     47 37.80  -1.0
        0.9s     9.85nm          4.8mb
SSF     83.95  43 eP     47 38.10  -0.8
        1.1s    14.65nm          4.9mb
LOR     84.12  43 eP     47 40.30   0.5
        1.1s    22.00nm          5.1mb
      Z  22s     0.20um          4.5Msz
LBF     84.28  43 eP     47 39.50  -1.2
        1.1s     7.35nm          4.6mb
SMF     84.30  43 eP     47 40.60  -0.1
        0.9s     6.55nm          4.7mb
ENN     84.34  39 iPc    47 42.00   1.2
        0.8s    17.00nm          5.2mb
MEM     84.44  39 P      47 42.20   0.9
WTS     84.47  37 iPc    47 42.80   1.4
        0.8s    13.00nm          5.1mb
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WLF     84.83  40 iPc    47 44.51   1.3
BNS     85.03  38 iPc    47 45.50   1.3
HFS     85.09  28 ePKP   47 45.00   0.7
        0.8s     6.60nm          4.8mb
      Z  21s     0.13um          4.3Msz
                  LR     19 16.00
HAU     85.49  41 eP     47 46.00  -0.7
        0.7s    15.45nm          5.3mb
      Z  22s     0.13um          4.3Msz
BSF     85.83  41 eP     47 47.60  -0.9
        0.8s    10.75nm          5.1mb
CDF     85.94  41 eP     47 48.30  -0.7
        0.9s     9.85nm          5.0mb
TNS     86.04  39 ePc    47 50.30   0.9
LPL     86.56  44 eP     47 52.50   0.2
        1.0s     6.00nm          4.8mb
LPG     86.58  44 eP     47 52.40   0.0
        0.7s     6.60nm          5.0mb
RRL     86.79  44 P      47 54.46   1.0
LSD     86.86  44 P      47 55.08   1.3
LRG     86.99  46 eP     47 53.80  -0.3
        0.7s     8.80nm          5.1mb
      Z  22s     0.08um          4.1Msz
RSP     87.03  44 P      47 55.39   1.0
LMR     87.14  46 eP     47 55.40   0.6
        0.7s     8.80nm          5.1mb
BHB     87.14  44 P      47 56.62   1.8
PZZ     87.15  44 P      47 57.85   2.8X
FRF     87.15  45 eP     47 55.40   0.5
        0.9s     6.55nm          4.8mb
ORX     87.35  43 P      47 56.08   0.2
STV     87.39  45 P      47 58.77   2.7X
ENR     87.46  45 P      47 57.39   1.0
ROB     87.74  44 P      47 57.13  -0.6
MOX     87.77  38 eP     48 00.00   2.3
        1.3s     8.00nm          4.8mb
GRF     87.90  39 eP     48 00.70   2.3
      Z  22s     0.10um          4.2Msz
                  e      48 15.00  49km
FIN     87.99  44 P      47 55.08  -3.9X
TIC     88.08  84 P      47 59.42  -0.4
PCP     88.10  44 P      47 54.98  -4.5X
LIC     88.19  84 P      48 00.24  -0.1
        0.8s     4.50nm          4.8mb
CLL     88.31  37 eP     48 03.00   2.7X
KIC     88.42  84 P      48 01.36  -0.1
        0.8s     7.50nm          5.0mb
BRG     89.03  37 eP     48 04.20   0.5
PGF     89.12  46 eP     48 03.70  -0.8
KAF     89.45  24 iP     48 04.70  -0.8
        0.5s     2.30nm          4.7mb
NUR     89.69  25 iP     48 06.10  -0.5
        0.6s     1.90nm          4.6mb
PRU     89.75  37 P      48 07.00  -0.1
                  e      48 21.50  49km
KSP     90.39  36 eP     48 10.60   0.5
                  e      48 26.00  53km
ZST     92.05  38 eP     48 18.50   0.8
KRA     92.82  36 eP     48 24.80   3.6X
                  e      48 37.30  41kmX
YAK     94.54 341 eP     48 29.00   0.1
                  e      48 45.00  55km
STK    126.61 242 iPKPd  54 11.50  -1.2
        0.7s     3.40nm
QUE    130.74  21 ePKP   54 27.23   6.4X
WR2    133.12 258 iPKPd  54 24.50  -0.9
        0.7s     4.80nm
WRA    133.14 258 PKP    54 24.00  -1.4
        0.9s     4.80nm
NST    145.08 334 ePKP   54 46.50  -0.6
HYB    146.04  11 iPKPc  54 49.00   0.2
        1.0s    60.00nm
GBA    149.50  15 PKPc   54 58.10   3.9X
        0.6s    10.20nm
      S.D. = 0.9  on 139 of 158 obs.
-----------------------------------------
    JUL  28, 1991  06h 00m 25.84± 0.50s
    44.582 N ± 5.3km     9.458 E ± 4.0km
    DEPTH =   5.0km  (geophysicist)
 NORTHERN ITALY                      (545)
BOB      0.18 358 P      00 28.40  -1.3
                  eSg    00 30.10
PCP      0.65 267 P      00 39.11   0.2
                  S      00 50.59
CKI      0.86 260 P      00 43.00   0.2
                  eSg    00 54.60
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BDI      0.97 122 P      00 45.50   0.7
                  eSg    00 59.00
FIN      0.97 248 P      00 44.34  -0.4
                  S      00 57.95
MME      0.97 113 P      00 45.30   0.4
PII      1.15 138 P      00 47.70  -0.1
                  eSg    01 04.00
ROB      1.17 256 P      00 48.03  -0.2
                  S      01 04.74
IMI      1.31 240 P      00 49.87  -0.8
                  S      01 06.51
ORX      1.48 316 P      00 52.54  -0.8
                  S      01 22.17
ENR      1.50 257 P      00 52.16  -1.4
STV      1.57 258 P      00 54.59   0.1
                  S      01 14.24
BHB      1.59 280 P      00 55.93   1.2
                  S      01 27.63
SBF      1.62 244 Pn     00 54.60  -0.6
                  Sn     01 16.20
RSP      1.67 291 P      00 56.38   0.5
PZZ      1.69 268 P      00 56.49   0.2
LSD      1.85 299 P      01 00.46   1.7
RRL      1.93 281 P      00 59.90   0.0
PGF      2.06 189 Pn     01 00.60  -1.0
LPG      2.13 296 Pn     01 06.10   3.3X
LPL      2.15 297 Pn     01 06.30   3.3X
FRF      2.27 244 Pn     01 06.10   1.5
                  Sn     01 31.40
      S.D. = 0.9  on  20 of  22 obs.
-----------------------------------------
•   JUL  28, 1991  08h 45m 19.95± 1.79s
    10.264 S ±16.9km  124.576 E ±19.6km
    DEPTH =  52.5 ± 29.3 km
    4.6mb (  1 obs.)
 TIMOR                               (289)
KUG      0.98 276 ePd    45 37.50  -0.1
KNA      6.81 144 eP     47 00.00   0.3
                  iS     48 14.60
WR2     13.48 137 eP     48 27.40  -3.1X
        0.2s    10.50nm          5.3mb X
                  iS     50 51.70
WARB    15.95 173 eP     49 03.00   0.4
                  eS     51 55.00
ASPA    16.03 147 iPd    49 02.50  -1.0
        0.4s    20.60nm          4.6mb
                  eS     51 54.30
QIS     17.72 127 eP     49 25.00   0.3
                  eS     52 32.00
MAT     48.29  15 eP     53 58.00   0.0
      S.D. = 0.8  on   6 of   7 obs.
-----------------------------------------
    JUL  28, 1991  09h 02m 08.50± 0.39s
    38.619 N ± 4.2km    26.679 E ± 3.1km
    DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                          (365)
      MD 4.0 (ISK), 3.8 (THE).
IZM      0.51 116 iPg    02 18.90   0.1
PRK      0.70 333 iPbc   02 22.50   0.2
EZN      1.24 347 ePg    02 32.50   1.1
KGT      1.89  15 iPn    02 40.50  -0.6
YER      1.95 139 iPn    02 42.70   0.7
EDC      1.95  28 ePn    02 42.00   0.0
KHL      2.25  97 ePn    02 47.00   0.6
ALN      2.33 348 iPc    02 50.08   2.7X
                  eS     03 20.44
ATH      2.42 255 ePb    02 53.50   4.8X
PAIG     2.67 300 ePd    02 52.72   0.4
RDO      2.67 341 ePn    02 52.30   0.0
OUR      2.70 310 ePc    02 52.36  -0.4
YLV      2.85  46 ePn    02 54.00  -0.9
CTT      2.86  28 iPn    02 55.00   0.0
GBZT     3.04  44 ePn    03 28.50  31.0X
ISK      3.05  36 ePn    02 57.00  -0.7
ELL      3.17 125 ePn    03 00.20   0.7
HRT      3.19  45 ePn    02 58.50  -1.1
GPA      3.27  58 iPn    03 01.00   0.2
EYL      3.32  53 ePn    03 01.00  -0.6
SOH      3.38 312 ePc    03 03.12   0.7
AGG      3.42 278 ePc    03 03.00   0.0
SRS      3.44 317 ePc    03 02.84  -0.4
NPS      3.46 195 ePn    03 11.00   7.5X
VLI      3.52 239 ePn    03 03.10  -1.3
LIT      3.57 296 ePc    03 04.80  -0.3
KNT      3.86 312 ePc    03 09.72   0.5
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28d 09h

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VAY      4.15 312 ePn    03 14.00    0.7
SKO      5.22 312 ePn    03 27.00   -1.5
MLR      6.89 356 ePc    03 54.00    1.9
VRI      7.25   0 eP     03 57.00    0.0
      S.D. = 0.8  on  27 of  31 obs.
-----------------------------------------
?  JUL  28, 1991  09h 59m 26.91± 1.04s
   41.104 N ±20.0km   28.660 E ± 5.9km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 2.8 (ISK).

CTT      0.18 284 iPg    59 31.00    0.1
                  eSg    59 34.00
ISK      0.30  97 ePg    59 33.00   -0.2
                  eSg    59 38.00
HRT      0.81 110 iPg    59 43.00    0.3
KGT      1.22 238 ePn    59 49.50   -0.1
      S.D. = 0.4  on   4 of   4 obs.
-----------------------------------------
*  JUL  28, 1991  10h 59m 25.15± 0.72s
   22.698 N ± 6.7km  146.515 E ±18.8km
   DEPTH =  33.0km  (normal)
   4.3mb (  1 obs.)
 NORTH PACIFIC OCEAN                 (611)

PJG      9.20 190 eP     01 38.80    0.2
GUA      9.24 190 eP     01 39.00   -0.1
        0.7s    43.84nm          5.8mb X
CHJJ    14.82 336 P      02 55.40    1.3
MAT     15.56 334 eP     03 03.00   -0.7
MTMJ    15.76 333 eP     03 05.40   -1.0
NIIJ    15.88 338 P      03 08.00    0.3
FBA     59.39  27 eP     09 27.00    0.6
YKA     74.12  28 eP     10 56.00   -3.6X
        0.5s     1.70nm          4.3mb
TNP     81.02  53 eP     11 38.00   -0.6
HFS     88.97 338 eP     11 56 70 -20.9X
        0.5s     1.00nm
      S.D. = 0.9  on   8 of  10 obs.
-----------------------------------------
   JUL  28, 1991  11h 03m 07.33± 0.68s
   39.941 N ± 5.2km   22.465 E ± 6.1km
   DEPTH =  10.0km  (geophysicist)
 GREECE                              (364)
      MD 2.6 (THE).

LIT      0.16   7 ePd    03 11.78    0.7
                  eS     03 14.58
THE      0.79  29 ePc    03 22.58   -0.1
AGG      0.92 187 iPd    03 24.98    0.0
                  eS     03 38.38
PAIG     0.93  90 ePc    03 25.54    0.4
                  eS     03 37.70
SOH      1.11  37 iPd    03 28.14   -0.1
FNA      1.18 316 ePd    03 29.42    0.0
OUR      1.23  71 ePd    03 30.10    0.0
VAY      1.38   3 ePn    03 32.50   -0.1
SRS      1.46  36 iPd    03 32.94   -0.7
      S.D. = 0.5  on   9 of   9 obs.
-----------------------------------------
   JUL  28, 1991  11h 12m 07.25± 0.15s
    0.989 N ± 3.3km  120.591 E ± 4.3km
   DEPTH = 615.6km  (  5 depth phases)
   5.5mb ( 49 obs.)
 MINAHASSA PENINSULA                 (265)
      CENTROID, MOMENT TENSOR        (HRV)
      Data Used: GDSN
      L.P.B.: 12S, 22C
      Centroid Location:
      Origin Time        11:12: 7.6 1.0
      Lat  0.77N 0.09 Lon 120.78E 0.11
      Dep 589.5 7.4 Half-duration  1.9
      Moment Tensor;    Scale 10**17 Nm
        Mrr= 0.02 0.10  Mtt= 0.62 0.11
        Mff=-0.64 0.14  Mrt=-1.17 0.14
        Mrf=-0.73 0.13  Mtf= 0.21 0.13
       Principal Axes:
        T  Vol=  1.69  Plg=39  Azm=160
        N       -0.42      23       50
        P       -1.28      42      298
      Best Double Couple:Mo=1.5*10**17
       NP1:Strike=315 Dip=23 Slip=  -5
       NP2:        50      88     -113

MKS      6.27 190 ePc    13 51.90    0.0
KKM      6.66 319 iPc    13 54.00   -1.4
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        1.0s   644.10nm          5.6mb
                  i     14 20.00
DAV      7.84  39 eP     14 08.00    2.0
                  e     15 43.90
KUG     11.47 165 ePd    14 41.00    0.1
TRT     11.73 222 iPd    14 43.60    0.3
BAG     15.32 360 eP     15 17.90   -0.5
KGM     17.30 274 ePd    15 37.70    0.7
        0.9s   408.30nm          5.8mb
                  e     15 47.30
KNA     18.49 154 eP     15 47.40   -0.7
                  e     22 26.00
KLM     19.05 277 eP     15 53.50    0.3
IPM     19.86 281 ePd    16 00.50   -0.2
        0.6s   279.60nm          6.0mb
JAY     20.41 100 ePd    16 05.20   -0.5
                  e(S)  17 34.00
QIZ     20.80 330 P      16 08.20   -1.0
SNG     20.84 288 eP     16 10.50    0.9
        1.1s   308.86nm          5.8mb
                  e     22 32.70
MBL     22.02 182 iPc    16 18.70   -1.6
NANU    23.92 192 iPd    16 35.20   -2.0
LOE     24.70 312 iPd    16 13.50 -30.6X
WRA     24.79 148 P      16 42.60   -2.3
WR2     24.81 148 iPd    16 43.10   -1.9
        0.8s   564.90nm          6.2mb
NST     24.91 307 eP     16 46.00    0.1
KHT     25.70 303 eP     16 53.60    0.7
BDT     26.68 308 eP     17 01.00   -0.4
        0.8s   364.40nm          6.1mb
PJG     27.09  61 eP     17 03.60   -1.4
GUA     27.11  62 eP     17 04.60   -0.6
        0.6s    32.00nm          5.1mb
WARB    27.64 168 iPc    17 09.10   -0.6
CHG     27.65 311 iPd    17 10.00    0.1
                  e     22 52.00
CHTO    27.65 311 iP     17 10.00    0.1
        1.0s   123.75nm          5.5mb
ASPA    27.71 153 eP     17 09.00   -1.4
        0.6s   343.70nm          6.2mb
                  eS    21 10.20
QIS     28.38 140 iPc    17 14.80   -1.3
                  i     21 19.00
                  i     22 53.70
PMG     28.40 112 iP     17 15.80   -0.5
        0.8s   214.93nm          5.8mb
GYA     28.65 333 P      17 17.20   -1.3
        1.0s    50.00nm          5.1mb
                  PcP   20 09.00
KMI     29.55 326 iPd    17 27.50    1.2
        1.5s   130.00nm          5.3mb
WHN     29.98 349 Pd     17 30.70    1.1
        0.7s   100.00nm          5.6mb
NJ2     30.94 357 Pc     17 38.20    0.6
        0.8s    60.00nm          5.3mb
BAL     31.64 186 iPc    17 42.70   -0.9
        0.4s   108.00nm          5.8mb
COOL    31.70 179 iPc    17 42.70   -1.4
        0.6s   100.00nm          5.6mb
FORR    32.46 168 iPc    17 48.50   -1.9
KLB     32.51 184 iPc    17 50.00   -0.9
        0.3s    40.00nm          5.5mb
CTAO    32.73 131 iPc    17 53.00    0.1
                  i     18 07.00   55kmX
                  i(PcP)20 21.00
                  iS    22 28.00
                  i(ScP)23 08.00
                  i(ScS)26 09.00
MUN     33.05 187 iPd    17 54.80   -0.6
        0.9s   274.00nm          5.9mb
CD2     33.77 333 P      18 01.00   -0.5
        1.0s   150.00nm          5.6mb
NWAO    33.88 185 iPc    18 02.40    0.1
        0.3s    73.00nm          5.8mb
XAN     34.65 343 iPd    18 08.40   -0.3
        0.9s   100.00nm          5.4mb
                  S     22 54.00
RKG     35.53 185 iPc    18 16.40    0.5
                  e     23 19.00
QLP     35.65 142 iPc    18 18.00    1.0
        0.6s   567.00nm          6.3mb
                  i     23 19.00
SHL     36.92 314 iP     18 27.50   -0.2
                  iS    23 22.60
TIY     37.31 349 eP     18 30.00   -0.5
        1.0s    40.00nm          4.9mb
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LZH     38.22 338 eP     18 38.50    0.4
        1.5s   130.00nm          5.2mb
STK     38.27 151 iPc    18 38.60    0.3
        0.5s   417.10nm          6.2mb
                  ipP   20 22.80
                  iScP  23 28.40
                  iS    23 49.90
RMO     38.52 137 iPc    18 44.60    4.2X
        0.4s    44.00nm          5.3mb
                  eS    23 34.00
MAT     38.96  23 eP     18 40.00   -3.9X
BJI     39.08 355 eP     18 44.50   -0.2
        1.0s    38.00nm          4.9mb
                  eScP  23 31.00
                  eS    24 00.00
                  eSS   27 14.00
                  eScS  27 44.50
ADE     39.58 156 iPc    18 49.10    0.1
        0.7s  1383.56nm          6.6mb X
LSA     40.00 318 P      18 50.80   -2.1
CMS     40.20 146 iPc    18 54.00    0.1
                  iS    23 36.10
HHC     40.51 349 P      18 56.40    0.1
        1.0s    30.00nm          4.7mb
BTO     40.58 348 eP     18 56.00   -0.9
SNY     40.74   3 Pc     18 57.00   -1.0
        1.0s    20.00nm          4.6mb
YAMJ    41.09  24 P      19 01.20    0.4
OFUJ    42.53  24 P      19 11.60   -0.6
GTA     42.69 336 iPd    19 14.00    0.4
        0.9s   160.00nm          5.5mb
                  PcP   20 52.00
                  pP    21 00.00 609km
                  ScP   23 45.40
                  S     24 55.00
                  ScS   28 05.00
CN2     42.85   5 eP     19 13.40   -1.2
                  ePcP  20 51.00
BFD     43.08 154 iPd    19 14.00   -2.5
        0.7s   310.00nm          5.9mb
                  i     21 06.70 673kmX
COO     43.27 139 iPc    19 21.80    3.7X
                  epP   21 14.00 666kmX
                  iPcP  22 00.20
KOD     43.84 284 eP     19 22.80   -0.2
BWA     43.84 146 eP     19 24.20    1.8
MDJ     44.17   9 eP     19 24.00   -0.8
        1.0s    40.00nm          4.9mb
HYB     44.43 294 iPd    19 26.70   -0.6
        1.0s   490.00nm          6.0mb
                  e     19 30.00   11kmX
GBA     44.50 288 Pd     19 26.50   -1.3
        0.7s   123.70nm          5.5mb
TOO     44.75 152 iPc    19 31.10    1.7
        0.6s    67.00nm          5.3mb
                  i     21 26.00 683kmX
                  e     23 55.00
CAN     44.82 147 iPc    19 30.60    0.6
                  iPcP  20 59.50
                  iScP  23 25.10
CNB     45.02 146 iPd    19 33.00    1.5
        0.4s    81.00nm          5.6mb
                  i     21 33.00
MRRJ    45.17  21 eP     19 32.50    0.0
HOOJ    45.98  23 eP     19 39.30    0.7
KUSJ    47.15  24 eP     19 46.70   -0.8
ASAJ    47.21  22 eP     19 47.10   -0.9
POO     49.04 294 iPd    20 07.00    4.9X
        0.7s   116.44nm          5.5mb
NDI     49.70 308 iP     20 05.00   -1.7
TAU     49.87 154 iPc    20 09.30    1.6
DZM     50.24 120 iPc    20 11.90    1.0
BKM     50.43 114 iP     20 14.30    2.0
PVC     50.52 114 iPc    20 14.50    1.6
WMQ     51.72 330 P      20 21.50    0.2
        1.5s   200.00nm          5.3mb
                  PcP   21 24.00
                  PP    22 27.00
                  ScP   24 23.50
                  PcS   25 15.00
                  S     26 59.50
                  ScS   29 04.50
QUE     58.55 305 eP     21 08.00   -0.9
                  e(S)  28 26.10
YAK     61.27   5 eP     21 25.60   -0.3
                  e     23 24.00 606km
                  eS    28 59.00
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                    e      30 14.00
MSZ    61.86 143 eP      21 30.50    0.5
THZ    63.52 139 eP      21 40.60   -0.2
LTZ    63.59 140 eP      21 41.50    0.3
MCQ    63.68 156 eP      21 42.10    0.6
       0.6s   121.70nm          5.5mb
TCW    64.18 138 eP      21 44.00   -0.9
NGZ    64.22 135 eP      21 45.40    0.0
KHZ    64.24 139 eP      21 44.40   -0.8
MOZ    64.28 141 eP      21 45.70    0.3
KIW    64.46 137 eP      21 45.70   -1.0
MRW    64.48 137 eP      21 45.60   -1.2
TAZ    64.49 134 eP      21 48.30    1.4
WEL    64.55 137 P       21 47.00   -0.2
       1.0s  *******nm          7.9mb X
CAW    64.67 137 eP      21 46.90   -1.1
MNG    64.75 136 eP      21 47.10   -1.4
MTW    64.99 137 eP      21 48.90   -1.1
HBZ    65.55 132 eP      21 53.20   -0.3
PUZ    65.70 133 eP      21 53.80   -0.6
NOZ    65.74 134 eP      21 55.10    0.5
MAIO   66.39 309 iPd     21 58.40   -0.4
       1.0s    22.50nm          4.6mb
                eSn      30 00.00
CSY    67.51 184 iPd     22 04.90    0.0
       0.5s   104.60nm          5.6mb
IR4    72.91 307 eP      22 37.50    0.2
IR1    73.11 307 eP      22 38.50    0.0
IR5    73.16 306 eP      22 40.00    1.3
IR7    73.23 307 eP      22 39.00   -0.1
BHD    77.93 304 iPc     23 05.00    0.4
MAW    79.12 199 eP      23 11.00    0.9
       1.0s    37.00nm          4.8mb
MSL    79.31 307 iPc     23 10.50   -1.3
NPA    81.89 255 iP      23 29.00    3.6X
SBA    82.53 171 iPc     23 29.90    2.5
NAI    83.81 269 eP      23 37.00    1.7
HRI    85.15 303 eP      23 43.00    1.7
KVT    85.23 311 eP      23 43.00    1.6
MML    85.40 302 eP      23 44.00    1.6
PRNI   85.70 300 eP      23 45.00    1.2
OBN    85.75 325 iPd     23 43.10   -0.4
                epP      25 55.00 619km
                ePP      27 18.00
                e        28 28.00
                eSKS     33 11.00
                eS       33 24.00
                e        35 13.00
MTD    89.33 253 iPd     24 01.40    0.3
PTZ    89.52 256 iP      24 01.20   -0.8
FBA    89.80  25 e(P)    24 26.50   24.3X
SPA    90.98 180 iPc     24 08.10    0.3
       0.8s    54.17nm          5.6mb
                i        27 34.00
KAF    91.15 332 iP      24 07.20   -1.2
       0.5s    16.30nm          5.3mb
VRI    92.00 316 eP      24 11.50   -1.2
NUR    92.08 330 eP      24 12.00   -0.7
       1.0s    12.60nm          4.9mb
BUL    92.19 250 iPc     24 14.60    0.3
       0.8s    33.58nm          5.4mb
SLR    92.51 244 iPc     24 16.00    0.3
LSZ    92.58 255 iP      24 16.00   -0.1
                i        28 06.00
KMZ    94.86 257 eP      24 27.00    0.5
MBC    95.92  12 eP      24 30.50    0.5
       0.7s     3.00nm          4.6mb
KRA    96.09 320 eP      24 31.30    0.1
                e        26 45.80 623km
HFS    97.50 331 eP      24 36.20   -1.2
       0.5s     2.00nm          4.7mb
KSP    98.24 322 iPc     24 41.60    0.6
                e        26 55.60 621km
                e        28 57.00
NB2    98.42 332 P       24 40.30   -1.4
       0.7s     5.30nm          5.0mb
MOX   101.17 322 e(Pdif24 54.00    0.0
BSF   105.02 320 ePKP     29 39.70   17.5X
       1.0s    12.00nm
HAU   105.25 321 ePKP     29 42.80   20.3X
       0.8s     8.05nm
TNP   114.19  47 ePKP     29 40.00   -0.1
       0.6s     2.04nm
                e        32 19.80
BW06  117.40  40 e(PKP)29 49.00    2.9X
                i        32 25.10
PV09  119.77  44 ePKP     29 52.40    1.6
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                    e      32 31.50
RSSD  120.04  36 ePKP     29 50.00   -1.0
       0.8s     7.01nm
                    i      32 30.00
GOL   121.69  41 ePKP     29 54.80    0.4
                    i      32 34.80
GLD   121.76  41 e(PKP)29 56.20    1.8
                    e      32 35.50
ALQ   123.36  46 ePKP     29 59.00    1.3
       0.9s     2.73nm
SCH   124.05   5 ePKP     29 58.00   -0.1
KIC   124.95 278 PKP      30 01.68    0.6
       0.9s    10.50nm
TIC   125.20 279 PKP      30 02.00    0.4
LIC   125.25 278 PKP      30 02.14    0.4
LNV   145.33 162 iPKPc    30 40.50    2.5
CHCH  145.58 163 iPKP     30 40.00    1.5
LCCH  145.73 162 ePKP     30 41.50    2.8X
TACH  145.75 163 ePKP     30 40.00    1.2
PCH   145.91 163 iPKP     30 41.70    2.6X
SAN   146.02 163 iPKP     30 40.50    1.3
PEL   146.30 163 iPKP     30 43.00    3.3X
       0.6s    56.67nm
ROCH  146.37 162 ePKP     30 42.00    1.9
JACH  146.76 163 ePKP     30 45.00    4.5X
CNCB  162.16 152 PKP      31 05.00    3.4X
LPB   162.34 151 ePKP     31 02.00    0.4
       1.1s    50.63nm
                    i      31 55.00
ZOBO  162.55 151 PKP      31 04.00    2.0
       0.9s    30.71nm
                    i      31 56.20
     S.D. = 1.1  on 146 of 161 obs.
-----------------------------------
*  JUL  28, 1991  11h 32m 50.85± 1.36s
   38.611 N ±13.4km   26.718 E ±16.9km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                        (365)
      MD 3.4 (ISK), 3.3 (ATH).

IZM     0.48 116 iPg      33 00.60    0.0
                    eSg    33 07.30
PRK     0.72 331 iPbc     33 04.00   -1.1
                    eSb    33 15.90
EZN     1.25 346 ePn      33 14.00   -0.1
YER     1.92 139 iPn      33 23.90   -0.1
EDC     1.95  27 ePn      33 24.00   -0.3
RDO     2.69 341 ePn      33 36.40    1.5
     S.D. = 1.1  on   6 of   6 obs.
-----------------------------------
%  JUL  28, 1991  11h 44m 51.86± 2.32s
   45.071 N ±16.6km    2.988 E ±16.6km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                            (538)
      ML 2.0 (LDG).

CAF     0.67 258 Pg       45 04.20   -1.0
                    Sg     45 14.10
RJF     1.07 283 Pg       45 12.20    0.2
                    Sg     45 25.90
MAF     1.19 346 Pg       45 13.40   -0.6
                    Sg     45 29.40
TCF     1.33 336 Pg       45 16.10   -0.4
                    Sg     45 33.70
LPO     1.34 254 Pg       45 17.30    0.8
                    Sg     45 34.90
BGF     1.49 356 Pg       45 19.70    1.0
                    Sg     45 38.80
SMF     1.68  20 Pn       45 20.00   -1.5
                    Sg     45 43.40
AVF     1.74   8 Pg       45 23.70    1.5
                    Sg     45 45.20
LOR     2.28  15 Pg       45 33.40    3.3X
                    Sg     46 02.20
     S.D. = 1.2  on   8 of   9 obs.
-----------------------------------
*  JUL  28, 1991  12h 09m 22.32± 2.83s
   38.524 N ±22.0km   26.558 E ±19.8km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                        (365)
      MD 3.4 (ISK), 3.3 (ATH).

IZM     0.57 103 iPg      09 34.00    0.1
                    iSg    09 41.40
PRK     0.76 343 iPbc     09 37.50    0.4
                    eSb    09 49.50
EZN     1.31 352 ePn      09 47.00    0.4
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EDC     2.08  29 ePn      09 57.50   -0.2
RDO     2.73 344 ePn      10 06.30   -0.7
CTT     2.99  28 ePn      10 10.50   -0.1
     S.D. = 0.6  on   6 of   6 obs.
-----------------------------------
&  JUL  28, 1991  13h 49m 57.71s
   59.897 N          153.439 W
   DEPTH = 135.8km
 SOUTHERN ALASKA                   (  2)
      <AEIC>.

PDB     0.40 254 iPc      50 16.19   -1.0
                    eS     50 30.49
AUE     0.54 176 iPd      50 17.22   -0.7
                    eS     50 32.33
AUI     0.56 179 ePd      50 17.32   -0 7
                    iS     50 32.25
RED     0.62  32 iPd      50 17.64   -0.9
                    S      50 33.65
RSO     0.66  31 iPd      50 18.15   -0.8
                    eS     50 33.78
RDW     0.67  28 iPd      50 18.15   -0.8
                    eS     50 35.37
REF     0.70  31 iPd      50 18.36   -0.8
                    eS     50 35.47
RDN     0.71  28 iPd      50 18.36   -0.8
DFR     0.79  28 ePd      50 18.84   -0.9
MCNL    0.85 213 iPc      50 19.07   -1.0
                    eS     50 35.72
RDT     0.85  37 iPd      50 19.33   -0.9
                    eS     50 36.64
HOM     0.94 104 iPd      50 20.23   -0.6
                    eS     50 37.94
CDD     0.98 186 iPc      50 20.21   -1.0
                    eS     50 37.50
XLV     0.98 116 ePd      50 20.07   -1.2
                    eS     50 37.39
NNL     1.09  81 iPd      50 22.29    0.0
CNPM    1.18 107 iPd      50 22.10   -1.1
                    eS     50 40.77
CKL     1.41  22 ePd      50 25.06   -0.7
                    eS     50 46.35
SPU     1.46  27 iPc      50 25.35   -0.8
                    eS     50 46.84
BGL     1.47  20 eP       50 25.89   -0.4
CGLM    1.58  26 ePc      50 26.87   -0.7
                    eS     50 49.68
NCG     1.64  22 iPc      50 27.88   -0.4
SLKM    1.72  68 eP       50 27.63   -1.5
SEW     2.02  82 ePd      50 31.21   -1.3
                    eS     50 56.20
SUA     2.06  39 ePc      50 32.12   -1.1
                    eS     50 58.65
SKT     2.29  23 iPc      50 34.82   -1.2
PMS     2.34  53 iPc      50 35.13   -1.6
                    eS     51 03.20
LTI     2.81  85 eP       50 41.17   -1.5
KNK     2.89  56 eP       50 42.91   -0.8
                    eS     51 14.48
KNIM    2.89  79 eP       50 41.64   -2.1
                    eS     51 13.80
GHO     2.90  48 eP       50 41.59   -2.3
                    S      51 14.55
MTU     2.91  86 eP       50 42.79   -1.2
                    eS     51 15.70
CUT     2.95  30 iPc      50 43.24   -1.2
GLI     3.30  70 eP       50 47.22   -1.8
                    eS     51 23.86
VZW     3.60  68 eP       50 51.45   -1.7
VLZ     3.73  68 eP       50 51.92   -2.7
TRF     3.87  21 eP       50 54.96   -1.8
KLU     4.03  63 eP       50 55.90   -2.9
GLB     4.98  68 eP       51 09.13   -2.5
NEA     5.12  22 eP       51 10.45   -2.9
CROM    5.19  76 eP       51 12.96   -1.6
WRH     5.23  26 ePc      51 12.02   -2.8
CCB     5.44  26 ePc      51 14.73   -3.0
BALM    5.61  73 ePc      51 18.26   -1.8
MDM     5.63  23 ePc      51 17.33   -2.9
     44 obs. associated
-----------------------------------
?  JUL  28, 1991  14h 37m 21.10± 1.48s
   39.148 N ± 8.0km   27.679 E ±18.1km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      MD 3.0 (ISK).
```

28d 14h

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IZM      0.82 204 ePg    37 36.90  -0.1
                  iSg    37 47.90
EDC      1.21   7 ePn    37 44.00   0.5
EZN      1.25 303 ePn    37 44.50   0.3
KGT      1.33 348 iPn    37 45.00  -0.7
      S.D. = 0.9  on   4 of   4 obs.
-----------------------------------------
?  JUL  28, 1991  14h 43m 01.40± 7.20s
   44.069 N ±55.4km    6.866 E ±19.1km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                              (538)
      ML 2.0 (LDG).

SBF      0.46 116 Pg    43 10.80   0.0
                  Sg    43 17.20
FRF      0.53 197 Pg    43 12.40   0.2
                  Sg    43 20.10
LRG      0.72 211 Pg    43 15.70   0.2
                  Sg    43 27.10
LMR      0.78 200 Pg    43 16.10  -0.5
                  Sg    43 28.40
      S.D. = 0.6  on   4 of   4 obs.
-----------------------------------------
?  JUL  28, 1991  15h 57m 06.08± 1.02s
   8.189 S ±20.7km  119.631 E ±51.4km
   DEPTH = 188.2 ± 48.4 km
   4.9mb (  3 obs.)
 FLORES ISLAND REGION                (286)

MKS      2.96 357 iPc    57 55.00   0.0
KNA     11.67 131 eP     59 44.60  -3.5X
                  eS     01 45.00
MBL     12.90 179 eP     00 04.00   0.2
                  eS     02 15.00
WR2     18.44 131 eP     01 09.80  -0.3
        0.4s    27.10nm          5.0mb
                  eS     04 26.80
WARB    19.10 160 iPc    01 16.50  -0 4
                  eS     14 00.00
                  eS     16 08.00
ASPA    20.59 140 iPc    01 31.60  -0.3
                  eS     05 11.00
OIS     22.89 125 iPc    01 55.00   0.6
        0.4s    13.00nm          4.9mb
STK     31.19 142 iPc    03 09.80   0.2
        0.4s    11.50nm          4.9mb
      S.D. = 0.5  on   7 of   8 obs.
-----------------------------------------
?  JUL  28, 1991  17h 00m 14.88± 1.37s
   36.860 N ±18.3km   29.214 E ± 9.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 3.5 (ISK).

ELL      0.57 101 ePg    00 26.40  -0.1
                  eSg    00 36.00
YER      0.79 290 iPg    00 30.80   0.4
                  eSg    00 43.50
CIN      1.16 310 eP     00 36.00  -0.6
KHL      1.48   9 ePn    00 41.90   0.3
      S.D. = 0.8  on   4 of   4 obs.
-----------------------------------------
%  JUL  28, 1991  18h 28m 00.81± 0.57s
   39.265 N ± 4.7km   29.177 E ± 7.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)

KHL      0.98 164 ePn    28 19.40   0.0
IZI      1.09  12 ePn    28 20.50  -0.9
YLV      1.31   7 iPn    28 25.00  -0.1
GPA      1.34  40 ePn    28 26.00   0.4
EDC      1.48 317 ePn    28 27.50   0.0
EYL      1.50  30 iPn    28 28.00   0.1
HRT      1.60  13 iPn    28 29.00  -0.2
IZM      1.73 241 ePn    28 31.00  -0.1
ISK      1.80 357 ePn    28 32.50   0.4
CTT      1.97 343 iPn    28 34.90   0.4
      S.D. = 0.5  on  10 of  10 obs.
-----------------------------------------
   JUL  28, 1991  19h 48m 16.27± 0.75s
   18.132 N ±10.6km  103.402 W ± 7.1km
   DEPTH =  33.0km  (normol)
   4.8mb ( 19 obs.)  4.1Msz (  1 obs.)
 NEAR COAST OF MICHOACAN, MEXICO ( 56)

CGX      1.56 358 iP     48 43.00   0.8
                  iS     49 03.00
GUM2     2.52   2 eP     48 51.50  -4.5X
                  (S)    49 23.50
MRX      2.61  53 iP     48 57.75   0.7
                  iS     49 29.00
ACX      3.61 110 iP     49 17.50   6.3X
                  iS     50 02.50
UNM      4.17  73 (P)    49 22.50   3.0X
TAC      4.18  72 (P)    49 25.00   5.3X
PPM      4.62  78 eP     49 25.50  -0.6
                  iS     50 21.00
IIT      4.91  79 eP     49 31.00   1.0
IISM     5.78  81 eP     49 43.00   1.0
OXX      6.45  98 eP     49 51.50  -0.2
LVVM     6.77  75 (P)    50 02.00   6.1X
ALQ     16.96 351 eP     52 14.00   1 1
        1.0s     5.75nm          3.7mb X
MEO     17.13  14 e(P)   52 14.50  -0.3
VVO     18.44  20 ePd    52 28.90  -2.1
TUL     18.95  19 iPd    52 33.90  -3.3X
        0.4s     5.70nm          4.1mb
      Z  18s     0.37um          4.0MszX
RVR     20.14 324 eP     52 53.00   2.6X
GSC     20.84 328 eP     52 59.00   1.3
PV09    20.90 347 eP     52 57.20  -1.4
SB8     20.90 325 eP     53 03.00   4.6X
GOL     21.56 356 eP     53 05.60   0.3
ISA     21.99 326 eP     53 12.00   2.7X
FVM     22.81  27 e(P)   53 23.00   5.7X
TNP     23.26 331 eP     53 23.50   1.5
        0.8s     6.91nm          4.2mb
BW06    25.12 349 eP     53 39.50  -0.4
        0.7s     3.12nm          4.0mb
RSSD    25.91 359 eP     53 49.00   1.7
ORV     26.49 327 eP     53 52.60   0.2
LRM     28.62 347 eP     54 11.60  -0.4
FFC     36.54   1 eP     55 18.00  -2.5
        0.7s    10.00nm          4.8mb
PMR     53.91 335 ePc    57 38.80   0.4
        0.7s    19.19nm          5.2mb
FBA     55.28 339 ePc    57 48.00  -0.5
        0.7s     7.27nm          4.8mb
MBC     58.72 356 eP     58 12.00  -0.8
        0.9s     6.00nm          4.7mb
EKA     80.95  35 Pd     00 26.30  -2.5X
        0.9s     3.20nm          4.3mb
GRR     84.67  41 eP     00 48.30   0.3
        0.9s    16.40nm          5.2mb
LPF     84.68  41 eP     00 48.40   0.3
        0.9s    13.10nm          5.1mb
FLN     84.77  40 eP     00 49.10   0.6
        0.9s    22.95nm          5.4mb
LDF     85.05  40 eP     00 50.10   0.2
        0.9s    11.45nm          5.1mb
NB2     85.56  26 P      00 51.80  -0.5
        0.8s     2.10nm          4.4mb
LFF     86.98  44 eP     01 00.00   0.5
        0.8s     9.40nm          5.1mb
LSF     86.98  42 eP     00 59.60   0.1
        0.7s     2.75nm          4.6mb
RJF     87.34  43 eP     01 00.80  -0.5
        1.0s    10.00nm          5.0mb
      Z  20s     0.08um          4.1Msz
LPO     87.37  44 eP     01 01.60   0.2
TCF     87.40  42 eP     01 00.80  -0.8
        1.0s     4.00nm          4.6mb
EPF     87.44  45 eP     01 01.50  -0.4
        0.8s     4.05nm          4.7mb
LOR     88.03  41 eP     01 03.80  -0.8
        0.7s     4.40nm          4.9mb
YAK     89.80 338 eP     01 12.60   0.0
      S.D. = 1.0  on  34 of  45 obs.
-----------------------------------------
   JUL  28, 1991  20h 34m 14.65± 0.70s
   26.756 N ±10.2km  102.084 E ± 6.9km
   DEPTH =  33.0km  (normal)
 SICHUAN PROVINCE, CHINA             (307)
      ML 3.9 (BJI).

KMI      1.73 160 iPgc   34 43.00  -0.1
                  Sg     35 10.50
GYA      4.11  93 Pg     35 17.00   0.1
                  Sg     36 04.60
CD2      4.39  19 Pg     35 20.70  -0.1
                  Sg     36 14.60
TIY     13.99  36 Pc     37 18.90 -13.9X
GUN     14.45 278 P      37 40.18   1.1
PKI     14.87 277 P      37 44.48  -0.1
KKN     14.98 278 P      37 46.44   0.5
DMN     15.14 277 P      37 46.58  -1.4
GKN     15.55 279 P      37 49.58  -3.7X
      S.D. = 0.9  on   7 of   9 obs.
-----------------------------------------
?  JUL  28, 1991  21h 00m 43.71± 8.44s
   31.966 S ±62.6km   71.746 W ±25.7km
   DEPTH =  10.0km  (geophysicist)
 NEAR COAST OF CENTRAL CHILE         (135)

ROCH     1.18 148 iPc    01 05.80  -0.1
                  iS     01 20.20
JACH     1.21 126 iPc    01 06.20  -0.1
                  iS     01 20.50
PEL      1.48 143 iP     01 10.20  -0.2
                  iS     01 28.00
LCCH     1.51 174 iPc    01 10.50  -0.3
                  iS     01 29.00
TACH     1.81 158 iPd    01 15.70   0.5
                  iS     01 36.70
PCH      1.95 148 ePd    01 17.50   0.2
                  iS     01 41.00
CHCH     2.17 155 ePc    01 20.40   0.0
                  iS     01 47.20
      S.D. = 0.3  on   7 of   7 obs.
-----------------------------------------
*  JUL  28, 1991  21h 56m 32.05± 0.58s
   16.628 N ±13.6km   94.191 W ± 9.1km
   DEPTH = 141.3 ±  7.4 km
   4.9mb (  2 obs.)
 OAXACA, MEXICO                      ( 60)

SCX      1.50  86 eP     57 01.50   0.3
                  iS     57 22.00
OXX      2.47 281 iP     57 12.50  -0.5
                  iS     57 40.50
TPX      2.53 132 iP     57 13.50  -0.1
                  iS     57 40.50
LVVM     3.76 326 iP     57 26.50  -3.2X
                  (S)    57 58.50
IISM     3.84 308 iP     57 29.25  -1.4
IIT      4.59 302 iP     57 41.50   0.5
PPM      4.87 301 iP     57 45.50   0.5
                  iS     58 41.00
UNM      5.46 300 eP     57 54.00   1.3
TAC      5.50 301 (P)    58 03.00   9.7X
                  iS     58 59.00
MEO     18.50 349 iPc    00 39.10  -1.0
FFC     38.49 353 iPd    03 41.80   0.0
        0.4s    13.00nm          5.0mb
YKA     48.01 347 eP     04 57.90  -0.3
        0.6s     9.80nm          4.7mb
PPD     56.92 131 (P)    06 04.00  -0.9
MBC     61.07 353 eP     06 32.50  -0.2
NB2     82.85  28 P      08 42.80   1.1
        0.7s     0.50nm          3.5mb X
KIC     87.68  84 P      09 07.00   0.6
      S.D. = 0.9  on  14 of  16 obs.
-----------------------------------------
%  JUL  28, 1991  22h 47m 24.90± 0.76s
   40.748 N ± 7.0km   29.222 E ± 8.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                              (366)
      MD 2.4 (ISK).

YLV      0.21 148 iPg    47 29.80   0.2
ISK      0.34 339 ePg    47 32.00   0.1
HRT      0.35  78 iPg    47 32.00  -0.1
                  iSg    47 37.50
IZI      0.45 155 iPg    47 34.00  -0.1
CTT      0.72 304 iPg    47 39.00  -0.1
                  iSg    47 49.50
      S.D. = 0.2  on   5 of   5 obs.
-----------------------------------------
   JUL  28, 1991  23h 29m 54.94± 1.51s
   45.251 N ± 4.4km   6.571 E ±13.4km
   DEPTH =  10.0km  (geophysicist)
 FRANCE                              (538)

LPG      0.28  27 Pg     30 00.90   0.0
                  Sg     30 05.50
LPL      0.29  23 Pg     30 01.10   0.0
                  Sg     30 05.80
RRL      0.36 155 P      30 02.68   0.2
                  S      30 08.62
LSD      0.46  63 P      30 04.32  -0.1
                  S      30 10.57
```

```
RSP      0.49 101 P      30 05.14   0.1
                  S      30 12.73
BHB      0.64 130 P      30 07.60  -0.2
                  S      30 16.83
PZZ      0.84 153 P      30 11.08  -0.1
                  S      30 23.39
     S.D. = 0.2  on   7 of   7 obs.
-----------------------------------------
• JUL  28, 1991  23h 46m 08.43± 1.18s
  25.234 S ±11.8km   26.767 E ±10.8km
  DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA          (584)
      mbLg 3.6 (BUL).

JOZ      5.25 116 eP     47 29.50   0.0
       0.8s    59.70nm          5.3mb X
                  S      48 25.00
BUL      5.35  19 iPn    47 32.00   1.0
                  iSn    48 39.60
                  iSg    49 11.50
KRI      8.77  18 iPn    48 18.00  -1.1
                  iSn    50 02.10
                  iSg    50 58.00
WIN      9.24 285 eP     48 25.50   0.0
       1.0s    30.00nm          5.7mb
                  S      50 14.00
MTD      9.54  29 iPn    48 26.00  -3.6X
                  iSn    50 15.00
                  iSg    51 14.00
LSZ     10.00   8 iPn    48 36.00   0.1
                  iSn    50 36.00
                  iSg    51 46.00
CER     10.40 217 iPc    49 12.00  30.7X
       0.5s    24.32nm
                  S      50 14.00
     S.D. = 1.0  on   5 of   7 obs.
-----------------------------------------
  JUL  28, 1991  23h 58m 20.29± 0.22s
  30.329 N ± 4.1km   94.793 E ± 3.5km
  DEPTH =  33.0km  (normol)
  4.9mb ( 36 obs.)
 TIBET                             (306)

SHL      5.40 209 iP     59 40.50  -0.3
                  eS     01 21.00
CD2      7.75  83 ePn    00 14.00   0.4
KMI      8.74 124 iPd    00 27.50  -0.1
LZH      9.51  50 eP     00 38.50   0.4
       1.5s    31.00nm          5.3mb
     Z  12s     1.02um          3.8Msz
GYA     11.14 107 P      00 57.60  -2.8
       1.2s    70.00nm          5.7mb
                  pP     01 08.60
CHG     12.07 161 eP     01 13.00   0.1
CHTO    12.07 161 eP     01 12.90   0.0
       1.0s    10.25nm          4.9mb
WMO     14.60 339 P      01 44.50  -1.8
     Z  12s     0.30um
                  PP     01 53.00
BTO     16.07  46 eP     02 03.50  -1.9
TIY     16.36  59 Pc     02 11.30   2.2
     Z  10s     1.02um
WHN     16.87  84 eP     02 14.00  -1.5
HHC     17.18  48 P      02 21.60   2.1
       1.2s    40.00nm          4.4mb
HYB     19.61 233 eP     02 48.00  -0.9
BJI     19.94  55 eP     02 52.00  -0.2
       1.2s    24.00nm          4.4mb
NJ2     20.65  79 eP     03 00.00   0.4
GAR     21.86 300 eP     03 10.30  -1.7
IRK     23.02  15 eP     03 24.10   0.9
GBA     23.10 228 Pd     03 24.90   0.7
       0.9s    24.20nm          4.7mb
SNG     23.67 165 eP     03 32.10   2.3
OUE     24.03 277 eP     03 33.70   0.3
MAIO    29.98 291 iPd    04 29.20   1.1
YAK     38.98  25 eP     05 44.40  -0.4
MSL     43.14 292 eP     06 19.50   0.1
OBN     47.70 319 iPc    06 56.00   0.6
       1.5s   *******nm          8.3mb X
                  e      07 06.00
KAF     53.66 327 eP     07 39.90  -0.7
       1.3s    14.40nm          4.8mb
VRI     54.19 307 ePc    07 43.50  -1.2
NUR     54.41 325 eP     07 46.00  -0.1
       0.4s     2.20nm          4.5mb
MLR     54.79 307 ePc    07 44.00  -5.3X
KRA     58.01 313 eP     08 10.80  -1.2
SKO     58.70 303 iP     08 16.00  -0.9
                  i      08 29.00
HFS     59.87 325 eP     08 24.20  -0.6
       0.6s     1.50nm          4.3mb
KSP     60.14 314 ePc    08 27.20   0.4
ZST     60.22 311 eP     08 27.00  -0 3
NB2     60.92 326 P      08 31.10  -0.9
       1.2s    14.70nm          5.0mb
PRU     61.43 314 P      08 40.50   5.0X
BRG     61.58 315 eP     08 37.00   0.4
       1.0s    10.00nm          4.9mb
CLL     62.05 315 eP     08 40.00   0.3
       1.5s    12.00nm          4.8mb
GRF     63.58 314 ePd    08 50.80   0.9
       1.3s    16.00nm          5.0mb
ASPA    65.51 141 eP     09 02.30  -0.4
       0.7s     6.80nm          4.9mb
CDF     66.45 313 eP     09 08.20  -0.3
       1.0s     8.00nm          4.8mb
WLF     66.72 315 iP     09 11.26   1.2
BSF     66.95 313 eP     09 12.30   0.6
       1.0s     8.00nm          4.8mb
HAU     67.17 313 eP     09 13.70   0.7
       1.0s     6.00nm          4.6mb
LPG     67.79 311 eP     09 17.70   0.3
       1.1s    14.65nm          5.0mb
LPL     67.80 311 eP     09 17.30   0.0
       1.0s    18.00nm          5.1mb
SBF     67.93 309 eP     09 17.30  -0.6
       1.1s    24.40nm          5.2mb
FRF     68.57 309 eP     09 21.50  -0.4
       1.1s    14.65nm          5.0mb
LMR     68.75 309 eP     09 22.60  -0.3
       1.2s    20.85nm          5.1mb
LRG     68.80 309 eP     09 23.00  -0.3
       1.1s    17.10nm          5.0mb
LOR     69.00 313 eP     09 24.10  -0.4
       1.1s     7.35nm          4.7mb
LBF     69.04 313 eP     09 25.20   0.5
       1.1s     8.55nm          4.7mb
SMF     69.25 313 eP     09 25.50  -0.5
       1.2s    20.85nm          5.1mb
SSF     69.31 313 eP     09 26.20  -0.1
       1.1s    14.65nm          5.0mb
AVF     69.51 313 eP     09 27.30  -0.2
       1.2s    17.85nm          5.0mb
EKA     69.88 323 P      09 30.00   0.4
       1.3s    10.50nm          4.7mb
BGF     69.92 313 eP     09 31.20   1.1
MAF     70.23 313 eP     09 32.30   0.3
       1.3s    25.25nm          5.1mb
TCF     70.43 313 eP     09 33.20   0.0
       1.1s    19.55nm          5.1mb
LSF     70.88 313 eP     09 36.60   0.7
       1.1s     8.55nm          4.7mb
CAF     71.07 311 eP     09 37.60   0.4
       1.0s    11.00nm          4.9mb
RJF     71.27 312 eP     09 38.90   0.6
       1.2s    29.75nm          5.2mb
MBC     71.54   8 eP     09 39.50   0.1
LPO     71.74 311 eP     09 41.60   0.5
LFF     71.92 312 eP     09 42.90   0.7
       1.0s    16.00nm          5.0mb
INK     75.37  17 eP     10 02.00   0.2
PTZ     75.42 244 iP     10 02.10  -0.9
MTD     76.75 241 iPc    10 10.20  -0.3
                  i      11 33.70
LSZ     78.48 245 iP     10 21.00   0.9
BUL     81.02 240 iPd    10 33.60  -0.1
       1.0s    15.00nm          4.9mb
                  i      11 56.90
     S.D. = 0.9  on  67 of  69 obs.
-----------------------------------------
  JUL  29, 1991  00h 40m 19.29± 0.67s
  24.563 N ± 6.1km   95.120 E ± 5.0km
  DEPTH = 119.4 ±  8.0 km
  4.6mb ( 13 obs.)
 BURMA                             (296)

SHL      3.10 289 iP     41 08.50   0.7
                  iS     44 01.70
LSA      6.22 326 eP     41 48.80  -1.7
                  S      42 55.10
CHG      6.74 147 ePd    41 57.90   0.8
      0.9s    56.09nm          5.0mb
BDT      8.14 153 eP     42 17.00   0.9
GUN      8.94 294 P      42 27.04  -0.3
PKI      9.23 291 Pc     42 30.80  -0.4
KKN      9.40 292 Pc     42 32.90  -0.5
DMN      9.50 291 Pc     42 34.04  -0.7
CD2      9.92  49 eP     42 38.50  -1.7
GKN     10.01 292 Pc     42 41.08  -0.4
GYA     10.60  77 P      42 55.20   6.0X
LZH     13.73  31 eP     43 34.00   3.8X
       1.0s    65.00nm          4 9mb
XAN     15.29  49 P      43 50.40   0.5
GTA     15.33  14 P      43 52.20   1.8
       1.0s    20.00nm          4.3mb
WHN     18.05  66 eP     44 25.00   1.1
GBA     19.93 240 Pc     44 45.30   1.4
       0.9s    20.30nm          4.5mb
WMO     20.15 344 P      44 46.80   0.6
       1.0s    30.00nm          4.6mb
                  sP     45 26.00
BTO     20.28  34 eP     44 44.60  -2.9X
NJ2     22.16  65 Pc     45 06.00  -0.2
GAR     25.42 310 eP     45 38.40   0.9
WRA     58.44 136 P      50 03.00  -1.9
       0.3s     7.20nm          5.2mb
WR2     58.45 136 iPd    50 03.70  -1.3
       0.7s    11.10nm          5.0mb
KAF     58.70 329 eP     50 06.80   0.6
       0.2s     0.40nm          4.1mb
NUR     59.35 327 eP     50 10.90   0.2
       0.2s     0.40nm          4.1mb
ASPA    60.93 139 eP     50 20.80  -1.2
       1.4s     8.90nm          4.6mb
HFS     64.80 327 eP     50 46.70  -0.3
       0.4s     0.80nm          4.0mb
NB2     65.91 328 P      50 54.60   0.5
       0.9s     1.10nm          3.8mb
PTZ     73.20 245 iP     51 38.00  -1.4
KRI     75.96 244 iPd    51 56.30   1.1
LSZ     76.34 246 iPd    51 58.00   0.6
BUL     78.49 242 iPc    52 09.40   0.2
       1.0s    18.00nm          4.8mb
     S.D. = 1.1  on  28 of  31 obs.
-----------------------------------------
  JUL  29, 1991  01h 38m 48.48± 0.35s
  49.596 N ± 7.9km  156.099 E ± 4.5km
  DEPTH =  88.7km  (  4 depth phases)
  4.9mb ( 52 obs.)
 KURIL ISLANDS                     (221)

MAT     18.41 232 eP     42 58.00  -1.1
       0.6s     8.00nm          4.1mb
MDJ     18.67 265 eP     43 04.50   2.4
SVW     29.06  48 P      44 43.00   0.9
       0.8s    22.07nm          4.8mb
PMR     32.18  47 P      45 09.40   0.0
       0.6s     6.40nm          4.6mb
F8A     32.69  41 P      45 13.90   0.1
       0.7s    50.87nm          5.4mb
                  pP     45 34.20  87km
INK     38.17  35 eP     46 01.00   0.7
MBC     41.23  21 eP     46 26.00   0.6
GYA     44.29 257 P      46 50.40  -0.6
NEW     53.89  56 P      48 04.30  -0.1
       0.8s     7.50nm          4.8mb
CHG     54.71 257 ePc    48 11.30   0.6
       1.0s    30.50nm          5.3mb
GUN     56.74 275 P      48 24.88  -0.8
ORV     56.76  66 P      48 25.00  -0.2
KKN     57.21 276 P      48 29.80   1.0
       0.7s    37.00nm          5.6mb
PKI     57.28 275 P      48 28.94  -0.5
FFC     57.28  42 eP     48 28.00  -0.7
       1.2s    21.00nm          5.1mb
DMN     57.45 275 P      48 30.44  -0.1
       0.7s    40.00nm          5.6mb
GKN     57.48 276 P      48 29.00  -1.6
       0.9s    31.00nm          5.4mb
LRM     57.91  56 eP     48 33.70   0.2
TNP     60.26  65 P      48 50.00   0.2
       0.8s     8.82nm          4.9mb
                  pP     49 12.80  90km
BW06    61.48  57 P      48 57.50  -0.6
       0.7s     6.34nm          4.8mb
                  pP     49 20.20  90km
RSSD    63.48  52 P      49 10.80  -0.5
       0.7s    15.22nm          5.1mb
                  pP     49 33.10  87km
PV09    64.64  60 P      49 19.00   0.0
```

29d 01h

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GOL     65.88  57 P      49 27.00   0.2
        0.7s      2.43nm          4.2mb
NB2     66.16 342 P      49 26.50  -1.5
        0.7s      3.10nm          4.3mb
HFS     66.46 341 eP     49 28.70  -1.2
        0.4s      1.00nm          4.1mb
      Z  17s      0.03um          3.5MszX
                 LR    18 44.00
ALO     68.67  61 eP     49 45.00   0.6
        0.9s      2.73nm          4.1mb
HYB     68.91 272 eP     49 47.00   1.2
GBA     72.43 270 Pd     50 07.40   0.4
        0.7s      7.20nm          4.7mb
TUL     73.79  53 ePd    50 14.60   0.0
        0.8s     12.10nm          4.8mb
KRA     73.86 332 eP     50 14.20  -0.6
EKA     74.01 348 Pd     50 15.20  -0.4
        0.4s      3.90nm          4.6mb
CLL     74.66 337 iPd    50 18.90  -0.5
FVM     74.90  49 P      50 20.60  -0.4
        0.6s     13.65nm          5.0mb
PRU     75.46 336 P      50 30.80   6.8X
                  e      50 35.00  13kmX
WTS     75.47 341 eP     50 24.00   0.0
        0.7s      3.00nm          4.3mb
DMU     75.89 350 eP     50 26.20  -0.2
DLF     76.44 349 eP     50 29.30  -0.1
DCN     76.48 350 eP     50 29.50  -0.1
GRF     76.60 337 ePc    50 31.00   0.6
        0.9s     20.00nm          5.0mb
ENN     76.82 341 eP     50 31.50  -0.1
        0.9s     14.00nm          4.8mb
MEM     76.95 341 Pc     50 32.10  -0.2
SNF     77.40 342 P      50 34.70  -0.1
DOU     77.73 342 P      50 36.80   0.2
WLF     77.81 341 P      50 41.00   4.0X
CDF     78.74 339 eP     50 41.90  -0.4
        0.8s     10.75nm          4.8mb
PTJ     78.77 333 eP     50 42.30  -0.2
ZAG     78.84 333 eP     50 42.80   0.0
HAU     79.33 340 eP     50 45.30  -0.2
        0.6s      5.40nm          4.6mb
BSF     79.39 340 eP     50 45.40  -0.5
        0.7s      4.40nm          4.4mb
FLN     79.97 345 eP     50 48.60  -0.2
        0.8s     24.20nm          5.1mb
LDF     80.07 344 eP     50 49.00  -0.3
        0.5s      8.75nm          4.9mb
GRR     80.39 345 eP     50 51.10   0.0
        0.7s     35.30nm          5.3mb
SKO     80.51 327 e(P)   50 49.00  -2.8
LOR     80.57 341 eP     50 52.00  -0.1
        0.8s     16.10nm          4.9mb
LPF     80.77 345 eP     50 53.20   0.2
        0.8s     29.55nm          5.2mb
LBF     80.81 341 eP     50 53.10  -0.3
        0.7s      5.50nm          4.5mb
SSF     80.84 341 eP     50 53.50   0.0
        0.8s      9.40nm          4.7mb
AVF     81.13 341 eP     50 55.10   0.2
        0.8s     14.80nm          4.9mb
SMF     81.17 341 eP     50 55.10  -0.1
        1.0s     16.00nm          4.8mb
ORX     81.18 338 P      50 55.43   0.0
BGF     81.46 342 iPc    50 56.80   0.1
        0.5s      3.65nm          4.5mb
LSD     81.54 338 P      50 58.50   1.0
LPL     81.59 339 iPc    50 58.40   0.7
        0.6s     18.95nm          5.1mb
LPG     81.60 339 iPc    50 58.70   0.9
        0.6s     20.75nm          5.2mb
RSP     81.81 338 P      50 58.09  -0.6
MAF     81.83 342 iPc    50 59.40   0.7
        0.7s     15.45nm          5.0mb
TCF     81.84 342 eP     50 59.20   0.5
        0.8s      9.40nm          4.7mb
MFF     81.99 344 eP     51 00.10   0.6
        0.6s     10.80nm          4.9mb
HRI     82.01 313 eP     51 00.20   0.3
LSF     82.01 342 eP     51 00.70   1.1
        0.9s     20.45nm          5.0mb
PCP     82.06 337 P      50 59.73  -0.2
BHB     82.10 338 P      50 59.12  -1.0
RRL     82.14 339 P      51 01.58   1.0
PZZ     82.45 338 P      51 01.58  -0.5
FIN     82.46 337 P      51 01.25  -0.7
ROB     82.46 338 P      51 00.86  -1.2
ENR     82.64 338 P      51 02.82  -0.2
IMI     82.82 337 P      51 04.04   0.2
MML     82.85 313 iPc    51 04.80   0.6
RJF     82.92 342 eP     51 04.90   0.6
        0.9s      9.85nm          4.7mb
SBF     82.98 338 eP     51 04.70   0.0
        1.0s     24.00nm          5.1mb
CAF     83.18 342 eP     51 06.50   0.8
        0.9s     13.10nm          4.9mb
FRF     83.45 338 eP     51 07.10   0.1
        0.8s      5.35nm          4.5mb
LPO     83.59 342 eP     51 08.30   0.6
        0.7s     11.00nm          4.9mb
LRG     83.62 338 eP     51 08.40   0.5
        0.7s     19.85nm          5.2mb
LMR     83.70 338 eP     51 08.60   0.3
        0.9s     21.30nm          5.1mb
PGF     83.81 336 eP     51 09.10   0.1
        0.9s     19.65nm          5.1mb
MBH     85.30 312 eP     51 17.00   0.3
EPF     85.34 342 eP     51 16.80   0.2
        0.5s      1.45nm          4.2mb
      S.D. = 0.7  on  87 of  89 obs.
-----------------------------------------
    JUL  29, 1991  01h 50m 08.62± 0.34s
     2.958 S ± 6.3km  129.415 E ± 7.8km
    DEPTH =  33.0km  (normol)
    5.2mb ( 13 obs.)
 CERAM                                (272)

JAY     11.29  88 eP     52 49.20  -1.6
KNA     12.73 183 eP     53 09.30  -0.8
PMG     18.76 111 e(P)   54 28.50   1.1
OIS     20.12 151 iPc    54 41.80  -0.9
        0.4s     49.00nm          5.2mb
                   e      58 27.00
MBL     20.36 207 eP     54 43.80  -1.4
                   e      55 34.00
ASPA    21.04 168 iPc    54 51.80  -0.4
        0.5s    135.60nm          5.6mb
                  eS      58 37.20
CTAO    23.66 137 iPc    55 19.40   1.2
KGM     26.55 280 ePc    55 47.00   1.4
FORR    27.77 182 eP     55 55.30  -1.2
IPM     29.34 285 ePd    56 11.90   1.0
        1.0s     33.90nm          5.0mb
KLB     30.53 200 eP     56 19.00  -2.2
STK     30.97 160 eP     56 25.20   0.1
        0.7s      5.80nm          4.5mb
ADE     33.00 166 e(P)   56 43.70   0.8
        0.8s     53.73nm          5.5mb
BWA     35.96 153 eP     57 10.30   1.9
BDT     36.10 305 eP     57 11.00   1.3
BFD     36.13 162 eP     57 07.70  -2.0
        1.0s     45.00nm          5.3mb
GYA     36.59 324 eP     57 14.60   0.8
CAN     36.97 153 eP     57 18.00   1.2
CHG     36.97 307 ePc    57 17.80   0.8
        1.0s     19.50nm          4.9mb
TOO     37.48 159 eP     57 22.50   1.5
        1.0s     29.00nm          5.1mb
MAT     40.14  11 eP     57 42.00  -1.3
DZM     40.65 121 iPc    57 48.90   1.2
XAN     41.56 334 P      57 53.10  -1.8
TIY     43.42 340 eP     58 09.40  -0.8
HHC     46.55 341 eP     58 36.50   1.4
GTA     50.18 330 eP     59 03.20  -0.2
        1.0s     10.00nm          4.8mb
                  pP      59 11.20  27kmX
GUN     51.91 309 Pc     59 16.66  -0.4
PKI     52.12 309 Pc     59 17.74  -0.8
        0.7s     18.00nm          5.1mb
KKN     52.32 309 Pc     59 19.24  -0.7
        0.8s     39.00nm          5.4mb
DMN     52.37 308 P      59 19.98  -0.4
GKN     52.92 309 P      59 23.80  -0.6
        0.8s     56.00nm          5.6mb
WMQ     59.72 326 P      00 12.50  -0.1
SPA     87.06 180 iPd    02 52.10   0.0
        1.0s     12.50nm          5.1mb
INK     95.35  22 eP     03 11.00 -19.4X
PTZ     97.09 255 iPc    03 40.00   0.5
MBC     97.83  13 eP     03 41.00  -0.6
LSZ    100.03 254 iPdiff 03 54.80   1.8
RTLL   141.89 155 iPKPd  09 28.10 -11.5X
NNA    149.97 120 ePKP   10 03.80  10.6X
        0.6s      4.67nm
LPB    154.03 139 PKP    10 03.00   3.5X
PPD    155.15 178 (PKP)  10 11.00  10.6X
      S.D. = 1.2  on  36 of  41 obs.
-----------------------------------------
%  JUL  29, 1991  02h 22m 41.59± 2.60s
   41.190 N ±18.2km   23.570 E ±12.0km
   DEPTH =  10.0km  (geophysicist)
 GREECE-BULGARIA BORDER REGION     (363)
      MD 2.7 (THE).

SRS      0.07 167 ePc    22 44.12   0.1
                  eSg    22 45.92
SOH      0.40 204 ePd    22 49.84   0.0
                  eS     22 55.92
KNT      0.51 267 ePd    22 51.60  -0.3
                  eS     22 59.40
THE      0.72 220 ePc    22 55.72  -0.1
                  iSg    23 06.32
OUR      0.91 160 ePd    22 58.88  -0.1
                  eS     23 11.08
GRG      0.91 256 ePc    22 59.48   0.4
                  eS     23 12.60
      S.D. = 0.3  on   6 of   6 obs.
-----------------------------------------
%  JUL  29, 1991  03h 16m 51.13± 3.06s
   39.196 N ±21.3km   23.568 E ±19.4km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                        (365)
      MD 2.1 (THE).

PAIG     0.74   7 ePd    17 05.84   0.3
                  eS     17 15.84
AGG      0.98 260 ePd    17 09.76   0.0
                  eS     17 22.60
OUR      1.18  16 ePc    17 13.00  -0.1
                  iS     17 27.74
LIT      1.23 318 ePd    17 14.00   0.0
                  eS     17 28.88
KNT      2.03 346 ePd    17 25.56  -0.2
                  eS     17 49.52
      S.D. = 0.3  on   5 of   5 obs.
-----------------------------------------
*  JUL  29, 1991  03h 20m 15.61± 0.78s
   30.294 N ±11.1km   94.765 E ±10.4km
   DEPTH =  33.0km  (normol)
   4.6mb (  7 obs.)
 TIBET                             (306)

SHL      5.35 209 eP     21 36.20   0.7
                  eS     23 08.60
GUN      8.13 255 P      22 14.98   0.4
PKI      8.63 254 P      22 21.34  -0.2
KKN      8.67 256 P      22 20.74  -1.2
DMN      8.87 255 P      22 25.42   0.6
        0.7s     22.00nm          5.4mb
GKN      9.14 258 P      22 27.18  -1.2
NB2     60.94 326 P      30 26.50  -1.0
        0.9s      3.20nm          4.5mb
WRA     62.81 138 P      30 40.00  -0.4
        1.0s      1.70nm          4.1mb
GRF     63.59 314 eP     30 46.70   1.5
LPG     67.80 311 eP     31 13.20   0.5
        0.8s      4.05nm          4.6mb
LPL     67.80 311 eP     31 13.20   0.5
        0.8s      5.35nm          4.7mb
SSF     69.31 313 eP     31 22.40   0.7
        0.9s      3.30nm          4.4mb
MAF     70.23 313 eP     31 28.90   1.6
TCF     70.43 313 eP     31 27.20  -1.4
        1.0s      8.00nm          4.7mb
INK     75.41  17 ePd    31 56.10  -1.3
      S.D. = 1.1  on  15 of  15 obs.
-----------------------------------------
*  JUL  29, 1991  04h 05m 45.97± 1.59s
   23.250 N ±12.7km  121.483 E ±14.6km
   DEPTH =  43.4 ± 12.3 km
 TAIWAN                            (244)

TWF1     0.20 301 iPc    05 53.70   0.1
TWG      0.57 222 iPd    05 57.20  -0.6
TWD      0.83   7 iPd    06 01.10  -0.3
TWK      0.92 271 iPd    06 04.40   1.8
                  eS     06 18.60
TWC      1.39  14 iPd    06 09.50   0.2
                  eS     06 28.00
ANP      1.93   1 eP     06 17.30   0.3
QZH      3.13 303 Pnd    06 33.50  -0.6
```

		Sn	07 09.20		
GZH	7.49	270	eP	07 34.80	-0.7
SSE	7.82	358	ePn	07 49.00	9.0X
			ePg	08 21.50	
			eSg	09 50.30	
NJ2	9.07	346	eP	07 52.80	-4.5X
			eS	09 27.80	
WHN	9.66	320	eP	08 04.00	-1.3
			S	09 47.00	
OIZ	11.64	251	eP	08 40.00	7.5X
GYA	13.83	286	eP	09 02.00	0.4
HHC	19.43	337	eP	10 12.40	0.6

S.D. = 1.0 on 11 of 14 obs.

JUL 29, 1991 04h 06m 56.45± 0.47s
42.229 N ± 1.8km 125.597 W ± 5.2km
DEPTH = 10.0km (geophysicist)
4.6mb (6 obs.)
OFF COAST OF OREGON (30)

FHC	1.87	139	iPc	07 28.70	-0.1
			eS	07 52.73	
FOX	2.09	144	iP	07 32.11	0.2
WDC	2.83	125	iPc	07 43.00	0.5
			iS	08 17.40	
HBO	2.89	55	Pc	07 44.16	0.6
TCO	3.47	56	P	07 52.20	0.3
MIN	3.55	121	ePc	07 52.70	-0.1
			iS	08 35.29	
KMOR	3.73	23	P	07 54.69	-0.7
			S	08 37.39	
GT2	3.79	38	P	07 56.12	-0.1
			S	08 40.37	
PGO	3.96	34	P	07 59.43	1.0
			S	08 44.20	
GMO	4.04	55	P	07 59.70	-0.2
VBEM	4.06	44	P	08 00.24	0.2
			S	08 49.97	
ORV	4.10	129	eP	08 02.08	1.6
			iS	08 49.40	
TDH	4.12	41	P	08 01.01	0.1
			S	08 48.84	
NLO	4.16	21	P	08 01.68	0.3
VLMM	4.19	37	P	08 02.40	0.5
			S	08 49.98	
VIPM	4.28	56	Pc	08 03.10	-0.3
VLL	4.30	40	P	08 04.13	0.7
			S	08 54.28	
VFP	4.30	43	P	08 03.97	0.4
CROR	4.33	49	P	08 03.39	-0.6
RVW	4.42	27	P	08 05.21	0.1
			S	08 55.18	
LVP	4.47	30	P	08 05.92	0.0
			S	08 56.66	
APM	4.50	38	P	08 06.75	0.5
MTMW	4.51	32	P	08 06.32	-0.1
			S	08 55.82	
BMW	4.57	21	P	08 07.09	-0.2
			S	08 57.30	
FL2	4.60	29	P	08 07.85	0.1
			S	08 58.09	
JLK	4.63	31	P	08 08.01	-0.2
			S	08 59.52	
SHW	4.64	30	P	08 08.61	0.3
HSR	4.64	31	P	08 08.72	0.3
			S	09 00.63	
CDFW	4.65	32	Pd	08 08.36	0.0
			S	08 59.56	
REMW	4.67	31	P	08 09.07	0.3
ESD	4.68	31	P	08 09.25	0.4
STD	4.68	30	P	08 08.72	-0.2
GULW	4.69	37	P	08 09.18	0.2
VTHM	4.69	49	P	08 08.85	-0.2
			S	09 03.32	
ERK	4.70	29	P	08 09.14	0.0
			S	09 00.45	
SOSW	4.72	31	P	08 09.63	0.2
			S	09 02.06	
CZM	4.75	27	P	08 09.62	-0.2
			S	09 02.57	
TDL	4.78	29	P	08 10.06	-0.3
			S	09 04.26	
VGB	4.79	45	eP	08 10.30	-0.1
ASR	4.86	35	P	08 11.48	0.0
			S	09 06.16	
KOSW	4.89	29	P	08 11.96	0.2
LMW	5.03	27	P	08 14.41	0.6

			S	09 10.82	
BKS	5.05	148	e(P)	08 14.00	-0.1
			iS	09 40.00	
			eLR	10 50.00	
CPW	5.06	19	P	08 14.31	0.2
			S	09 09.69	
GL2	5.07	41	P	08 13.98	-0.4
			S	09 14.51	
GLK	5.19	32	P	08 16.23	0.1
LON	5.27	30	P	08 17.14	0.0
JBO	5.27	50	P	08 17.15	0.0
REMR	5.32	29	P	08 18.14	0.2
			S	09 16.95	
WPW	5.33	32	P	08 17.58	-0.4
			S	09 17.43	
PCC	5.33	151	eP	08 16.77	-1.2
SMW	5.34	17	P	08 17.91	-0.2
GHW	5.36	25	P	08 19.14	0.7
			S	09 16.87	
RVC	5.38	28	P	08 19.10	0.4
MEW	5.40	22	P	08 20.15	1.3
			S	09 19.50	
FMW	5.47	29	P	08 20.36	0.2
			S	09 21.12	
PATW	5.57	47	P	08 21.30	0.0
OOW	5.60	10	P	08 21.64	-0.1
NAC	5.65	36	P	08 22.63	0.1
GSM	5.66	27	P	08 22.76	0.0
GMW	5.68	20	P	08 22.70	-0.2
HDW	5.71	18	P	08 22.98	-0.4
			S	09 25.16	
OSD	5.75	13	P	08 23.47	-0.6
MHC	5.75	147	ePc	08 23.90	-0.1
MXC	5.77	39	P	08 24.39	0.2
CMB	5.79	135	e(P)	08 28.50	4.0X
ARN	5.79	146	eP	08 24.40	-0.1
PRW	5.82	45	P	08 24.58	-0.3
SPW	5.83	23	P	08 26.09	1.1
BRVW	5.85	41	P	08 25.05	-0.3
RMW	5.88	26	P	08 26.05	0.3
EBG	5.90	36	P	08 25.95	0.0
PGW	5.98	20	P	08 27.24	0.2
RSW	5.99	44	P	08 26.66	-0.7
MDW	6.06	42	P	08 27.83	-0.3
BLN	6.07	17	P	08 28.96	0.6
TBM	6.09	34	P	08 29.27	0.6
BLH	6.15	23	P	08 29.45	0.0
WG3	6.16	50	P	08 28.79	-0.9
WIW	6.17	45	P	08 29.39	-0.4
GBL	6.20	43	P	08 30.01	-0.1
HTW	6.20	25	P	08 29.89	-0.3
			S	09 37.05	
MJ2	6.22	44	P	08 30.16	-0.3
WAH2	6.25	42	P	08 31.02	0.1
LOCW	6.29	42	P	08 31.71	0.2
SAO	6.33	148	eP	08 30.60	-1.5
CRF	6.39	42	P	08 32.46	-0.4
LNOR	6.40	53	P	08 32.22	-1.0
RC1	6.45	41	P	08 33.73	0.0
ET3	6.45	45	P	08 33.17	-0.6
JCW	6.50	22	P	08 33.97	-0.5
			S	09 44.69	
ETW	6.55	33	P	08 35.35	0.1
CMW	6.66	20	P	08 37.05	0.2
MCW	6.74	16	P	08 37.70	-0.1
WTV	6.78	34	P	08 38.29	-0.1
RPW	6.85	23	P	08 38.67	-0.8
			S	09 52.82	
NLW	6.93	31	P	08 40.80	0.2
MBW	7.05	20	P	08 42.13	-0.2
TNP	7.64	120	e(P)	08 52.50	1.9
	0.7s		9.44nm		5.1mb X
PNT	8.23	28	P	08 58.00	-0.6
	0.7s		7.00nm		5.0mb X
NEW	8.49	42	eP	09 02.50	0.1
LRM	10.13	65	eP	09 25.00	-0.2
MSU	10.89	105	eP	09 37.00	1.4
PLM	11.23	139	iPd	09 55.00	14.8X
BW06	11.86	82	ePc	09 48.50	-0.3
GOL	15.49	93	ePc	10 36.00	-0.7
	0.6s		30.86nm		4.8mb
GLD	15.58	92	ePd	10 38.00	0.1
	0.9s		48.42nm		4.8mb
RSSD	15.84	76	ePd	10 38.50	-2.7
	1.0s		24.40nm		4.3mb
ALQ	16.62	110	ePc	10 52.00	0.8
	1.0s		7.50nm		3.8mb

FFC	19.92	43	eP	11 29.00	-1.9
	0.8s		27.00nm		4.6mb
YKA	21.32	14	eP	11 45.20	-0.1
	1.0s		30.90nm		4.6mb
MEO	22.35	100	e(P)	11 55.50	-0.4
INK	26.48	353	eP	12 39.00	3.9X
MBC	34.22	3	eP	13 47.50	3.7X
JSC	35.39	88	ePc	13 54.50	0.3
CBN	36.66	80	eP	14 06.00	1.1

S.D. = 0.6 on 112 of 116 obs.

& JUL 29, 1991 04h 15m 41.70s
46.784 N 121.906 W
DEPTH = 8.2km
WASHINGTON (29)
<SEA>. MD 2.3 (SEA). Felt at Mt. Rainier.

REMR	0.06	52	Pc	15 43.33	-0.5
LON	0.07	117	Pc	15 43.41	-0.5
RVC	0.17	344	Pd	15 45.09	-0.3
FMW	0.22	47	Pd	15 46.21	-0.2
WPW	0.26	109	Pc	15 46.85	-0.3
LMW	0.29	246	Pc	15 47.54	-0.2
			S	15 52.08	
GLK	0.30	137	Pd	15 47.62	-0.3
			S	15 52.15	
GHW	0.36	316	P	15 48.42	-0.6
KOSW	0.38	211	Pd	15 48.94	-0.5
			S	15 54.83	
GSM	0.43	10	Pd	15 49.83	-0.5
			S	15 55.59	
TDL	0.48	206	Pd	15 50.55	-0.9
			S	15 57.49	
CZM	0.54	230	P	15 51.79	-0.8
ERK	0.56	212	Pd	15 52.01	-1.1
SOSW	0.57	196	P	15 51.85	-1.4
STD	0.59	202	Pd	15 52.43	-1.1
ESD	0.61	196	P	15 53.25	-0.7
SHW	0.63	201	Pd	15 53.38	-1.1
HSR	0.64	197	P	15 53.61	-1.0
MEW	0.66	310	P	15 54.34	-0.5
JLK	0.66	195	Pd	15 53.73	-1.3
FL2	0.66	208	Pd	15 53.71	-1.4
ASR	0.67	161	P	15 54.00	-1.2
CDFW	0.68	188	Pd	15 54.07	-1.2
RMW	0.68	6	Pd	15 54.19	-1.2
NAC	0.74	93	P	15 55.80	-0.7
MTMW	0.79	196	Pd	15 56.02	-1.2
LVP	0.80	206	Pd	15 56.11	-1.3
RVW	0.86	223	P	15 56.90	-1.5
CPW	0.87	283	P	15 57.20	-1.4
GULW	0.89	166	P	15 57.82	-1.1
EBG	0.93	82	P	15 59.28	-0.3
GMW	0.97	322	P	15 59.26	-1.1
TBM	0.97	66	P	16 00.28	-0.2
YAKW	0.98	105	P	16 00.71	0.1
HTW	1.02	5	P	15 59.96	-1.3
GL2	1.11	137	P	16 02.72	-0.1
SMW	1.12	299	P	16 01.77	-1.1
MXC	1.13	100	P	16 02.92	-0.1
HDW	1.17	318	P	16 02.07	-1.6
VLMM	1.25	184	P	16 04.02	-1.1
NLO	1.27	237	P	16 04.39	-1.2
VTG	1.33	82	P	16 06.31	-0.1
ETW	1.35	52	P	16 06.10	-0.8
BRVW	1.35	102	P	16 06.98	0.1
BVW	1.39	88	P	16 07.53	0.1
JCW	1.41	359	P	16 06.43	-1.2
BLN	1.42	330	P	16 06.08	-1.8
TDH	1.50	177	P	16 06.82	-2.2
KMOR	1.59	224	P	16 08.93	-1.3
WTV	1.61	55	P	16 10.87	0.3
CBSW	1.63	51	P	16 11.04	0.2
GT2	1.65	189	P	16 10.63	-0.5
NLW	1.68	39	P	16 12.10	0.5
EPH	1.68	69	P	16 11.73	0.2
RPW	1.69	9	P	16 11.14	-0.5
			S	16 33.08	
LOCW	1.70	91	P	16 12.82	1.0
CRF	1.73	88	P	16 12.89	0.7
VBEM	1.74	173	P	16 12.70	0.2
MJ2	1.77	96	P	16 13.48	0.8
MCW	2.00	342	P	16 16.04	-0.1
HBO	2.95	186	P	16 32.57	2.7

61 obs. associated

29d 04h

```
*  JUL  29, 1991  04h 16m 18.69± 0.95s
   36.744 N ±15.8km   31.229 E ±17.6km
   DEPTH = 116.8 ± 30.0 km
 TURKEY                                   (366)
      MD 4.1 (HLW).

ELL      1.06 271 iPg    16 40.70  -0.8
YER      2.39 280 iPn    16 58.70   1.1
IZM      3.56 299 ePn    17 14.00   0.9
KGT      4.81 321 ePn    17 29.00  -1.1
ADI      4.91 137 eP     17 31.70   0.2
ATZ      5.13 138 eP     17 35.80   1.2
                  eS     18 29.10
DSI      6.20 145 eP     17 49.00  -0.2
KOT      6.81 176 ePn    17 57.00  -0.5
                  eSn    19 04.50
MBH      7.60 155 eP     18 07.60  -0.7
     S.D. = 1.1   on   9 of   9 obs.
-----------------------------------------
%  JUL  29, 1991  05h 02m 45.79± 0.61s
   33.491 S ± 9.7km   70.829 W ±11.3km
   DEPTH =  70.0km  (geophysicist)
 CHILE-ARGENTINA BORDER REGION            (127)

TACH     0.19 209 iP     02 56.70   0.2
                  iS     03 06.00
PCH      0.29 116 iPd    02 57.50   0.3
                  iS     03 06.40
PEL      0.37  19 iPc    02 57.50  -0.2
                  iS     03 07.40
CHCH     0.47 162 iPd    02 58.40  -0.1
                  iS     03 08.90
ROCH     0.54 343 iPd    02 59.20  -0.2
                  iS     03 11.40
LCCH     0.62 271 iP     03 00.50   0.5
                  iS     03 12.50
LNV      0.67 226 iPc    03 00.00  -0.5
                  iS     03 12.00
     S.D. = 0.4   on   7 of   7 obs.
-----------------------------------------
*  JUL  29, 1991  07h 10m 30.81± 0.76s
   26.368 S ± 6.5km   27.449 E ±13.0km
   DEPTH =   5.0km  (geophysicist)
 REPUBLIC OF SOUTH AFRICA                 (584)
      mbLg 3.6 (BUL).

PRY      0.56 178 iPd    10 42.50   0.5
       0.8s   700.00nm
                  S      10 49.00
SEK      1.95 175 iPc    11 08.40   3.3X
                  S      11 32.70
FRS      3.86 209 iPd    11 31.30  -0.8
                  S      12 11.90
JOZ      4.27 106 iPc    11 59.00  21.0X
       0.5s    50.70nm
                  S      12 47.00
BUL      6.29  10 iPnd   12 07.20   0.5
                  iSn    13 16.10
                  iSg    13 49.00
CIR      6.54  36 iPn    12 15.20   5.1X
                  iSn    13 28.00
                  iSg    14 04.00
KRI      9.70  12 iPnd   12 55.00   0.7
                  iSn    14 36.50
                  iSg    15 34.00
CER      9.93 224 eP     12 51.00  -6.3X
       1.0s   230.00nm          6.6mb X
                  S      14 37.00
WIN     10.16 290 eP     12 59.90  -0.7
       1.0s    55.00nm          6.0mb X
                  S      14 46.00
MTD     10.29  23 iPn    13 00.50  -1.8
                  iSn    14 48.50
                  iLg    15 53.00
KIC     45.09 312 P      18 50.30   0.4
TIC     45.48 312 P      18 54.20   1.1
     S.D. = 1.1   on   8 of  12 obs.
-----------------------------------------
?  JUL  29, 1991  07h 12m 51.98± 3.32s
   6.160 S ±43.1km  146.608 E ±35.5km
   DEPTH = 168.4 ± 16.4 km
   5.0mb (  2 obs.)
 EAST PAPUA NEW GUINEA REGION             (207)

LAT      0.63 142 iPd    13 16.00  -0.3
                  eS     13 20.10
YYYY     0.64 263 eP     13 17.00   0.4
                  eS     13 46.80
PMG      3.27 171 eP     13 43.50  -0.5
                  eS     14 28.00
WR2     18.15 220 iPc    16 54.90   0.6
       0.5s    31.90nm          4.9mb
                  eS     20 20.40
RMO     20.32 174 iPc    17 18.00   1.3
ASPA    21.27 214 iPd    17 27.30   1.1
       0.3s    21.80nm          5.1mb
                  eS     21 25.90
WARB    27.56 222 iPc    18 24.80  -0.4
FORR    30.08 213 eP     18 45.40  -2.2
     S.D. = 1.5   on   8 of   8 obs.
-----------------------------------------
*  JUL  29, 1991  08h 20m 03.16± 0.83s
   51.105 N ±15.6km  176.180 W ± 9.0km
   DEPTH =  33.0km  (normal)
   4.8mb (  7 obs.)
 ANDREANOF ISLANDS, ALEUTIAN IS. (  7)

ADK      0.84 338 iPc    20 19.90   1.3
SVW     15.16  41 P      23 28.00  -8.2X
SLKM    17.25  47 P      24 02.20  -0.6
IMA     18.86  29 eP     24 24.00   1.3
FBA     20.17  36 eP     24 35.00  -2.2
PNT     35.48  70 eP     27 00.00   1.7
NEW     37.43  71 eP     27 15.20   0.5
       0.8s     9.17nm          4.7mb
BW06    44.81  74 eP     28 15.80   0.1
       0.6s     4.03nm          4.5mb
RSSD    47.33  69 eP     28 35.20  -0.4
GOL     49.18  74 eP     28 50.00   0.0
       0.8s     2.68nm          4.3mb
CVL     65.87  59 eP     30 48.20   0.8
NB2     68.05 356 P      30 58.50  -2.4
       0.8s     1.40nm          4.1mb
GUN     73.48 294 P      31 34.80   0.2
       0.5s    16.00nm          5.3mb
KKN     73.92 294 P      31 36.80  -0.1
       0.6s    13.00nm          5.1mb
PKI     74.01 294 P      31 37.20  -0.4
GKN     74.12 295 P      31 38.00   0.0
       0.6s    15.00nm          5.2mb
DMN     74.15 294 P      31 38.80   0.5
     S.D. = 1.2   on  16 of  17 obs.
-----------------------------------------
   JUL  29, 1991  08h 46m 16.68± 0.32s
   44.862 N ± 2.7km   7.232 E ± 3.7km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                           (545)
      ML 2.6 (GEN), 2.5 (LDG).

BHB      0.03 132 Pd     46 19.17   0.4
RSP      0.29   4 Pc     46 23.08   0.3
                  S      46 26.74
RRL      0.32 280 Pc     46 22.93  -0.5
                  S      46 26.43
DOI      0.36 178 P      46 24.00  -0.1
                  eSg    46 29.60
PZZ      0.37 195 Pd     46 24.05  -0.3
                  S      46 28.49
BNI      0.44 296 P      46 25.00  -0.7
                  eSg    46 30.60
LSD      0.60 355 P      46 28.51  -0.4
                  S      46 36.28
STV      0.62 174 Pc     46 28.17  -1.1
                  S      46 36.50
ENR      0.65 168 Pc     46 28.58  -1.2
                  S      46 37.46
LPG      0.72 332 Pg     46 30.40  -0.7
                  Sg     46 39.90
ROB      0.73 141 Pc     46 30.78  -0.3
                  S      46 40.79
LPL      0.74 332 Pg     46 30.90  -0.5
                  Sg     46 40.60
CKI      0.87 120 P      46 33.50   0.1
                  eSg    46 46.00
ORX      0.93  34 P      46 34.88   0.3
FIN      0.96 133 P      46 34.85  -0.1
                  S      46 47.27
PCP      0.99 108 Pd     46 35.97   0.5
                  S      46 48.30
SBF      1.01 172 Pg     46 35.10  -0.7
                  Sg     46 50.20
IMI      1.06 153 Pc     46 36.21  -0.5
                  S      46 48.79
FRF      1.37 198 Pg     46 42.70   0.9
                  Sg     47 00.30
LRG      1.54 204 Pg     46 45.00   0.8
                  Sg     47 07.00
LMR      1.61 199 Pg     46 47.30   2.0
                  Sg     47 08.40
SMF      2.97 308 Pn     47 05.50   0.8
AVF      3.33 307 Pn     47 10.50   0.7
     S.D. = 0.8   on  23 of  23 obs.
-----------------------------------------
*  JUL  29, 1991  09h 28m 02.73± 0.74s
   60.492 S ±12.1km   51.097 W ±21.5km
   DEPTH =  33.0km  (normal)
   5.0mb (  8 obs.)
 SCOTIA SEA                               (150)

SNA     21.87 137 iPd    32 55.00   1.1
       1.0s   166.00nm          5.4mb
SPA     29.67 180 iPd    34 07.80   0.5
       1.3s    35.83nm          5.0mb
PPD     38.43 360 eP     35 23.80   1.0
                  e      35 31.80
MAW     43.49 149 eP     36 05.40   1.6
       1.0s     9.00nm          4.5mb
LPB     45.59 337 eP     36 23.00   1.3
SOB1    51.74  13 (P)    37 08.00  -0.9
BUL     67.63  91 iPc    38 56.00  -2.4
       1.0s    10.50nm          4.9mb
MTD     71.96  92 iPc    39 24.30  -0.5
LIC     75.65  48 Pd     39 46.62   0.6
       0.6s    17.00nm          5.2mb
KIC     75.88  48 Pd     39 47.94   0.6
       0.6s    13.50nm          5.1mb
TIC     76.04  48 Pd     39 48.76   0.5
       0.8s    12.00nm          5.0mb
WRA     99.73 185 P      41 43.00  -1.6
       0.4s     1.70nm          4.9mb
YKA    131.84 326 ePKP   47 12.70   0.3
       0.7s     1.20nm
INK    141.47 324 ePKP   47 24.00  -6.2X
MBC    143.10 338 ePKP   47 30.00  -2.9X
FBA    144.14 314 ePKP   47 32.90  -2.0
       0.6s     1.28nm
     S.D. = 1.4   on  14 of  16 obs.
-----------------------------------------
   JUL  29, 1991  09h 37m 54.95± 1.37s
   33.440 S ± 6.5km   71.654 W ±11.4km
   DEPTH =  10.0km  (geophysicist)
 NEAR COAST OF CENTRAL CHILE              (135)

IHA      0.41   1 (P)    38 03.50   0.1
                  iS     38 07.60
LNV      0.55 159 iP     38 06.00  -0.2
                  iS     38 15.50
TACH     0.63 110 iPd    38 08.00   0.3
                  iS     38 19.20
SAN      0.83  91 eP     38 11.00   0.0
                  iS     38 24.60
PEL      0.86  70 iPd    38 11.10  -0.5
                  iS     38 24.50
CHCH     0.97 121 iPc    38 13.30  -0.1
                  iS     38 29.40
PCH      0.97 101 iP     38 13.80   0.4
                  iS     38 29.00
     S.D. = 0.4   on   7 of   7 obs.
-----------------------------------------
%  JUL  29, 1991  10h 04m 37.98± 3.34s
   39.578 N ±15.2km   15.156 E ±23.4km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN ITALY                           (390)

MGR      0.64  29 P      04 50.50  -0.3
                  eSg    04 59.70
MMN      0.72  64 P      04 52.20   0.2
                  eSg    05 01.00
CZI      0.84 115 P      04 54.10   0.0
                  eSg    05 06.20
CSI      0.90  77 P      04 55.20   0.0
                  eSg    05 06.40
SGO      0.99   7 P      04 56.80   0.1
                  eSg    05 11.20
     S.D. = 0.2   on   5 of   5 obs.
-----------------------------------------
   JUL  29, 1991  10h 06m 35.96± 0.47s
   23.844 N ± 6.2km  124.884 E ± 6.5km
   DEPTH =  33.0km  (normal)
   4.7mb ( 14 obs.)  3.9Msz (  1 obs.)
 SOUTHWESTERN RYUKYU ISLANDS              (246)
```

```
TWC      2.87 286 eP     07 22.20    1.8
                eS      07 54.20
TWD      3.02 275 eP     07 23.10    0.6
TWF1     3.33 262 ePc    07 26.20   -0.7
                eS      08 00.60
TWG      3.65 255 ePd    07 30.20   -1.3
SSE      7.93 336 ePn    08 30.30   -1.5
      Z  20s     2.00um
MAT     17.09  39 eP     10 36.00    2.1
XAN     17.25 310 P      10 37.20    1.2
TIY     17.45 325 eP     10 39.60    1.1
      Z  14s     0.70um
      E  13s     0.32um
BJI     17.74 338 eP     10 42.00    0.0
      Z  15s     0.58um
SNY     17.97 357 Pc     10 44.00   -0.8
      1.4s    70.00nm          4.6mb
CN2     19.91   1 eP     11 04.60   -3.0X
      Z  14s     0.30um
                epP      11 13.00   32kmX
HHC     20.31 330 eP     11 10.40   -1.5
      1.1s    30.00nm          4.6mb
      Z  14s     0.60um          4.1MszX
BTO     20.86 327 eP     11 16.00   -1.6
LZH     21.88 309 eP     11 27.50   -0.5
      1.0s    26.00nm          4.6mb
      Z  18s     0.44um          3.9Msz
GTA     26.27 312 Pc     12 09.00   -1.2
      1.0s    10.00nm          4.4mb
GUN     35.23 285 P      13 31.60    1.7
PKI     35.66 285 P      13 34.00    0.5
KKN     35.76 285 P      13 35.00    0.8
      0.8s    26.00nm          5.2mb
DMN     35.93 285 P      13 36.00    0.3
      0.7s    14.00nm          5.0mb
GKN     36.32 285 P      13 39.40    0.5
      0.8s    24.00nm          5.2mb
WRA     44.49 167 P      14 45.00   -1.1
      0.8s    10.30nm          4.7mb
WR2     44.50 167 iPc    14 45.80   -0.4
      0.8s    11.70nm          4.8mb
ASPA    48.03 169 iPd    15 14.20    0.1
      0.6s    10.90nm          5.1mb
WARB    49.76 178 iPd    15 28.00    0.6
INK     72.26  22 eP     17 59.00   -0.5
MBC     72.84  13 eP     18 03.50    0.7
KAF     73.11 331 eP     18 04.50   -0.1
      0.4s     2.00nm          4 5mb
HFS     79.49 332 eP     18 40.20   -0.3
      0.4s     1.10nm          4.2mb
      Z  16s     0.10um          4.3MszX
                LR       56 29.00
NB2     80.08 333 P      18 43.30   -0.4
      0.8s     5.20nm          4.6mb
YKA     81.94  24 eP     18 53.50    0.1
      0.8s     2.30nm          4.3mb
     S.D. = 1.1  on  29 of  30 obs.
-----------------------------------
*  JUL  29, 1991  10h 44m 09.60± 1.11s
    4.829 S ± 9.4km  153.098 E ± 9.7km
   DEPTH =  66.2 ± 13.1 km
   4.8mb (  4 obs.)
 NEW IRELAND REGION                (190)

RAB      1.12 304 iPd    44 29.00   -0.8
      0.6s  2480.00nm
                iS      44 48.00
LAT      6.33 253 eP     45 47.60    5.1X
PMG      7.45 232 eP     45 58.50    0.5
                eS      47 23.00
HNR      8.19 124 eP     46 09.00    0.8
                eS      47 43.00
GUA     19.98 336 eP     48 40.10    0.8
      0.9s   134.45nm          5.3mb
PJG     20.04 336 eP     48 40.00    0.0
DZM     21.47 144 iPd    48 53.20   -1.4
RMO     21.94 190 eP     49 15.00   15.9X
MTN     23.11 248 eP     49 11.00    0.4
      0.9s    56.00nm          5.0mb
WR2     23.63 229 iPc    49 15.80    0.0
      0.7s    19.70nm          4.7mb
                epP      49 21.50   20kmX
COO     25.64 182 eP     49 53.70   18.9X
ASPA    26.33 223 eP     49 42.30    1.0
      0.5s     6.90nm          4.5mb
WARB    33.03 227 eP     50 45.00    4.1X
MBL     36.13 240 eP     51 06.00   -1.4
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```
     S.D. = 1.1  on  10 of  14 obs.
-----------------------------------
?  JUL  29, 1991  11h 19m 59.68± 4.92s
    33.360 S ±12.4km   70.078 W ±32.7km
    DEPTH =  10.0km  (geophysicist)
 CHILE-ARGENTINA BORDER REGION     (127)

PCH      0.45 234 iPd    20 09.20    0.4
                iS      20 15.50
SAN      0.50 259 eP     20 09.50   -0.3
                iS      20 17.00
PEL      0.55 293 iPd    20 11.10    0.2
                iS      20 19.00
CHCH     0.75 220 iPd    20 14.20   -0.1
                iS      20 24.30
TACH     0.78 248 iPd    20 14.80    0.0
                iS      20 25.30
LNV      1.26 242 iPd    20 23.00   -0.1
                iS      20 39.00
     S.D. = 0.3  on   6 of   6 obs.
-----------------------------------
    JUL  29, 1991  11h 49m 10.74± 0.55s
    41.557 N ± 7.0km  142.062 E ±11.1km
    DEPTH =  78.1 ±  9.2 km
    4.2mb (  3 obs.)
 HOKKAIDO, JAPAN  REGION           (224)

MRRJ     1.14 320 iPd    49 30.70   -0.9
                eS      49 46.10
HOOJ     1.23  47 iP+    49 33.00    0.2
                S       49 50.20
AOMJ     1.62 233 eP     49 38.60    0.6
OFUJ     2.49 187 eP     49 50.30    0.4
                eS      50 22.30
KUSJ     2.50  51 eP     49 48.80   -1.1
                eS      50 17.70
ASAJ     2.59   9 eP     49 52.50    1.2
YAMJ     3.72 205 eP     50 08.80    1.8
NIIJ     4.92 210 eP     50 22.60   -1.2
KAKJ     5.54 196 eP     50 31.30   -1.2
                eS      52 10.00
MAT      5.84 212 eP     50 40.00    3.4X
                (S)     52 10.00
MTMJ     5.97 215 eP     50 38.40   -0.1
CHJJ     6.00 205 eP     50 41.90    3.1X
IIDJ     6.88 210 eP     50 56.70    5.6X
FBA     45.05  35 eP     57 20.90    0.9
      0.7s     6.40nm          4.6mb
WRA     61.60 188 P      59 22.00   -0.2
      0.7s     1.80nm          4.3mb
NB2     70.22 337 P      00 16.20   -0.6
      0.8s     0.80nm          3.7mb
     S.D. = 1.1  on  13 of  16 obs.
-----------------------------------
?  JUL  29, 1991  12h 07m 09.62±21.15s
    42.151 N ±137.km  125.637 W ±98.0km
    DEPTH =  10.0km  (geophysicist)
 OFF COAST OF OREGON               ( 30)

LVP      4.55  30 P      08 20.67    0.5
MTMW     4.59  31 P      08 20.18   -0.6
BMW      4.66  21 P      08 21.40   -0.3
FL2      4.68  29 P      08 21.96   -0.2
JLK      4.72  31 P      08 22.27   -0.3
CDFW     4.73  32 P      08 22.39   -0.3
ESD      4.76  31 P      08 23.89    0.7
STD      4.77  30 P      08 23.25    0.0
ERK      4.78  29 P      08 23.57    0.1
SOSW     4.80  30 P      08 23.79    0.1
CZM      4.84  27 P      08 23.72   -0.5
TDL      4.86  29 P      08 24.80    0.1
VGB      4.86  45 P      08 24.61    0.0
ASR      4.94  35 P      08 25.76    0.0
KOSW     4.97  29 P      08 26.23    0.2
LMW      5.11  27 P      08 29.00    0.9
GLK      5.27  32 P      08 30.21   -0.2
JBO      5.34  50 P      08 31.47    0.1
LON      5.35  29 P      08 31.22   -0.3
REMR     5.40  29 P      08 32.17   -0.1
WPW      5.41  31 P      08 31.89   -0.4
RVC      5.46  27 P      08 33.60    0.6
FMW      5.56  29 P      08 34.52    0.0
GSM      5.75  27 P      08 37.36    0.3
RMW      5.97  26 P      08 40.04   -0.1
JCW      6.58  22 P      08 48.62   -0.2
     S.D. = 0.4  on  26 of  26 obs.
-----------------------------------
```

```
    JUL  29, 1991  12h 15m 59.53± 0.29s
    42.133 N ± 5.5km   20.591 E ± 3.8km
    DEPTH =   5.0km  (geophysicist)
 YUGOSLAVIA                        (383)
     ML 3.4 (SKO), 2.9 (TTG).

PVY      0.65 315 iPgd   16 12.33   -0.2
                iSg     16 22.13
SKO      0.65 104 iPgc   16 12.00   -0.6
                iSg     16 21.00
                Lg      16 23.00
IVA      0.90 325 iPgd   16 17.03   -0.2
                iSg     16 30.46
ULC      1.01 261 iPgd   16 19.06   -0.1
                iSg     16 34.23
TTG      1.03 287 iPgd   16 18.71   -0.7
                iSg     16 34.86
BDV      1.32 277 iPgd   16 24.33   -0.1
                iSg     16 44.35
NKY      1.36 300 iPgd   16 24.95   -0.3
                iSg     16 45.21
FNA      1.47 156 ePc    16 26.06   -0.7
                eS      16 46.26
PLE      1.49 324 iPgc   16 26.73   -0.3
                iSg     16 48.56
HCY      1.58 282 iPgd   16 28.43    0.1
                iSg     16 50.83
VAY      1.69 118 ePn    16 30.50    0.7
BRY      1.70 298 iPnd   16 30.91    0.8
                iSn     16 54.11
GRG      1.80 130 ePc    16 32.42    1.0
KNT      1.98 119 iPd    16 34.34    0.2
                iS      17 00.30
SOH      2.45 121 ePc    16 40.98    0.0
SRS      2.47 113 ePc    16 41.10    0.0
LIT      2.49 144 ePc    16 41.38    0.0
                eS      17 12.94
PAIG     3.21 132 ePd    16 50.98   -0.6
HVAR     3.23 290 iPn    16 52.90    1.0
                eSn     17 32.60
AGG      3.38 156 ePd    16 53.86   -0.2
     S.D. = 0.6  on  20 of  20 obs.
-----------------------------------
*  JUL  29, 1991  12h 43m 05.22± 0.72s
    73.277 N ± 9.9km    6.504 E ±13.2km
    DEPTH =  10.0km  (geophysicist)
    4.4mb ( 16 obs.)
 GREENLAND SEA                     (640)

TRO      5.39 127 eP     44 25.19   -2.3
                eS      45 18.77
LOF      5.67 152 eP     44 28.70   -2.7
                eS      45 27.08
DAG      7.37 310 eP     44 54.00   -1.3
      0.7s    13.01nm          5.2mb X
                e       46 07.50
MOR7     7.57 154 eP     44 55.99   -2.2
                eS      46 10.35
NSS      9.00 165 eP     45 14.71   -3.3X
MOL     10.77 177 iP     45 38.34   -3.9X
KAF     13.38 137 eP     46 13.10   -4.3X
      0.6s     5.50nm          4.8mb
HFS     13.49 164 eP     46 15.20   -3.6X
      0.4s     3.60nm          4.7mb
      Z  17s     0.28um          4.8MszX
                LR      49 55.00
NUR     14.55 142 eP     46 28.90   -3.8X
      0.7s    10.20nm          4.5mb
EKA     18.45 198 P      47 21.00   -1.2
      0.9s     3.30nm          3.5mb
OBN     21.99 130 eP     48 03.00    2.4
      2.0s  *******nm          7.9mb X
                i       48 08.00
CLL     22.23 169 iP     48 04.20    1.2
                i       48 09.10
BRG     22.72 168 eP     48 08.20    0.3
      1.2s    13.00nm          4.3mb
                e       48 17.60
MOX     22.82 172 eP     48 10.50    1.6
      1.0s    17.00nm          4.5mb
KSP     22.91 164 ePc    48 11.10    1.3
PRU     23.64 167 ePd    48 17.50    0.7
KRA     24.03 158 eP     48 21.50    0.8
                e       48 27.70
KHC     24.43 169 eP     48 06.50  -18.1X
                e       48 28.00
SPC     24.92 158 eP     48 30.60    1.1
```

29d 12h

```
CDF     24.95 179 eP     48 31.20   1.5
        0.9s      6.55nm          4.3mb
ZST     25.61 163 eP     48 36.20   0.4
LOR     26.12 184 eP     48 41.90   1.3
        1.0s     16.00nm          4.7mb
SSF     26.34 185 eP     48 43.10   0.6
        1.1s      7.35nm          4.3mb
LBF     26.40 184 eP     48 42.60  -0.6
        1.1s      9.75nm          4.4mb
AVF     26.61 185 eP     48 44.70  -0.3
        1.0s      8.00nm          4.4mb
SMF     26.75 184 eP     48 46.50   0.2
BGF     26.86 186 eP     48 46.70  -0.6
        0.9s      9.85nm          4.5mb
TCF     27.15 187 eP     48 49.40  -0.6
        1.1s      9.75nm          4.4mb
MAF     27.20 186 eP     48 49.80  -0.7
        0.9s      6.55nm          4.3mb
LSF     27.21 188 eP     48 49.70  -0.8
        1.1s     12.20nm          4.5mb
INK     36.29 336 eP     50 10.00   0.1
FFC     43.41 307 eP     51 09.00   0.0
        0.9s      8.00nm          4.5mb
SES     49.48 312 eP     51 57.00   0.0
     S.D. = 1.3  an  27 of  33 obs.
-----------------------------------
%  JUL  29, 1991  12h 43m 13.98± 4.09s
   43.845 N ±20.8km    7.114 E ±20.9km
   DEPTH =  10.0km  (geophysicist)
 NEAR SOUTH COAST OF FRANCE        (379)

STV      0.43  21 P      43 22.55  -0.2
                  S      43 30.44
ENR      0.44  30 P      43 23.16   0.2
                  S      43 31.16
IMI      0.56  83 P      43 25.32  -0.2
PZZ      0.66 359 P      43 27.37   0.1
                  S      43 38.03
ROB      0.71  50 P      43 28.50   0.5
                  S      43 39.36
FIN      0.87  65 P      43 31.16   0.4
                  S      43 43.57
PCP      1.24  55 P      43 36.70  -0.4
     S.D. = 0.4  an   7 of   7 obs.
-----------------------------------
   JUL  29, 1991  13h 07m 53.35± 0.45s
   52.528 N ± 8.6km  167.148 W ± 6.1km
   DEPTH =  33.0km  (normal)
   4.2mb ( 12 obs.)
 FOX ISLANDS, ALEUTIAN ISLANDS     ( 9)

SDN      4.84  52 eP     09 06.00   0.4
ADK      5.90 268 eP     09 21.50   0.8
SVW     10.65  32 P      10 29.50   2.8X
SLKM    12.27  43 P      10 48.60   0.1
TOA     14.77  41 eP     11 20.50  -1.0
IMA     15.17  21 eP     11 34.10   7.5X
        0.9s     12.60nm          4.2mb
FBA     15.87  31 eP     11 35.30  -0.2
        0.6s      3.94nm          3.7mb
BALM    15.95  48 P      11 34.80  -1.9
INK     22.47  33 eP     12 50.00  -0.5
YKA     29.11  49 eP     13 54.30   1.6
        0.8s      1.70nm          3.8mb
MBC     29.90  21 eP     14 01.50   1.9
NEW     31.65  77 eP     14 14.50  -0.9
        0.8s      7.08nm          4.6mb
BONR    36.61  94 eP     14 59.20   0.8
TNP     37.19  93 eP     15 03.00  -0.2
        0.7s      5.00nm          4.5mb
ISA     38.00  97 eP     15 10.00   0.2
CLC     38.43  96 eP     15 14.00   0.6
BW06    39.03  81 eP     15 18.00  -0.6
        0.5s      1.67nm          4.1mb
SBB     39.05  97 eP     15 20.00   1.4
GSC     39.25  96 eP     15 20.00  -0.4
TPC     40.52  96 eP     15 31.00   0.2
PLM     40.54  98 eP     15 31.50   0.4
MAT     41.06 269 eP     15 35.00  -0.1
GOL     43.40  82 eP     15 54.50   0.0
        0.7s      3.28nm          4.2mb
GLD     43.46  81 e(P)   15 56.00   1.1
ALQ     45.81  88 eP     16 13.00  -0.8
        1.0s      1.75nm          3.9mb
NB2     66.78   1 P      18 43.70   0.6
        0.7s      0.90nm          4.0mb
HFS     67.69 360 eP     18 49.00   0.2
        0.4s      2.50nm          4.7mb
GAR     76.11 317 eP     19 40.60   1.3
BDI     83.77   2 P      20 18.00  -2.2
                  eSg    20 19.80
WRA     88.18 233 P      20 41.00  -1.0
        0.7s      3.80nm          4.8mb
ASPA    91.55 232 eP     20 56.00  -1.7
        0.8s      5.20nm          5.0mb
     S.D. = 1.1  on  29 of  31 obs.
-----------------------------------
   JUL  29, 1991  13h 18m 28.70± 0.56s
   41.531 N ± 5.7km  142.768 E ± 9.5km
   DEPTH =  55.3 ±  8.5 km
   4.1mb (  4 obs.)
 HOKKAIDO, JAPAN  REGION           (224)

HOOJ     0.94  24 iPd    18 45.50  -0.3
                  eS     18 58.50
MRRJ     1.55 306 iP+    18 53.10  -1.2
                  eS     19 12.40
AOMJ     2.05 243 P      19 01.50   0.1
                  S      19 26.80
KUSJ     2.13  42 iPd    19 02.20  -0.2
                  eS     19 27.90
ASAJ     2.59 358 P      19 10.20   1.3
OFUJ     2.59 199 P      19 08.50  -0.4
                  S      19 42.20
YAMJ     3.96 213 P      19 28.90   0.6
NIIJ     5.18 215 P      19 46.70   1.1
KAKJ     5.69 202 P      19 51.30  -1.4
                  eS     20 55.50
MAT      6.12 217 eP     19 59.00   0.3
CHJJ     6.22 210 P      19 59.20  -0.8
MTMJ     6.27 220 P      20 02.10   1.2
IIDJ     7.14 214 eP     20 12.90  -0.1
FBA     44.77  35 eP     26 38.70   0.6
        0.6s      7.39nm          4.7mb
                  e      31 46.50
YKA     59.42  32 eP     28 27.30  -0.1
        0.6s      0.90nm          4.1mb
HFS     70.43 336 eP     29 38.20  -0.4
        0.3s      0.70nm          4.1mb
NB2     70.45 337 P      29 38.50  -0.3
        0.7s      0.80nm          3.8mb
     S.D. = 0.9  on  17 of  17 obs.
-----------------------------------
?  JUL  29, 1991  13h 25m 40.30± 3.13s
   27.058 S ±18.0km  178.303 W ±23.8km
   DEPTH = 340.1 ± 26.5 km
   4.1mb (  2 obs.)
 KERMADEC ISLANDS REGION           (177)

HBZ     10.89 194 eP     28 09.40  -0.5
PUZ     11.36 194 eP     28 15.30  -0.3
                  eS     30 22.20
WLZ     11.92 204 eP     28 27.70   5.4X
NOZ     11.93 194 eP     28 22.80   0.4
PGZ     14.25 197 eP     28 49.70   0.0
MNG     14.47 199 eP     28 50.30  -1.9
                  eS     31 27.60
DZM     14.74 286 iPc    28 56.10   0.9
KIW     14.87 200 eP     28 56.60   0.2
CAW     15.04 200 eP     28 57.80  -0.5
MRW     15.27 200 eP     29 01.10   0.4
WEL     15.30 200 eP     29 03.00   2.0
                  S      31 47.00
TCW     15.39 202 eP     29 00.80  -1.2
KHZ     16.71 201 eP     29 16.10   0.2
MOZ     18.15 201 eP     29 32.10   1.5
ASPA    43.12 264 iPd    33 10.80   0.8
        0.4s      6.40nm          4.2mb
WRA     43.80 269 P      33 13.00  -2.3
        0.4s      4.50nm          4.1mb
FORR    46.68 252 eP     33 37.80   0.1
NB2    145.42 352 PKP    44 38.80   0.0
        0.9s      5.80nm
HFS    145.92 349 ePKP   44 39.70   0.1
        0.5s      7.20nm
EKA    151.53   6 PKP    44 55.00   6.6X
        0.4s      1.20nm
     S.D. = 1.2  on  18 of  20 obs.
-----------------------------------
   JUL  29, 1991  13h 52m 39.81± 0.19s
   14.220 S ± 3.9km   73.945 W ± 4.4km
   DEPTH =  96.0km  ( 13 depth phases)
   5.5mb ( 54 obs.)
 PERU                              (116)
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Felt (IV) at Nazca and Pisca.

```
CENTROID, MOMENT TENSOR     (HRV)
Data Used: GDSN
L.P.B.: 17S, 32C
Centraid Location:
Origin Time        13:52:45.9 0.6
Lat 14.26S 0.04 Lon  73.67W 0.07
Dep 114.3 1.8 Half-duration  1.9
Moment Tensor;    Scale 10**17 Nm
  Mrr=-1.01 0.06  Mtt= 0.62 0.09
  Mff= 0.39 0.12  Mrt=-0.34 0.05
  Mrf= 0.52 0.05  Mtf= 1.34 0.08
 Principal Axes:
  T  Val=  1.85  Plg= 2  Azm=317
  N       -0.30      41      225
  P       -1.55      49       50
Best Double Couple:Mo=1.7*10**17
 NP1:Strike= 81 Dip=56 Slip= -38
 NP2:       194      60      -139

ARE      3.25 134 iPc    53 29.50  -0.5
                  eS     53 57.00
NNA      3.59 308 iPc    53 32.70  -1.7
        0.4s    677.97nm
                  iS     54 02.00
PT10     3.64 306 iPd    53 33.00  -2.0
                  eS     54 18.50
LPB      6.09 113 iPc    54 10.00   0.6
CCH      8.14 114 Pc     54 37.00  -0.4
ANT     10.01 161 eP     54 57.50  -4.9X
QUR     14.68 342 P      56 05.10   0.8
PSO     15.67 347 eP     56 15.50  -1.4
BOG     18.72 360 eP     56 57.00   2.8
                  iS     00 26.00
PEL     19.07 172 eP     56 56.00  -1.5
SAN     19.38 172 iPc    57 01.50   0.8
TACH    19.54 172 eP     57 02.50   0.1
FUQ     19.56   1 eP     57 04.00   0.9
PCH     19.56 171 eP     57 01.50  -1.2
LNV     19.78 174 eP     57 03.00  -1.9
ITB1    21.13 122 e(P)   57 19.00   0.3
ITB     21.34 123 Pd     57 21.00   0.2
ITB7    21.52 123 e(P)   57 22.50  -0.1
PPD     22.85 113 iPd    57 35.70   0.0
                  e      57 41.10  19kmX
                  e      57 56.00
                  e      58 19.00
BAO     25.11  97 ePd    57 56.00  -1.5
VAO     26.98 113 eP     58 13.30  -1.3
                  e      58 31.30  78kmX
TPP     27.35  28 eP     58 17.92   0.1
TRN     27.66  27 eP     58 19.25  -1.4
BMA     29.44 111 iPc    58 36.50  -0.3
                  e      58 42.00  19kmX
                  e      58 43.60
SOB1    32.72  85 iPd    59 03.60  -2.0
                  e      59 26.60 101km
BLA     51.52 353 iPc    01 37.00  -0.8
        0.7s     22.22nm          5.3mb
CBN     52.24 357 iP     01 42.70  -0.5
TUL     53.97 338 ePc    01 55.00  -1.0
        1.0s     48.40nm          5.5mb
     Z  20s      0.14um          4.0Msz
                  eS     09 40.00
                  e      14 56.00
                  LR     20 26.00
MEO     54.06 335 iPd    01 55.50  -1.2
FVM     54.18 344 iPd    01 55.50  -2.0
        0.5s    384.88nm          6.7mb X
TBR     55.08 360 iPc    02 03.00  -0.9
ALQ     57.81 329 eP     02 22.20  -1.6
        1.0s     10.75nm          4.8mb
GLD     61.08 333 e(P)   02 46.50   0.3
GLA     61.10 321 eP     02 49.00   2.8
                  e      03 10.00  82kmX
GOL     61.11 333 iPd    02 45.30  -1.1
BAR     61.99 320 eP     02 54.00   1.8
                  e      03 16.00  86km
PLM     62.56 320 eP     03 00.00   3.9X
                  e      03 23.00  91km
TPC     62.56 321 eP     02 56.00   0.0
                  e      03 21.00 100km
RVR     63.30 320 eP     03 04.00   3.2X
                  e      03 25.00  82kmX
GSC     63.83 322 eP     03 04.00  -0.3
                  e      03 29.00 100km
MWC     63.88 320 eP     03 07.00   2.2
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                e     03 30.00  90km
PAS   63.90 320 eP    03 17.00  12.3X
                e     03 30.00  45kmX
SBB   64.04 321 eP    03 05.00  -0.7
                e     03 30.00 100km
RSSD  64.22 336 iPd   03 06.00  -0.9
      0.6s    43.78nm          5.6mb
CLC   64.65 322 eP    03 10.00   0.4
                e     03 34.00  95km
ISA   65.08 321 eP    03 13.00   0.6
                e     03 37.00  95km
CWC   65.36 322 eP    03 14.00  -0.3
                e     03 38.00  95km
BW06  65.46 332 iPd   03 13.50  -1.4
TNP   65.97 324 iPd   03 18.50   0.3
      0.7s    26.67nm          5.3mb
SCH   69.03   4 ePd   03 35.40  -1.4
      1.1s   101.00nm          5.6mb
LRM   69.13 332 eP    03 37.90   0.0
ORV   69.44 322 iPc   03 41.00   1.4
SNA   70.53 160 iPc   03 46.00   0.2
      0.9s    31.93nm          5.2mb
LIC   71.31  78 P     03 49.48  -1.9
      1.0s   131.50nm          5.7mb
    Z  20s     0.11um          4.1Msz
TIC   71.44  78 Pd    03 50.06  -2.2
      1.1s    78.00nm          5.5mb
KIC   71.62  78 P     03 51.46  -1.8
      0.8s   174.50nm          5.9mb
SES   72.09 336 ePd   03 54.80  -0.7
      1.2s    91.00nm          5.5mb
                pP    04 06.00  37kmX
FFC   72.68 343 ePd   03 57.70  -1.1
      0.9s    23.00nm          5.0mb
NEW   73.08 331 eP    04 01.20  -0.1
      1.2s     7.58nm          4.4mb X
PNT   75.00 331 eP    04 13.00   0.7
NVL   75.29 160 Pc    04 14.00   0.3
                e     04 44.00 118kmX
                e     04 51.00
SPA   75.87 180 iPd   04 17.70   0.4
      1.2s    56.34nm          5.3mb
                i     04 42.90  97km
FRB   77.83   2 eP    04 27.00  -0.7
TIO   78.17  54 iPd   04 31.50   0.9
AVE   79.04  51 iPd   04 36.00   0.9
IFR   80.88  52 iPd   04 46.00   0.9
EVAL  81.35  48 eP    04 48.00   0.7
EPRU  82.19  49 eP    04 52.87   1.2
EHOR  82.53  48 eP    04 53.95   0.6
YKA   82.80 342 eP    04 54.20   0.0
      0.9s    30.70nm          5.2mb
EPLA  82.88  46 eP    04 55.89   0.7
ERUA  83.16  43 eP    04 57.00   0.4
EMON  83.50  42 eP    04 58.82   0.5
ECOG  83.54  49 eP    04 59.53   0.8
AFC   83.54  49 eP    04 59.33   0.5
EBAN  83.73  48 eP    05 00.55   1.0
ENIJ  84.42  50 eP    05 02.67  -0.3
EHUE  84.46  49 eP    05 03.50   0.2
GUD   84.46  46 eP    05 04.25   1.0
EVIA  84.84  48 eP    05 05.90   0.7
ETOR  86.00  46 eP    05 11.62   0.8
ECRI  86.37  45 eP    05 13.49   0.9
EROQ  87.73  47 eP    05 19.73   0.6
EBR   87.79  47 eP    05 20.00   0.6
EPF   88.47  45 eP    05 22.90   0.2
      1.1s    29.30nm          5.3mb
LPF   89.40  40 eP    05 26.40  -0.5
      1.0s    32.00nm          5.4mb
LFF   89.42  43 eP    05 26.60  -0.5
      0.8s    34.90nm          5.6mb
MFF   89.44  41 eP    05 26.70  -0.4
      0.8s    13.45nm          5.1mb
LPO   89.63  44 eP    05 27.70  -0.4
      0.8s    26.85nm          5.4mb
GRR   89.65  40 eP    05 27.50  -0.5
      1.0s    36.00nm          5.5mb
FLN   90.02  39 eP    05 29.40  -0.4
      1.0s    48.00nm          5.6mb
    Z  22s     0.05um          3.9Msz
RJF   90.06  43 eP    05 29.50  -0.6
      0.8s    21.50nm          5.4mb
    Z  21s     0.13um          4.3Msz
LDF   90.18  40 eP    05 30.00  -0.5
      1.0s    36.00nm          5.5mb
CAF   90.30  44 eP    05 31.00  -0.2
      0.9s    27.85nm          5.4mb
LSF   90.40  42 eP    05 31.00  -0.6
      0.9s    19.65nm          5.3mb
TCF   90.86  42 eP    05 33.10  -0.6
      0.9s    13.90nm          5.2mb
FRS   90.88 121 iPc   05 34.00  -0.2
      0.7s    37.67nm          5.7mb
EKA   91.03  33 Pc    05 34.30   0.1
      1.3s    32.10nm          5.4mb
MAF   91.07  42 eP    05 34.10  -0.6
      0.9s    16.40nm          5.3mb
BGF   91.36  42 iPd   05 35.90  -0.1
      0.9s    32.75nm          5.6mb
AVF   91.77  42 eP    05 37.20  -0.6
      1.0s    11.00nm          5.1mb
SSF   91.95  42 eP    05 37.90  -0.8
      1.3s    25.25nm          5.4mb
SMF   92.04  42 eP    05 38.60  -0.5
      1.1s    35.40nm          5.6mb
LBF   92.23  42 eP    05 39.10  -1.0
LOR   92.25  42 eP    05 39.20  -0.9
      1.3s    25.25nm          5.4mb
    Z  22s     0.08um          4.1Msz
INK   92.52 341 ePd   05 40.60  -0.3
                pP    06 06.00  94km
MAW   92.61 165 eP    05 42.00   0.5
      1.0s    37.00nm          5.7mb
LRG   92.77  46 eP    05 42.70   0.2
      1.4s    52.30nm          5.7mb
LMR   92.84  46 eP    05 42.90   0.0
      1.3s    43.30nm          5.6mb
FRF   93.00  46 eP    05 43.70   0.1
      1.4s    52.30nm          5.7mb
SEK   93.23 120 iPc   05 47.80   2.5
      1.3s    38.46nm          5.6mb
SNF   93.53  39 Pd    05 45.50  -0.3
DOU   93.59  39 Pc    05 46.20   0.1
      0.9s    40.00nm          5.8mb
LPL   93.62  44 iPd   05 47.10   0.4
      0.9s    19.65nm          5.5mb
LPG   93.63  44 iPd   05 47.20   0.4
      0.9s    22.95nm          5.6mb
HAU   94.07  42 eP    05 48.10  -0.4
      1.3s    21.65nm          5.4mb
    Z  20s     0.08um          4.1Msz
MBC   94.25 350 eP    05 49.50   0.8
      1.0s    25.00nm          5.6mb
BSF   94.31  42 eP    05 49.00  -0.7
      1.3s    21.65nm          5.4mb
PGF   94.38  47 eP    05 50.00  -0.1
      0.7s     6.60nm          5.2mb
WLF   94.43  40 P     05 51.00   1.0
MEM   94.61  39 P     05 51.20   0.4
CDF   94.78  41 eP    05 51.20  -0.6
      1.3s    28.90nm          5.5mb
BUL   96.58 113 iPd   06 02.00   1.3
      1.0s    32.50nm          5.8mb
WTTA  97.34  43 iPd   06 03.90   0.3
      1.2s    41.40nm          5.8mb
                i     06 04.20   1kmX
GRF   97.62  41 eP    06 05.00   0.5
      1.2s    28.00nm          5.7mb
MOX   98.07  40 eP    06 07.20   0.6
      1.8s    25.00nm          5.4mb
KHC   99.01  42 iP    06 10.50  -0.4
CLL   99.07  39 iPd   06 11.70   0.7
      1.5s    25.00nm          5.6mb
BRG   99.57  40 iP    06 13.80   0.5
      1.2s    26.00nm          5.7mb
                e     06 42.00 106km
PRU   99.78  41 P     06 15.00   0.7
NB2   99.99  30 P     06 14.70  -0.4
      1.3s    10.60nm          5.3mb
KSP  101.03  40 ePdiff06 20.00   0.0
ZST  101.14  43 ePdiff06 21.10   0.6
                e     10 24.20
STK  122.89 216 ePKP  11 26.90   0.2
      0.7s     1.30nm
MAIO 133.04  53 ePKP  11 47.00   0.8
                e     14 17.00
WR2  136.09 220 iPKPd 11 52.40   0.1
      0.7s    13.80nm
WRA  136.10 220 PKP   11 52.00  -0.3
      0.7s    12.50nm
QUE  140.69  60 ePKP  11 55.30  -5.4X
MAT  143.70 314 ePKP  12 02.00  -3.5X
CN2  146.17 334 ePKP  12 08.60  -0.9
                ePPKP 12 34.00
WMQ  146.58  24 PKP   12 11.00   0.8
    Z  40s     1.03um          5.3MszX
                sPKP  12 38.50
                PP    15 40.00
SNY  148.57 334 PKPc  12 16.20   2.9X
NDI  149.65  57 ePKP  12 16.50   1.1
KOD  151.79  95 ePKP  12 27.00   7.6X
GBA  152.22  88 PKPd  12 19.80   0.2
      1.0s    14.30nm
BJI  152.79 343 ePKP  12 26.50   6.8X
      1.0s    24.00nm
                e     12 56.00
HHC  153.04 351 ePKP  12 21.50   1.3
BTO  153.49 353 ePKP  12 21.60   0.8
GTA  154.31  11 PKPd  12 23.00   1.0
                PP    16 15.00
TIY  155.92 34B ePKP  12 24.20   0.0
TIA  155.96 338 PKP   12 24.90   0.7
LZH  15B.13   5 ePKP  12 28.00   0.9
XAN  160.10 353 PKP   12 30.40   1.3
SHL  162.55  48 iPKP  12 32.50   0.5
CHG  171.79  55 ePKP  12 39.20   0.6
CHTO 171.79  55 ePKP  12 39.20   0.6
      1.0s     7.75nm
    S.D. = 0.9  on 147 of 156 obs.
-----------------------------------
%  JUL  29, 1991  13h 53m 18.33± 0.60s
   44.389 N ± 5.1km    7.402 E ± 5.6km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                    (545)
      ML 1.9 (GEN).

STV     0.16 201 P     53 22.10   0.1
                S     53 24.25
ENR     0.16 175 P     53 22.00  -0.1
                S     53 24.06
PZZ     0.24 298 P     53 23.64   0.0
                S     53 27.43
ROB     0.35 105 P     53 25.89   0.3
                S     53 31.02
BHB     0.46 348 P     53 27.61  -0.1
IMI     0.59 144 P     53 29.99  -0.4
FIN     0.61 107 P     53 30.51  -0.1
    S.D. = 0.3  on   7 of   7 abs.
-----------------------------------
%  JUL  29, 1991  14h 41m 03.21± 0.63s
   39.351 N ± 5.4km   28.948 E ± 7.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      MD 2.9 (ISK).

KHL     1.12 156 ePn   41 24.20  -0.1
YLV     1.26  15 iPn   41 26.50  -0.1
EDC     1.30 320 ePn   41 27.00  -0.2
EYL     1.53  37 iPn   41 31.00   0.3
HRT     1.57  20 iPn   41 31.00  -0.2
IZM     1.62 235 ePn   41 32.00   0.0
KGT     1.68 312 ePn   41 33.00   0.3
    S.D. = 0.3  on   7 of   7 abs.
-----------------------------------
?  JUL  29, 1991  15h 43m 34.90±10.09s
   42.870 N ±27.4km   14.162 W ±80.2km
   DEPTH =  33.0km  (normal)
 NORTH ATLANTIC OCEAN              (402)
      mbLg 4.0 (MDD).

EZAM    4.11  98 iP    44 37.68   0.8
                eS    45 24.10
STS     4.12  88 iP    44 37.68   0.5
                eS    45 23.90
EMON    5.03  81 iP    44 49.37  -0.7
                eS    45 44.60
ERUA    5.20  93 iP    44 52.45   0.0
                eS    45 50.40
EPLA    6.69 112 iP    45 13.00  -0.4
                eS    46 26.70
EVAL    7.75 130 iP    45 28.53   0.3
                eS    46 51.70
GUD     7.81 103 iP    45 29.38   0.2
                eS    46 53.00
EHOR    8.47 124 iP    45 36.99  -1.2
                eS    47 08.50
ECRI    8.58  88 eP    45 39.38  -0.5
                eS    47 10.90
EPRU    9.04 128 eP    45 45.41  -0.8
                eS    47 22.60
```

29d 15h

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EBAN     9.19 117 eP     45 47.29  -0.9
                 eS     47 26.90
ETOR     9.27  99 eP     45 49.59   0.3
EJIF     9.27 131 eP     45 50.59   1.3
                 eS     47 30.10
EVIA     9.80 112 iP     45 55.90  -0.8
                 eS     47 43.20
ECOG     9.85 121 eP     45 56.40  -1.0
                 eS     47 42.40
AFC      9.88 121 iP     45 57.95   0.1
                 eS     47 43.80
EGUA    10.13 123 eP     46 01.64   0.5
                 eS     47 49.50
ENIJ    10.90 119 eP     46 12.74   1.0
                 eS     48 11.00
EROO    11.06  96 eP     46 14.65   0.8
                 eS     48 12.00
ACU     11.31 108 eP     46 17.88   0.6
                 eS     48 19.40
ETER    12.56  87 eP     46 33.72  -0.3
     S.D. = 0.8  on  21 of  21 obs.
-----------------------------------------
*  JUL  29, 1991  15h 47m 08.39± 1.35s
   32.628 S ±15.3km   69.335 W ±23.1km
   DEPTH =  33.0km  (normal)
 MENDOZA PROVINCE, ARGENTINA       (139)

RTBS     0.97 354 ePc    47 26.10   0.5
PEL      1.25 245 iPc    47 29.50  -0.1
                 iS     47 46.60
PCH      1.40 225 iP     47 32.70   0.8
                 iS     47 54.00
RTLL     1.49  30 iPd    47 32.80  -0.4
                 S      47 53.50
TACH     1.69 232 iPd    47 34.80  -1.2
                 iS     47 57.50
CHCH     1.71 220 iPc    47 36.80   0.5
                 iS     48 00.10
LNV      2.18 232 iP     47 40.00  -3.1X
                 iS     48 06.00
     S.D. = 1.0  on   6 of   7 obs.
-----------------------------------------
   JUL  29, 1991  15h 48m 08.84± 0.31s
   30.269 N ± 5.4km   94.793 E ± 4.2km
   DEPTH =  33.0km  (normal)
   4.7mb ( 18 obs.)
 TIBET                              (306)

LSA      3.21 261 P      48 59.40   0.8
                 pP     49 05.50
SHL      5.34 209 eP     49 29.00   0.4
CD2      7.76  83 eP     50 04.00   1.7
GUN      8.14 255 P      50 07.86  -0.2
       0.4s    58.00nm          6.0mb X
PKI      8.65 254 P      50 13.90  -1.1
KKN      8.69 256 P      50 13.68  -1.7
       0.7s    71.00nm          5.9mb X
KMI      8.71 124 Pd     50 14.50  -1.2
DMN      8.89 255 P      50 17.18  -1.1
       0.7s    54.00nm          5.8mb X
GKN      9.16 258 P      50 19.20  -2.7X
LZH      9.55  50 eP     50 28.00   0.8
       2.0s    39.00nm          5.3mb
     Z  10s     0.53um          3.3MszX
GTA     10.01  23 eP     50 30.00  -3.5X
     Z  10s     0.60um
GYA     11.12 107 P      50 46.20  -2.5
       1.0s    20.00nm          5.3mb
CHG     12.01 161 eP     51 01.30   0.6
CHTO    12.01 161 eP     51 01.40   0.7
       1.2s     8.68nm          4.8mb
XAN     12.55  69 P      51 04.70  -3.2X
WMO     14.66 339 eP     51 35.40  -0.2
BTO     16.11  46 eP     51 56.00   1.6
                 esP    52 08.00
TIY     16.39  58 eP     51 57.00  -1.1
     Z  13s     0.72um
     E  11s     0.38um
HHC     17.22  48 eP     52 06.20  -2.3
       1.4s    20.00nm          4.1mb
TIA     19.58  66 eP     52 39.00   2.0
BJI     19.98  55 eP     52 41.50   0.4
GAR     21.89 300 eP     52 59.80  -1.1
GBA     23.06 228 Pc     53 13.70   1.3
       0.9s    12.30nm          4.4mb
CN2     27.77  52 eP     53 56.00  -0.5
       1.0s    10.00nm          4.5mb
     Z  14s     0.60um          4.3MszX
                 epP    54 06.40  38kmX
YAK     39.03  25 iPc    55 33.60  -0.2
KAF     53.71 327 eP     57 29.00  -0.5
       0.3s     0.50nm          4.0mb
NUR     54.46 325 eP     57 36.00   1.0
       0.6s     1.60nm          4.2mb
KSP     60.18 314 eP     58 16.50   0.9
NB2     60.97 326 P      58 19.30  -1.6
       0.9s     4.80nm          4.6mb
PRU     61.47 314 P      58 24.00  -0.3
       1.5s     8.30nm          4.6mb
KHC     62.29 313 eP     58 30.00   0.1
WRA     62.77 138 P      58 33.00  -0.4
       0.8s     2.70nm          4.4mb
GRF     63.62 314 eP     58 39.50   0.8
CDF     66.49 313 eP     58 54.70  -2.6X
LPG     67.83 311 eP     59 06.50   0.3
       0.9s     6.55nm          4.7mb
LPL     67.84 311 eP     59 06.60   0.5
       0.9s     5.75nm          4.7mb
LBF     69.08 313 eP     59 13.30  -0.2
SMF     69.29 313 eP     59 16.20   1.4
       1.0s     9.00nm          4.8mb
SSF     69.35 313 eP     59 15.00  -0.1
       1.2s     8.95nm          4.7mb
AVF     69.55 313 eP     59 17.80   1.5
       1.0s     8.00nm          4.7mb
TCF     70.47 313 eP     59 22.30   0.3
       1.2s    11.90nm          4.8mb
MBC     71.60   8 eP     59 28.00  -0.3
INK     75.42  17 eP     59 49.00  -1.7
MTD     76.72 241 iPd    59 59.00   0.1
BUL     80.99 240 iPc    00 23.30   1.2
       1.0s    15.00nm          4.9mb
     S.D. = 1.1  on  41 of  45 obs.
-----------------------------------------
?  JUL  29, 1991  16h 21m 04.84± 1.11s
    6.167 N ±18.3km  127.244 E ±51.9km
   DEPTH =  60.0km  (geophysicist)
   5.1mb (  7 obs.)
 PHILIPPINE ISLANDS REGION          (248)

MTN     19.28 168 iPc    25 29.30   1.6
KNA     21.83 176 iPc    25 55.70   1.9
       0.5s    81.00nm          5.4mb
WR2     26.88 165 iPc    26 40.60  -1.5
       0.4s    20.30nm          5.1mb
QIS     29.20 156 iPc    27 02.70  -0.4
       0.6s    23.00nm          5.0mb
ASPA    30.36 168 iPd    27 11.20  -2.1
       0.6s     9.00nm          4.7mb
WARB    32.16 181 eP     27 29.00  -0.1
BJI     35.16 345 eP     27 55.00   0.2
FORR    36.82 179 eP     28 07.90  -0.9
       0.3s    15.00nm          5.4mb
STK     40.23 161 iPc    28 37.10  -0.3
       0.5s    10.70nm          4.9mb
BWA     45.06 155 eP     29 17.90   1.2
BFD     45.43 163 eP     29 16.20  -3.3X
       0.7s    22.00nm          5.1mb
CAN     46.07 155 eP     29 25.10   0.4
     S.D. = 1.4  on  11 of  12 obs.
-----------------------------------------
   JUL  29, 1991  17h 01m 01.80± 0.34s
   36.948 N ± 4.4km   29.265 E ± 4.3km
   DEPTH =   5.0km  (geophysicist)
   3.9mb (  6 obs.)
 TURKEY                             (366)
      MD 4.3 (ATH), 4.1 (ISK).

ELL      0.55 111 iPg    01 12.70  -0.2
YER      0.81 284 ePg    01 16.80  -1.2
KHL      1.39   8 iPn    01 27.70  -0.2
IZM      2.15 313 iPn    01 38.60  -0.2
PRK      3.29 315 ePn    01 54.60  -0.4
NPS      3.40 241 ePn    01 56.20  -0.4
GPA      3.43  13 ePn    01 57.10   0.0
EDC      3.57 343 ePn    01 58.00  -0.9
YLV      3.61   1 ePn    02 00.00   0.3
EYL      3.68  11 ePn    02 01.00   0.3
EZN      3.69 322 ePn    02 00.00  -0.6
KGT      3.82 337 iPn    02 02.00  -0.5
GBZT     3.84   2 eP     02 14.00  11.2X
CSS      3.85 120 eP     02 04.50   1.5
HRT      3.88   5 ePn    02 03.00  -0.5
CTT      4.24 351 ePn    02 09.00   0.5
ALN      4.67 329 ePc    02 13.10  -1.5
VLI      5.08 269 ePn    02 21.50   1.1
RDO      5.10 326 ePn    02 19.40  -1.2
KDZ      5.56 329 iPd    02 27.00  -0.3
DIM      5.85 332 eP     02 31.00  -0.3
AGG      5.86 293 ePc    02 08.08 -23.3X
                 eS     02 17.28
RZN      5.90 325 iP     02 30.00  -2.2X
SOH      6.02 312 ePc    02 31.20  -2.5X
SRS      6.07 315 ePd    02 33.96  -0.4
LIT      6.17 303 ePc    02 27.40  -8.5X
ADI      6.23 127 eP     02 36.30  -0.4
MMB      6.32 319 iPc    02 38.00   0.1
ATZ      6.43 128 eP     02 39.80   0.3
                 eS     03 50.30
KNT      6.50 312 ePc    02 35.92  -4.6X
VAY      6.79 312 ePn    02 45.00   0.5
KKB      6.86 318 eP     02 45.00  -0.5
JVI      7.09 133 eP     02 47.50  -1.3
HLW      7.28 166 eP     02 51.70   0.3
                 eS     04 07.10
MBH      8.56 145 eP     03 07.10  -2.3
KHC     16.68 322 P      05 02.00   4.2X
                 e      05 09.00
GRF     18.23 320 e(P)   05 20.00   2.9X
CLL     18.44 326 e(P)   05 22.00   2.4X
MOX     18.64 323 ePc    05 24.00   1.9
       1.9s    23.00nm          4.0mb
LPG     18.92 304 eP     05 28.10   2.2
LPL     18.94 304 eP     05 27.10   1.0
       0.9s     3.30nm          3.6mb
CDF     19.74 312 eP     05 35.70   0.3
       1.0s     8.00nm          4.0mb
SMF     21.21 305 eP     05 50.70   0.2
       1.0s    10.00nm          4.1mb
LBF     21.23 306 eP     05 51.00   0.3
SSF     21.56 306 eP     05 56.00   2.0
LFF     22.89 299 eP     06 07.20  -0.1
MAIO    24.23  82 eP     06 23.00   2.5
HFS     25.26 342 eP     06 30.00  -0.1
       0.6s     1.30nm          3.8mb
     Z  17s     0.08um          3.3MszX
                 LR     15 56.00
NB2     26.68 340 P      06 41.70  -1.6
       0.7s     1.00nm          3.6mb
     S.D. = 1.1  on  40 of  49 obs.
-----------------------------------------
?  JUL  29, 1991  17h 39m 58.94± 3.56s
    9.875 S ±11.4km  111.738 E ±58.8km
   DEPTH =  33.0km  (normal)
   4.3mb (  3 obs.)
 SOUTH OF JAVA                      (282)

TRT      2.33  22 ePd    40 35.20  -0.6
                 eS     41 19.00
NANU    13.13 164 eP     43 05.50  -0.2
                 eS     45 20.00
MBL     13.66 146 eP     43 11.00  -1.7
                 eS     45 28.60
WARB    21.50 141 eP     44 51.00   3.8X
                 eS     48 38.00
WR2     24.02 117 iPd    45 11.90  -0.1
       0.4s     5.80nm          4.5mb
ASPA    25.21 126 iPd    45 24.20   0.7
       1.0s     9.80nm          4.4mb
STK     35.25 133 iPd    46 54.50   1.8
       0.9s     2.40nm          4.1mb
     S.D. = 1.6  on   6 of   7 obs.
-----------------------------------------
   JUL  29, 1991  17h 54m 10.39± 1.14s
   40.174 N ± 6.2km  143.779 E ±13.5km
   DEPTH =  35.8 ± 10.2 km
   4.2mb (  3 obs.)
 OFF EAST COAST OF HONSHU, JAPAN (229)

OFUJ     1.96 237 P      54 42.20   0.3
                 eS     55 07.10
HOOJ     2.24 351 eP     54 46.20   0.4
                 eS     55 12.30
AOMJ     2.63 280 P      54 50.90  -0.5
KUSJ     3.00  13 P      54 56.70   0.0
                 eS     55 31.10
MRRJ     3.04 319 eP     54 56.80  -0.3
                 eS     55 30.70
YAMJ     3.53 237 P      55 04.20   0.1
ASAJ     4.03 348 eP     55 11.30   0.0
NIIJ     4.75 233 P      55 22.00   0.5
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KAKJ     4.87 217 P      55 21.90  -1.4
CHJJ     5.58 224 P      55 32.60  -0.6
MAT      5.68 232 iPc    55 34.80   0.1
       0.8s    23.13nm          4.8mb
                 eS     57 09.00
MTMJ     5.90 235 P      55 38.40   0.5
IIDJ     6.60 227 P      55 48.50   1.0
YAK     23.48 343 eP     59 17.10  -0.3
APO     71.59 336 eP     05 29.20  -0.4
       0.5s     0.90nm          4.0mb
NB2     72.00 338 P      05 32.60   0.5
       0.8s     1.50nm          4.0mb
     S.D. = 0.6  on  16 of  16 obs.
-----------------------------------
?  JUL  29, 1991  18h 15m 38.34± 1.74s
   38.693 N ±35.6km  133.403 E ±28.7km
   DEPTH = 420.0km  (geophysicist)
   3.6mb (  1 obs.)
 SEA OF JAPAN                      (660)

MAT      4.38 118 iPd    16 55.70  -0.1
CHJJ     5.18 119 eP     17 04.90   1.2
                 eS     18 08.70
KAKJ     5.93 113 eP     17 10.30  -1.3
                 eS     18 19.40
OFUJ     6.46  84 P      17 17.60   0.3
HFS     69.83 332 eP     26 06.20   0.0
       0.4s     0.70nm          3.6mb
     S.D. = 1.3  on   5 of   5 obs.
-----------------------------------
   JUL  29, 1991  18h 37m 20.85± 0.27s
   45.437 N ± 3.0km    9.375 E ± 2.8km
   DEPTH =  10.6 ±  2.2 km
 NORTHERN ITALY                    (545)
     ML 3.2 (LDG).

BOB      0.67 176 P      37 36.00   1.8
                 eSg    37 47.00
TMA      0.76 332 ePd    37 38.40   2.7X
SAL      0.83  78 P      37 38.50   1.7
                 eSg    37 50.00
ORX      1.00 282 Pc     37 41.00   1.2
                 S      37 54.04
VDL      1.05   4 ePd    37 42.90   2.1
PCP      1.07 214 P      37 42.96   2.0
                 S      37 57.84
MMK      1.16 302 ePd    37 43.30   0.6
CKI      1.28 218 P      37 46.10   1.6
                 eSg    38 02.30
OSS      1.36  23 ePd    37 47.40   1.5
LLS      1.46 350 ePc    37 49.10   1.8
FIN      1.48 214 P      37 48.63   1.1
DIX      1.52 296 ePc    37 48.80   0.6
RSP      1.52 260 P      37 47.07  -1.1
MME      1.56 142 P      37 49.40   0.6
                 eSg    38 10.00
LSD      1.56 272 P      37 48.61  -0.3
ROB      1.56 224 P      37 50.01   1.3
BHB      1.61 249 P      37 48.51  -0.8
BDI      1.63 147 P      37 50.40   0.8
                 eSg    38 10.40
CTI      1.71  68 P      37 50.10  -0.7
                 eSg    38 10.50
DOI      1.78 239 P      37 51.30  -0.5
                 eSg    38 14.50
ENR      1.84 230 P      37 52.71  -0.1
LPG      1.85 273 Pn     37 53.00   0.0
IMI      1.86 215 P      37 53.35   0.4
LPL      1.86 273 Pn     37 53.10  -0.1
PZZ      1.86 241 P      37 51.58  -1.6
STV      1.88 231 P      37 52.09  -1.3
PII      1.90 154 P      37 53.10  -0.4
RRL      1.90 255 P      37 53.32  -0.5
BNI      1.95 260 P      37 54.50   0.2
                 eSn    38 18.00
ZLA      2.16 342 ePd    37 57.80   0.5
PGD      2.29 132 P      37 58.70  -0.6
SFI      2.33 130 P      37 59.90   0.2
SLE      2.41 346 ePc    38 00.60  -0.3
CRE      2.58 134 P      38 02.70  -0.7
                 eSn    38 33.00
FEL      2.61 339 eP     38 03.42  -0.5
RSM      2.66 123 P      38 04.00  -0.5
BSF      2.98 324 Pn     38 09.10   0.0
                 Sn     38 41.10
ARV      3.21 126 P      38 11.00  -1.2
                 eSn    38 48.00
CDF      3.31 335 Pn     38 13.00  -0.7
                 Sn     38 48.50
HAU      3.31 322 Pn     38 13.50  -0.1
                 Sn     38 51.30
ASS      3.34 134 P      38 13.00  -1.2
                 eSn    38 51.50
SMF      4.04 289 Pn     38 24.10   0.1
LBF      4.05 294 Pn     38 24.50   0.3
                 Sn     39 08.30
TOD      4.19 355 eP     38 24.45  -1.7
LOR      4.24 298 Pn     38 26.90   0.1
                 Sn     39 12.80
SSF      4.38 294 Pn     38 28.50  -0.4
AVF      4.40 290 Pn     38 29.10   0.0
RUP      4.55 341 eP     38 30.53  -0.7
A8H      4.62 345 eP     38 30.91  -1.3
BGF      4.69 286 Pn     38 30.60  -2.6X
TCF      5.08 282 Pn     38 39.00   0.3
     S.D. = 1.0  on  49 of  51 obs.
-----------------------------------
•  JUL  29, 1991  19h 40m 33.11± 1.61s
   31.874 S ±13.3km   67.441 W ±15.0km
   DEPTH =  33.0km  (normol)
 SAN JUAN PROVINCE, ARGENTINA      (137)

RTLL     1.03 301 iPc    40 52.00   0.7
ZON      1.10 287 iPd    40 53.00   0.6
                 eS     41 04.00
RTBS     1.73 277 eP     40 59.50  -1.7
PEL      3.02 244 eP     41 20.50   0.7
                 iS     41 53.50
PCH      3.12 235 iP     41 24.80   3.6X
ROCH     3.21 249 iP     41 22.50  -0.1
CHCH     3.39 232 iP     41 25.00  -0.1
CYA      3.70  23 ePc    41 29.30  -0.1
     S.D. = 1.1  on   7 of   8 obs.
-----------------------------------
•  JUL  29, 1991  19h 44m 54.04± 3.61s
   21.027 S ±15.5km  174.071 W ±15.0km
   DEPTH =  80.7 ± 30.0 km
   4.8mb ( 12 obs.)
 TONGA ISLANDS                     (173)

AFI      7.41  18 iPd    46 30.00 -11.6X
                 eS     48 00.00
SGE      8.30 293 ePc    46 55.10   1.2
DZM     18.16 263 iPd    49 03.10   0.7
AFR     23.18  86 eP     49 50.00  -4.4X
       1.0s    25.00nm          4.6mb
CTAO    37.10 264 eP     51 56.00  -2.5
                 e      00 50.00
CMS     37.26 245 eP     51 58.00  -1.8
STK     40.89 245 eP     52 29.00  -0.9
       1.1s     2.80nm          4.0mb
ASPA    47.98 257 iPd    53 23.50  -3.4X
       1.0s    15.90nm          4.9mb
WR2     48.14 262 iPc    53 25.50  -2.6
       0.5s     7.00nm          4.8mb
                 i      54 55.80
WRA     48.16 262 P      53 25.00  -3.3X
       0.7s     5.00nm          4.5mb
SBA     57.62 185 (P)    54 37.20  -0.3
NANU    64.80 254 eP     55 25.00  -1.7
SPA     69.10 180 iPd    55 55.00   1.7
       1.3s    25.00nm          5.0mb
PLM     76.80  46 eP     56 38.90  -0.1
FRI     77.17  42 e(P)   56 39.50  -1.1
CMB     77.41  41 eP     56 41.30  -0.7
ORV     77.72  39 eP     56 44.00   0.4
WDC     77.79  38 eP     56 44.20   0.2
TNP     79.40  42 eP     56 52.10  -1.0
       1.0s    13.75nm          4.8mb
MAW     82.29 199 eP     57 10.00   2.4
       1.0s    10.00nm          4.7mb
KGM     83.82 275 eP     57 16.00  -0.4
ALQ     84.90  50 eP     57 21.20  -0.4
       1.0s     5.50nm          4.5mb
CN2     84.99 321 eP     57 24.00   2.4
       1.0s    10.00nm          4.8mb
     Z  20s     0.70um          5.0Msz
PNT     85.08  32 eP     57 22.00   0.0
       0.6s     8.00nm          4.9mb
BALM    85.69  15 eP     57 23.50  -1.4
BW06    86.87  42 eP     57 30.10  -1.1
IPM     86.88 276 ePd    57 33.20   1.6
FBA     88.01  11 eP     57 34.90  -1.0
       1.2s    22.73nm          5.2mb
SNG     88.20 278 eP     57 39.20   1.4
8JI     88.88 314 eP     57 42.00   1.5
TIY     90.39 310 eP     57 50.80   3.0X
     Z  15s     0.47um          5.0MszX
XAN     91.39 306 P      57 53.70   1.3
INK     93.85  14 eP     58 03.00   0.1
CHG     93.89 289 eP     58 07.20   3.0X
NB2    139.85 356 PKP    04 04.90  -9.2X
       0.9s     1.30nm
EKA    145.07   9 PKP    04 23.00  -0.3
       0.9s     5.80nm
DMU    145.75  14 ePKP   04 25.20   0.7
DLF    146.39  14 ePKP   04 27.30   1.8
KRA    148.98 342 ePKP   04 34.20   4.4X
                 e      04 46.20
WTS    149.08 359 ePKP   04 35.00   5.2X
       0.9s     8.00nm
KSP    149.15 347 ePKPc  04 34.80   4.8X
                 i      04 47.50
CLL    149.27 351 iPKPc  04 34.40   4.2X
       1.4s    27.00nm
                 i      04 47.20
BRG    149.55 350 ePKP   04 34.70   4.1X
       1.6s    31.00nm
                 i      04 47.30
SPC    149.67 341 ePKP   04 35.50   4.4X
VRI    149.93 330 ePKP   04 38.50   7.1X
MOX    150.10 353 ePKP   04 37.00   5.5X
       2.0s    37.00nm
BNS    150.11 358 ePKPd  04 38.50   7.1X
PRU    150.30 349 PKP    04 37.60   5.8X
       1.1s    11.40nm
                 e      04 49.60
ENN    150.32   0 ePKP   04 37.50   5.8X
       0.9s    12.00nm
MLR    150.57 331 ePKP   04 39.00   6.5X
DOU    150.97   2 PKP    04 39.60   6.8X
       0.8s    15.00nm
                 e      04 52.80
GRF    151.09 353 ePKP   04 39.80   6.8X
     Z  22s     0.20um          4.9Msz
                 e      04 51.60
                 e      04 59.40
KHC    151.30 350 PKP    04 40.00   6.6X
       1.0s     7.00nm
                 e      04 52.00
WLF    151.42 360 PKP    04 41.00   7.6X
ZST    151.44 344 ePKP   04 39.80   6.3X
SRO    151.47 342 ePKP   04 40.20   6.6X
FLN    151.85   9 ePKP   04 40.40   6.3X
       0.9s    13.10nm
     Z  20s     0.25um          5.0Msz
LDF    152.07   9 ePKP   04 40.90   6.5X
GRR    152.16  10 ePKP   04 40.30   5.7X
LPF    152.48  10 ePKP   04 39.50   4.5X
CDF    152.66 358 ePKP   04 42.90   7.5X
       0.8s     5.35nm
HAU    153.0B 359 ePKP   04 43.60   7.7X
       0.8s     5.35nm
     Z  20s     0.22um          5.0Msz
BSF    153.25 359 ePKP   04 44.80   8.5X
       0.Bs     2.70nm
WTTA   153.42 351 iPKPd  04 44.70   8.1X
       0.7s     5.70nm
                 i      04 52.50
LOR    153.77   3 ePKP   04 44.30   7.4X
       0.8s     4.05nm
     Z  19s     0.30um          5.1Msz
SSF    153.95   4 ePKP   04 45.80   8.7X
       0.8s     3.35nm
LSF    154.58   7 ePKP   04 46.50   8.5X
TCF    154.62   6 ePKP   04 46.80   8.7X
     S.D. = 1.4  on  31 of  68 obs.
-----------------------------------
   JUL  29, 1991  20h 46m 34.08± 0.71s
   44.758 N ± 6.2km   22.457 E ± 7.4km
   DEPTH =  10.0km  (geophysicist)
 ROMANIA                           (358)

SSR      0.52 282 iPd    46 45.00   0.4
DEV      1.17  15 iPd    46 55.00  -0.9
DRA      1.29  93 ePd    47 00.00   2.1
CMP      1.90  74 ePc    47 13.00   6.1X
MTUR     1.91  75 eP     47 10.50   3.5X
VTS      2.23 166 iPc    47 12.00   0.2
MLR      2.57  72 ePc    47 21.00   4.4X
PVL      2.59 126 eP     47 06.00 -10.6X
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29d 20h

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SKO      2.88 195 ePn    47 25.80    4.9X
KKB      2.93 171 eP     47 22.00    0.5
BMR      3.00  14 ePd    47 43.00   20.5X
PLD      3.12 148 eP     47 29.00    4.9X
VAY      3.44 179 ePn    47 29.50    0.8
RZN      3.48 151 iP     47 29.00   -0.6
DIM      3.51 139 iP     47 28.00   -1.8
KNT      3.61 175 ePd    47 31.14   -0.1
                  eS     48 10.46
SRS      3.73 167 ePc    47 32.82   -0.2
GRG      3.80 181 ePd    47 34.82    0.9
SOH      3.99 170 ePc    47 36.46   -0.2
                  iS     48 18.34
OUR      4.56 165 ePd    47 43.58   -1.1
     S.D. = 1.1  on  13 of  20 obs.
-----------------------------------
*  JUL  29, 1991  22h 22m 53.63± 0.51s
   21.561 S ± 9.4km  169.691 E ±12.0km
   DEPTH =  33.0km  (normal)
   4.9mb ( 11 obs.)  4.8Msz (  4 obs.)
 LOYALTY ISLANDS REGION            (189)

DZM      3.06 260 iPd    23 40.00   -0.9
                  iS     24 15.10
PVC      4.02 341 iP     23 56.00    1.6
BKM      4.11 340 iPd    23 58.00    2.3
RMO     19.74 252 iPd    27 29.00    5.3X
CNB     22.46 228 eP     27 53.90    2.5
        1.0s    29.00nm          4.7mb
BWA     22.68 231 eP     27 53.70    0.2
CAN     22.72 228 eP     27 55.70    1.8
                  e      28 35.10
CMS     23.48 240 eP     28 02.60    1.3
STK     27.05 242 eP     28 34.50   -0.5
        1.7s     1.90nm          3.5mb X
WR2     33.03 266 eP     29 31.80    3.5X
        0.9s     4.20nm          4.3mb
ASPA    33.05 259 iPd    29 28.10   -0.4
        1.2s     9.00nm          4.5mb
WRA     33.06 266 P      29 27.00   -1.5
        1.1s     2.90nm          4.1mb
MAT     64.99 332 eP     33 30.00   -2.6X
        1.0s    13.00nm          5.0mb
                  eS     42 20.00
MDJ     75.36 332 eP     34 34.00   -1.5
TIA     75.95 319 Pd     34 37.60   -1.5
MAW     76.45 202 eP     34 40.40   -1.0
CN2     76.65 329 Pc     34 40.80   -2.0
        1.0s    20.00nm          5.1mb
      Z  24s     0.40um          4.7MszX
BJI     79.00 321 eP     34 55.00   -0.8
        1.2s    12.00nm          4.8mb
TIY     79.82 317 eP     35 00.80    0.4
KMI     79.86 302 Pc     35 02.00    0.9
XAN     79.99 313 P      35 00.70   -0.7
CHG     80.00 295 eP     35 01.80    0.1
        1.4s    29.07nm          5.1mb
CD2     81.98 308 eP     35 11.00   -0.9
HHC     82.25 319 Pd     35 13.20    0.0
        1.2s    30.00nm          5.2mb
BTO     83.05 319 eP     35 16.80   -0.5
LZH     84.59 312 eP     35 25.50    0.2
        1.5s    43.00nm          5.4mb
                  pP     35 33.00   24kmX
                  sP     35 36.50
GTA     89.02 313 eP     35 46.40   -0.4
        1.2s    10.00nm          5.0mb
PKI     94.93 298 P      36 14.40   -0.2
KKN     95.11 298 P      36 11.60   -3.7X
DMN     95.19 297 P      36 14.80   -0.9
OBN    131.64 326 ePKP   42 03.00   -1.4
                  e      45 26.00
KAF    132.36 338 ePKP   42 02.80   -2.7X
        0.5s     2.20nm
NUR    134.03 337 iPKP   42 05.20   -3.5X
        0.5s     5.50nm
NB2    137.79 345 PKP    42 12.00   -4.0X
        1.2s     6.00nm
KRA    142.91 327 ePKP   42 23.70   -1.7
SPC    143.29 326 ePKP   42 22.20   -4.1X
KSP    144.12 331 ePKPd  42 23.50   -3.9X
BRG    145.12 333 iPKPc  42 26.60   -2.5X
                  i      42 34.20
                  i      42 46.00
                  iSg    45 00.00
SRO    145.15 326 iPKP   42 26.30   -3.0X
CLL    145.19 334 iPKPc  42 26.40   -2.8X
        1.4s    67.00nm
                  e      42 38.00
PRU    145.52 331 PKP    42 27.50   -2.3X
        1.4s    35.80nm
                  e      42 39.40
ZST    145.53 327 ePKP   42 27.80   -2.1X
UZD    145.75 324 e(PKP) 42 29.00   -1.3
EKA    145.85 353 PKPd   42 27.10   -3.1X
        0.7s    25.30nm
VAY    146.01 313 iPKP   42 29.30   -1.6
MOX    146.26 335 ePKP   42 30.00   -1.1
        1.2s    29.00nm
SKO    146.48 315 iPKP   42 31.30   -0.4
        1.2s    91.00nm
                  i      42 36.70
                  i      42 42.50
KHC    146.57 331 PKP    42 30.00   -1.7
        1.0s    28.60nm
                  e      42 45.00
WTS    146.85 341 ePKP   42 31.50   -0.4
        1.0s    25.00nm
WET    146.87 332 ePKP   42 32.30    0.2
GRF    147.16 334 iPKPc  42 33.20    0.6
        1.2s    40.00nm
      Z  21s     0.90um          5.5Msz
DMU    147.61 356 ePKP   42 33.50    0.4
BNS    147.62 339 iPKPc  42 34.10    0.9
                  ic     42 41.10
ZAG    147.65 325 ePKP   42 34.70    1.3
KBA    148.15 329 i(PKP) 42 34.70    0.2
        1.0s    23.20nm
DCN    148.19 357 ePKP   42 34.50    0.5
ENN    148.19 340 iPKP   42 35.80    1.7
        1.0s    28.00nm
VBY    148.24 325 ePKPc  42 36.00    1.6
LJU    148.27 326 e(PKP) 42 32.00   -2.4
                  e      42 35.60
MEM    148.30 340 iPKPc  42 35.64    1.4
VOY    148.61 327 iPKPc  42 36.30    1.2
UCC    148.63 342 PKP+   42 37.00    2.2
WTTA   148.82 331 iPKPc  42 31.80   -3.7X
        1.2s    75.50nm
                  i      42 37.10
SNF    148.91 342 PKPc   42 37.30    2.0
WLF    149.07 339 PKP    42 39.00    3.5X
GWF    149.13 337 PKP    42 38.16    2.4X
DOU    149.19 341 PKPc   42 37.80    2.1X
        0.9s    92.50nm
VVI    149.38 328 PKP    42 38.90    2.7X
OGA    149.40 331 ePKP   42 39.10    2.6X
CTI    149.71 329 PKP    42 39.20    2.4X
CDF    149.73 336 PKP    42 39.12    2.4X
SLE    149.79 334 ePKPc  42 39.20    2.4X
FEL    149.89 335 PKP    42 39.34    2.3X
OSS    149.93 331 ePKPc  42 40.40    3.2X
ECH    149.94 336 PKP    42 39.48    2.5X
ZLA    150.06 334 ePKPc  42 39.70    2.5X
MOF    150.25 336 PKP    42 40.18    2.6X
LLS    150.29 333 ePKPc  42 40.80    3.0X
VITF   150.36 338 PKP    42 40.50    2.9X
VDL    150.38 332 ePKPc  42 41.10    3.2X
BSF    150.39 336 iPKPc  42 40.90    3.1X
        1.0s    48.00nm
HAU    150.41 337 iPKPc  42 40.90    3.2X
        1.0s    52.00nm
      Z  22s     0.10um          4.6Msz
BBS    150.42 335 PKP    42 40.62    2.9X
LOMF   150.78 336 PKP    42 41.75    3.4X
ARV    150.81 324 PKP    42 42.70    4.3X
TMA    150.94 332 ePKPc  42 42.10    3.4X
SFI    151.11 326 PKP    42 43.40    4.6X
PGD    151.21 326 PKP    42 43.80    4.6X
CRE    151.26 325 PKP    42 43.10    3.9X
MMK    151.38 333 ePKPc  42 43.70    4.2X
SDI    151.44 320 PKP    42 37.30   -2.2X
MME    151.51 327 PKP    42 44.50    4.7X
DIX    151.59 334 ePKPc  42 43.90    4.1X
BOB    151.70 329 PKP    42 43.90    4.1X
FLN    151.74 346 ePKP   42 43.70    4.1X
        1.0s    56.00nm
      Z  22s     0.13um          4.7Msz
LDF    151.82 346 iPKPc  42 43.90    4.2X
        1.0s    30.00nm
LOR    151.91 339 iPKPc  42 44.40    4.5X
        1.0s    36.00nm
      Z  22s     0.22um          4.9Msz
SOI    151.96 312 PKP    42 45.30    5.1X
LBF    152.12 339 iPKPc  42 44.80    4.5X
        1.0s    12.00nm
GRR    152.18 346 ePKP   42 44.80    4.6X
        1.0s    28.00nm
SSF    152.21 340 iPKPc  42 45.00    4.7X
        1.0s    34.00nm
LPL    152.32 334 ePKP   42 45.90    5.0X
        0.9s    18.00nm
SMF    152.46 339 ePKP   42 45.40    4.7X
        1.1s    22.00nm
AVF    152.49 339 ePKP   42 45.30    4.6X
        1.1s    12.20nm
LPF    152.56 346 ePKP   42 45.70    4.9X
        1.1s    58.60nm
BNI    152.72 333 PKP    42 46.50    5.2X
BGF    152.86 340 ePKP   42 46.30    5.0X
        1.1s    22.00nm
MAF    153.25 340 ePKP   42 47.60    5.7X
        1.1s     9.75nm
TCF    153.31 340 iPKPc  42 47.50    5.6X
        1.0s    17.00nm
SBF    153.33 331 ePKP   42 47.30    5.2X
        1.0s    18.00nm
LSF    153.55 341 iPKPc  42 47.80    5.5X
PGF    153.55 327 ePKP   42 48.10    5.6X
        1.1s    39.05nm
FRF    153.92 331 ePKP   42 48.80    5.9X
        0.9s     8.20nm
LRG    154.13 331 ePKP   42 49.60    6.5X
        0.8s     8.05nm
LMR    154.16 331 ePKP   42 49.30    6.1X
        1.2s    17.85nm
LPO    155.06 340 ePKP   42 46.00    1.7X
        0.9s    22.95nm
     S.D. = 1.3  on  48 of 116 obs.
-----------------------------------
?  JUL  29, 1991  22h 43m 16.71± 6.24s
   3.931 S ±61.4km  130.988 E ±36.7km
   DEPTH =  33.0km  (normal)
   4.2mb (  2 obs.)
 CERAM                             (272)

MTN      8.86 179 eP     45 25.50    0.0
                  eS     47 08.00
KNA     11.95 190 eP     46 04.00   -3.7X
                  eS     48 20.00
WR2     16.26 169 iPd    47 00.50   -3.8X
        0.5s     6.70nm          4.0mb
                  i      47 08.90
                  eS     50 02.00
QIS     18.53 154 iPd    47 32.70    0.0
        0.5s    13.00nm          4.4mb
                  eS     50 52.00
ASPA    19.82 172 iPc    47 47.80    0.1
        0.5s    36.10nm          4.9mb X
                  eS     51 26.70
WARB    22.52 190 eP     48 15.00   -0.1
     S.D. = 0.1  on   4 of   6 obs.
-----------------------------------
*  JUL  29, 1991  22h 46m 10.26± 1.18s
   37.384 N ±15.4km   70.661 E ±12.2km
   DEPTH =  33.0km  (normal)
   3.2mb (  1 obs.)
 AFGHANISTAN-USSR BORDER REGION  (717)

QUE      7.81 204 eP     48 04.50   -0.2
                  eS     49 22.90
MAIO     9.02 266 iPc    48 27.80    6.5X
NDI     10.27 146 iPc    48 38.50    0.1
        0.5s    24.65nm          5.7mb X
GKN     15.02 124 P      49 42.28    0.4
        0.4s   136.00nm          5.6mb X
KKN     15.58 124 P      49 49.86    0.6
        0.4s   160.00nm          5.5mb X
DMN     15.59 125 P      49 49.82    0.4
        0.4s    49.00nm          5.1mb X
PKI     15.81 124 P      49 52.40    0.0
        0.6s   124.00nm          5.3mb X
GUN     15.90 122 P      49 54.64    1.1
SHL     21.54 117 iP     50 56.00   -2.9
NB2     43.51 323 P      54 12.50    0.5
        0.4s     0.20nm          3.2mb
     S.D. = 1.3  on   9 of  10 obs.
-----------------------------------
?  JUL  30, 1991  00h 44m 16.76± 7.90s
   34.911 S ±65.5km   70.580 W ±28.2km
   DEPTH = 116.8 ± 39.5 km
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CHILE-ARGENTINA BORDER REGION (127)

CHCH	0.98	356	iPc	44 38.60	0.0
			iS	44 52.40	
LNV	1.17	324	iPc	44 40.60	0.0
			iS	44 55.50	
PCH	1.29	2	iPd	44 42.20	0.2
			iS	44 57.90	
TACH	1.29	347	iPc	44 42.00	0.1
			iS	44 57.50	
SAN	1.46	357	iPc	44 43.60	-0.3
			iS	45 00.90	
PEL	1.77	357	iPc	44 47.60	0.0
			iS	45 07.50	
JACH	2.22	360	iPc	44 53.60	0.1
			iS	45 18.00	
RTBS	3.38	17	eP	45 11.80	3.1X
RTLL	3.99	27	iPc	45 17.00	0.0

S.D. = 0.2 on 8 of 9 obs.

? JUL 30, 1991 01h 09m 21.27± 0.84s
39.095 N ±17.9km 15.429 E ±21.3km
DEPTH = 190.0km (geophysicist)

SOUTHERN ITALY (390)

CZI	0.56	77	P	09 47.30	-0.1
			eS	10 12.20	
ACI	0.65	67	P	09 48.20	0.0
ATN	0.93	178	P	09 49.90	0.1
			eSg	10 13.90	
CSI	0.95	44	P	09 50.30	0.3
ROI	1.00	61	P	09 50.20	-0.2
SOI	1.13	154	P	09 51.30	0.1
			eSg	10 15.10	
MNO	1.30	207	P	09 54.80	2.0X
GIB	1.56	225	P	09 55.00	-0.1

S.D. = 0.2 on 7 of 8 obs.

% JUL 30, 1991 01h 16m 53.83± 0.99s
41.707 N ±10.5km 20.068 E ± 5.5km
DEPTH = 5.0km (geophysicist)

ALBANIA (391)

ML 2.5 (TTG).

ULC	0.66	293	iPgc	17 06.68	-0.4
			iSg	17 17.71	
PVY	0.89	356	iPgd	17 10.61	-0.8
			iSg	17 23.93	
TTG	0.94	321	iPgc	17 11.76	-0.4
			iSg	17 25.76	
SKO	1.06	75	iPg	17 15.00	0.8
			iSg	17 27.20	
BDV	1.09	302	iPgc	17 15.18	0.4
			iSg	17 31.15	
IVA	1.17	354	iPgd	17 16.25	0.0
			iSg	17 33.08	
NKY	1.36	325	iPgd	17 19.40	-0.1
			iSg	17 39.51	
HCY	1.38	303	iPgc	17 20.40	0.6
			iSg	17 40.76	
BRY	1.64	317	iPnc	17 24.90	1.3X
			iSn	17 47.51	
PLE	1.70	343	iPnd	17 25.13	0.8
			iSn	17 48.13	
VAY	1.92	101	ePn	17 26.70	-0.7

S.D. = 0.7 on 10 of 11 obs.

& JUL 30, 1991 02h 11m 32.50s
40.698 N 124.645 W
DEPTH = 16.0km

NEAR COAST OF NORTHERN CALIF. (35)

<BRK>. ML 3.0 (BRK).

FHC	0.51	78	iPd	11 42.49	-0.2
			iS	11 49.29	
FOX	0.53	109	iPc	11 43.06	0.2
WDC	1.61	94	eP	11 58.40	-1.9
			iS	12 16.40	
MIN	2.34	98	iPd	12 08.68	-2.4
			eS	12 34.30	
ORV	2.67	114	ePd	12 12.87	-2.7
ARN	4.13	143	eP	12 34.00	-2.3

6 obs. associoted

JUL 30, 1991 02h 23m 04.66± 0.74s
44.438 N ± 4.0km 6.274 E ± 5.7km
DEPTH = 5.0km (geophysicist)

FRANCE (538)

PZZ	0.60	83	P	23 16.92	0.3
			S	23 24.18	
RRL	0.60	37	P	23 16.82	0.0
			S	23 24.31	
BNI	0.68	25	P	23 18.20	0.0
			eSg	23 27.20	
DOI	0.70	84	P	23 18.50	-0.1
			eSg	23 27.00	
STV	0.78	104	P	23 19.69	-0.6
			S	23 29.84	
BHB	0.81	60	P	23 20.84	-0.1
			S	23 31.12	
CDR	0.85	206	ePg	23 21.50	0.0
			e	23 23.30	
			eSg	23 32.70	
			e	23 33.30	
			e	23 34.50	
ENR	0.85	104	P	23 21.01	-0.6
			S	23 31.13	
RSP	1.00	44	P	23 24.40	0.3
			S	23 36.71	
ROB	1.15	97	P	23 26.76	0.0
LSD	1.20	31	P	23 27.17	-0.4
IMI	1.28	114	P	23 29.22	0.4
FIN	1.41	99	P	23 30.97	0.0
PCP	1.63	86	P	23 34.96	0.8

S.D. = 0.4 on 14 of 14 obs.

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* JUL 30, 1991 04h 22m 04.34± 1.43s
38.934 N ± 9.3km 15.425 E ±14.1km
DEPTH = 31.9 ± 13.4 km

SICILY (398)

CZI	0.62	63	P	22 17.80	1.1
			eS	22 32.20	
ACI	0.73	55	P	22 18.80	0.5
ATN	0.77	178	Pc	22 20.00	1.1
			eSg	22 36.10	
SOI	0.99	150	Pd	22 20.80	-1.2
			eSg	22 36.90	
MMN	1.05	24	P	22 23.00	0.2
			eS	22 39.40	
CSI	1.08	38	P	22 22.80	-0.5
ROI	1.09	54	P	22 22.00	-1.5
GIB	1.45	230	P	22 28.20	-0.4

S.D. = 1.3 on 8 of 8 obs.

JUL 30, 1991 04h 44m 42.67± 0.42s
44.298 N ± 5.6km 17.983 E ± 7.4km
DEPTH = 10.0km (geophysicist)

YUGOSLAVIA (383)

ML 3.1 (ZAG), 3.0 (TTG).

BLY	0.73	309	Pg	45 56.80	59.8X
			Sg	46 07.10	
PLE	1.41	133	iPgc	45 08.10	-0.3
			iSg	45 26.93	
BRY	1.45	164	iPgd	45 07.80	-1.3
			iSg	45 26.41	
HVAR	1.58	225	iPn	45 09.80	-0.9
			iSg	45 33.10	
NKY	1.66	153	iPgd	45 11.78	-0.2
			iSg	45 33.23	
BEO	1.84	73	eP	45 31.50	16.9X
HCY	1.89	168	iPnc	45 15.68	0.4
			iSn	45 38.96	
IVA	1.99	135	iPnc	45 17.70	0.9
			iSn	45 42.63	
ZAG	2.08	318	iPn	45 18.70	0.7
			iSg	45 54.20	
TTG	2.09	153	iPnd	45 18.41	0.3
			iSn	45 43.65	
BDV	2.11	163	iPnd	45 18.66	0.2
			iSn	45 43.95	
PTJ	2.15	319	ePn	45 18.70	-0.4
			eSn	45 46.60	
PVY	2.24	139	iPnd	45 20.95	0.5
			iSn	45 48.01	
VBY	2.28	303	ePn	45 23.00	2.0
			iSn	45 55.80	
UZD	2.33	10	e(Pn)	45 21.00	-0.7
ULC	2.51	158	iPnd	45 24.21	0.0
			iSn	45 54.01	
LJU	3.00	307	eP	45 42.90	11.8X
			e(Sn)	46 12.80	
VOY	3.37	302	ePn	45 36.10	-0.4
			eSg	46 28.60	
SRO	3.52	4	eP	46 28.20	49.7X
			i	46 41.20	
			e	53 53.90	
ZST	3.95	351	iP	46 30.40	45.9X
			e	54 11.30	
KBA	4.28	312	iPnc	45 49.50	0.0
			i	46 35.90	
			iSn	46 40.40	
KHC	5.70	329	Pg	46 08.50	-1.0
			Sg	47 26.00	
PRU	6.16	339	eP	46 54.50	38.7X
			Sg	47 38.50	

S.D. = 0.9 on 17 of 23 obs.

JUL 30, 1991 04h 50m 42.39± 0.28s
36.321 N ± 2.8km 28.200 E ± 2.4km
DEPTH = 47.2 ± 4.6 km
4.2mb (26 obs.)

DODECANESE ISLANDS (369)

MD 4.5 (ATH), 4.3 (ISK). Felt on Rodhos.

YER	0.81	5	iPg	50 58.10	0.4
ELL	1.44	72	ePg	51 10.20	3.6X
IZM	2.20	340	iPn	51 16.70	-0.6
KHL	2.26	27	iPn	51 18.90	0.8
NPS	2.35	244	eP	51 22.10	2.7X
			eS	52 01.20	
ALT	3.12	28	iPn	51 31.90	1.5
PRK	3.30	333	eP	51 32.20	-0.5
PPCY	3.67	112	eP	51 39.60	1.5
			eS	52 22.00	
EZN	3.80	338	iPn	51 38.90	-1.0
ATH	3.94	296	ePn	51 42.90	1.0
EDC	4.03	356	iPn	51 42.90	-0.2
IZI	4.13	14	iPn	51 45.50	0.8
KGT	4.18	351	iPn	51 44.50	-0.8
VLI	4.26	277	eP	51 48.00	1.6
YLV	4.34	12	iPn	51 49.00	1.4
CSS	4.39	106	eP	51 49.00	0.7
			eS	52 39.70	
EYL	4.51	19	iPn	51 50.50	0.5
HRT	4.64	14	iPn	51 52.00	0.3
ISK	4.78	8	ePn	51 54.00	0.3
CTT	4.82	2	iPn	51 54.00	-0.3
ALN	4.87	340	ePc	51 53.90	-1.0
			eS	52 44.86	
FAM	4.91	104	eP	51 57.50	2.0
			eS	52 54.00	
PAIG	5.07	317	ePd	51 56.86	-0.9
			iS	52 51.38	
OUR	5.20	322	ePc	51 59.02	-0.6
			eS	52 53.26	
RDO	5.25	337	iPnc	51 59.50	-0.8
AGG	5.38	302	ePc	52 02.94	0.7
KDZ	5.75	339	iPc	52 06.00	-1.3
LIT	5.87	312	ePd	52 08.90	-0.2
SOH	5.88	321	ePd	52 08.90	-0.4
THE	5.95	318	ePc	52 09.82	-0.3
SRS	5.99	324	iPd	52 09.82	-1.0
			eS	53 13.14	
RZN	6.01	334	ePc	52 11.00	-0.1
DIM	6.08	341	iPc	52 10.00	-2.0
MMB	6.31	328	iPc	52 14.00	-1.2
VLS	6.35	289	ePn	52 17.40	1.6
KNT	6.37	321	ePc	52 15.78	-0.2
			iS	53 22.62	
KZN	6.43	310	ePn	52 18.00	1.0
GRG	6.48	317	ePc	52 17.66	0.0
ADI	6.63	117	eP	52 18.90	-0.8
VAY	6.65	320	iPn	52 20.30	0.3
KAS	6.66	39	eP	52 23.50	3.4X
ATZ	6.80	119	eP	52 21.00	-1.1
			eS	53 35.10	
FNA	6.96	312	iPd	52 24.02	-0.4
HLW	6.96	157	eP	52 24.00	-0.4
			eS	53 28.90	
ZNT	6.97	124	eP	52 23.40	-1.1
			eS	53 36.80	
KOT	7.06	153	ePn	52 26.30	0.6
			eSn	53 37.75	
SHMJ	7.20	118	Pd	52 27.40	-0.3
PVL	7.23	343	iPd	52 26.00	-2.1
KEK	7.45	300	ePn	52 32.30	1.2
BURJ	7.49	121	Pc	52 28.84	-3.1X

30d 04h

```
SALJ     7.55 123 Pd     52 32.38  -0.2
JARJ     7.59 120 Pc     52 33.29   0.0
DSI      7.62 126 eP     52 32.70  -0.8
KFNJ     7.63 123 P      52 33.42  -0.3
SKO      7.71 319 iPnc   52 34.70  -0.1
MKT      7.89 131 eP     52 36.70  -0.7
                  eS     54 01.00
MDSJ     8.16 123 Pd     52 43.27   2.2
SHWJ     8.50 132 Pd     52 45.89  -0.1
MBH      8.61 137 eP     52 46.60  -0.7
CSTJ     8.76 124 Pc     52 47.73  -1.6
NAOJ     8.79 134 Pc     52 49.68   0.0
GHZJ     8.88 128 Pc     52 50.40  -0.6
LCI      8.99 300 P      52 50.50  -2.0
HSHJ     9.10 134 Pd     52 53.87  -0.2
CMP      9.25 346 ePc    53 04.00   7.9X
MLR      9.32 350 eP     52 56.50  -0.6
VRI      9.60 354 eP     53 00.50  -0.4
BRT      9.73 301 P      53 02.00  -0.7
ROI      9.74 293 P      53 03.10   0.2
SOI      9.85 284 P      53 03.60  -0.6
                  eSn    54 46.20
CZI      9.98 290 P      53 06.40   0.4
CSI     10.01 294 P      53 08.30   1.8
MMN     10.26 294 P      53 11.20   1.4
ATN     10.32 284 P      53 10.90   0.2
MGR     10.65 295 P      53 15.50   0.3
MEU     10.68 278 P      53 15.80   0.0
MNO     10.90 283 P      53 19.00   0.1
SGO     10.96 297 P      53 19.40   0.0
PTJ     13.28 320 eP     53 49.40  -1.0
KBA     15.42 319 iPc    54 19.50   1.1
        1.3s     39.00nm          4.4mb
                  i      54 21.60
                  i      54 35.60
PGF     16.07 299 eP     54 29.60   2.9X
        1.0s     16.00nm          4.1mb
WTTA    16.46 317 iPc    54 33.80   2.2
        1.5s     70.60nm          4.6mb
                  i      54 35.70
                  i      54 45.40
                  i      54 54.10
                  e      55 42.00
KHC     16.67 325 P      54 34.00  -0.1
                  e      54 50.50
KSP     16.85 333 eP     54 41.00   4.7X
PRU     16.87 328 P      54 39.50   3.0X
        0.8s      4.40nm          3.6mb
                  e      54 53.10
SBF     17.56 302 eP     54 46.00   0.8
        0.8s      9.40nm          4.0mb
BRG     17.79 329 eP     54 49.00   1.0
                  e      55 02.20
GRF     18.18 323 eP     54 46.00  -6.9X
                  e      58 12.00
CLL     18.51 329 iP     54 56.10  -0.7
        1.3s     13.00nm          4.0mb
LPG     18.58 306 eP     54 58.40   0.4
        0.5s      3.65nm          3.8mb
LPL     18.60 306 eP     54 58.60   0.4
        0.5s      3.65nm          3.8mb
MOX     18.64 325 eP     55 00.00   1.6
        1.1s     19.00nm          4.2mb
CDF     19.55 315 eP     55 09.10   0.1
        0.7s      6.60nm          4.0mb
OBN     19.65  14 eP     55 11.00   1.1
HAU     19.89 313 eP     55 12.10  -0.4
        0.6s      3.60nm          3.9mb
      Z  22s      0.15um          6.1Msz
SMF     20.88 307 eP     55 20.10  -2.7X
        0.7s      5.50nm          4.0mb
LBF     20.92 308 eP     55 22.90  -0.3
LOR     21.10 309 eP     55 26.80   1.8
      Z  22s      0.08um          3.0Msz
SSF     21.25 308 eP     55 25.60  -0.8
        0.9s     13.10nm          4.3mb
AVF     21.25 307 eP     55 26.00  -0.4
        0.7s      5.50nm          4.0mb
MEM     21.41 319 P      55 44.80  16.8X
BGF     21.50 306 eP     55 30.00   1.0
        0.9s      9.85nm          4.2mb
TCF     21.83 305 eP     55 32.40   0.1
DOU     21.91 316 P      55 48.80  15.7X
MFF     23.48 305 eP     55 47.90  -0.5
        0.7s      6.60nm          4.2mb
LDF     24.08 309 eP     55 53.80  -0.4
NUR     24.31 356 eP     56 10.50  14.1X
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FLN     24.36 310 eP     55 56.10  -0.8
        0.6s      8.10nm          4.4mb
      Z  22s      0.08um          3.1Msz
GRR     24.47 309 eP     55 55.60  -2.4
        0.8s     16.10nm          4.6mb
LPF     24.48 308 eP     55 57.10  -1.0
        0.8s     10.75nm          4.4mb
MAIO    25.17  81 eP     56 06.00   1.1
        0.8s     18.30nm          4.7mb
HFS     25.60 343 eP     56 11.60   3.1X
        0.5s      1.00nm          3.6mb
KAF     25.84 358 eP     56 11.70   0.9
        0.5s      2.30nm          4.0mb
NB2     26.99 342 P      56 22.50   1.1
        0.5s      0.50nm          3.4mb
LKO     40.61 237 P      58 19.08  -0.3
TIC     42.36 234 P      58 33.30  -0.4
        0.7s     13.00nm          4.8mb
KIC     42.39 233 Pd     58 33.78  -0.2
        0.6s     14.50nm          4.9mb
LIC     42.68 233 Pd     58 36.14  -0.2
        0.7s     12.50nm          4.8mb
GKN     47.92  83 P      59 18.08  -0.1
DMN     48.46  83 P      59 22.76   0.2
KKN     48.52  83 P      59 22.80  -0.2
        0.6s     19.00nm          5.3mb X
PKI     48.72  83 P      59 24.46  -0.2
GUN     48.95  83 P      59 26.32  -0.1
      S.D. = 0.9  on 109 of 123 obs.
--------------------------------------
   JUL  30, 1991  05h 16m 05.04± 0.26s
   30.049 N ± 4.9km  131.186 E ± 4.0km
   DEPTH =  30.8km  ( 10 depth phases)
   5.0mb ( 35 obs.)  5.1Msz (  2 obs.)
 KYUSHU, JAPAN                    (235)
      CENTROID, MOMENT TENSOR     (HRV)
      Doto Used: GDSN
      L.P.B.: 13S, 23C
      Centroid Location:
      Origin Time        05:16: 3.0 0.9
      Lat 30.21N 0.09 Lon 131.70E 0.08
      Dep  59.9 5.9 Half-duration  1.5
      Moment Tensor;   Scale 10**16 Nm
        Mrr= 5.32 0.51  Mtt= 1.85 0.87
        Mff=-7.17 0.93  Mrt= 3.40 0.72
        Mrf= 0.96 0.70  Mtf=-3.77 0.70
      Principal Axes:
        T  Val=  7.51  Plg=56  Azm=  9
        N        1.35      33      208
        P       -8.85       9      112
      Best Double Couple:Mo=8.2*10**16
        NP1:Strike=169 Dip=46 Slip=  41
        NP2:        48      62      128
KAGJ     1.16 347 iP+    16 26.40   1.2
SSE      8.68 279 P      18 12.70   1.2
        1.0s     49.00nm          5.6mb
      Z  20s      6.50um          3.9Msz
      N  14s      4.40um
      E  13s      7.50um
                   S      19 45.00
MAT      8.74  40 eP     18 11.00  -1.4
        0.5s     11.97nm          5.3mb
                  eS     20 00.00
NJ2     10.76 284 Pd     18 39.00  -1.1
      Z  16s      4.70um
      N  11s      1.30um
      E  13s      5.10um
DL2     11.84 321 eP     18 55.00   0.4
        6.0s    600.00nm          6.0mb X
      Z  15s      5.20um          4.0Msz
      N  14s      4.60um
      E  13s      5.80um
SNY     13.26 334 eP     19 12.60  -1.1
      Z  16s     11.10um
      N  13s      5.20um
      E  11s      2.30um
                  sP     19 25.80
                  eS     21 36.00
TIA     13.28 301 Pd     19 15.90   1.9
        1.0s    100.00nm          5.8mb
      Z  14s      8.30um          3.9MszX
      N  12s      2.90um
      E  13s      7.00um
CN2     14.47 343 Pc     19 30.00   0.5
        1.0s     80.00nm          5.2mb
      Z  14s     23.00um          4.8MszX
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      N  12s      5.70um
      E  12s      2.30um
                  epP    19 35.00
WHN     14.56 276 eP     19 32.00   1.3
      Z  12s      3.60um
      E  12s      4.60um
                  pP     19 37.50
BJI     15.81 313 eP     19 50.50   3.6X
        1.5s     70.00nm          4.6mb
      Z  14s     12.60um          3.3MszX
      N  14s      4.60um
      E  13s      7.20um
TIY     17.33 301 eP     20 06.00  -0.2
      Z  15s      7.57um
      N  13s      3.09um
      E  13s      4.68um
                  sP     20 19.00
HHC     19.24 309 eP     20 29.80   0.2
      Z  14s      9.60um
      N  14s      3.20um
      E  13s      4.10um
XAN     19.28 288 P      20 28.50  -1.7
      N  14s      4.00um
      E  14s      2.40um
BTO     20.18 307 P      20 40.00   0.1
      N  14s      2.80um
      E  15s      4.70um
PJG     20.69 139 eP     20 45.00  -0.2
GUA     20.76 139 eP     20 45.50  -0.4
        0.5s     95.77nm          5.4mb
GYA     21.88 267 P      20 57.00  -0.4
        1.4s    130.00nm          5.2mb
      Z  18s      2.10um          4.6Msz
      N  12s      3.50um
      E  12s      2.10um
                  pP     21 07.00  38km
                  PP     21 20.00
QIZ     22.26 245 eP     21 02.00   1.0
      N  17s      1.80um
      E  17s      1.50um
LZH     23.65 292 eP     21 13.50  -1.2
        2.0s     63.00nm          4.8mb
      Z  16s      6.81um          5.2MszX
      E  14s      4.44um
                  pP     21 25.50  48kmX
                  PP     21 47.50
                  eS     25 24.00
KMI     25.65 266 iPc    21 34.00   0.0
      Z  14s      3.40um          5.0MszX
      N  11s      0.70um
      E  12s      1.80um
GTA     27.31 298 eP     21 48.00  -1.0
        0.8s     10.00nm          4.5mb
      Z  14s      5.00um          5.2MszX
      E  12s      3.90um
                  pP     21 56.00  28km
                  sP     22 01.00
CHG     31.31 257 ePd    22 24.00  -0.9
        0.8s     21.27nm          5.0mb
YAK     31.99 359 eP     22 30.00  -0.3
                  e      23 07.00 177kmX
                  e      24 01.00
                  e      26 57.00
SHL     34.93 272 iP     22 55.00  -1.5
SNG     36.62 238 eP     23 09.80  -0.8
WMQ     36.96 304 P      23 12.50  -0.8
        1.5s     30.00nm          4.9mb
      Z  16s      1.97um          5.0MszX
      N  13s      1.49um
                  pP     23 21.80  31km
IPM     38.11 234 ePd    23 24.30   1.2
        1.0s     27.70nm          5.1mb
GUN     39.50 278 P      23 34.84  -0.2
PKI     39.99 278 P      23 38.60  -0.5
KKN     40.04 278 P      23 38.78  -0.6
DMN     40.24 278 P      23 40.56  -0.5
GKN     40.54 279 P      23 42.90  -0.5
        0.4s     32.00nm          5.4mb
NDI     46.69 282 iPd    24 32.00  -0.9
WRA     49.79 176 P      24 56.00  -1.0
        0.9s      4.60nm          4.5mb
WR2     49.80 176 iPc    24 56.60  -0.4
        0.8s      4.60nm          4.6mb
                  i      25 05.80  31km
GAR     50.12 298 eP     24 58.60  -1.0
                  e      46 00.00
GBA     52.05 264 Pd     25 13.20  -1.1
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        0.8s      9.30nm          4.8mb
ASPA    53.47 177 iPc    25 27.00   2.4
        1.4s      8.00nm          4.5mb
                  i      25 34.10  23km
RSO     57.57  35 P      25 53.00  -1.2
SLKM    58.82  35 P      26 02.00  -0.6
PMR     59.22  33 P      26 04.50  -0.8
        0.7s      5.23nm          4.8mb
FBA     59.45  29 P      26 06.30  -0.6
        0.8s      8.97nm          4.9mb
DZM     61.93 143 iPd    26 24.90   0.5
BALM    62.54  33 P      26 27.70  -0.3
MBC     65.51  14 eP     26 46.50  -0.5
        1.0s     18.00nm          5.1mb
                  pP     26 57.50  36km
IR4     66.05 298 iPd    26 51.50   0.2
IR7     66.11 299 iPd    26 52.00   0.3
IR1     66.15 298 iPc    26 52.00   0.1
OBN     68.42 322 iPc    27 05.50  -0.2
        1.1s  *******nm          8.5mb X
      Z  16s      3.00um          5.6MszX
      N  16s      0.70um
      E  16s      2.20um
                  e      27 15.00  30km
KAF     70.43 331 eP     27 16.20  -1.7
        0.7s     22.20nm          5.4mb
NUR     71.89 330 iP     27 26.00  -0.7
        0.5s     10.70nm          5.1mb
YKA     73.97  26 eP     27 39.10   0.2
        0.9s      3.80nm          4.4mb
HFS     76.64 333 eP     27 54.10  -0.1
        0.6s     11.80nm          5.1mb
      Z  16s      0.99um          5.2MszX
                  LR     03 27.00
NB2     77.03 334 P      27 55.00  -1.4
        0.7s     11.00nm          5.0mb
KRA     79.73 322 eP     28 10.90  -0.4
                  e      28 19.70  28km
SPC     80.06 322 eP     28 15.20   1.9
NEW     81.00  39 P      28 18.80   0.6
        1.0s     12.00nm          4.9mb
KSP     81.15 324 ePd    28 20.20   1.4
WDC     82.08  48 eP     28 34.30  10.4X
BRG     82.30 325 eP     2B 26.40   1.6
        2.0s     22.00nm          4.9mb
ZST     82.33 322 e(P)   28 26.00   1.0
CLL     82.48 326 iPc    28 27.60   1.9
        1.5s     17.00nm          4.9mb
PRU     82.56 324 eP     28 26.50   0.3
ORV     83.31  48 P      28 30.00  -0.3
SKO     83.48 315 eP     28 31.20   0.1
      Z  16s      1.31um          5.4MszX
      N  15s      1.07um
      E  17s      1.07um
                  i      28 40.80  30km
                  LR     29 00.00
MOX     83.58 326 eP     28 33.50   2.0
        2.0s     32.00nm          5.1mb
KHC     83.59 324 P      28 33.00   1.5
      Z  14s      1.80um          5.6MszX
      N  14s      0.70um
      E  16s      1.60um
                  e      28 53.00  73kmX
                  S      39 16.00
FFC     84.02  28 eP     28 33.00  -0.5
        1.0s     15.00nm          5.1mb
GRF     84.40 326 eP     28 36.40   0.8
      Z  18s      2.00um          5.5Msz
                  e      28 46.70  32km
                  e      31 57.00
CMB     84.88  49 eP     28 38.00  -0.3
LRM     85.02  39 eP     28 40.30   1.2
EKA     86.41 336 Pc     28 47.30   1.8
        0.6s      3.90nm          4.8mb
TNP     86.89  47 P      28 48.70   0.2
        0.8s     11.32nm          5.2mb
BW06    88.56  40 P      28 57.00   0.5
        0.7s      2.63nm          4.7mb
PLM     89.92  51 P      29 01.70  -1.3
RSSD    90.61  36 P      29 07.00   1.0
        0.7s      9.52nm          5.2mb
PV09    91.61  43 P      29 12.60   1.8
ALQ     95.58  44 e(P)   29 28.00  -1.0
        1.0s      2.50nm          4.6mb
BNH    102.95  16 Pdiff  29 51.00 -10.6X
LPB    157.80  57 PKP    36 17.00  16.2X
      S.D. = 1.0  on  76 of  80 obs.
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-----------------------------------------
   JUL  30, 1991  05h 17m 32.50± 0.33s
   44.553 N ± 2.6km    7.281 E ± 3.5km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                    (545)
      ML 2.2 (GEN), 2.1 (LDG).

DOI      0.06 207 P      17 35.00   0.2
                  eSg    17 37.00
PZZ      0.14 249 P      17 35.57  -0.3
                  S      17 37.72
BHB      0.29 357 P      17 38.34  -0.2
                  S      17 42.23
STV      0.31 174 P      17 39.04   0.0
                  S      17 42.95
ENR      0.34 163 P      17 39.44  -0.2
                  S      17 43.77
ROB      0.50 121 P      17 42.73   0.2
                  S      17 49.51
RRL      0.51 316 P      17 42.36  -0.5
                  S      17 48.28
RSP      0.60 358 P      17 43.36  -1.3
                  S      17 51.15
SBF      0.70 171 Pg     17 47.10   0.7
                  Sg     17 55.00
CKI      0.73 100 P      17 46.90   0.1
                  eSg    17 55.60
FIN      0.75 117 P      17 46.95  -0.2
                  S      17 56.79
IMI      0.78 146 P      17 47.36  -0.3
                  S      17 57.41
PCP      0.90  90 P      17 49.92   0.1
                  S      18 01.09
LPG      1.02 338 Pg     17 53.10   1.2
                  Sg     18 05.20
LPL      1.04 338 Pg     17 53.30   1.0
                  Sg     18 05.80
FRF      1.09 205 Pg     17 52.30  -0.7
                  Sg     18 06.40
LRG      1.28 211 Pg     17 56.40   0.1
                  Sg     18 12.50
LMR      1.34 205 Pg     17 57.50   0.3
                  Sg     18 14.00
     S.D. = 0.6  on  18 of  18 obs.
-----------------------------------------
&  JUL  30, 1991  05h 45m 39.95s
   60.177 N          153.107 W
   DEPTH = 118.7km
 SOUTHERN ALASKA                   (  2)
      <AEIC>.

RED      0.29  34 iP     45 56.24   0.8
RSO      0.34  31 eP     45 56.62  -0.8
RDW      0.34  26 eP     45 56.61  -0.8
REF      0.37  33 iP     45 56.82  -0.7
                  eS     46 10.27
RDN      0.38  27 iP     45 56.76  -0.7
DFR      0.47  26 iP     45 57.01  -0.9
                  eS     46 10.59
RDT      0.53  41 iP     45 57.42  -0.9
AUE      0.83 189 eP     45 59.88  -0.6
HOM      0.90 125 eP     46 00.56  -0.6
                  eS     46 16.11
NNL      0.92  98 eP     46 01.08  -0.3
XLV      1.01 135 eP     46 00.89  -1.4
                  eS     46 17.59
CKL      1.09  20 iP     46 02.66  -0.6
                  eS     46 20.52
SPU      1.13  27 eP     46 02.78  -0.8
                  eS     46 20.66
BGL      1.15  18 eP     46 03.44  -0.4
CNPM     1.15 124 eP     46 02.56  -1.2
                  eS     46 20.23
NCG      1.32  20 eP     46 05.42  -0.3
        16 obs. associated
-----------------------------------------
   JUL  30, 1991  07h 33m 23.02± 0.56s
   44.371 N ± 5.4km    7.339 E ± 6.5km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                    (545)
      ML 1.9 (GEN).

STV      0.13 185 P      33 26.40   0.2
                  S      33 28.24
DOI      0.15 333 P      33 27.00   0.5
                  eSg    33 30.00
ENR      0.16 158 P      33 26.91   0.2
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                  S      33 29.29
PZZ      0.22 308 P      33 27.62  -0.2
                  S      33 30.80
ROB      0.39 101 P      33 31.62   0.6
                  S      33 37.05
BHB      0.47 353 P      33 32.37  -0.3
IMI      0.61 139 P      33 34.70  -0.6
                  S      33 42.70
FIN      0.64 104 P      33 35.62  -0.3
                  S      33 44.54
     S.D. = 0.5  on   8 of   8 obs.
-----------------------------------------
?  JUL  30, 1991  07h 34m 17.21± 1.00s
   44.383 N ±10.3km    7.335 E ± 9.2km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                    (545)
      ML 1.3 (GEN).

STV      0.14 183 P      34 20.46  -0.1
                  S      34 22.56
ENR      0.17 159 P      34 21.23   0.1
                  S      34 23.53
PZZ      0.21 306 P      34 21.83   0.0
                  S      34 24.92
ROB      0.39 103 P      34 25.28   0.0
     S.D. = 0.2  on   4 of   4 obs.
-----------------------------------------
?  JUL  30, 1991  08h 10m 11.92± 1.45s
   39.124 N ± 8.1km   27.695 E ±17.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      MD 2.9 (ISK).

IZM      0.80 205 ePg    10 27.50   0.0
                  eSg    10 40.70
EDC      1.23   6 ePn    10 35.00   0.2
EZN      1.27 304 ePn    10 35.60   0.1
KGT      1.36 347 iPn    10 36.50  -0.4
     S.D. = 0.5  on   4 of   4 obs.
-----------------------------------------
?  JUL  30, 1991  09h 38m 30.26±16.12s
   39.999 N ±110.km   29.633 E ±26.7km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      MD 2.8 (ISK).

IZI      0.36 340 iPg    38 37.50  -0.2
                  iSg    38 40.50
YLV      0.60 341 ePn    38 42.50   0.1
EYL      0.69  35 ePn    38 44.00  -0.1
HRT      0.82   2 ePn    38 46.30   0.1
     S.D. = 0.2  on   4 of   4 obs.
-----------------------------------------
   JUL  30, 1991  09h 39m 39.63± 0.13s
   18.889 N ± 2.5km  145.154 E ± 3.1km
   DEPTH = 594.6km  (  3 depth phases)
   5.0mb ( 55 obs.)
 MARIANA ISLANDS                   (216)
      CENTROID, MOMENT TENSOR      (HRV)
      Data Used: GDSN
      L.P.B.: 11S, 15C
      Centroid Location:
      Origin Time        09:39:41.4 1.1
      Lat 18.88N  FIX;Lon 145.13E  FIX
      Dep 595.0 FIX Half-duration  2.5
      Moment Tensor;   Scale 10**17 Nm
        Mrr=-0.99 0.14  Mtt= 0.07 0.24
        Mff= 0.92 0.27  Mrt=-1.03 0.23
        Mrf= 0.61 0.20  Mtf= 0.01 0.27
       Principal Axes:
        T  Val=  1.21  Plg=24  Azm=247
        N        0.52      20      148
        P       -1.72      58       22
      Best Double Couple:Mo=1.5*10**17
       NP1:Strike= 12 Dip=28 Slip= -43
       NP2:        141      71     -111

PJG      5.28 183 eP     41 14.80  -0.1
GUA      5.33 183 eP     41 15.00  -0.3
        0.5s    123.94nm          5.1mb
                  eS     42 29.60
WKYJ    17.48 333 P      43 12.20   0.6
IIDJ    17.73 340 P      43 14.00   0.1
                  eS     46 11.60
KAGJ    17.78 316 P      43 15.70   1.3
KAKJ    17.80 347 P      43 13.90  -0.6
                  eS     46 05.40
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30d 09h

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CHJJ   17.94 344 P      43 15.70  -0.1
                eS      46 07.30
TKSJ   18.00 329 eP     43 17.30   0.9
TSRJ   18.46 336 eP     43 20.80   0.1
MAT    18.62 342 iPc    43 21.40  -0.8
       0.5s    91.55nm          5.6mb
                (S)     46 24.00
KUMJ   18.71 319 P      43 23.70   0.6
MTMJ   18.78 341 P      43 23.40  -0.4
                eS      46 31.50
NIIJ   19.06 345 P      43 26.30   0.0
                eS      46 38.10
YONJ   19.26 330 P      43 28.00  -0.1
SHNJ   19.67 323 P      43 32.10   0.2
YAMJ   19.73 348 eP     43 32.40   0.0
OFUJ   20.35 352 eP     43 37.80  -0.3
HOOJ   23.47 357 eP     44 06.70   0.4
MRRJ   23.72 352 eP     44 08.90   0.5
KUSJ   24.14 359 P      44 11.40  -0.7
SSE    24.83 304 Pd     44 17.50  -0.9
       1.0s    12.00nm          4.5mb
ASAJ   25.24 356 P      44 22.40   0.5
PMG    28.19 176 eP     44 47.50  -0.2
SNY    29.33 326 eP     44 57.60   0.3
       1.0s    20.00nm          4.7mb
CN2    29.85 331 eP     45 01.70  -0.1
                ePcP    47 44.00
GZH    29.96 284 P      45 04.30   1.4
WHN    30.19 299 Pd     45 05.50   0.7
                PcP     47 46.50
BJI    32.64 316 eP     45 25.00  -0.3
       1.4s    44.00nm          4.9mb
                ePcP    47 52.00
                eS      50 03.50
                eScP    50 38.00
                eScS    54 40.00
TIY    34.13 310 iPd    45 38.80   0.9
MTN    34.43 205 iPc    45 40.80   0.4
       0.9s   407.00nm          6.1mb X
XAN    35.56 302 iPd    45 49.90   0.2
HHC    36.10 315 Pd     45 54.80   0.7
       1.0s    50.00nm          5.1mb
                eS      50 54.00
GYA    36.20 289 iPd    45 55.60   0.5
       1.0s    40.00nm          5.0mb
                PcP     48 03.40
                S       50 53.40
BTO    37.04 313 P      46 02.50   0.6
KNA    38.01 206 eP     46 10.00   0.2
CTAO   38.75 178 iPd    46 16.50   0.7
QIS    39.58 188 iPc    46 22.70   0.2
       0.4s    25.00nm          5.1mb
                i       48 14.00
KMI    39.69 287 iPd    46 25.00   1.3
WRA    40.02 196 P      46 25.00  -1.1
       0.3s    57.50nm          5.6mb
LZH    40.11 304 iPd    46 28.00   1.1
       1.5s   170.00nm          5.4mb
SMY    40.60  27 iPc    46 32.10   1.9
LOE    41.22 275 iPd    46 35.50  -0.1
NST    43.02 273 iPd    46 51.00   1.1
CHTO   43.63 278 iP     46 55.10   0.5
       0.8s    24.71nm          4.8mb
                i       48 28.00 497kmX
ASPA   43.70 195 iPd    46 55.00   0.0
       0.3s    65.10nm          5.6mb
                iPcP    48 28.10
                ePcS    52 21.10
                eS      52 40.10
BDT    43.81 275 iPd    46 56.20   0.2
       0.6s    66.10nm          5.3mb
GTA    44.02 308 P      46 57.40  -0.2
       0.6s    20.00nm          4.8mb
                PcP     48 29.80
                ScP     51 23.20
KGM    44.25 253 ePc    47 01.00   1.6
YAK    44.42 350 iPc    46 59.20  -0.9
                ePP     48 26.00
                eS      52 47.00
                eSS     55 45.00
ADK    44.44  33 ePd    47 00.30  -0.1
       0.6s   112.32nm          5.6mb
KHT    44.66 272 eP     47 03.60   1.1
SNG    44.80 261 eP     47 04.80   1.2
QLP    45.21 181 iPd    47 06.20  -0.3
       0.4s   112.00nm          5.7mb
RMO    45.24 175 iPd    47 11.50   4.7X
       0.8s    58.00nm          5.2mb
                i       48 39.70 459kmX
IPM    45.33 257 ePd    47 08.90   1.1
       0.9s    42.50nm          5.0mb
DZM    45.72 152 iPd    47 11.00   0.3
MBL    46.89 213 eP     47 19.00  -0.4
       0.3s    10.00nm          4.9mb
WARB   48.28 202 iPc    47 30.10   0.2
SHL    49.49 288 iP     47 38.50  -0.6
COO    49.61 172 eP     47 41.00   1.4
CMS    50.09 179 iPd    47 43.20   0.1
       0.8s    22.00nm          4.7mb
NANU   50.35 216 iPc    47 44.20  -1.0
STK    50.59 184 iPd    47 46.40  -0.4
       0.9s    37.10nm          4.9mb
                eS      54 13.90
FORR   52.10 199 iPd    47 57.00  -0.7
       0.4s    71.00nm          5.4mb
BWA    53.11 177 iPd    48 05.30   0.4
                i       49 03.70 268kmX
WMQ    53.80 311 P      48 10.00   0.2
       1.0s   100.00nm          5.1mb
                S       55 00.00
CAN    54.03 176 iPd    48 11.60   0.2
                i       49 06.50 249kmX
CNB    54.05 176 iPc    48 11.70   0.2
       0.8s    36.00nm          4.8mb
SDN    54.59  35 ePc    48 14.60  -0.4
COOL   54.60 205 eP     48 14.00  -1.4
GUN    54.69 291 Pd     48 16.76   0.1
       0.6s   193.00nm          5.6mb
PKI    55.14 291 Pd     48 19.26  -0.5
       0.5s   167.00nm          5.6mb
KKN    55.23 291 Pd     48 19.98  -0.3
DMN    55.40 291 Pd     48 21.26  -0.2
       0.5s   168.00nm          5.6mb
GKN    55.78 291 Pd     48 23.80  -0.2
BFD    55.82 183 iPc    48 20.40  -3.3X
       0.5s    22.00nm          4.7mb
TOO    56.16 180 iPd    48 26.20   0.2
       0.7s    22.00nm          4.6mb
ANM    56.23  23 eP     48 26.70   0.4
BAL    56.31 210 iPd    48 26.30  -0.9
       0.5s    68.00nm          5.2mb
KLB    56.66 208 iPd    48 28.70  -0.9
       0.7s    57.00nm          5.0mb
MUN    57.69 209 eP     48 35.90  -0.6
SVW    58.90  29 P      48 43.60  -0.8
       0.6s    34.48nm          4.8mb
TTA    59.32  27 iPc    48 47.40   0.2
KDC    59.52  33 eP     48 48.40  -0.1
IMA    61.31  24 ePc    49 00.50   0.2
       0.9s     5.40nm          3.9mb X
TAU    61.52 178 eP     49 01.00  -0.6
PMR    62.04  30 ePc    49 02.80  -2.0
       0.5s    30.17nm          4.9mb
                e       50 34.20 431kmX
NDI    62.22 293 iPd    49 06.00  -0.5
       0.5s    70.42nm          5.3mb
HYB    62.95 280 iPd    49 11.00  -0.4
       1.0s    70.00nm          5.0mb
FBA    63.35  26 P      49 11.70  -1.5
       0.6s    12.81nm          4.5mb
GBA    64.90 277 Pc     49 22.20  -1.5
       0.6s    35.00nm          5.0mb
BALM   65.19  31 P      49 23.70  -1.2
KOD    65.76 273 iP     49 29.10  -0.3
       0.9s    72.27nm          5.1mb
GAR    66.76 305 eP     49 34.40  -0.6
POO    67.07 283 iPd    49 35.50  -1.6
       0.8s    67.16nm          5.2mb
QUE    70.82 296 iPd    49 54.00  -5.4X
MBC    73.10  14 eP     50 11.50   0.1
       0.5s     7.00nm          4.4mb
MAIO   75.67 304 iPd    50 27.20   0.6
       0.9s    17.05nm          4.6mb
YKA    78.06  28 eP     50 38.70  -0.1
       0.6s     6.10nm          4.2mb
PNT    79.23  42 eP     50 46.00   0.8
       0.8s    10.00nm          4.3mb
WDC    79.66  51 eP     50 48.80   1.2
MIN    80.41  51 eP     50 52.00   0.3
BRK    80.62  53 eP     50 53.30   0.7
BKS    80.64  53 eP     50 53.30   0.6
ORV    80.71  51 P      50 52.60  -0.5
NEW    81.12  42 P      50 55.00   0.0
       0.7s    18.00nm          4.7mb
                pP      53 02.20 600km
PRS    81.75  55 eP     50 59.30   0.9
CMB    81.99  53 P      50 58.50  -1.1
       0.6s    16.50nm          4.7mb
PRI    82.35  55 eP     51 02.70   1.1
IR4    82.68 305 iPd    51 03.80   0.5
IR7    82.77 305 ePd    51 04.00   0.3
IR1    82.79 305 ePd    51 04.00   0.2
FRI    82.83  53 eP     51 04.70   1.0
SYP    83.38  56 eP     51 07.00   0.2
SES    84.11  39 ePd    51 10.00   0.1
       0.9s    66.00nm          5.3mb
ISA    84.19  54 eP     51 11.00   0.4
TNP    84.35  52 P      51 11.20  -0.3
       0.7s    11.11nm          4.6mb
CLC    84.82  54 eP     51 14.00   0.4
OBN    84.83 327 iPd    51 12.00  -1.2
       1.2s   *******nm          8.0mb X
LRM    84.96  43 ePd    51 14.60   0.2
SBB    85.01  55 eP     51 15.00   0.4
RVR    85.60  56 eP     51 18.00   0.7
GSC    85.60  54 eP     51 18.00   0.6
PEC    85.80  56 P      51 18.00  -0.4
KAF    86.03 336 iP     51 16.90  -2.0
       0.6s    18.90nm          5.0mb
PLM    86.22  56 P      51 20.00  -0.6
FFC    87.21  32 eP     51 24.50  -0.1
       0.9s    27.00nm          5.0mb
NUR    87.60 335 eP     51 24.70  -1.6
GLA    87.92  56 eP     51 29.00   0.6
PV09   90.10  49 P      51 38.60  -0.1
RSSD   91.09  42 P      51 42.40  -0.6
       0.7s     6.40nm          4.8mb
                pP      53 51.00 591km
HFS    92.02 338 eP     51 44.30  -2.4
       0.6s     8.80nm          5.0mb
NB2    92.22 339 P      51 45.80  -1.9
       0.7s     4.70nm          4.6mb
GOL    92.22  47 P      51 48.50   0.1
       0.7s     3.28nm          4.5mb
GLD    92.30  47 P      51 49.80   1.1
       0.8s    30.59nm          5.4mb
                pP      53 59.00 593km
ALQ    93.55  51 eP     51 55.00   0.5
       1.0s     3.50nm          4.5mb
CLL    98.53 332 eP     52 14.00  -2.4
SKO   100.22 321 iPdiff52 23.50  -0.6
MEU   107.19 320 PKP    56 40.50 -20.3X
                eSg     56 45.50
LSZ   119.91 263 iPKPc  57 25.90   0.3
BUL   120.51 257 iPKPc  57 25.20  -1.5
       1.0s    25.00nm
NVL   121.26 196 PKPd   57 26.00  -0.4
KIC   141.14 307 PKP    57 59.20  -6.5X
       0.6s     5.50nm
TIC   141.17 308 PKP    57 59.10  -6.7X
LIC   141.45 308 PKP    58 01.00  -5.2X
       0.6s     9.00nm
LNV   144.19 122 ePKPd  58 10.00  -0.3
TACH  144.65 122 ePKP   58 12.00   0.8
CHCH  144.81 122 ePKP   58 12.50   1.0
SAN   144.93 122 ePKP   58 12.00   0.4
PEL   144.99 121 iPKPc  58 13.00   1.2
       0.7s    37.67nm
PCH   145.00 122 ePKP   58 12.00   0.1
LPB   148.26  91 PKP    58 19.00   1.1
      S.D. = 0.8  on 145 of 152 obs.
-----------------------------------
?  JUL  30, 1991  10h 32m 47.84± 1.07s
   36.966 N ±14.4km   29.237 E ± 8.8km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                            (366)
      MD 3.8 (ISK).

ELL     0.58 112 iPg    32 59.70   0.0
                eSg     33 08.50
YER     0.78 283 ePg    33 03.00  -0.1
                eSg     33 15.00
KHL     1.37   9 ePn    33 13.00  -0.1
IZM     2.12 313 ePn    33 24.00   0.2
      S.D. = 0.2  on   4 of   4 obs.
-----------------------------------
&  JUL  30, 1991  11h 23m 45.70s
   59.162 N          136.478 W
   DEPTH =  10.0km  (geophysicist)
 SOUTHEASTERN ALASKA               ( 19)
      <PGC>. ML 4.0 (PGC), 3.6 (AEIC).
```

Felt strongly at Pleasant Camp, British Columbia.

```
PLBC     0.30  11 Pd     23 51.50  -0.5
PNL      1.58 290 eP     24 13.82   0 0
                  eS     24 35.50
YKU      1.71 285 iP     24 16.48   0.8
                  eS     24 38.85
WHC      1.73  23 Pc     24 16.40   0.4
HYT      1.75 343 Pd     24 16.00  -0.4
SIT      2.20 163 eP     24 21.70  -1.0
TCBC     2.99 112 P      24 32.60  -1.6
CTGM     3.03 309 eP     24 35.29   0.6
                  eS     25 14.92
DLB      3.42 100 P      24 38.50  -1.7
BALM     3.49 305 eP     24 41.80   0.6
TGL      3.57 299 eP     24 42.29  -0.1
CROM     3.71 298 eP     24 44.30  -0.2
FKBC     3.93 125 P      24 46.00  -1.4
BOB      3.94 120 P      24 46.50  -1.2
GLB      4.31 305 eP     24 53.15   0.4
KLU      5.24 301 eP     25 04.38  -1.6
PMR      6.73 297 e(P)   25 19.00  -7.9
FBA      7.83 322 e(P)   25 55.00  12.7
IMA     10.49 318 e(P)   26 17.50  -1.7
YKA     11.16  63 eP     26 28.10  -0.1
      0.4s     0.60nm          4.3mb
      20 obs. associated
```

```
*  JUL  30, 1991  11h 33m 52.86± 1.09s
   50.197 N ±17.4km   18.936 E ± 6.9km
   DEPTH =  10.0km  (geophysicist)
 POLAND                                (548)
      ML 3.2 (KRA).

RAC      0.49 257 eP     34 02.00  -0.8
                  iS     34 09.00
KRA      0.66 102 iPgd   34 05.50  -0.5
                  iSg    34 15.10
SPC      1.32 139 iPn    34 17.80   0.4
                  iSg    34 38.70
                  Lg     34 42.00
KSP      1.81 292 iPg    34 24.60   0.3
      0.7s    57.00nm
                  iS     34 48.00
ZST      2.34 212 eP     35 06.50  34.6X
SRO      2.42 190 eP     34 50.40  17.3X
                  e      35 02.80
PRU      2.84 267 eP     34 45.20   6.2X
                  eSg    35 17.60
KHC      3.64 255 eP     34 51.00   0.5
                  e      35 15.50
                  Sg     35 45.50
      S.D. = 0.9  on   5 of   8 obs.
```

```
   JUL  30, 1991  11h 42m 09.71± 0.83s
   45.525 N ± 8.6km   15.276 E ± 6.0km
   DEPTH =   5.0km  (geophysicist)
 YUGOSLAVIA                            (383)
      MD 2.4 (TRI). ML 2.0 (KBA). Felt
      strongly at Bojanci.

VBY      0.02 214 iPg    42 10.00  -0.9
ZAG      0.58  59 e(Pg)  42 21.50   0.3
                  iSg    42 29.50
PTJ      0.61  52 ePg    42 21.90   0.0
                  eSg    42 31.00
RIY      0.65 254 e(Pg)  42 23.30   0.5
                  iS     42 29.40
LJU      0.73 315 ePg    42 23.50  -0.9
                  e      42 33.50
                  eSg    42 35.80
TRI      1.08 280 ePg    42 31.00   0.6
                  iSg    42 45.80
KBA      2.05 320 iPgd   42 48.30   2.9X
                  iSg    43 16.90
      S.D. = 0.9  on   6 of   7 obs.
```

```
*  JUL  30, 1991  12h 27m 56.28± 1.35s
   42.859 N ±11.9km   24.080 E ± 8.0km
   DEPTH =  10.0km  (geophysicist)
 BULGARIA                              (359)

VTS      0.70 248 iPg    28 09.00  -1.2
PLD      0.88 148 iPg    28 12.00  -1.2
PVL      0.99  68 iPd    28 15.00   0.0
RZN      1.26 158 iPgc   28 19.00  -0.9
MMB      1.30 192 iPgc   28 21.00   0.7
DIM      1.35 126 eP     28 22.00   1.0
VAY      1.90 217 ePn    28 30.60   1.5
      S.D. = 1.4  on   7 of   7 obs.
```

```
?  JUL  30, 1991  12h 37m 51.47± 6.27s
   30.484 S ±20.7km  179.374 W ±30.3km
   DEPTH = 396.7 ± 57.4 km
   4.2mb (  4 obs.)
 KERMADEC ISLANDS REGION               (177)

DZM     15.22 300 iPd    41 08.70   0.1
CTAO    32.64 280 iPd    43 50.00   0.0
STK     33.31 257 iPd    43 56.30   0.8
        0.3s     2.80nm          4.1mb
ASPA    41.92 268 iPd    45 06.50  -0.3
        1.0s     5.80nm          3.9mb
WR2     42.89 273 iPc    45 13.50  -1.0
        0.3s    17.70nm          4.9mb
FORR    44.83 256 eP     45 30.00   0.4
SPA     59.69 180 iPc    47 17.40  -0.3
        1.0s    12.00nm          4.3mb
                  i      47 28.50
KAF    144.22 340 ePKP   56 35.40  -6.0X
        0.5s     3.90nm
NUR    145.97 339 ePKP   56 43.00  -1.4
        0.3s     3.90nm
NB2    148.64 350 PKP    56 49.50   0.8
        0.8s     4.70nm
HFS    149.08 347 ePKP   56 50.20   0.9
        0.9s     6.60nm
      S.D. = 0.9  on  10 of  11 obs.
```

```
   JUL  30, 1991  14h 32m 23.65± 1.26s
   30.035 N ±10.2km  131.276 E ± 5.7km
   DEPTH =  44.3 ± 11.6 km
   4.5mb ( 14 obs.)
 KYUSHU, JAPAN                         (235)

KAGJ     1.20 344 iP+    32 44.70   0.5
KUMJ     2.52 351 P      33 03.40   0.3
                  S      33 33.70
SHNJ     4.08 358 P      33 25.20   0.0
TKSJ     4.59  30 P      33 31.90  -0.4
                  S      34 20.50
YONJ     5.46  19 P      33 43.70  -1.0
                  S      34 41.80
WKYJ     5.55  40 P      33 44.70  -1.3
TSRJ     6.77  35 P      34 02.20  -0.7
IIDJ     7.79  44 eP     34 18.40   1.1
MTMJ     8.51  38 eP     34 32.20   4.9X
MAT      8.70  40 eP     34 29.00  -0.9
        0.5s     4.93nm          4.8mb
                  eS     36 29.00
SSE      8.76 279 Pd     34 31.50   0.8
        0.8s    10.00nm          4.9mb
      Z  20s     1.40um          5.3Msz
      N  12s     0.80um
      E  12s     1.50um
                  pP     34 35.20
CHJJ     8.83  45 eP     34 31.70   0.1
NJ2     10.84 284 eP     34 57.50  -1.7
      Z  14s     0.90um
      E  14s     1.30um
TIA     13.36 301 eP     35 34.50   1.7
      Z  16s     1.70um
      N  13s     0.60um
      E  13s     1.40um
CN2     14.50 343 Pc     35 54.00   6.3X
        1.0s    30.00nm          4.7mb
      Z  14s     5.50um          4.0MszX
      N  12s     1.00um
      E  12s     0.30um
                  epP    36 01.00
WHN     14.64 276 eP     35 50.50   1.0
      Z  16s     0.80um
      E  12s     1.20um
BJI     15.87 313 eP     36 07.50   2.0
        0.9s     7.00nm          3.8mb
      Z  14s     2.65um          4.6Msz
      N  13s     0.78um
      E  13s     1.44um
TIY     17.40 301 eP     36 28.60   3.8X
      Z  13s     1.90um
      N  14s     0.86um
      E  13s     0.95um
HHC     19.31 309 eP     36 50.00   2.1
      Z  16s     2.10um
      N  26s     4.40um
      E  26s     5.70um
XAN     19.36 288 P      36 45.70  -2.8X
BTO     20.25 307 eP     36 58.00   0.1
      N  14s     0.60um
      E  14s     0.80um
GYA     21.96 267 iPc    37 14.80  -0.6
        1.0s    30.00nm          4.7mb
      N  15s     0.90um
      E  15s     0.80um
CD2     23.71 279 eP     37 32.60   0.1
        1.0s    30.00nm          4.8mb
      Z  12s     0.80um          4.4MszX
      E  12s     1.10um
GTA     27.38 298 eP     38 05.60  -1.3
      Z  14s     0.90um          4.5MszX
      E  12s     0.70um
CHG     31.38 257 eP     38 41.00  -1.7
CHTO    31.38 257 iP     38 41.10  -1.6
        0.9s     6.82nm          4.4mb
WMO     37.03 304 P      39 30.50  -0.5
      Z  16s     0.60um          4.5MszX
                  eS     45 16.00
GUN     39.58 279 P      39 52.58  -0.3
PKI     40.06 278 P      39 55.46  -1.4
KKN     40.12 279 P      39 56.68  -0.5
DMN     40.32 278 P      39 57.16  -1.7
WRA     49.78 176 P      41 15.00   1.1
        1.1s     1.70nm          4.0mb
WR2     49.78 176 eP     41 16.00   2.0
        0.9s     1.60nm          4.0mb
GAR     50.20 298 eP     41 16.90  -0.3
ASPA    53.45 177 eP     41 46.40   4.8X
        1.0s     3.60nm          4.3mb
MAIO    59.17 297 eP     42 23.00   0.6
MBC     65.50  14 eP     43 04.50   0.5
        1.0s     6.00nm          4.6mb
YKA     73.95  26 eP     43 56.80   1.1
        0.9s     1.00nm          3.8mb
HFS     76.69 333 eP     44 11.70   0.3
        0.5s     2.80nm          4.5mb
      Z  16s     0.19um          4.5MszX
                  LR     19 43.00
NB2     77.08 334 P      44 14.00   0.4
        0.6s     2.60nm          4.4mb
      S.D. = 1.2  on  35 of  40 obs.
```

```
&  JUL  30, 1991  14h 32m 47.55s
   60.842 N          150.340 W
   DEPTH =  46.3km
 KENAI PENINSULA, ALASKA               ( 14)
      <AEIC>. ML 3.3 (AEIC), 2.8
      (PMR).

SLKM     0.34 170 iPd    32 56.58  -0.3
NKA      0.45 258 iPd    32 59.30   1.3
PMS      0.55  43 iPd    32 58.95  -0.4
SUA      0.65 343 iPd    33 00.12  -0.6
                  eS     33 10.37
PWA      0.84  15 iPc    33 02.70  -0.5
SEW      0.86 149 ePc    33 02.23  -1.2
SPU      0.90 293 iPc    33 03.44  -0.6
                  iS     33 16.25
NNL      0.93 211 ePc    33 04.64   0.2
CGLM     0.94 301 ePc    33 04.07  -0.5
PLRM     0.95  37 iPc    33 03.67  -1.0
                  eS     33 16.64
PMR      0.95  37 iPc    33 04.20  -0.5
CKL      1.04 291 iPc    33 05.38  -0.6
NCG      1.05 303 iPc    33 05.65  -0.5
                  eS     33 20.17
RDT      1.05 256 iPc    33 05.43  -0.7
                  eS     33 20.08
KNK      1.08  57 iPc    33 05.68  -0.8
                  iS     33 20.43
BGL      1.08 294 iPc    33 06.06  -0.6
                  eS     33 21.29
GHO      1.16  36 iPc    33 06.74  -0.9
DFR      1.18 259 iPc    33 07.12  -0.9
REF      1.22 254 iPc    33 07.87  -0.7
                  eS     33 24.61
RDN      1.24 256 iPc    33 07.86  -1.0
                  iS     33 24.38
RSO      1.25 253 iPc    33 08.33  -0.7
RDW      1.27 255 iPc    33 08.54  -0.8
RED      1.27 252 iPc    33 08.50  -0.8
```

30d 14h

		eS	33	25.45	
SKT	1.28	334 iPc	33	08.65	-0.7
		eS	33	25.70	
KNIM	1.38	110 iPc	33	08.33	-2.4
CNPM	1.39	199 ePc	33	10.32	-0.6
		eS	33	27.74	
LTI	1.47	122 ePc	33	10.02	-2.0
CUT	1.57	1 ePc	33	12.65	-0.7
GLI	1.59	87 iPc	33	11.22	-2.5
		eS	33	30.91	
VZW	1.86	82 ePc	33	15.71	-1.9
VLZ	1.98	80 ePc	33	17.18	-1.9
PDB	2.19	243 eP	33	21.83	-0.3
KLU	2.24	71 iPc	33	21.08	-1.9
		eS	33	47.34	
TOA	2.37	56 eP	33	24.20	-0.6
CDD	2.54	222 ePc	33	26.33	-0.9
SVW	2.59	278 iPc	33	26.50	-1.5
TRF	2.62	1 eP	33	29.28	0.7
RND	2.67	15 eP	33	29.21	0.1
KTH	2.73	355 eP	33	29.21	-0.9
SDG	2.84	51 eP	33	29.55	-2.0
GLB	3.22	76 ePc	33	34.15	-2.8
FBA	4.24	15 eP	33	50.20	-1.0
IMA	5.46	346 eP	34	08.90	0.4

43 obs. associated

? JUL 30, 1991 15h 56m 24.02± 0.98s
45.413 S ±12.5km 77.102 W ±26.0km
DEPTH = 33.0km (normal)
4.8mb (3 obs.) 4.8Msz (3 obs.)
OFF COAST OF SOUTHERN CHILE (143)

LNV	12.25	23 eP	59	17.00	-1.9
PEL	13.21	24 eP	59	27.00	-4.9X
ARE	29.24	11 eP	02	27.00	1.6
LPB	29.77	18 P	02	39.70	9.5X
Z 18s	2.75um			4.9Msz	
		S	07	40.00	
		LR	11	28.00	
PPD	31.44	51 (P)	02	45.00	0.5
BAO	38.46	49 ePc	03	44.50	-0.2
SPA	44.78	180 iPc	04	34.90	-1.2
0.9s	9.09nm			4.7mb	
Z 19s	1.77um			5.0Msz	
		e	18	20.00	
NVL	47.62	153 ePc	04	58.00	-0.2
		e	05	16.00	
		ePP	06	51.00	
		(S)	11	58.00	
SOB1	47.62	52 eP	04	58.10	-0.8
		e	05	04.80	
LIC	82.00	73 P	08	44.00	1.8
Z 20s	0.15um			4.4Msz	
ALQ	84.28	336 eP	08	56.20	2.6X
1.3s	9.13nm			4.8mb	
GLA	85.26	329 eP	09	17.00	18.7X
BUL	86.35	115 iPc	09	08.70	4.4X
1.0s	10.00nm			5.0mb	
SBB	87.83	327 eP	09	24.00	13.1X
GSC	88.00	328 eP	09	24.00	12.3X
CLC	88.75	328 eP	09	15.00	-0.3
ISA	88.94	327 eP	09	24.00	7.8X
HYB	145.47	136 ePKP	16	01.00	0.6
MAIO	146.28	90 iPKPc	16	04.20	2.8X
QUE	148.09	106 ePKP	16	10.20	5.6X
MAT	152.09	264 ePKP	16	29.00	18.8X
CHG	153.27	172 ePKP	16	34.50	22.1X
YAK	157.28	327 ePKP	16	41.00	24.6X
LZH	170.66	185 ePKP	16	36.00	6.8X
2.0s	25.00nm				
		sP	16	47.00	

S.D. = 1.3 on 10 of 24 obs.

& JUL 30, 1991 16h 13m 25.21s
60.219 N 147.660 W
DEPTH = 21.7km
3.8mb (3 obs.)
SOUTHERN ALASKA (2)
<AEIC>. ML 4.0 (AEIC), 3.8 (PMR). Felt (IV) at Seward.

KNIM	0.14	344 iPd	13	29.37	-0.4
		eS	13	33.34	
LTI	0.20	209 iPd	13	30.34	-0.3
		eS	13	35.10	
MTU	0.23	179 iPd	13	31.06	0.1
HIN	0.60	72 iPc	13	36.38	-0.7
GLI	0.72	23 iPd	13	37.39	-1.6
		eS	13	47.62	
SEW	0.90	263 iPc	13	40.53	-1.5
CVA	1.00	70 iPc	13	42.20	-1.6
		eS	13	56.51	
VZW	1.00	32 iPd	13	41.98	-1.8
		eS	13	56.54	
MID	1.04	139 iPd	13	44.50	0.2
VLZ	1.13	35 iPd	13	43.93	-1.7
		eS	13	59.87	
SGAM	1.25	76 iPc	13	45.91	-1.6
		eS	14	02.62	
KNK	1.26	342 iPd	13	46.05	-1.5
		eS	14	02.64	
SLKM	1.31	284 iPc	13	46.42	-1.8
PMS	1.39	319 iPc	13	47.90	-1.5
RAGM	1.50	82 eP	13	49.49	-1.5
KLU	1.54	33 iPd	13	50.47	-1.1
PLRM	1.55	333 eP	13	50.13	-1.6
PMR	1.55	333 iP	13	51.00	-0.7
0.5s	661.16nm				
GHO	1.68	339 iPc	13	52.16	-1.5
		eS	14	13.61	
HMT	1.70	85 ePc	13	52.06	-1.8
PWA	1.80	324 iPc	13	53.90	-1.4
NKA	1.85	288 iPc	13	55.43	-0.6
CNPM	1.93	250 iPc	13	55.24	-2.1
		eS	14	18.59	
SUA	1.96	311 iPc	13	55.88	-1.9
		eS	14	20.54	
TOA	2.03	20 eP	13	58.90	0.2
HOM	2.08	256 ePc	13	57.58	-1.8
TZL	2.13	30 ePd	13	59.82	-0.3
XLV	2.19	251 ePc	13	58.54	-2.4
		eS	14	24.77	
GLB	2.25	55 ePc	14	00.33	-1.6
		eS	14	26.32	
CROM	2 30	74 iPc	14	00.63	-2.1
		eS	14	28.77	
SPU	2.37	296 iPc	14	00.95	-2.6
		eS	14	29.76	
RDT	2.38	281 iPc	14	00.92	-2.8
CGLM	2.40	299 ePc	14	01.59	-2.4
		eS	14	31.06	
WAX	2.40	82 ePc	14	01.55	-2.5
TGL	2.45	75 ePd	14	02.26	-2.5
CKL	2.50	295 iPc	14	02.79	-2.7
NCG	2.50	300 iPc	14	03.22	-2.3
		iS	14	33.86	
REF	2.52	278 iPc	14	03.15	-2.7
DFR	2.52	281 iPc	14	02.95	-2.8
CUT	2.53	331 ePc	14	03.81	-2.0
SDG	2.53	23 ePd	14	04.95	-0.9
RSO	2.54	278 iPc	14	03.50	-2.7
BGL	2.55	296 iPc	14	03.70	-2.5
RED	2.55	277 iPc	14	03.38	-2.8
RDN	2.55	279 iPc	14	03.33	-2.9
RDW	2.57	278 iPc	14	03.84	-2.8
SKT	2.58	315 iPc	14	03.98	-2.6
		eS	14	35.05	
BALM	2.74	70 ePc	14	06.72	-2.3
SYI	2.91	238 eP	14	09.59	-1.5
HUR	2.93	342 eP	14	11.90	0.5
PAX	2.95	20 ePd	14	10.71	-1.2
AUE	3.01	256 ePc	14	10.75	-1.9
AUH	3.05	256 eP	14	11.44	-1.7
AUI	3.05	256 ePd	14	11.24	-1.9
		eS	14	47.29	
CTGM	3.21	74 ePc	14	13.87	-1.7
RND	3.25	350 eP	14	15.09	-1.0
		eS	14	51.63	
CDD	3.31	250 eP	14	14.85	-2.0
		eS	14	53.60	
PDB	3.31	265 ePc	14	13.73	-3.1
TRF	3.47	340 eP	14	17.61	-1.8
KDC	3.52	227 eP	14	17.09	-2.7
MCNL	3.54	256 eP	14	17.18	-3.0
MCK	3.58	351 eP	14	20.05	-0.7
KTH	3.68	337 eP	14	20.53	-1.8
TMW	3.82	33 eP	14	22.91	-1.2
SVW	4.02	286 eP	14	23.00	-3.9
BWN	4.06	349 eP	14	26.39	-1.1
PNL	4.19	94 eP	14	25.74	-3.7
WRH	4.27	357 eP	14	29.05	-1.5
NEA	4.42	352 eP	14	31.29	-1.4
CC8	4.45	359 eP	14	30.53	-2.4
FBA	4.70	359 eP	14	39.30	2.7
MDM	4.77	357 eP	14	34.93	-2.6
TTA	4.83	308 eP	14	34.70	-3.8
IMA	6.47	338 eP	15	00.00	-1.7
		i	15	04.60	
SIT	7.17	111 eP	15	16.10	4.7
YKA	15.91	67 eP	17	15.70	6.6
0.9s	2.40nm			3.3mb	
NEW	21.26	111 eP	18	05.00	-6.9
0.9s	3.51nm			3.8mb	
SES	22.75	99 eP	18	25.00	-1.7
RSSD	30.53	102 P	19	37.00	-2.0
1.2s	3.64nm			4.1mb	
MSU	31.11	118 eP	19	43.00	-1.2

80 obs. associated

JUL 30, 1991 17h 12m 45.70± 0.47s
44.061 N ± 4.1km 7.686 E ± 3.8km
DEPTH = 10.0km (geophysicist)
NORTHERN ITALY (545)
ML 2.0 (LDG), 1.8 (GEN).

IMI	0.21	136 P	12	49.96	-0.4
		S	12	53.24	
ENR	0.25	311 P	12	51.05	-0.1
		S	12	54.26	
SBF	0.27	223 Pg	12	50.80	-0.6
		Sg	12	54.50	
ROB	0.27	30 P	12	51.49	0.1
		S	12	55.60	
STV	0.32	305 P	12	52.28	-0.1
		S	12	56.21	
FIN	0.40	68 P	12	54.26	0.3
		S	12	59.59	
PZZ	0.61	317 P	12	57.75	-0.4
		S	13	05.66	
FRF	0.90	237 Pg	13	03.30	0.3
		Sg	13	14.60	
LMR	1.12	230 Pg	13	07.10	0.4
		Sg	13	22.20	
LRG	1.14	238 Pg	13	07.30	0.4
		Sg	13	23.00	

S.D. = 0.4 on 10 of 10 obs.

& JUL 30, 1991 17h 31m 10.30s
38.810 N 122.778 W
DEPTH = 5.0km
NORTHERN CALIFORNIA (36)
<BRK>. ML 3.6 (BRK).
Mo=6.2*10**14 Nm (BRK). Felt at Cobb.

ZSP	0.96	154 iPc	31	28.26	-0.7
BRK	1.02	156 iPd	31	29.90	-0.1
BKS	1.03	155 eP	31	28.30	-1.8
		ec	31	29.10	
ORV	1.24	53 eP	31	32.01	-1.8
PCC	1.34	166 ePc	31	33.68	-1.9
MHC	1.72	148 ePd	31	39.50	-1.7
ARN	1.76	146 eP	31	39.40	-2.3
WDC	1.78	6 eP	31	42.30	0.4
GCC	1.88	161 ePc	31	40.77	-2.6
CMB	2.03	112 iPc	31	44.64	-1.0
		iS	32	09.81	
FHC	2.20	335 e(P)	31	56.30	8.3
SAO	2.30	152 eP	31	47.34	-2.1
LLA	2.63	146 ePd	31	52.14	-2.0
PRS	2.72	155 eP	31	52.83	-2.6
PRI	3.15	147 eP	32	00.62	-1.0
BONR	3.62	102 eP	32	08.00	-0.5
KVN	3.66	85 eP	32	07.50	-1.4
ISA	4.65	131 eP	32	22.00	-1.0
SYP	4.83	151 eP	32	29.00	3.4
CLC	5.10	124 eP	32	57.00	27.8
SBB	5.72	134 eP	32	35.00	-3.1
GSC	5.92	124 eP	32	47.00	6.1

22 obs. associated

? JUL 30, 1991 19h 27m 06.62± 0.91s
37.936 N ±10.8km 15.007 E ± 7.4km
DEPTH = 10.0km (geophysicist)
SICILY (39B)

MNO	0.25	269 P	27	12.00	0.0
		eSg	27	17.20	
ATN	0.42	58 P	27	15.20	-0.1
		eSg	27	22.50	

```
MEU      0.84 184 P      27 22.80   0.0
                 eSg     27 36.70
SOI      0.84  80 P      27 22.90   0.1
                 eSg     27 36.40
     S.D. = 0.1  on   4 of   4 obs.
-----------------------------------
?  JUL  30, 1991  19h 47m 00.71± 0.76s
   12.074 N ±20.1km  143.261 E ±29.0km
   DEPTH =  33.0km  (normal)
   4.4mb (  3 obs.)
 SOUTH OF MARIANA ISLANDS          (210)

GUA      2.17  48 eP     47 35.10  -0.1
                 eS      48 02.20
PJG      2.17  46 eP     47 34.70  -0.5
WR2     33.00 195 eP     53 34.20  -0.9
        0.9s      5.10nm          4.4mb
ASPA    36.68 194 iPc    54 06.90   0.4
        0.6s      3.40nm          4.4mb
MBC     80.11  14 eP     59 08.00  -0.4
YKA     84.92  27 eP     59 33.40   0.0
        0.8s      1.60nm          4.3mb
PAS     90.27  55 eP     00 04.00   4.1X
CLC     90.30  53 eP     00 01.00   0.9
SBB     90.41  55 eP     00 01.00   0.4
RVR     90.95  55 eP     00 06.00   3.0X
GSC     91.06  54 eP     00 04.00   0.4
LPB    149.31 102 (PKP)  06 53.00   8.3X
CNCB   149.40 103 PKP    06 51.00   6.0X
     S.D. = 0.7  on   9 of  13 obs.
-----------------------------------
*  JUL  30, 1991  20h 32m 56.44± 0.91s
   16.460 N ±18.0km   94.064 W ± 9.9km
   DEPTH = 115.1 ± 13.2 km
   4.2mb (  2 obs.)
 OAXACA, MEXICO                    ( 60)

SCX      1.40  78 iP     33 23.75   1.0
                 iS      33 43.00
TPX      2.32 131 iP     33 33.50  -0.8
                 iS      34 03.00
OXX      2.62 284 iP     33 39.00   0.5
                 iS      34 09.00
LVVM     3.97 326 iP     33 54.25  -2.2
                 iS      34 38.00
IISM     4.04 309 iP     33 57.00  -0.3
                 iS      34 42.50
IIT      4.78 303 eP     34 09.50   1.8
PPM      5.06 301 iP     34 11.00  -0.8
ACX      5.57 275 eP     34 17.00  -1.3
TAC      5.69 302 (P)    34 02.00 -18.3X
MRX      7.51 297 iP     34 47.00   2.2
MEO     18.69 348 iPd    37 08.30  -0.2
YKA     48.20 347 eP     41 26.20  -0.6
        0.4s      2.50nm          4.4mb
NB2     82.94  28 P      45 10.20   0.7
        0.7s      1.50nm          4.0mb
WR2    133.99 258 ePKP   52 03.40   0.9X
        0.7s      1.20nm
                 i       52 13.80
     S.D. = 1.5  on  12 of  14 obs.
-----------------------------------
?  JUL  30, 1991  20h 35m 35.63± 3.40s
   66.882 N ±21.6km  155.753 W ±20.5km
   DEPTH =  10.0km  (geophysicist)
 ALASKA                            (676)
     ML 2.9 (AEIC), 2.7 (PMR).

IMA      1.17 134 iPd    35 58.40   0.9
NEA      3.60 127 eP     36 32.66   0.1
                 eS      37 16.93
MDM      3.64 119 eP     36 32.89  -0.3
                 eS      37 19.41
BWN      3.77 133 eP     36 35.35   0.2
FBA      3.82 118 e(P)   36 37.20   1.4
KTH      3.91 146 eP     36 36.73  -0.4
CCB      3.97 121 eP     36 37.52  -0.3
                 eS      37 25.70
TTA      3.97 182 eP     36 38.90   1.0
WRH      3.99 124 eP     36 37.72  -0.3
TRF      4.14 144 eP     36 39.36  -1.1
FYU      4.19  90 eP     36 40.67  -0.2
ANM      4.60 244 e(P)   37 02.30  15.5X
SKT      5.25 158 iP     36 55.01  -1.0
SVW      5.80 179 eP     37 01.10  -2.6X
     S.D. = 0.8  on  12 of  14 obs.
-----------------------------------
?  JUL  30, 1991  21h 22m 59.46± 7.37s
   15.097 N ±45.7km  145.118 E ±116.km
   DEPTH =  33.0km  (normal)
   4.4mb (  3 obs.)
 MARIANA ISLANDS                   (216)

PJG      1.52 189 eP     23 25.10   0.5
GUA      1.56 187 eP     23 24.70  -0.5
                 eS      23 50.20
WR2     36.40 197 eP     30 03.00   0.1
        0.6s      7.40nm          4.8mb
ASPA    40.06 196 iPc    30 36.40   2.9X
        1.2s      7.60nm          4.3mb
LOE     41.66 279 eP     30 44.00  -2.7X
CHG     44.23 282 eP     31 08.00   0.3
CHTO    44.23 282 eP     31 07.40  -0.3
        1.1s      4.42nm          4.2mb
     S.D. = 0.6  on   5 of   7 obs.
-----------------------------------
   JUL  30, 1991  22h 22m 05.96± 0.33s
   30.385 N ± 6.6km   94.795 E ± 4.1km
   DEPTH =  33.0km  (normal)
   4.8mb ( 21 obs.)
 TIBET                             (306)

LSA      3.23 259 P      22 57.00   1.0
CD2      7.74  84 eP     24 00.90   1.7
GUN      8.18 255 P      24 05.16  -0.4
PKI      8.69 253 P      24 10.98  -1.6
KKN      8.72 255 P      24 10.88  -2.1
KMI      8.77 125 eP     24 03.00 -10.7X
                 S       26 34.00
DMN      8.92 254 P      24 15.12  -0.7
GKN      9.19 258 P      24 17.26  -2.1
LZH      9.47  51 eP     24 24.00   0.7
        2.0s     32.00nm          5.2mb
     Z  10s      0.36um          4.6Msz
GTA      9.90  23 eP     24 27.00  -2.2
     Z  12s      0.40um          4.4Msz
GYA     11.15 108 P      24 44.00  -2.3
        1.0s     30.00nm          5.4mb
                 pP      24 52.00
CHTO    12.12 161 eP     25 00.50   1.2
        1.0s     20.00nm          5.2mb
XAN     12.50  69 eP     25 02.50  -1.9
WMO     14.55 339 P      25 30.00  -1.3
                 S       28 14.00
NST     15.44 160 eP     25 47.00   4.0X
KHT     15.92 166 eP     25 53.00   3.9X
BTO     16.03  46 eP     25 53.00   2.5X
TIY     16.33  59 eP     25 54.00  -0.4
     Z  13s      0.72um
     E  10s      0.04um
WHN     16.86  85 eP     25 59.50  -1.6
HHC     17.14  48 eP     26 03.40  -1.2
TIA     19.53  67 eP     26 35.70   2.1
BJI     19.91  55 eP     26 37.50   0.0
        1.2s     20.00nm          4.3mb
NJ2     20.64  79 eP     26 45.00  -0.2
SSE     22.68  81 P      27 07.50   1.8
        1.2s     17.00nm          4.4mb
SNG     23.73 166 eP     27 18.20   2.2
QUE     24.03 277 eP     27 20.30   1.2
CN2     27.70  53 eP     27 53.00   0.0
        1.0s     10.00nm          4.4mb
                 epP     28 02.00  32kmX
MAIO    29.96 291 eP     28 15.00   1.4
OBN     47.66 319 eP     30 42.00   1.2
        1.2s  *******nm          8.1mb X
KAF     53.62 327 eP     31 26.90   1.0
        0.7s      2.90nm          4.4mb
VRI     54.16 307 eP     31 32.00   1.9
NUR     54.37 325 eP     31 31.50   0.1
        0.8s      6.00nm          4.7mb
MLR     54.76 307 eP     31 37.00   2.3
SPC     57.94 312 eP     31 57.70   0.3
SKO     58.68 303 eP     32 02.00  -0.4
HFS     59.83 325 eP     32 09.70  -0.5
        0.6s      0.80nm          4.0mb
KSP     60.11 314 eP     32 13.00   0.8
NB2     60.88 326 P      32 16.60  -0.8
        0.9s      4.30nm          4.6mb
PRU     61.39 314 P      32 22.60   1.7
BRG     61.55 315 e(P)   32 22.90   0.9
        1.1s     10.00nm          4.9mb
KHC     62.22 313 P      32 24.50  -2.1
WRA     62.86 138 P      32 30.00  -1.1
        1.0s      2.60nm          4.3mb
GRB1    63.36 313 eP     32 35.60   1.5
ASPA    65.55 141 eP     32 48.20  -0.4
        1.0s      7.00nm          4.7mb
CDF     66.41 313 eP     32 53.90   0.0
BSF     66.91 313 eP     32 57.10  -0.1
LPG     67.76 311 eP     33 03.00   0.2
        1.0s     10.00nm          4.9mb
LPL     67.76 311 eP     33 03.20   0.4
        1.1s     14.65nm          5.0mb
SBF     67.90 309 eP     33 03.10  -0.3
FRF     68.54 309 eP     33 08.10   0.8
LBF     69.00 313 eP     33 09.10  -1.1
        1.1s      9.75nm          4.8mb
SMF     69.22 313 eP     33 11.40  -0.1
SSF     69.27 313 eP     33 11.40  -0.4
        1.1s      9.75nm          4.8mb
AVF     69.47 313 eP     33 13.10   0.1
        1.2s     14.90nm          4.9mb
MAF     70.19 312 eP     33 16.70  -0.7
        1.2s     14.90nm          4.9mb
MBC     71.49   8 eP     33 25.00   0.2
        1.5s     13.00nm          4.7mb
INK     75.31  17 eP     33 47.50   0.3
LSZ     78.50 245 iP     34 06.30   0.4
BUL     81.05 240 iPc    34 18.00  -1.5
        1.0s     12.50nm          4.9mb
     S.D. = 1.3  on  55 of  59 obs.
-----------------------------------
   JUL  31, 1991  00h 18m 12.30± 0.79s
   51.568 N ± 5.7km    6.805 E ±12.2km
   DEPTH =  10.0km  (geophysicist)
 GERMANY                           (543)

WTS      0.43   0 ePg    18 21.00   0.0
        0.5s     35.00nm
BNS      0.65 159 iPc    18 25.30   0.0
                 ic      18 52.50
ENN      0.98 215 iPg    18 31.30   0.5
        0.4s     11.00nm
                 iSg     18 44.50
MEM      1.08 208 iPd    18 32.13  -0.5
                 iS      18 46.66
ABH      1.75 164 ePn    18 43.11   0.2
RUP      1.88 175 ePn    18 44.62  -0.1
SNF      1.91 237 P      18 47.80   2.6X
WLF      1.95 193 iP     18 49.00   3.3X
     S.D. = 0.4  on   6 of   8 obs.
-----------------------------------
?  JUL  31, 1991  01h 05m 19.60± 6.97s
   34.292 S ±36.0km   70.224 W ±32.4km
   DEPTH =  10.0km  (geophysicist)
 CHILE-ARGENTINA BORDER REGION     (127)

CHCH     0.50 315 iPc    05 30.00   0.2
                 iS      05 37.90
PCH      0.71 340 iPc    05 33.50  -0.2
                 iS      05 44.50
TACH     0.87 317 iPc    05 36.00  -0.3
                 iS      05 48.90
SAN      0.91 336 iPc    05 37.00  -0.1
                 iS      05 50.40
LNV      1.04 288 iPc    05 39.30   0.1
                 iS      05 53.50
PEL      1.21 341 iPc    05 42.50   0.4
                 iS      05 59.50
     S.D. = 0.3  on   6 of   6 obs.
-----------------------------------
   JUL  31, 1991  01h 25m 46.01± 0.73s
   37.234 N ± 6.9km   21.523 E ± 4.8km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN GREECE                   (368)
     ML 3.3 (ATH).

VLS      1.20 322 ePb    26 08.40   0.1
                 eSb     26 27.50
VLI      1.24 114 ePb    26 09.20   0.1
ATH      1.89  66 ePn    26 19.00   0.4
AGG      1.90  19 ePd    26 19.44   0.7
                 eS      26 41.96
IGT      2.48 338 ePc    26 28.56   1.5
                 eS      27 03.08
KEK      2.82 332 ePb    26 36.50   4.6X
LIT      2.96  15 ePd    26 34.76   0.8
                 eS      27 12.32
KZN      3.07   4 ePn    26 36.00   0.5
FNA      3.55 358 ePd    26 42.52   0.3
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31d 01h

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OUR      3.64  31 iPc   26 42.68  -0.9
GRG      3.78  10 ePd   26 44.84  -0.8
SOH      3.86  21 ePc   26 46.32  -0.3
KNT      4.06  15 ePd   26 48.84  -0.7
VAY      4.16  11 ePn   26 51.40   0.5
CZI      4.68 297 P     26 59.10   0.7
SKO      4.73 359 ePn   26 57.70  -1.4
ATN      4.89 283 P     27 01.90   0.5
BRT      4.95 319 P     27 01.00  -1.2
MEU      5.27 271 P     27 05.90  -0.9
                eSn     28 02.10
     S.D. = 0.9  on  18 of  19 obs.
-----------------------------------
?  JUL  31, 1991  02h 34m 04.94± 6.49s
   17.827 S ±21.8km  178.442 W ±67.0km
   DEPTH = 670.2 ± 50.4 km
   4.9mb (  8 obs.)
 FIJI ISLANDS REGION                (181)

DZM     14.82 251 iPc   37 10.10  -0.4
COO     29.79 239 eP    39 24.00   0.7
RMO     31.51 248 iPd   39 42.10   4.4X
        0.7s    25.00nm          4.9mb
CTAO    33.43 260 iPd   39 53.20  -0.6
CNB     33.45 232 iPc   39 53.60  -0.3
        0.4s    12.00nm          4.9mb
PMG     34.42 279 iPd   40 03.00   1.1
        0.9s    82.35nm          5.3mb
CMS     35.04 240 iPc   40 07.20   0.3
        0.8s    22.00nm          4.7mb
QLP     35.53 249 iPd   40 10.80  -0.2
TOO     37.20 231 iPc   40 24.70   0.2
        0.7s    16.00nm          4.7mb
STK     38.65 241 iPd   40 36.50   0.2
        0.8s     8.90nm          4.3mb
WR2     44.59 259 iPc   41 22.20  -0.7
        0.4s    23.00nm          5.0mb
ASPA    44.79 254 iPd   41 24.30  -0.1
        0.8s    92.80nm          5.3mb
SSE     75.66 310 eP    44 45.50  -0.2
     S.D. = 0.6  on  12 of  13 obs.
-----------------------------------
&  JUL  31, 1991  03h 16m 35.40s
   58.986 N          135.152 W
   DEPTH =  10.0km  (geophysicist)
   4.0mb (  3 obs.)
 SOUTHEASTERN ALASKA                ( 19)
      <PGC>. ML 4.5 (PGC). Felt (IV)
      at Atlin, British Columbia and
      (III) at Pleasant Camp, British
      Columbia. Also felt (III) at
      Haines, Alaska.

WHC      1.76   1 Pc    17 05.80  -0.3
SIT      1.94 183 ePc   17 07.30  -1.3
HYT      2.19 328 Pd    17 11.60  -0.9
PNL      2.28 289 iP    17 11.81  -1.9
                eS      17 42.00
TCBC     2.30 116 P     17 13.50  -0.5
YKU      2.42 286 eP    17 15.50   0.0
BQB      3.27 125 P     17 26.40  -1.5
FKBC     3.28 130 P     17 27.00  -0.9
CTGM     3.69 305 eP    17 32.02  -1.8
BALM     4.15 303 eP    17 38.90  -1.4
TGL      4.26 298 eP    17 39.88  -1.9
CROM     4.40 297 eP    17 43.33  -0.6
MUB      4.86  86 P     17 49.60  -0.8
GLB      4.97 303 eP    17 49.54  -2.3
DWY      5.48 340 P     17 57.50  -1.5
KLU      5.92 300 eP    18 02.17  -3.1
VLZ      6.00 296 eP    18 04.75  -1.5
VZW      6.08 295 eP    18 04.69  -2.8
TOA      6.27 305 eP    18 05.90  -4.3
GLI      6.30 293 eP    18 07.43  -3.1
KNIM     6.52 287 eP    18 10.20  -3.5
LTI      6.55 285 eP    18 10.63  -3.5
PMR      7.42 297 eP    18 27.10   0.9
BDBC     7.47 107 P     18 28.00   1.0
KDC      9.20 270 eP    18 48.80  -2.1
INK      9.39   4 eP    18 51.00  -2.5
        0.5s     7.20nm          5.3mb X
YKA     10.64  62 eP    19 11.60   0.9
        0.6s     2.60nm          4.8mb
MBC     18.21  12 eP    20 47.50  -1.9
        0.6s     4.00nm          3.7mb
FFC     18.51  89 eP    20 52.00  -1.2
        0.5s     4.00nm          3.9mb
                 i      25 55.00
        29 obs. associated
-----------------------------------
*  JUL  31, 1991  03h 27m 14.74± 0.61s
   16.199 S ±12.7km  174.423 W ±15.0km
   DEPTH = 170.0km  (geophysicist)
   4.8mb ( 10 obs.)
 TONGA ISLANDS                      (173)

DZM     18.99 249 iPc   31 26.00   0.1
PUZ     22.72 195 P     32 03.50   0.7
NOZ     23.30 195 P     32 09.50   1.2
TAZ     23.36 198 P     32 10.00   1.1
MNG     25.86 198 P     32 30.10  -2.2
        0.4s    20.00nm          5.1mb
THZ     27.72 201 P     32 47.70  -1.4
KHZ     28.10 199 P     32 49.90  -2.5X
LTZ     28.84 201 P     32 55.50  -3.7X
COO     33.92 239 iPd   33 45.70   2.1
        0.6s    25.00nm          5.1mb
RMO     35.68 247 iPd   34 03.60   5.1X
        0.7s    20.00nm          4.9mb
CNB     37.48 233 iPc   34 14.00   0.3
        1.1s    44.00nm          5.1mb
TOO     41.20 231 eP    34 44.30   0.1
        0.6s     9.00nm          4.5mb
STK     42.79 240 eP    34 57.50   0.3
        1.1s    10.50nm          4.3mb
BFD     43.30 233 eP    34 58.30  -3.0X
        0.8s    26.00nm          4.9mb
WR2     48.68 258 iPc   35 43.10  -0.8
        0.8s     9.20nm          4.4mb
                 i      37 06.70
ASPA    48.93 253 iPc   35 45.10  -0.7
        0.8s    23.80nm          4.9mb
KLB     62.99 242 eP    37 25.00  -0.8
BAL     63.96 244 eP    37 31.00  -1.1
ALQ     82.06  50 eP    39 16.50  -1.2
        0.9s     2.52nm          4.0mb
NVL     93.15 182 Pc    40 10.00  -0.1
KSP    144.38 348 ePKP  46 30.60  -1.4
MOX    145.30 353 ePKP  46 33.00  -0.6
        1.4s    11.00nm
PRU    145.52 350 ePKP  46 34.40   0.4
                 e      47 16.30
KHC    146.51 350 PKP   46 36.00   0.3
                 e      47 15.00
FLN    147.15   7 ePKP  46 38.40   1.8
        0.7s     7.70nm
LDF    147.36   7 ePKP  46 38.90   1.9
        0.9s     9.85nm
GRR    147.47   8 ePKP  46 39.50   2.4X
        0.5s     5.85nm
LPF    147.79   8 ePKP  46 40.40   2.7X
        0.5s     7.30nm
CDF    147.85 358 ePKP  46 40.90   3.0X
        0.9s     4.90nm
HAU    148.28 359 ePKP  46 42.90   4.4X
LOR    148.99   2 ePKP  46 44.00   4.3X
        0.9s     9.00nm
SSF    149.18   3 ePKP  46 44.70   4.8X
        1.0s     9.00nm
LBF    149.28   2 ePKP  46 44.70   4.6X
        0.9s     6.55nm
LSF    149.85   6 ePKP  46 45.60   4.6X
        1.0s    31.00nm
LPL    150.76 358 ePKP  46 48.10   5.5X
        0.9s     4.10nm
LPO    151.36   7 ePKP  46 49.30   6.0X
     S.D. = 1.2  on  22 of  36 obs.
-----------------------------------
%  JUL  31, 1991  04h 30m 26.80± 0.81s
   37.732 N ± 7.5km   15.050 E ± 6.3km
   DEPTH =  10.0km  (geophysicist)
 SICILY                             (398)

MNO      0.34 305 Pd    30 34.20   0.2
                 eSg    30 39.30
ATN      0.54  37 P     30 37.20  -0.5
                 eSg    30 45.00
MEU      0.64 189 Pc    30 39.50  -0.1
                 eSg    30 49.70
GIB      0.85 288 P     30 43.20  -0.1
                 eSg    30 56.10
SOI      0.86  67 P     30 43.90   0.5
                 eSg    30 56.10
CZI      1.71  29 P     30 53.90  -2.9X
     S.D. = 0.5  on   5 of   6 obs.
-----------------------------------
%  JUL  31, 1991  05h 02m 28.97± 1.21s
   18.287 N ±13.4km   65.922 W ± 9.1km
   DEPTH =  10.0km  (geophysicist)
 PUERTO RICO REGION                 ( 90)

LPR      0.05  67 P     02 31.50   0.3
                 S      02 51.50
CPD      0.25 179 P     02 33.60  -0.6
SJG      0.28 231 iP    02 36.30   1.5
CLLP     0.66 252 P     02 42.30   0.3
MGP      1.14 256 P     02 49.00  -1.4
     S.D. = 1.5  on   5 of   5 obs.
-----------------------------------
%  JUL  31, 1991  05h 39m 27.71± 1.76s
   42.881 N ± 7.1km   13.033 E ±17.5km
   DEPTH =  10.0km  (geophysicist)
 CENTRAL ITALY                      (381)

ASS      0.33 305 P     39 34.80   0.2
                 eSg    39 39.90
MNS      0.56 208 Pc    39 39.00  -0.1
                 eSg    39 47.90
ARV      0.62 354 P     39 40.20   0.0
                 eSg    39 50.30
CRE      1.09 314 P     39 47.80  -0.4
                 eSg    40 04.20
SFI      1.35 321 P     39 52.70   0.2
                 eSg    40 12.30
     S.D. = 0.4  on   5 of   5 obs.
-----------------------------------
?  JUL  31, 1991  07h 21m 49.54± 4.07s
   24.154 S ±28.6km  179.912 W ±39.5km
   DEPTH = 556.9 ± 37.1 km
   4.7mb (  5 obs.)
 SOUTH OF FIJI ISLANDS              (171)

DZM     12.73 277 iPd   24 36.90   1.0
NOZ     14.52 186 eP    24 55.00   1.4
MRW     17.62 194 eP    25 23.00  -0.7
                 S      28 22.00
THZ     18.55 197 P     25 33.20   0.4
KHZ     19.01 195 eP    25 36.10  -0.9
LTZ     19.67 197 eP    25 41.50  -1.8
MQZ     20.44 196 eP    25 50.50   0.3
RMQ     28.38 259 iPd   27 07.30   6.1X
CNB     28.79 240 iPc   27 05.80   1.0
        0.9s    14.00nm          4.6mb
CTAO    31.56 271 iPc   27 27.00  -1.3
TOO     32.38 237 iPd   27 36.20   1.1
        0.4s    13.00nm          4.9mb
PMG     34.66 289 iPc   27 53.10  -1.2
STK     34.71 248 eP    27 55.60   1.0
        0.4s     2.90nm          4.3mb
ASPA    42.08 261 iPc   28 54.00  -0.5
        0.7s    15.30nm          4.6mb
                 iS     34 34.20
WR2     42.45 266 iPd   28 56.40  -1.1
        0.3s    35.70nm          5.4mb
                 eS     34 34.60
CHG     89.84 291 eP    33 51.90   1.4
NB2    142.34 351 PKP   40 14.60  -5.3X
        0.9s     1.60nm
HFS    142.81 349 ePKP  40 15.70  -4.9X
        0.4s     4.00nm
     S.D. = 1.3  on  15 of  18 obs.
-----------------------------------
*  JUL  31, 1991  07h 28m 41.85± 1.10s
   51.299 N ± 8.8km   15.928 E ±10.3km
   DEPTH =  10.0km  (geophysicist)
   4.5mb (  1 obs.)
 POLAND                             (548)

KSP      0.51 153 iP    28 51.90  -0.3
                 iS     29 00.00
BRG      1.32 252 iPg   29 06.80   0.6
                 iSg    29 26.40
PRU      1.58 214 Pn    29 10.50   0.5
                 ePg    29 12.30
                 eSg    29 35.70
CLL      1.84 271 iPn   29 12.50  -1.1
                 iPg    29 15.70
                 eSg    29 40.00
KHC      2.64 216 eP    29 29.00   3.7X
                 Pg     29 31.50
                 e      30 00.00
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                    eSg    30 12.00
MOX      2.80 258 ePg    29 34.80    7.3X
                    iSg    30 15.00
HFS      8.95 353 eP     30 54.30    0.4
      0.3s      0.70nm           4.5mb
     S.D. = 1.0  on   5 of   7 obs.
-----------------------------------
*  JUL  31, 1991  07h 36m 23.93± 2.25s
   6.439 S ±12.3km  154.424 E ±16.9km
   DEPTH =  36.9 ± 18.0 km
   4.0mb (  3 obs.)
 SOLOMON ISLANDS                (193)

RAB      3.17 315 iPc    37 13.00    0.4
                    iS     38 05.00
PMG      7.78 247 eP     38 17.00   -0.7
                    eS     39 45.00
DZM     19.40 144 iPc    40 49.90   -0.2
WR2     23.66 234 iPc    41 32.10   -1.0
      1.0s      5.00nm           4.0mb
                    i      45 31.80
ASPA    26.13 227 eP     41 58.70    2.1
      0.7s      4.30nm           4.1mb
STK     28.01 204 eP     42 16.40    2.8X
      0.4s      1.30nm           4.0mb
TRT     41.48 266 ePc    44 06.50   -2.9X
GUN     74.35 301 P      48 00.00   -0.5
PKI     74.65 301 P      48 01.26   -1.0
KKN     74.82 301 P      48 03.00   -0.1
DMN     74.92 301 P      48 04.48    0.7
GKN     75.43 301 P      48 06.82    0.3
     S.D. = 1.2  on  10 of  12 obs.
-----------------------------------
   JUL  31, 1991  09h 55m 02.47± 0.55s
   37.306 N ± 5.7km   21.505 E ± 3.8km
   DEPTH =  48.1 ± 11.8 km
   3.7mb (  2 obs.)
 SOUTHERN GREECE                (368)
     MD 3.8 (ATH).

VLS      1.13 320 eP     55 22.00   -0.2
                    eS     55 41.00
VLI      1.29 117 eP     55 23.00   -1.4
AGG      1.83  21 ePc    55 32.36    0.3
                    eS     55 58.24
ATH      1.88  69 ePn    55 32.50   -0.2
                    eSb    55 57.90
KEK      2.75 331 ePn    55 48.50    3.4X
LIT      2.89  15 iPd    55 47.72    0.6
KZN      3.00   4 ePn    55 50.00    1.2
                    eSn    56 26.00
PAIG     3.12  32 ePd    55 49.20   -1.1
FNA      3.47 358 ePc    55 55.92    0.5
                    eS     56 40.36
OUR      3.59  32 iPd    55 56.32   -0.7
                    eS     56 39.48
GRG      3.71  11 ePc    55 58.52   -0.3
                    iS     56 44.48
SOH      3.79  22 ePc    55 59.80   -0.2
                    eS     56 47.04
NPS      3.89 120 ePb    56 03.60    2.2
VAY      4.09  11 ePn    56 04.50    0.4
LCI      4.10 319 P      56 05.00    0.8
SRS      4.14  22 ePc    56 04.48   -0.2
CZI      4.64 296 P      56 12.40    0.7
SKO      4.66 359 iPn    56 06.80   -5.3X
ATN      4.86 282 P      56 15.50    0.5
BRT      4.89 318 P      56 14.50   -0.8
                    eSn    57 12.00
RDO      4.95  38 ePn    56 16.00   -0.2
MEU      5.25 270 P      56 19.80   -0.8
MNO      5.44 279 P      56 22.00   -1.4
MGR      5.44 303 P      56 23.60    0.4
SGO      5.82 306 P      56 28.90    0.5
                    eSn    57 36.00
MLR      8.83  21 eP     57 10.00   -0.4
HFS     23.39 350 eP     00 07.30   -0.1
      0.4s      2.00nm           3.9mb
NB2     24.63 348 P      00 19.40   -0.1
      0.7s      0.80nm           3.4mb
     S.D. = 0.9  on  26 of  28 obs.
-----------------------------------
&  JUL  31, 1991  10h 16m 50.89s
   62.412 N          150.766 W
   DEPTH =  69.7km
 CENTRAL ALASKA                   (  1)
     <AEIC>. Felt (IV) at Skwentna
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     and Yentna River.

CUT      0.23  92 iPd    17 01.34   -0.4
SKT      0.56 220 iPc    17 03.79   -0.7
                    iS     17 14.20
HUR      0.77  42 iPc    17 06.19   -0.6
                    eS     17 17.41
PWA      0.87 151 iPd    17 07.50   -0.5
SUA      0.95 179 iPc    17 08.54   -0.6
                    eS     17 22.38
TRF      1.07  12 iPd    17 09.91   -0.7
GHO      1.08 126 ePd    17 10.31   -0.4
                    eS     17 25.96
PLRM     1.13 136 iPd    17 10.65   -0.6
                    eS     17 26.79
PMR      1.13 136 ePd    17 11.20    0.0
KTH      1.15 357 iPd    17 11.08   -0.5
NCG      1.21 214 iPc    17 11.31   -1.1
CGLM     1.25 209 iPc    17 11.89   -1.2
PMS      1.30 153 iPd    17 12.84   -0.8
RND      1.33  40 iPc    17 12.90   -1.1
SPU      1.38 207 iPc    17 13.54   -1.1
BGL      1.39 214 iPc    17 14.06   -0.8
CKL      1.43 212 iPc    17 14.45   -1.0
KNK      1.48 132 iPd    17 15.47   -0.6
                    eS     17 35.52
MCK      1.57  31 ePc    17 16.38   -0.8
                    eS     17 34.56
NKA      1.69 188 eP     17 19.86    1.1
SCM      1.72 108 eP     17 19.74    0.4
BWN      1.86  18 ePd    17 20.38   -0.8
SLKM     1.93 172 ePd    17 20.47   -1.7
RDT      2.01 204 eP     17 22.35   -0.9
                    eS     17 48.28
DFR      2.05 208 ePc    17 22.93   -0.9
RDN      2.13 208 ePc    17 24.04   -1.0
REF      2.14 207 ePd    17 24.43   -0.8
RDW      2.17 208 iPc    17 25.15   -0.5
TOA      2.17  96 iPc    17 25.90    0.4
RSO      2.18 207 ePd    17 25.01   -0.8
RED      2.22 207 iPc    17 25.66   -0.6
                    eS     17 52.97
NEA      2.30  18 iPd    17 25.54   -1.8
GLI      2.33 130 iPd    17 25.99   -1.7
                    eS     17 54.43
NNL      2.39 186 eP     17 29.16    0.6
WRH      2.39  29 ePd    17 26.94   -1.6
SEW      2.40 164 eP     17 26.90   -1.7
VZW      2.42 122 ePd    17 27.09   -1.9
SDG      2.43  85 iPc    17 28.58   -0.5
VLZ      2.47 119 ePd    17 27.37   -2.2
                    eS     17 58.10
KLU      2.47 110 iPd    17 27.78   -1.9
                    eS     17 57.58
TTA      2.48 284 ePd    17 28.50   -1.3
PAX      2.51  75 iPc    17 29.50   -0.7
                    eS     17 59.58
THY      2.51  64 eP     17 30.91    0.7
TZL      2.53  96 ePc    17 29.94   -0.5
KNIM     2.53 143 iPd    17 27.44   -3.1
                    eS     17 59.91
CCB      2.61  29 iPc    17 29.76   -1.7
SVW      2.65 243 iPc    17 31.10   -1.1
LTI      2.77 148 iPd    17 30.66   -3.1
MDM      2.80  23 iPd    17 32.59   -1.6
HOM      2.80 189 ePd    17 34.76    0.6
                    eS     18 06.43
FBA      2.83  27 iPc    17 33.50   -1.1
     0.9s    195.83nm
CNPM     2.91 185 ePd    17 34.42   -1.3
XLV      3.00 189 eP     17 37.05   -0.1
                    eS     18 11.58
PDB      3.11 214 ePc    17 37.43   -1.2
AUE      3.32 204 eP     17 41.74    0.3
AUI      3.35 204 eP     17 42.55    0.6
GLB      3.43 103 iPc    17 41.02   -2.1
TMW      3.68  72 iPc    17 44.91   -1.6
MID      3.69 142 ePc    17 46.40   -0.3
CDD      3.77 203 iPc    17 47.27   -0.6
IMA      3.89 342 iPd    17 47.90   -1.6
SYI      3.90 193 eP     17 48.34   -1.2
CROM     4.01 111 eP     17 49.16   -2.1
TGL      4.14 110 eP     17 50.17   -3.0
BALM     4.24 105 ePc    17 51.80   -2.7
CTGM     4.72 104 eP     17 59.42   -1.9
KDC      4.76 191 eP     17 59.00   -2.7
FYU      4.81  27 ePd    18 00.97   -1.4
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ANM      6.88 295 eP     18 30.40   -0.9
INK      9.29  43 eP     19 02.00   -2.3
SIT      9.45 118 eP     19 03.10   -3.4
MBC     17.37  25 eP     20 47.00   -2.6
        72 obs. associoted
-----------------------------------
   JUL  31, 1991  10h 31m 06.53± 0.56s
   45.906 N ± 5.0km   10.634 E ± 5.5km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                   (545)
     MD 2.9 (TRI). ML 2.8 (KBA).

SAL      0.31 194 P      31 12.20   -0.7
                    eSg    31 18.00
OSS      0.85 337 iPc    31 23.10    0.0
VDL      1.00 306 ePd    31 26.20    0.7
OGA      1.00  16 ePg    31 24.70   -0.9
TMA      1.24 280 ePc    31 30.20    0.4
SCE      1.36  33 iPgc   31 30.50   -1.1
SOTA     1.37  17 iPgc   31 31.60   -0.2
                    iSg    31 50.10
LLS      1.49 311 ePc    31 38.50    5.0X
WTTA     1.52  27 iPgd   31 33.90   -0.1
                    iSg    31 54.10
WATA     1.57  24 iPgd   31 34.90    0.3
                    iSg    31 56.10
FVI      1.64  64 P      31 35.60    0.1
                    eSg    31 55.70
MMK      1.87 275 ePc    31 41.70    2.7X
TRI      2.20  94 e(Pn)  31 47.00    3.4X
                    i      32 07.90
                    i(Sn)  32 12.00
KBA      2.21  57 iPgd   31 45.70    1.7X
                    iSg    32 14.80
VOY      2.28  86 ePn    31 46.80    2.0
                    eSn    32 11.80
                    eSg    32 15.20
SLE      2.37 322 iPd    31 49.80    3.7X
ARV      2.92 145 P      31 53.40   -0.4
                    eSg    32 05.50
ASS      3.18 152 P      31 49.10   -8.6X
                    eSg    31 53.10
MNS      3.82 157 P      31 49.90  -16.7X
                    eSg    31 55.70
     S.D. = 0.9  on  12 of  19 obs.
-----------------------------------
   JUL  31, 1991  11h 20m 52.49± 0.57s
   24.889 N ± 8.3km   98.835 E ± 6.3km
   DEPTH =  33.0km  (normal)
   4.5mb (  1 obs.)
 BURMA-CHINA BORDER REGION        (297)

KMI      3.55  85 iPnc   21 45.50   -1.4
                    Pg     21 54.00
                    Sg     22 37.00
CHG      6.05 179 ePn    22 21.40   -0.6
                    iPg    22 43.70
                    iSg    24 03.30
GYA      7.23  76 iPnd   22 35.00   -3.8X
      Z  12s      1.20um
      N  10s      2.20um
      E  10s      1.00um
                    Sn     23 53.00
CD2      7.41  35 ePn    22 39.90   -1.2
                    Pg     23 07.50
                    Sg     24 49.00
LOE      7.92 160 ePg    23 09.00   20.7X
GUN     12.00 287 P      23 46.04    1.5
      0.4s     19.00nm          5.6mb X
PKI     12.34 285 P      23 48.50   -0.7
      0.5s     10.00nm          5.2mb X
KKN     12.49 286 P      23 50.70   -0.4
      0.8s     35.00nm          5.5mb X
DMN     12.62 285 P      23 50.92   -1.8
      0.6s     13.00nm          5.2mb X
XAN     12.66  42 P      23 50.00   -3.0X
GKN     13.09 287 P      23 59.42    0.5
      0.6s     24.00nm          5.4mb X
WHN     14.85  64 eP     24 25.00    3.2X
      N  12s      1.10um
      E  12s      0.70um
TIY     17.25  39 eP     24 55.00    2.5X
      Z  12s      0.60um
      N  12s      0.52um
BTO     18.25  28 eP     25 06.00    1.1
      N  10s      0.30um
      E  10s      0.60um
```

31d 11h

TIA	19.34	50	eP	25 19.60	1.5
WMO	20.97	337	P	25 38.50	3.3X
BJI	20.97	40	eP	25 35.00	-0.1
PSI	22.06	180	ePc	25 47.50	1.2
WR2	56.40	139	eP	30 33.50	0.2
	0.8s		3.60nm		4.5mb

S.D. = 1.2 on 13 of 19 obs.

JUL 31, 1991 11h 22m 53.85± 0.32s
45.335 N ± 2.6km 21.138 E ± 3.1km
DEPTH = 34.5 ± 14.3 km

ROMANIA (358)

ML 4.3 (ZAG). Felt (V) in the epicentral area. Felt (III) at Timisoara. Also felt at Belgrade, Yugoslavia.

TIM	0.41	8	iPd	23 02.00	-1.1
SSR	0.64	138	eP	23 06.00	-0.4
BEO	0.71	224	iPg	23 06.40	-0.9
			iSg	23 19.30	
DEV	1.36	66	iPc	23 18.00	1.3
UZD	2.18	306	iPnd	23 29.00	0.5
DRA	2.31	105	ePd	23 14.00	-16.3X
PLE	2.36	213	iPn	23 31.90	0.7
			eSn	24 05.00	
BUD	2.60	327	iPnd	23 34.00	-0.4
IVA	2.62	200	iPn	23 36.50	1.7
PSZ	2.72	342	iPnd	23 35.00	-1.3
CMP	2.75	90	ePd	23 42.00	5.3X
BMR	2.85	34	ePc	23 45.00	7.0X
PVY	2.87	197	iPn	23 39.50	1.1
			iSn	24 17.00	
NKY	2.96	212	iPn	23 40.50	0.9
			iSn	24 19.00	
BRY	3.07	218	iPn	23 41.50	0.3
			eSn	24 22.00	
VTS	3.12	151	iPc	23 42.00	0.0
SRO	3.15	323	iPn	23 42.80	0.5
			i	24 10.80	
			i	24 40.70	
TTG	3.21	206	iPn	23 44.00	1.0
			eSn	24 22.00	
SKO	3.37	176	iPn	23 46.00	0.6
			iPg	23 55.80	
			iSn	24 27.00	
			i	24 32.00	
			iSb	24 35.00	
			iSg	24 42.50	
			Lg	24 46.50	
MLR	3.39	86	ePc	23 48.00	2.2
HCY	3.46	214	iPn	23 48.00	1.3
ZAG	3.65	279	iPn	23 49.20	-0.1
			iSn	24 32.70	
			iSg	24 48.50	
PTJ	3.68	281	iPnc	23 49.20	-0.6
			eSn	24 39.10	
PVL	3.68	124	iP	23 49.00	-0.8
ISR	3.82	91	ePc	23 55.00	3.1X
SPC	3.90	351	ePn	23 53.60	0.5
			i	24 11.00	
			e	24 32.80	
			e	25 06.30	
			Lg	26 15.00	
VRI	3.96	80	ePd	23 55.00	1.3
PTT	3.98	64	eP	24 05.00	10.9X
ZST	3.98	317	i(Pn)	23 53.50	-0.6
			i	23 56.40	
			i	24 40.20	
			i	24 53.50	
HVAR	4.00	239	iPn	23 54.90	0.6
PLD	4.14	140	iP	23 57.00	0.8
VAY	4.15	165	iPn	23 56.30	-0.1
MMB	4.19	152	iPd	23 52.00	-5.1X
KNT	4.36	162	ePc	23 59.52	0.0
VKA	4.42	313	iPnc	23 59.40	-0.9
			i	24 19.20	
			iSn	24 52.50	
GRG	4.47	168	ePc	24 00.72	-0.4
RZN	4.48	143	P	24 02.00	0.7
FNA	4.55	178	ePc	24 02.96	0.7
DIM	4.58	134	iP	24 03.00	0.5
SRS	4.58	156	ePc	24 02.04	-0.5
RIY	4.76	273	ePb	24 14.90	9.8X
			iPg	24 22.90	
			iSg	25 25.70	
KRA	4.79	351	ePd	24 05.80	0.3
			i	24 08.40	
			i	24 33.10	
SOH	4.79	159	ePc	24 05.08	-0.6
KDZ	4.82	138	iPd	24 05.00	-1.0
IAS	4.83	65	eP	24 22.00	16.0X
TRI	5.20	277	e(Pn)	24 14.00	2.7X
			i(Sn)	25 37.30	
RDO	5.28	141	iPc	24 12.20	-0.2
BRT	5.30	214	P	24 36.00	23.2X
LIT	5.33	169	ePc	24 11.84	-1.3
KEK	5.70	190	eP	24 33.00	14.6X
ALN	5.71	139	ePc	24 18.44	0.0
PAIG	5.72	160	ePc	24 17.62	-1.0
FVI	5.96	285	P	24 20.00	-2.0
ARV	6.15	256	P	24 29.00	4.2X
BHG	6.18	296	eP	24 26.90	1.8
AGG	6.37	172	ePc	24 27.56	-0.3
KHC	6.40	309	Pn	24 27.20	-1.0
			Pg	24 29.70	
			Sg	25 46.50	
KSP	6.39	331	ePn	24 27.00	-1.1
	0.5s		31.00nm		5.3mb X
			iPg	24 41.80	
			iS	25 38.70	
SDI	6.44	238	P	24 42.00	13.2X
PRU	6.44	319	Pn	24 26.80	-2.0
			e	24 29.30	
			i	24 36.50	
			eSg	25 37.60	
ASS	6.50	253	P	24 28.00	-1.7
KGT	6.66	135	iPn	24 31.00	-0.8
EZN	6.70	143	ePn	24 31.80	-0.6
CTT	6.77	126	ePn	24 32.00	-1.4
MNS	6.79	247	P	24 37.50	3.8X
WET	6.79	307	eP	24 34.80	1.1
WTTA	6.86	290	iPnd	24 36.80	2.0
			iPg	25 11.50	
			iSn	25 56.20	
			i	26 10.70	
			iSg	26 46.80	
EDC	7.02	133	ePn	24 36.00	-0.9
CZI	7.15	213	P	24 37.80	-0.9
PRK	7.18	146	eP	24 38.50	-0.5
BRG	7.34	322	ePn	24 43.00	1.7
			e	25 11.00	
			e	26 06.00	
			e	27 00.00	
FUR	7.34	296	iPc	25 05.60	24.2X
CLL	8.07	321	ePn	24 52.00	0.5
			e	26 46.00	
			eSg	34 14.00	
MOX	8.30	313	ePn	24 53.20	-1.6
	1.6s		27.00nm		5.1mb X
LPG	10.12	276	eP	25 24.90	4.8X
	0.7s		7.15nm		5.0mb
LPL	10.13	276	eP	25 25.00	4.8X
	0.7s		4.40nm		4.8mb
BSD	10.56	340	iP	25 26.70	0.9
	0.7s		12.00nm		5.2mb X
			i	25 33.00	
ENN	11.54	304	eP	25 42.00	2.9X
	0.9s		13.00nm		5.1mb
OBN	13.88	40	eP	26 10.00	-0.2
			e	28 48.00	
			e	30 18.00	
APO	15.82	347	eP	26 35.30	-0.1
	0.4s		1.80nm		3.6mb
NB2	16.78	343	P	26 48.80	1.1
	0.7s		1.30nm		3.2mb X

S.D. = 1.0 on 63 of 81 obs.

? JUL 31, 1991 11h 43m 20.27± 1.21s
39.143 N ± 7.2km 27.540 E ±16.0km
DEPTH = 10.0km (geophysicist)

TURKEY (366)

MD 2.8 (ISK).

IZM	0.77	196	ePg	43 35.40	0.0
			eSg	43 47.40	
EZN	1.16	306	ePn	43 42.00	0.1
EDC	1.23	12	ePn	43 43.20	0.1
KGT	1.32	352	iPn	43 44.50	-0.1

S.D. = 0.2 on 4 of 4 obs.

% JUL 31, 1991 12h 04m 27.57± 0.96s
41.003 N ± 6.2km 23.563 E ± 8.2km
DEPTH = 10.0km (geophysicist)

GREECE-BULGARIA BORDER REGION (363)

MD 2.4 (THE).

SRS	0.12	11	ePd	04 30.54	0.0
			eS	04 32.50	
SOH	0.24	221	ePc	04 32.70	0.0
			iS	04 35.66	
KNT	0.53	288	ePc	04 38.10	-0.1
			eS	04 45.70	
THE	0.59	231	ePc	04 39.38	0.0
			eS	04 46.14	
GRG	0.88	267	ePd	04 44.70	0.2
			eS	04 57.42	
PAIG	1.08	175	ePc	04 47.82	0.0
			iS	05 02.14	

S.D. = 0.1 on 6 of 6 obs.

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* JUL 31, 1991 12h 32m 44.04± 1.32s
9.170 S ±10.9km 112.118 E ±22.6km
DEPTH = 113.8 ± 14.2 km
4.4mb (2 obs.)

SOUTH OF JAVA (282)

TRT	1.54	19	ePc	33 12.00	0.0
			iS	33 33.00	
NANU	13.71	167	eP	35 55.00	0.1
			eS	38 18.00	
MBL	14.05	149	eP	35 59.00	-0.2
	0.2s		3.00nm		4.2mb
			eS	38 21.00	
WR2	24.02	119	iPc	37 49.50	-0.2
	0.6s		23.40nm		4.8mb X
			eS	42 16.10	
ASPA	25.33	127	iPd	38 02.30	0.3
	0.8s		16.50nm		4.6mb
			eS	42 51.90	
CHG	30.69	335	eP	38 50.20	-0.1
BJI	49.10	4	eP	41 19.00	-2.7X

S.D. = 0.3 on 6 of 7 obs.

? JUL 31, 1991 12h 40m 25.62± 5.54s
15.770 N ±45.2km 97.269 W ±23.5km
DEPTH = 33.0km (normal)

NEAR COAST OF OAXACA, MEXICO (66)

OXX	1.41	22	iP	40 49.00	-0.3
			iS	41 04.75	
ACX	2.72	294	eP	41 08.00	0.1
			iS	41 38.00	
IISM	3.20	358	iP	41 15.75	1.0
IIT	3.38	343	eP	41 17.00	-0.6
PPM	3.53	339	eP	41 19.75	-0.2
			iS	41 58.50	
LVVM	4.02	11	(P)	41 32.00	5.5X
			iS	42 14.00	

S.D. = 0.9 on 5 of 6 obs.

JUL 31, 1991 13h 34m 15.80± 1.33s
13.775 S ± 7.5km 166.058 E ± 6.9km
DEPTH = 44.1 ± 13.3 km
5.0mb (16 obs.)

VANUATU ISLANDS (186)

BKM	4.41	152	iP	35 24.50	2.5
HNR	7.38	305	eP	36 03.30	-0.5
			eS	37 24.00	
DZM	8.26	178	iPd	36 12.60	-3.4
			iS	37 39.10	
NDF	11.66	111	eP	37 03.00	0.5
SGE	12.04	110	eP	37 06.10	-1.6
OVA	12.85	109	iP	37 20.50	2.0
PMG	19.02	281	eP	38 38.00	1.1
CTAO	19.95	249	iPd	38 47.50	0.3
RMQ	20.56	229	iPd	38 59.00	5.6X
	0.9s		159.00nm		5.4mb
COO	21.22	216	eP	39 03.00	2.9X
OLP	24.07	235	iPd	39 29.70	1.4
CMS	25.60	223	iPc	39 43.10	0.4
	0.9s		72.00nm		5.2mb
BWA	26.03	215	eP	39 47.20	0.4
			e	40 03.00	
QIS	26.14	251	eP	39 47.00	-0.8
CNB	26.20	212	eP	39 48.70	0.4
	0.9s		5.00nm		4.1mb
CAN	26.39	213	e(P)	39 58.60	8.5X
STK	28.75	227	iPd	40 11.70	0.2
	1.0s		17.80nm		4.7mb

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TOO     29.95 214 eP     40 23.10   0.9
        0.7s      5.00nm          4.4mb
WR2     30.91 254 iPc    40 29.00  -1.8
        0.6s      7.40nm          4.6mb
BFD     31.35 218 eP     40 32.30  -2.2
        0.9s     19.00nm          4.9mb
ASPA    31.94 247 iPd    40 38.00  -1.8
        1.0s     12.50nm          4.7mb
WARB    38.89 245 iPd    41 38.90  -0.2
MAT     56.52 333 eP     43 55.00  -1.1
SBA     64.09 180 P      44 47.20   0.1
KGM     64.12 279 eP     44 49.00   0.6
NJ2     64.18 316 iP     44 48.20  -0.2
TIA     67.85 319 Pc     45 11.50  -0.3
CN2     68.23 330 eP     45 13.00  -1.0
PSI     68.53 278 ePc    45 15.70  -0.7
GYA     70.21 305 P      45 26.00  -0.7
BJI     70.79 322 eP     45 30.00   0.3
        1.2s     20.00nm          5.0mb
TIY     71.77 318 eP     45 36.60   0.8
XAN     72.18 313 P      45 38.50   0.2
KMI     72.81 302 eP     45 43.50   1.1
CHG     73.62 295 ePd    45 47.90   1.0
        1.1s     16.77nm          4.9mb
HHC     74.10 320 eP     45 50.30   0.8
CD2     74.50 308 eP     45 52.60   0.7
BTO     74.94 319 eP     45 56.00   1.7
LZH     76.81 313 eP     46 06.50   1.4
        1.5s     34.00nm          5.1mb
YAK     80.76 344 eP     46 24.10  -1.7
GTA     81.16 314 P      46 30.00   1.5
        1.2s     20.00nm          5.0mb
SLKM    81.84  20 eP     46 29.50  -2.0
PMR     83.00  20 eP     46 36.00  -1.4
FBA     85.81  18 ePd    46 49.70  -1.8
        0.7s     25.58nm          5.5mb
PLM     87.00  55 e(P)   47 02.00   3.8X
GUN     87.91 299 P      47 03.62   0.7
PKI     88.21 299 P      47 04.72   0.3
        0.5s     12.00nm          5.4mb
KKN     88.38 299 P      47 05.56   0.5
        0.7s     22.00nm          5.6mb
DMN     88.48 299 P      47 06.32   0.7
        0.6s     22.00nm          5.6mb
GKN     88.99 299 P      47 07.90   0.0
NVL     93.83 188 P      47 30.00   0.7
KAF    123.88 339 iPKP   53 20.60  10.4X
        0.6s      4.00nm
NB2    129.40 344 PKP    53 29.40   8.4X
        0.9s      2.10nm
KHC    138.11 333 ePKP   53 17.50 -20.4X
SSF    143.74 340 ePKP   53 59.40  11.6X
        0.8s      6.05nm
LPL    143.84 335 ePKP   53 57.10   8.7X
        0.4s      1.45nm
LPG    143.85 335 ePKP   53 58.70  10.2X
        0.5s      4.35nm
SMF    143.99 339 ePKP   53 56.70   8.4X
        0.9s      6.55nm
LPF    144.20 345 ePKP   53 57.20   8.7X
        0.6s      6.30nm
SOB1   144.83 129 ePKP   53 47.10  -3.6X
                   e     54 02.20
TCF    144.85 340 ePKP   54 00.00  10.2X
        0.9s     12.30nm
LSF    145.10 341 ePKP   54 00.60  10.4X
MFF    145.28 343 ePKP   54 01.20  10.7X
        0.9s     22.95nm
FRF    145.45 333 ePKP   54 01.60  10.7X
        0.6s      9.00nm
LMR    145.70 333 ePKP   54 02.50  11.2X
        0.6s      8.10nm
     S.D. = 1.3  on  47 of  65 obs.
-----------------------------------
?  JUL  31, 1991  14h 12m 25.91± 3.80s
   40.541 N ±19.0km   21.368 E ±28.2km
   DEPTH =  10.0km  (geophysicist)
 GREECE                            (364)
      MD 2.5 (THE).

FNA      0.24   1 ePc    12 30.94  -0.2
                 eS     12 35.50
GRG      0.89  62 ePc    12 41.94  -1.0
                 eS     12 57.06
LIT      0.96 117 ePc    12 43.70  -0.6
                 eS     12 58.10
SOH      1.54  79 ePd    12 54.02   0.6
SRS      1.78  70 iPc    12 58.14   1.2
                 eS     13 22.46
     S.D. = 1.2  on   5 of   5 obs.
-----------------------------------
?  JUL  31, 1991  14h 28m 43.08±15.09s
   38.829 N ±93.1km   23.854 E ±82.4km
   DEPTH =  10.0km  (geophysicist)
 GREECE                            (364)
      MD 2.6 (THE).

PAIG     1.10 353 ePd    29 03.84   0.1
                 iS     29 17.76
AGG      1.20 280 ePd    29 05.60   0.1
                 eS     29 21.92
LIT      1.65 321 ePd    29 11.44  -0.8
                 eS     29 30.56
SOH      2.03 349 ePd    29 17.40  -0.3
GRG      2.40 333 ePc    29 23.98   0.9
     S.D. = 0.9  on   5 of   5 obs.
-----------------------------------
%  JUL  31, 1991  14h 41m 17.56± 0.60s
   44.553 N ± 4.5km    7.440 E ± 6.7km
   DEPTH =  10.0km  (geophysicist)
 NORTHERN ITALY                    (545)
      ML 1.9 (GEN).

PZZ      0.25 259 P      41 23.23   0.3
                 S      41 26.69
BHB      0.31 336 P      41 24.85   0.7
                 S      41 29.46
STV      0.32 195 P      41 24.15  -0.1
                 S      41 28.23
ENR      0.33 182 P      41 24.13  -0.2
                 S      41 28.15
ROB      0.40 130 P      41 25.73  -0.1
                 S      41 31.38
RRL      0.59 308 P      41 29.15  -0.6
RSP      0.61 348 P      41 29.56  -0.4
IMI      0.72 153 P      41 32.13   0.4
     S.D. = 0.5  on   8 of   8 obs.
-----------------------------------
&  JUL  31, 1991  15h 00m 53.94s
   60.231 N          148.152 W
   DEPTH =  19.3km
 KENAI PENINSULA, ALASKA           ( 14)
      <AEIC>. ML 3.0 (AEIC).

KNIM     0.24  60 iPc    00 59.31  -0.3
                 iS     01 03.87
LTI      0.24 142 iPc    00 59.48  -0.2
                 eS     01 04.15
SEW      0.66 259 iPc    01 05.35  -1.3
                 eS     01 14.19
GLI      0.83  38 iPd    01 08.16  -1.5
                 eS     01 19.73
SLKM     1.06 286 iPc    01 11.93  -1.7
                 iS     01 26.69
VZW      1.14  43 iPd    01 13.01  -1.9
                 eS     01 28.75
KNK      1.19 353 ePd    01 14.02  -1.6
                 eS     01 30.17
PMS      1.23 326 ePc    01 14.45  -1.7
VLZ      1.27  44 iPd    01 15.10  -1.5
                 eS     01 32.16
PLRM     1.45 341 eP     01 17.81  -1.3
                 eS     01 36.61
PMR      1.45 341 iPd    01 18.00  -1.1
        0.2s    111.11nm
NNL      1.58 264 iPc    01 20.02  -1.1
GHO      1.59 347 ePc    01 20.24  -1.1
                 eS     01 39.41
PWA      1.66 330 iPc    01 21.40  -0.7
KLU      1.67  40 iPd    01 21.53  -1.0
                 eS     01 43.19
CNPM     1.71 247 ePc    01 20.89  -2.1
                 eS     01 41.72
SUA      1.77 315 ePc    01 22.74  -1.2
XLV      1.96 248 eP     01 23.55  -3.1
TOA      2.11  26 ePc    01 28.32  -0.5
RDT      2.14 281 eP     01 27.01  -2.3
SPU      2.14 298 ePc    01 27.20  -2.1
CGLM     2.18 301 eP     01 28.11  -1.7
TZL      2.25  35 eP     01 30.71  -0.1
CKL      2.27 297 ePc    01 29.10  -2.1
REF      2.28 279 ePc    01 28.74  -2.6
NCG      2.29 303 ePc    01 29.44  -2.0
RSO      2.30 278 iPc    01 29.43  -2.2
RED      2.31 277 ePc    01 29.18  -2.5
                 eS     01 57.51
RDN      2.31 279 ePc    01 28.99  -2.7
8GL      2.32 298 eP     01 29.86  -2.1
RDW      2.33 278 ePc    01 29.61  -2.4
SKT      2.40 318 ePc    01 30.59  -2.3
                 eS     02 00.38
CUT      2.41 336 eP     01 31.59  -1.4
GLB      2.45  58 iPd    01 31.98  -1.6
                 eS     02 00.22
CROM     2.54  76 iPc    01 32.96  -2.1
SDG      2.62  27 eP     01 34.31  -1.8
TGL      2.69  76 ePc    01 34.81  -2.3
                 eS     02 06.52
BALM     2.97  72 ePc    01 38.56  -2.5
PAX      3.03  24 eP     01 40.87  -1.1
PDB      3.07 264 eP     01 39.80  -2.5
RND      3.20 354 eP     01 43.18  -1.2
TRF      3.39 344 eP     01 45.81  -1.2
SVW      3.78 287 e(P)   01 53.00   0.5
        0.7s     58.14nm
        43 obs. associated
-----------------------------------
    JUL  31, 1991  15h 43m 28.27± 0.99s
    43.270 N ± 4.7km   14.386 W ± 9.5km
    DEPTH =  10.0km  (geophysicist)
    4.3mb (  2 obs.)
 NORTH ATLANTIC OCEAN              (402)

STS      4.29  93 iPnc   44 37.68   2.6
                 eSn    45 23.90
EZAM     4.34 103 iPnc   44 37.68   1.9
                 eSn    45 24.10
EMON     5.15  86 iPnc   44 49.37   2.1
                 eSn    45 44.60
ERUA     5.40  97 iPnc   44 52.45   1.7
                 eSn    45 50.40
EPLA     6.99 114 iPnd   45 13.00  -0.3
                 eSn    46 26.70
GUD      8.06 106 iPnc   45 29.38   1.0
                 eSn    46 53.00
EVAL     8.13 132 iPnc   45 28.53  -0.6
                 eSn    46 51.70
ECRI     8.74  90 ePn    45 39.38   1.7
                 eSn    47 10.90
EHOR     8.83 125 iPnc   45 36.99  -1.8
                 eSn    47 08.50
VAL      9.11  16 eP     45 39.00  -3.6X
EPRU     9.42 129 ePn    45 45.41  -1.6
                 eSn    47 22.60
ETOR     9.50 101 ePn    45 49.59   1.5
EBAN     9.52 119 ePn    45 47.29  -1.2
                 eSn    47 26.90
EJIF     9.66 132 ePn    45 50.59   0.3
                 eSn    47 30.10
EVIA    10.11 113 iPnd   45 55.90  -0.7
                 eSn    47 43.20
ECOG    10.20 122 ePn    45 56.40  -1.5
                 eSn    47 42.40
AFC     10.23 122 iPnd   45 57.95  -0.3
                 eSn    47 43.80
ECP     10.42  28 eP     46 01.00   0.4
                 eS     47 51.20
LPF     10.48  58 Pn     46 00.60  -1.0
                 Sn     47 50.00
EGUA    10.49 124 ePn    46 16.40  14.7X
                 eSn    47 49.50
MFF     10.63  67 Pn     46 02.40  -1.2
                 Sn     47 53.70
GRR     10.73  57 Pn     46 04.20  -0.8
EPF     10.77  86 Pn     46 05.40  -0.1
                 Sn     47 58.10
ETA     10.90  27 eP     46 08.40   1.2
LFF     11.01  76 Pn     46 08.40  -0.4
                 Sn     47 59.00
FLN     11.11  56 Pn     46 09.20  -1.0
                 Sn     48 04.20
ENIJ    11.24 120 ePn    46 12.74   0.8
                 eSn    48 11.00
LDF     11.26  57 Pn     46 11.30  -1.0
EROQ    11.27  97 ePn    46 14.65   2.3
                 eSn    48 12.00
LPO     11.31  77 Pn     46 12.60  -0.3
                 Sn     48 07.40
AVE     11.36 149 iPn    46 12.00  -1.5
                 iSn    48 10.00
                 i      4B 13.00
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31d 15h

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RJF     11.58  74 Pn     46 15.00  -1.6
                Sn     48 13.00
ACU     11.59 109 ePn    46 17.88   1.1
                eSn    48 19.40
LSF     11.70  70 Pn     46 17.80  -0.4
                Sn     48 17.50
CAF     11.95  76 Pn     46 20.40  -1.2
                Sn     48 23.40
IFR     12.14 140 iPn    46 23.00  -1.3
                iSn    48 28.00
TCF     12.17  70 Pn     46 23.40  -1.2
                Sn     48 27.60
MAF     12.41  70 Pn     46 27.30  -0.5
                Sn     48 34.60
BGF     12.65  69 Pn     46 30.00  -1.0
                Sn     48 40.20
ETER    12.71  88 ePn    46 33.72   2.0
AVF     13.03  68 Pn     46 35.40  -0.6
                Sn     48 48.00
SSF     13.18  67 Pn     46 37.60  -0.4
                Sn     48 52.10
SMF     13.34  69 Pn     46 39.40  -0.7
                Sn     48 56.60
LOR     13.45  66 Pn     46 41.40  -0.2
                Sn     48 57.00
LBF     13.48  68 Pn     46 41.20  -0.9
                Sn     48 59.00
TIO     13.56 153 iPn    46 43.00  -0.2
                iSn    49 01.00
                i      49 03.00
HAU     15.24  65 Pn     47 04.50  -0.6
LPL     15.26  74 Pn     47 05.00  -0.5
FRF     15.29  82 Pn     47 06.00   0.3
BSF     15.51  66 Pn     47 07.40  -1.2
ENN     15.72  54 eP     47 12.00   0.8
        0.7s     20.00nm          4.4mb
                e      50 02.50
CDF     15.93  64 Pn     47 14.00   0.0
RUP     16.08  59 eP     47 15.98   0.0
FEL     16.33  66 eP     47 21.42   2.3
ABH     16.43  59 eP     47 21.07   0.7
WTTA    18.71  69 iP     47 54.90   5.9X
                i      48 05.50
MOX     19.15  58 eP     48 02.50   8.4X
        2.1s     25.00nm          4.1mb
CLL     20.15  57 eP     48 08.00   2.8X
KHC     20.16  63 Pg     47 47.00 -18.4X
                Sg     48 12.00
BRG     20.65  59 eP     48 13.00   2.6X
TIC     37.40 165 P      50 44.00   0.9
KIC     37.73 164 P      50 46.60   0.7
LIC     37.81 165 P      50 47.20   0.7
WR2    144.99  58 iPKPd 03 08.30   0.8
        0.6s     5.70nm
ASPA   147.39  63 ePKP   03 15.40   4.0X
        1.2s     5.30nm
      S.D. = 1.2  on  57 of  65 obs.
-----------------------------------
?  JUL  31, 1991  17h 34m 47.32± 9.30s
   8.056 S ±81.6km  128.320 E ±15.3km
   DEPTH = 165.7 ± 42.1 km
   3.5mb (  1 obs.)
 TIMOR SEA                        (290)

MTN      5.50 150 iPc    36 09.00   0.6
                eS     37 15.00
KNA      7.66 177 iPd    36 37.60   0.4
        0.3s     83.00nm          5.7mb X
                eS     38 04.00
WR2     13.19 154 iPd    37 47.50  -2.0
        0.3s     27.20nm          5.1mb X
                eS     40 12.20
MBL     15.39 211 eP     38 17.00  -0.1
ASPA    16.42 162 eP     38 30.70   0.9
        0.3s     14.00nm          4.8mb X
                eS     41 31.00
OIS     16.54 140 eP     38 31.00  -0.2
                eS     41 30.00
NANU    18.96 219 eP     38 58.00  -0.3
                eS     42 30.00
STK     26.73 154 eP     40 14.00   0.8
        1.3s      1.50nm          3.5mb
      S.D. = 1.2  on   8 of   8 obs.
-----------------------------------
*  JUL  31, 1991  17h 48m 08.92± 4.48s
   26.976 S ±12.4km  176.656 W ±14.7km
   DEPTH = 154.3 ± 38.8 km
   4.7mb ( 11 obs.)
 SOUTH OF FIJI ISLANDS            (171)

DZM     16.13 284 iPd    51 49.80   1.4
KHZ     17.37 205 eP     51 50.60 -12.6X
TAU     33.24 232 eP     54 33.00  -0.2
TOO     33.50 242 eP     54 34.20  -1.4
CTAO    34.60 273 iPc    54 45.00   0.0
                eS     00 33.00
STK     36.53 252 eP     55 01.50   0.3
        0.7s      1.80nm          3.9mb
OIS     40.38 269 eP     55 32.00  -1.3
ASPA    44.59 263 iPc    56 05.50  -2.0
        0.9s      8.90nm          4.4mb
      Z  22s      0.90um          4.6MszX
                eS     02 35.90
WR2     45.25 268 iPc    56 11.10  -1.6
        0.7s     21.30nm          4.9mb
SBA     51.53 184 P      57 02.70   2.3
SPA     63.18 180 eP     58 21.00  -1.5
        0.8s      9.17nm          4.8mb
CHJJ    75.36 324 P      59 36.60  -0.3
MAW     75.92 200 iPd    59 40.60   1.0
        0.7s     10.00nm          4.7mb
MAT     76.14 324 iPc    59 40.30  -1.0
        1.0s     16.00nm          4.7mb
                eS     09 37.00
OFUJ    76.38 328 P      59 43.40   0.9
MTMJ    76.39 324 P      59 42.70  -0.1
TSRJ    76.59 322 P      59 44.10   0.3
KGM     82.03 276 eP     00 14.00   0.6
NVL     82.35 183 Pc     00 19.00   4.9X
CMB     83.43  41 eP     00 19.00  -1.2
WDC     83.91  38 eP     00 23.30   0.8
PSI     86.24 275 iP     00 35.00   0.4
ALQ     90.51  51 eP     00 53.00  -1.6
        1.5s     12.50nm          4.8mb
BJI     91.33 315 eP     00 59.50   1.5
        1.8s     34.00nm          5.2mb
PNT     91.34  33 eP     01 10.00  12.1X
BW06    92.85  43 eP     01 09.50   4.2X
        1.0s      2.25nm          4.3mb
CHG     93.56 289 eP     01 11.00   2.2
GOL     93.79  47 eP     01 10.00   0.3
        1.1s      5.13nm          4.7mb
RSSD    96.95  44 eP     01 23.00  -0.9
        1.1s      7.45nm          5.0mb
NB2    145.53 353 PKP    07 29.00  -0.6
        1.2s     17.70nm
HFS    146.10 351 ePKP   07 30.90   0.5
        0.8s     11.60nm
KSP    154.20 341 ePKP   07 52.40   9.5X
                e      08 05.70
SPC    154.25 334 ePKP   07 44.40   1.1
CLL    154.62 346 ePKP   07 53.00   9.6X
                e      08 12.00
BRG    154.80 344 ePKP   07 58.10  14.4X
      S.D. = 1.3  on  28 of  35 obs.
-----------------------------------
%  JUL  31, 1991  18h 05m 29.50± 0.99s
   39.299 N ± 7.3km   27.839 E ±10.2km
   DEPTH =  10.0km  (geophysicist)
 TURKEY                           (366)
      MD 3.2 (ISK).

IZM      1.01 207 ePg    05 48.50  -0.1
                eSg    06 03.50
EDC      1.05   1 ePn    05 49.20   0.0
KGT      1.22 340 iPn    05 52.00  -0.2
EZN      1.28 295 ePn    05 53.50   0.2
YLV      1.73  42 ePn    06 00.00   0.1
      S.D. = 0.3  on   5 of   5 obs.
-----------------------------------
?  JUL  31, 1991  18h 19m 17.41± 3.46s
   21.408 S ±22.7km  168.719 E ±41.1km
   DEPTH =  87.7 ± 18.0 km
   4.1mb (  4 obs.)
 LOYALTY ISLANDS                  (188)

DZM      2.22 252 iPd    19 53.10   0.0
                iS     20 29.10
PVC      3.67 354 iP     20 13.00   0.0
                iS     21 04.00
BKM      3.75 353 iP     20 18.50   4.4X
                iS     21 17.50
RMQ     18.93 251 iPc    23 43.00   8.8X
BWA     22.08 230 eP     24 05.60  -0.8
CAN     22.15 227 eP     24 07.40   0.3
CMS     22.78 239 iPc    24 16.00   2.8X
        0.9s     22.00nm          4.5mb
STK     26.33 241 eP     24 47.60   0.7
        1.0s      2.60nm          3.7mb
WR2     32.14 266 iPc    25 38.40  -0.4
        1.2s      1.60nm          3.7mb
ASPA    32.19 259 iPd    25 39.40   0.1
        0.6s      5.60nm          4.5mb
      S.D. = 0.7  on   7 of  10 obs.
-----------------------------------
*  JUL  31, 1991  18h 41m 14.86± 2.68s
   38.528 N ±20.3km   26.545 E ±17.8km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                       (365)
      MD 3.4 (ISK), 3.2 (ATH).

IZM      0.58 103 ePg    41 26.50  -0.1
PRK      0.75 344 iPbc   41 30.00   0.5
                eSb    41 41.50
EZN      1.31 353 ePn    41 38.80  -0.2
KGT      2.01  17 iPn    41 48.50  -0.7
EDC      2.08  29 ePn    41 50.00  -0.3
RDO      2.73 344 ePn    41 59.40  -0.1
YLV      2.99  46 ePn    42 04.00   0.8
      S.D. = 0.6  on   7 of   7 obs.
-----------------------------------
*  JUL  31, 1991  18h 55m 38.39± 0.95s
   71.703 N ± 9.3km   10.598 W ±10.5km
   DEPTH =  10.0km  (geophysicist)
   3.3mb (  2 obs.)
 JAN MAYEN ISLAND REGION          (639)
      MD 2.9 (BER).

JNW      0.97 133 iP     55 55.73  -1.1
                eS     56 08.78
JMI      0.98 141 iPc    55 55.62  -1.4
                iS     56 08.24
JNE      1.03 133 eP     55 56.37  -1.5
                eS     56 09.80
DAG      5.55 340 iPc    57 01.80  -1.1
        0.3s    193.51nm          6.2mb X
AKU      6.63 208 iP     57 18.00  -0.1
        1.0s     28.00nm          5.2mb X
                iS     58 23.90
MOR7    10.52 109 iP     58 09.90  -2.2X
MOL     11.50 134 iP     58 21.22  -4.2X
KTK1    11.59  87 iP     58 26.85   0.2
HFS     15.09 128 eP     59 13.00   0.0
        0.7s      1.80nm          3.6mb X
      Z  16s      0.11um          4.6Msz
                LR     03 36.00
EKA     16.74 165 P      59 35.00   0.9
        0.4s      3.10nm          3.8mb X
KAF     17.03 105 eP     59 39.30   1.6
        0.3s      0.80nm          3.3mb
NUR     17.80 111 eP     59 43.00  -4.3X
        0.5s      1.40nm          3.3mb
CLL     23.03 140 eP     00 45.00   0.9
KSP     24.17 136 eP     00 44.00 -11.2X
                e      00 56.20
KHC     25.22 141 P      01 07.00   1.6
                e      01 11.50
      S.D. = 1.3  on  11 of  15 obs.
-----------------------------------
?  JUL  31, 1991  19h 33m 30.71± 4.52s
   42.349 N ±43.6km   15.519 E ±13.2km
   DEPTH =  10.0km  (geophysicist)
 ADRIATIC SEA                     (382)

DUI      1.05 229 P      33 51.60   1.1
SDI      1.42 244 P      33 56.00  -0.6
                eSg    34 14.50
SGO      1.80 185 P      34 01.00  -0.9
                eSg    34 19.50
BRT      1.94 139 P      34 04.50   0.5
      S.D. = 1.6  on   4 of   4 obs.
-----------------------------------
*  JUL  31, 1991  20h 01m 59.47± 1.36s
   38.669 N ±11.3km   26.731 E ±11.5km
   DEPTH =  10.0km  (geophysicist)
 AEGEAN SEA                       (365)
      MD 3.4 (ISK), 3.2 (ATH).

IZM      0.50 123 iPg    02 09.60   0.0
                eSg    02 17.00
PRK      0.68 328 ePb    02 13.00   0.1
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                    eSb    02 22.50
EZN      1.20 345 iPn    02 22.00    0.2
KGT      1.83  14 iPn    02 31.00   -0.2
EDC      1.89  27 ePn    02 32.20    0.1
RDO      2.64 340 ePn    02 42.50   -0.3
YLV      2.78  46 ePn    02 45.00    0.0
     S.D. = 0.2  on   7 of   7 obs.
-----------------------------------------
?  JUL  31, 1991  20h 58m 30.06± 6.22s
   39.893 N ±64.6km   15.719 E ±46.4km
   DEPTH =  10.0km  (geophysicist)
 SOUTHERN ITALY                     (390)

MMN      0.21  91 P      58 34.60    0.0
                  eSg    58 38.50
MGR      0.28 333 P      58 35.70   -0.1
                  eSg    58 39.60
CSI      0.45 105 P      58 39.30    0.0
SGO      0.74 335 P      58 44.60    0.1
                  eSg    58 57.30
     S.D. = 0.2  on   4 of   4 obs.
-----------------------------------------
   JUL  31, 1991  21h 44m 27.92± 1.07s
   32.785 N ± 5.7km  141.706 E ± 5.3km
   DEPTH =  39.9 ±  8.8 km
   4.7mb ( 29 obs.)  4.6Msz (  4 obs.)
 SOUTH OF HONSHU, JAPAN             (211)

KAKJ     3.64 340 P      45 22.10   -1.1
                  eS     46 04.10
CHJJ     3.95 326 iPd    45 27.20   -0.5
                  eS     46 14.40
IIDJ     4.14 312 P      45 31.40    1.1
                  eS     46 24.00
MAT      4.73 323 iPd    45 37.80   -0.9
                  eS     46 29.00
NIIJ     4.97 334 P      45 40.70   -1.3
MTMJ     4.97 321 iPd    45 41.70   -0.4
TSRJ     5.48 302 eP     45 50.60    1.4
YAMJ     5.55 346 P      45 46.60   -3.6X
OFUJ     6.28 360 P      45 55.00   -5.5X
                  eS     47 01.60
MRRJ     9.64 357 eP     46 43.20   -3.9X
                  eS     48 23.30
HOOJ     9.66   7 eP     46 40.70   -6.7X
                  eS     48 21.70
KUSJ    10.56  12 eP     46 51.90   -7.9X
                  eS     48 42.00
ASAJ    11.34   3 eP     47 04.10   -6.2X
MDJ     15.11 325 Pc     48 04.50    4.3X
        1.0s     30.00nm          4.5mb
     N  12s      1.00um
     E  12s      1.30um
CN2     16.82 316 eP     48 21.70   -0.2
        1.0s     10.00nm          3.9mb
     Z  14s      3.50um          4.0MszX
     N  13s      1.10um
     E  13s      2.60um
                  epP    48 29.00
SNY     16.99 307 Pd     48 26.00    1.9
        0.8s     20.00nm          4.3mb
     Z  18s      1.40um          4.2Msz
     N  12s      1.20um
     E  10s      0.60um
                  S      51 32.00
DL2     17.37 296 eP     48 29.50    0.6
     Z  17s      1.74um
     N  14s      2.28um
     E  16s      2.78um
SSE     17.50 270 P      48 31.50    1.0
        1.0s     12.00nm          4.0mb
     Z  16s      1.80um          4.1Msz
     N  12s      0.80um
     E  12s      1.40um
                  sP     48 45.70
NJ2     19.30 274 Pd     48 52.00   -0.4
     Z  16s      0.60um
     N  13s      0.90um
     E  12s      1.00um
PJG     19.33 171 eP     48 53.00    0.2
GUA     19.38 171 eP     48 53.10   -0.3
        0.9s    208.40nm          5.4mb
TIA     20.53 286 eP     49 07.40    2.0
     Z  15s      2.60um          4.7MszX
     N  13s      0.90um
     E  13s      1.90um
                  eS     52 53.00
BJI     21.74 297 eP     49 16.50   -1.1
        0.7s      6.00nm          4.1mb
     Z  17s      1.46um          4.5MszX
     N  12s      0.62um
     E  13s      0.90um
                  ePP    49 44.00
                  eS     53 18.00
WHN     23.37 272 eP     49 35.00    1.3
     Z  16s      0.60um          4.1MszX
     N  17s      2.30um
                  eS     53 48.00
TIY     24.35 290 eP     49 44.80    1.5
     Z  14s      2.62um          4.9MszX
     E  13s      1.59um
                  PP     50 22.00
                  S      54 02.00
HHC     25.35 297 eP     49 54.00    1.2
     Z  18s      1.80um          4.6Msz
     N  13s      1.00um
     E  16s      0.80um
                  sP     50 03.00
                  PP     50 31.00
                  eS     54 13.00
                  sS     54 25.50
BTO     26.47 296 eP     50 03.50    0.2
     N  17s      1.70um
                  epP    50 10.00   23kmX
                  ePP    50 48.00
                  eS     54 33.00
XAN     27.33 282 P      50 09.00   -2.1
     N  12s      1.10um
     E  12s      0.80um
YAK     30.25 349 eP     50 38.20    1.3
                  e      51 14.00
GYA     31.01 268 P      50 45.40    1.2
     Z  20s      1.30um          4.6Msz
     N  14s      0.90um
     E  14s      1.10um
LZH     31.27 287 eP     50 48.00    1.6
        1.5s     20.00nm          4.7mb
     Z  15s      1.21um          4.7MszX
     N  12s      0.57um
     E  11s      0.51um
CD2     32.18 277 eP     50 52.40   -1.9
     Z  14s      2.20um          5.0MszX
     E  12s      1.80um
GTA     34.25 293 P      51 11.40   -0.9
        1.0s     30.00nm          5.2mb
     Z  16s      1.20um          4.7MszX
     N  11s      0.80um
                  pP     51 24.00   48kmX
                  eS     56 40.00
CHG     40.66 261 eP     52 03.30   -2.8
LSA     43.01 280 P      52 23.90   -1.9
WMQ     43.10 301 eP     52 26.50    0.5
     Z  18s      0.60um          4.5Msz
     N  13s      0.60um
GUN     47.96 280 P      53 05.44    0.3
        0.8s     43.00nm          5.5mb
PKI     48.47 279 P      53 08.68   -0.4
        0.9s     26.00nm          5.3mb
KKN     48.50 280 P      53 09.18    0.0
        0.9s     58.00nm          5.6mb
DMN     48.71 280 P      53 10.86    0.1
        1.0s     30.00nm          5.3mb
GKN     48.96 280 P      53 12.76    0.1
        1.1s     59.00nm          5.5mb
WR2     52.90 189 iPc    53 41.50   -0.8
        0.7s     19.90nm          5.2mb
QIS     53.08 182 eP     53 43.00   -0.5
NDI     54.82 284 eP     53 56.00   -0.4
ASPA    56.63 189 eP     54 10.10    0.7
        0.5s      8.00nm          5.0mb
GAR     56.82 298 eP     54 10.40   -0.4
INK     58.08  26 eP     54 18.00   -1.1
MBC     60.53  16 ePc    54 36.80    0.8
        1.0s     12.00nm          5.0mb
QUE     62.52 290 eP     54 48.20   -2.0
STK     64.32 180 eP     55 01.60    0.1
        0.7s      2.10nm          4.3mb
MAIO    65.80 299 eP     55 14.00    2.6X
                  eS     04 08.00
YKA     67.37  29 eP     55 20.70   -0.1
        1.1s      2.50nm          4.2mb
SOD     68.98 338 eP     55 31.00    0.3
OBN     71.65 324 eP     55 47.00   -0.1
     Z  18s      0.60um          4.9Msz
     E  18s      0.40um
                  eS     05 10.00
                  ePS    05 42.00
                  eSSS   13 20.00
KAF     72.20 334 iP     55 49.50   -0.8
        0.5s      3.20nm          4.5mb
IR7     72.54 301 eP     55 52.00   -1.0
IR4     72.55 301 eP     55 54.00    0.9
IR1     72.62 301 eP     55 55.00    1.5
NEW     73.03  43 eP     55 54.80   -0.7
        1.0s      4.00nm          4.3mb
NUR     73.82 333 eP     55 59.30   -0.4
        0.4s      2.90nm          4.6mb
SES     75.28  39 eP     56 08.00   -0.5
LRM     77.03  44 eP     56 18.70    0.0
HFS     78.06 336 eP     56 23.70    0.0
        0.5s      1.70nm          4.3mb
     Z  16s      0.44um          4.9MszX
                  LR     33 49.00
NB2     78.20 338 P      56 24.40   -0.1
        0.7s      3.10nm          4.4mb
TNP     78.27  52 iP     56 26.00    0.4
        1.0s     10.50nm          4.8mb
CLC     79.23  54 eP     56 31.00    0.3
SBB     79.68  55 eP     56 34.00    0.9
GSC     80.05  54 eP     56 35.00   -0.2
BW06    80.48  45 eP     56 37.80    0.3
        1.0s      2.50nm          4.1mb
FRB     80.85  13 eP     56 39.00    0.4
VRI     82.13 320 eP     56 36.50   -9.2X
KRA     82.75 326 eP     56 53.10    4.3X
                  e      57 01.10
RSSD    82.84  41 eP     56 50.00    0.2
        1.2s     10.93nm          4.8mb
SPC     83.21 326 eP     56 55.40    3.9X
PV09    83.27  48 eP     56 52.80    0.6
KSP     83.84 329 eP     57 05.00   10.6X
BRG     84.83 330 eP     57 02.80    3.4X
GOL     84.85  46 eP     57 00.00   -0.1
CLL     84.90 331 eP     56 59.00   -0.7
        1.0s     15.00nm          5.1mb
PRU     85.23 329 eP     57 00.00   -1.4
                  e      57 15.00
                  e      57 18.30
ZST     85.39 326 e(P)   57 14.90   12.7X
MOX     85.97 331 eP     57 13.30    8.2X
        2.0s     25.00nm          5.1mb
KHC     86.29 329 eP     57 15.50    8.7X
                  e      57 23.50
ALQ     87.14  50 eP     57 12.00    0.6
        1.0s      2.50nm          4.4mb
LPB    148.60  66 (PKP)  04 14.00    4.6X
                  e      04 51.00
CNCB   148.85  66 PKP    04 12.00    2.0
     S.D. = 1.0  on  69 of  86 obs.
-----------------------------------------
&  JUL  31, 1991  22h 15m 21.67s
   61.411 N          147.516 W
   DEPTH =  19.0km
 SOUTHERN ALASKA                      (  2)
      <AEIC>. ML 2.5 (AEIC).

SCM      0.43  12 eP     15 30.44   -0.2
KNK      0.45 271 iP     15 30.73   -0.1
                  eS     15 37.71
GLI      0.57 159 iP     15 32.30   -0.6
                  eS     15 40.80
VZW      0.58 127 iP     15 32.35   -0.8
                  eS     15 41.40
VLZ      0.64 116 iP     15 32.81   -1.1
                  eS     15 41.98
GHO      0.76 299 iP     15 35.04   -1.2
                  eS     15 45.78
KLU      0.77  83 iP     15 34.91   -1.4
                  eS     15 45.60
PLRM     0.80 284 iP     15 35.45   -1.2
                  eS     15 46.03
TOA      0.95  42 eP     15 38.43   -0.8
                  eS     15 51.42
PMS      1.00 261 iP     15 38.98   -1.2
                  S      15 52.11
KNIM     1.07 186 iP     15 39.77   -1.6
PWA      1.16 283 eP     15 41.12   -1.6
TZL      1.18  57 eP     15 42.06   -1.1
LTI      1.39 187 eP     15 45.11   -0.9
SDG      1.46  39 iP     15 45.91   -1.2
SUA      1.55 273 eP     15 47.45   -1.1
```

31d 22h

		eS	16	08.06	
SLKM	1.60	237 eP	15	48.45	-0.7
		eS	16	08.69	
SEW	1.62	217 eP	15	48.39	-1.0
		eS	16	09.29	
CUT	1.64	309 iP	15	48.56	-1.1
		eS	16	10.62	
GLB	1.78	87 iP	15	50.54	-1.3
		eS	16	11.96	
PAX	1.84	31 eP	15	51.27	-1.4
		eS	16	14.91	
SKT	2.00	288 eP	15	53.54	-1.4
		eS	16	20.44	
SPU	2.20	266 eP	15	56.36	-1.6
CROM	2.23	105 eP	15	57.32	-1.1
NCG	2.23	272 eP	15	57.07	-1.3
CKL	2.34	267 eP	15	58.47	-1.4
BGL	2.35	269 eP	15	58.72	-1.4
TGL	2.37	104 eP	15	59.36	-0.9
TRF	2.42	329 iP	16	00.70	-0.4
BALM	2.53	96 eP	16	00.73	-1.9
CNPM	2.64	226 eP	16	03.32	-0.8
REF	2.69	252 eP	16	03.80	-1.2

32 obs. associated

JUL 31, 1991 22h 27m 59.62± 0.60s
40.149 N ± 4.7km 142.574 E ± 7.3km
DEPTH = 52.2 ± 4.8 km
4.7mb (17 obs.)
NEAR EAST COAST OF HONSHU, JAPAN(228)

OFUJ	1.28	214 P	28	21.30	-0.1
		S	28	36.70	
AOMJ	1.73	284 P	28	28.20	0.4
HOOJ	2.30	13 eP	28	36.40	0.7
MRRJ	2.54	334 eP	28	39.70	0.6
		eS	29	09.00	
YAMJ	2.79	226 eP	28	42.90	0.1
		S	29	17.40	
KUSJ	3.35	28 P	28	49.60	-1.2
		eS	29	26.00	
ASAJ	3.97	1 eP	28	57.60	-1.8
NIIJ	4.03	225 P	29	01.20	0.9
KAKJ	4.37	206 P	29	03.80	-1.2
		eS	29	58.30	
CHJJ	4.97	216 P	29	13.20	-0.4
MAT	4.97	225 iPc	29	14.60	0.9
MTMJ	5.17	228 P	29	17.60	1.1
IIDJ	5.94	220 eP	29	27.70	0.4
TSRJ	6.96	231 eP	29	42.00	0.6
MDJ	10.59	299 eP	30	32.00	0.6
	0.8s	20.00nm			5.3mb
BJI	20.18	278 eP	32	30.00	-2.3
TIA	20.37	267 Pc	32	35.30	1.0
BTO	24.73	282 eP	33	17.00	-0.5
GTA	32.64	283 eP	34	28.00	-0.7
	0.8s	10.00nm			4.7mb
GYA	32.74	256 P	34	27.40	-2.2
WMO	40.33	294 P	35	33.50	0.0
		pP	35	46.20	47kmX
CHG	43.00	253 eP	35	55.80	0.3
CHTO	43.00	253 eP	35	55.20	-0.3
	1.0s	3.00nm			4.0mb
GUN	47.82	273 P	36	33.94	-0.4
	0.4s	28.00nm			5.6mb
KKN	48.33	274 P	36	37.72	-0.4
	0.8s	48.00nm			5.6mb
PKI	48.35	273 P	36	37.62	-0.8
	0.4s	5.00nm			4.9mb
DMN	48.56	274 P	36	39.32	-0.6
	0.9s	15.00nm			5.0mb
GKN	48.72	274 P	36	40.42	-0.6
MBC	53.29	17 eP	37	15.00	0.2
WR2	60.27	189 eP	38	03.80	-1.1
	0.8s	3.40nm			4.5mb
YKA	60.67	31 eP	38	21.50	14.2X
	0.8s	1.10nm			
QUE	60.92	286 eP	38	09.20	-0.5
ASPA	64.00	189 eP	38	41.90	12.1X
	0.8s	4.70nm			
HFS	71.63	336 eP	39	16.70	-0.4
	0.4s	2.00nm			4.4mb
	Z 16s	0.03um			3.7MszX
		LR	10	31.00	
NB2	71.67	337 P	39	17.00	-0.4
	0.8s	5.10nm			4.5mb
FRB	73.54	14 eP	39	28.00	-0.2
KSP	77.93	328 eP	39	54.30	1.0
		e	40	07.60	
LOR	85.53	333 eP	40	33.50	0.4
	0.9s	4.90nm			4.7mb
LBF	85.73	333 eP	40	34.60	0.5
	0.8s	3.35nm			4.6mb
SSF	85.83	333 eP	40	35.20	0.7
	0.9s	4.10nm			4.6mb
LPL	85.98	331 eP	40	36.30	0.7
	0.9s	6.55nm			4.8mb
LPG	85.99	331 eP	40	36.40	0.6
	0.8s	4.05nm			4.7mb
SMF	86.07	333 eP	40	36.50	0.7
AVF	86.11	333 iPc	40	36.60	0.7
	0.8s	11.40nm			5.1mb
MAF	86.88	333 eP	40	40.80	1.1
	0.9s	5.75nm			4.8mb
TCF	86.94	334 eP	40	41.10	1.0
LSF	87.20	334 eP	40	42.10	0.8
MAW	122.73	207 ePKP	46	55.60	5.7X

S.D. = 0.9 on 45 of 48 obs.

& JUL 31, 1991 22h 37m 38.50s
40.673 N 124.165 W
DEPTH = 23.0km
NEAR COAST OF NORTHERN CALIF. (35)
<BRK>. ML 3.3 (BRK). Felt (IV) at Rio Dell and (III) at Bridgeville, Kneeland, Fortuna and Samoa. Also felt at Eureka, Ferndale and Scotia.

FHC	0.19	47 iPc	37	43.47	-0.4
		iS	37	47.10	
FOX	0.20	139 iPd	37	44.07	0.1
WDC	1.24	94 ePc	37	58.60	-1.9
		eS	38	16.40	
MIN	1.98	99 ePc	38	08.30	-3.0
ORV	2.33	118 eP	38	15.11	-1.0
		e	38	25.20	
CMB	3.94	131 P	38	43.00	4.0

6 obs. associated

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* JUL 31, 1991 22h 52m 19.47± 0.45s
10.428 N ± 7.3km 126.504 E ±13.0km
DEPTH = 50.0km (geophysicist)
4.4mb (8 obs.)
PHILIPPINE ISLANDS REGION (248)

DAV	3.44	196 eP	53	31.60	19.6X
QCP	6.75	309 eP	54	44.00	45.5X
BAG	8.28	317 eP	54	17.00	-2.9X
SSE	21.15	347 P	57	03.50	1.0
	1.0s	20.00nm			4.4mb
NJ2	22.65	343 Pd	57	18.20	0.8
IPM	25.91	259 ePd	57	49.40	0.5
TIA	27.04	343 eP	58	01.00	2.0
CHG	27.91	291 eP	58	06.50	-0.6
CHTO	27.91	291 eP	58	08.00	0.9
	1.0s	3.00nm			3.9mb
XAN	28.49	328 P	58	10.00	-2.2
BJI	30.88	344 eP	58	32.50	-0.9
WR2	31.16	166 eP	58	34.40	-1.6
	0.6s	2.50nm			4.1mb
SNY	31.38	356 eP	58	38.00	0.3
LZH	32.78	325 eP	59	05.50	15.2X
	2.0s	20.00nm			
HHC	33.05	339 eP	58	51.80	-0.7
OIS	33.38	157 eP	58	54.00	-1.4
BTO	33.40	337 eP	58	54.00	-1.6
MDJ	34.17	4 eP	59	01.50	-0.5
ASPA	34.65	168 eP	59	06.00	-0.4
	1.0s	4.80nm			4.4mb
WARB	36.39	180 eP	59	21.00	0.0
GTA	37.38	325 eP	59	28.80	-0.6
	0.8s	10.00nm			4.8mb
	Z 16s	0.50um			4.4MszX
PKI	42.19	300 P	00	10.20	0.5
KKN	42.36	300 P	00	14.20	3.3X
GKN	42.97	300 P	00	16.60	0.8
STK	44.48	162 eP	00	27.60	-0.1
	1.1s	2.00nm			3.8mb
BWA	49.22	156 eP	01	06.80	1.9
CAN	50.23	156 eP	01	14.20	1.5
INK	84.05	22 eP	05	09.00	23.3X
MBC	85.51	13 eP	04	54.00	1.1
	0.8s	5.00nm			4.7mb
NB2	92.72	334 P	05	26.90	-0.5
	0.8s	1.50nm			4.5mb

S.D. = 1.2 on 24 of 30 obs.

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* JUL 31, 1991 23h 15m 11.55± 3.25s
37.100 S ±23.8km 71.872 W ±11.3km
DEPTH = 55.2 ± 18.7 km
4.4mb (3 obs.)
S. CHILE-ARGENTINA BORDER REGION(145)
Felt (II) at Chillan, Chile.

CHCH	3.31	18 iPd	16	03.10	0.9
		iS	16	39.00	
TACH	3.52	13 iPd	16	05.30	0.2
		iS	16	42.70	
LCCH	3.62	4 iPd	16	05.50	-1.0
PCH	3.64	18 iPd	16	07.50	0.6
		iS	16	46.70	
SAN	3.77	16 iPd	16	09.00	0.4
		iS	16	49.00	
PEL	4.07	14 iPd	16	13.00	0.3
		iS	16	53.00	
IHA	4.07	3 iPc	16	12.30	-0.4
		iS	16	54.20	
ROCH	4.18	10 iPd	16	14.20	-0.3
		iS	16	59.00	
JACH	4.53	14 iPd	16	18.60	-0.7
		iS	17	06.50	
ZON	6.14	26 eP	16	42.00	0.1
ITB1	19.44	55 Pc	19	36.30	0.1
ITB	19.45	56 Pc	19	36.50	0.0
CNCB	20.50	11 P	19	48.70	0.6
ARE	20.56	1 eP	19	48.00	-0.4
LPB	20.76	10 P	19	51.00	0.4
PPD	23.28	56 eP	20	13.70	-1.4
VAO	25.63	64 eP	20	37.20	-0.5
LIC	75.65	71 P	26	53.20	0.5
KIC	75.95	71 Pc	26	55.00	0.5
ALQ	78.56	332 eP	27	08.00	-0.7
	0.9s	2.10nm			4.1mb
RSSD	85.94	337 eP	27	47.00	0.2
	1.0s	10.30nm			5.0mb
BW06	86.59	333 eP	27	50.50	0.5
	1.0s	2.00nm			4.3mb

S.D. = 0.6 on 22 of 22 obs.

% JUL 31, 1991 23h 41m 40.83± 0.79s
38.062 N ±17.4km 15.087 E ± 7.1km
DEPTH = 10.0km (geophysicist)
SICILY (398)

ATN	0.31	72 P	41	48.00	0.7
		eSg	41	53.90	
MNO	0.34	247 P	41	47.80	-0.1
		eSg	41	54.10	
SOI	0.76	89 Pc	41	55.30	-0.4
		eSg	42	05.70	
GIB	0.84	265 P	41	57.30	0.2
		eSg	42	10.80	
CZI	1.42	35 P	42	06.20	-0.4

S.D. = 0.6 on 5 of 5 obs.

? JUL 31, 1991 23h 52m 34.09± 5.07s
43.265 N ±36.1km 7.241 E ±21.3km
DEPTH = 10.0km (geophysicist)
NEAR SOUTH COAST OF FRANCE (379)
ML 1.6 (LDG).

FRF	0.52	304 Pg	52	44.70	0.0
		Sg	52	52.30	
LMR	0.54	278 Pg	52	44.90	-0.1
		Sg	52	52.50	
SBF	0.61	13 Pg	52	46.50	0.0
		Sg	52	54.30	
LRG	0.67	287 Pg	52	47.50	0.1
		Sg	52	56.10	

S.D. = 0.1 on 4 of 4 obs.

STATION DATA REPORT FOR JULY, 1991

1321 stations reported 66501 reading arrival groups

X = data received for this 6-hour time period

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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         X  X     X                       X       X             X                           X        X  X
AAI   XX  X   XXXXXXXXXXXX XX                  X   XXXXXX X    X XX    X XX         XXX                      X
ABA                                       X X       X  X   XX          X X XXX  X                 X      X X X X X XX XXXX X
ABH                                                                       XXX  X    X           X   XX                 X    X X
ABHA          X         X    X   X    X              X X  X  X               XX                 X  X X     X   X
ABL        X   X        X    X         X                 X                 X   X                        X
ACX     X X  X X X    X     X         X          X XXXX  XXX   X  XXX   X X   X XX X X    X XX  X      X X    X X  X       X  X
ADE    X  XX       X  X XX  X      X       X   X  X X   X  X    X X X     X    X         X     XXX X   XX X X  X   X  X
ADI       X         X    X                       X       X                XX         X                     XX X   X X X
ADK     X XX X X X X  XX    X        X    X           X X   X   X                 X X   X     XXX X    XX            XX  X
AFC        X X    X   X     X  X     XX            X  X   XX        X       X X   X               X    X               X       X
AFI       XXXXX X  X  X XX  XX  XX    X   X  XX X X X X XX XX        X  X X  X   XXX     XX     XX      X X XXXX  X XXXXXX
AFR        X     X  X     X                       X    X    X                      X     XX                      X
AGG   X   XX X X  X  XXX  XXXXXX      X  XXXX   XX X  X X  X XX X  XX X  XXX  X          XXX XX XX XX  XX   X  XXX XX  X X X   XXX
AGO     X     XX      XX   XX  X  X X                  X  X    X    X  XX X XX     X   X       X      X                          X
AIA     XXX   XXXXX  X XX XXXXXXXX  XXXX     X XXXXXXX XXXXXXXXXXXXXXXX X XXX  X XXXX   XXX   X  X    X   X  XXXX XXXX
AKU      XXXX     XX  X    X        X X   X      XX  X X  X    X   X       X     X    X       X    X                X                X
ALN      XXXX  X     X    X        XX  X X   X   XX X X  XX          X   XX XXXX       X X  X  X     X   XX  XX  X    X XX   X
ALO   XXX XX X X    XXXXXX  XXXX XX XX X XXX  XX XXX  XXX   XXXXXX   XXXXXXXX    XXX XXXXX   XXXXXXXX   X X   XXX XX XX XXXXX X  X
ALT    X        X  X   X   XXXX  X X     XX      X X       X             XX   X    X       X  XXXXX XXXX  XX   XX XX      X   X
ANM       X        X   X    X        X X  X                 XX       X              X       X   XXX X                      X X X
ANMO  X X XXXXXXX  XXXXXX  XX X X  XX X  XX XXX XXXXXXXX XXXXXXXX XXXX XXXXXXX  XXX XX XXX  XXXXXX X
ANP     X X     X  X  X X X XX        X   X  X   X    X XX X   X    X XX  XXX       X    X      X X   XX  XX X   X    X   X   X
ANT      XXXX XX  XXX XX  X XXXXX X   XX XXX X  X  XX X   XX XXX         X   XXX   X X    XX  XX XXXXX  XXX XXX  X XXXX  X X XX
AOMJ  X   X   X     X  XX           XX  XXX       X   X X X     X           X  X  X  X X      XX  X             X   X XX        X
APM   XXX      X    X       X X                   X   X   X  X X       X X         X       X          X       X       X
APO       X        X X                      X X         X         X                    X  X   XXX      X  X  X   X X
AOU      XX X X XXX  XXXXX              X   X  XXX XXX   X  X  X       X    X  X  XX X   X       XXXXX  X  XXX
ARE   XXXXXXXXXX  XXX XX  X XXXXX X X XX XX   X  XXXXXXXX XXX XX XX X X X X XX   XX    XXXX  X  XXXXXX XX  X XXXX XX   XXX  X X  X
ARN        X X              X     X  X   XX    X    XXX  X X X         XX    X   X X        X   X X   X       X     X   X X
ARV   X  XXX X XXXXXXXXXXX   XXX  X XXXXXX XX XXX XXX XXXXXXX XX X X  XXX  X XX XX XX XXX XX X XXXXX  XXXXXX  XX XX      X XX XXX
ASAJ      XX    X  XX XXX   X     X XX X XX  X    X   X XXX     X   X      X XX XX X  X XX     XXXXX   X   X      X   XX  X     X
ASK       XX    XX X   XX          XX XXX  XX XX           XX           X  X       XX       XX XXX         X X X                X
ASPA  XXXXXXXXXXXXXXX
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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
BLH            X          X X X                    X   X            X                   X          X               X
BLN            X          X X X    X  X  X         X   X            X                   X          X               X
BLY                                            XXX   XX XX X X          X  X X X            X              X          X
BMA                                       X     X     XX   X                                   X     X   X X   X
BMG   X       X   XX      X           XX         X   X  X XX                     X    X  XX     X
BMR     XXXX     X  X                   X   X    XXXXXXX XX X XX    X    XXXXXX X XXX     X X X  X   XXX     X X       X   X X X
BMW  XX   X X X X  X      X X X    X  X  X          XXXXXX X X   XX  XXX  X       X       X       X X     X       X X
BNH     X  X     X  XX    X          X                   X             X      X     X     XX       X      X          X
BNI  X   XXXX  X  XXXXXX   XX  XX   X X  XX XXX  XX XX X  X X XXX  XX      XX X  X  X    XX    XX XX   X    X          XXXX
BNS    X XX X     XX       X   X    X X   X X     X  X X  X   X    X      X XX     X   X     X XX XX X X  X   X  X      X    X
BNT     X XXX XX    X XXXXX      X XXX XX XX
BOB      XX X XX XXXXXXX   XX X   XXX X  XX  X X X XXX X  X X XXX   X     XXXX  X  XX X XX  XXXX              X   X     X
BOG  X X X  X XX    XXX  X  X         XXX         XX   X XXXXX           X              X   X  XX      X       X        X
BONR     X X X             X       X  X         X X  XXX  X   X    X   X X   XX     X    X  X         X       X X     X   X
BPA    X X  X             X       X  X X  X X  X    X  X      XX        XX X  XXX    XXX  X X XX   XX    X     X  X       XXXXX
BRD                     X        XX X        XX   X  X                 XX X   X
BRG  XXXXXXXXXXXXX XXXX  XX X     XXX XXXXXX  XXXXXXXX XXX XXXX  XXXXXXXXXXXXX XX XXXXXXX XXXXXXXXX  XX  X  XXX XX XX XXXXXXXXXX
BRK     XX X X   XX   X   XX      X  X   XX    X  X        X   X     X    X      X X             X    X       X          XX
BRLK   X  XX XX             X         X      X         X   X    X      X    X   XX X  X  X            XX   X
BRN     XX X               X              X          X X  X               X         X              X
BRS   XX XXXXX XX XXXXXXX  XXXXXX X   X
BRT     X X X   X XX XX  X X XX   X XXX XXX XX X XXX   X  XXX        X  X X XX   X XXX XXX   X X    X     X   X  X       X   XX X
BRVW                     X X X    X                X   X    X       X X                X          X                X
BRW                X  XX      X     XX X  X  X          X  X    X      X   XX       X       X   XXXXXX
BRY     XXXX  X XX X XXX  X X  XX  XX XXXX  X X XXX X XX X XX  X    XX X XX XX  X X   X X     X XX XX   XX     X      X X    X
BSD                                                      X   X      XXXX      X          XXX X            X                X
BSF   XXXX X X X XX XXXXX XX   X  XX X XXX XX   XXXXXXX XX X  X X XXXXXX XXXXX X XXXX X   X XXXXXXXXX X      XX XX  X XX   XX X
BSI                X  X  X    XXX      XX      XX                 X       XXXX X X     X  XXX XXX XX     X   XXX  X X X
BTH     X  X     XXX X    X                    XX    X  X                 X        X           X                        X    X XX
BTO  XXX XXXXX  X XX XXX   X       XX X XXX XX    XXXX X  XX   X   X XXXXXXXXX    X XX XX  X  XXXXXX X X  XX  X   X  XXXXXXXX XXX
BUC     XX X     X                    X   X   XXX X X XXX             X  X   X X   XXX     X  X   X     X XX        X      X
BUC1    X X      X  X                 X   X    XX X    XX X X          X  X   X       XXX      X   X   X   XX
BUD  X  XX           X              X            XX   XX XX X X          XX X   X          X   X  X                        X
BUL     XXXX   XXXXXXXX   XX             X  X XX XXXXXX  X      XX   XX XXXXXXXXXXXXXX  XXXXXXXXXXXX   X  X   X XXXX  XXX  X
BVW                      X X X    X                X                X   X                X          X              X
BW06  X XXXXXXX  XXXXXXX  XX   X  XX X   X  X  XXXX XXX XXXX XXX XX XXX X XXX   XX XX XXX   X XXXXX   X      XX XX XXXXXX      X
BWA     XXX X  X XXXXXXX  XXX X  X X X  XX      X   X X  X    X   X    XXX     XXX     XX    XXX X   X  XXX       X  XXXX X    XX
BWN      XXXXX              X          X    X                X   X X X X   XX X   X     XX  X   XX _                  XX X
CAF  X XXXXXXXXX XXX XXXX  XX XXX   XXX XXX  X   XX XXXXXXX    X X XXXXXX XXXXX XX XXX X X X X XXXXXXXX  X X X  XX  X X       X
CAI  X  X        X X     X          X              X   X              X X        X                X              X
CALN    X X       X  X   X               XX     X  X    X X     X X     X   X                     X      X        X
CAN   X XXXXX XX XXXXXXX  XXX X  X X X  XX      X   X X XX    X   X    XXX   X XXX     XX    XXX X   X  XXX      X  XXXX X    XX
CAW     XX X     X  X                          XXX      XX   XX      X  X                 X  X      X   X    X
CBN     X   X   XX X  X  X          X          X   X    X              XXX  X   X            X    XX       X  X   X X
CCB      XXXXX  X        X   XX    X X   X  X X            X   X  X   X X XXX   XX X  XX XX  XX  XX   XX          X       XX X
CCH  XXXXXXXXXXXXXXXXXX X XXXXXXXX  XXXXXX  X   X X XXX XXX XXXX     XXXXXXX        X  XXX XXXXXX XX     XXX XXX     XX
CD2  XXXXXXXXXX X XXXXXXX  XXX X  XXX XXXXXXX     X  X X  XX  XX   XXX XXXXXX X X X X XXX XX  XXX XX X X  X   X   X XX XX  XX XXX
CDD   XX  XX X  XX X       X          X   XX XX  X X X X   XX   X    X X    XX X XX X  XX  X  XX  X    XX   X      X      X  X
CDF   XXXXXXX XXX XX  XXXX XX   X  XX X XXX XX   XXXXXXX XX XX XXX XXXXXX XXXXX X XXXX X XXX XXX XXXXXXX      XX X   X XXX  XX X
CDFW XXX      X    X       X X X    X  X  X      X   XXXXXX X X   X   XXX         X       X          X       X       X X
CDR  XXXXXXXXXXX XXXX XX   X    XXX XXXXXXXXXXXX XXXX X  X X XXXXXXXXXX  XX XX X   X    XXX XXX XXXXXXX  XXX    X     XXX X  X X
CEI    X   X     X                                                      XX X X X         X   X  X
CER   X XX       X  XX    XX                 XX XX X X  X           X  XXXXX     XX      X X     X        X        X X
CEY     XX XX XX XX  XXXX X        XXX   X X    XXX X X  XX X XX  X X    X XX   X X X X      XX  XX       X   X           X   X
CFR              XX XX    XX     X X    X  XXXX XXX X XX XX X            XX XXX X X X   XX   XX  X   X       X
CGLM  XX  XXXXX XX X    X X X XXX   X X X XX X X X XXX X   XX   X  X   X X  XXXX XX X  XX XX  XX  XX   XX   X      X       X  XX
CGP  XXXXXXXXXXXXXXXXXX    XXXXXXX XXXXXXX            XX  XXX XXXX    XXXXXXX XXX
CGX     X   XX X          X          X          X X X    XX    X   X                X                X       X    X    X     X
CHCH                                                                                                XX XX XX  X X  XXXX  X X XXXXXXX XXXXX
CHG  XXXXXXXXXXXXXXXXXXXXXXX    XXXXXXXXXXXXXXXXXX XXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX X XXXX XXXXXXXXXXXXXXXX
CHJJ  X X XX    X  XX XXX   XX       XX X XX  X   X    X X X     X   X        XX  XX X  XXXX     XXXXX        X    X X   XXX XX   XX
CHTO  XXXXXXXXXXXXXXXXXXX XXXX XX XXX XXXXXXX   X XX    XX      X X             X XX  X  XXX  XX      X  XX XX  XX  X X  XXX  XX
CIN  XXXXXX   X   X   XXX XX    XXXXX XXXXXX XXX XXXXXXXX XXXXXXX  X  XXXXXX     XXXXXX XXXXX    X XXXXX X XXXX XXX  X XXX X
CKI      XXXX  X XXX XX    XX X X XXX XX  X X XX XXXXX XX X X XXX XXX        X XX   X  X          XX  XX            X  X  XX XX
CKL       XX  X XX X    X X X XXX   X X X XX X X X XXX X   XX   X  X X X X  XXXX XX X  XX XX  XX  XX   XX   X      X      X X  XXX
CLC  X X XXX  X X XX XXXX  XX        X X  XX  X  XXXX XXX  XX  XXX XX XXX XXX     XXXX  XX   XX XXXXX   X     XXX XX    X  XXX   X
CLE   X X  X X   XX XX     X          X          X   X  X          X    X                          X
CLL  XX XXXX XXX XXXXXXX  XX XXX XXXXXXXXXXX XXXXXXXXXXXXX XX  XXXXXXXXXXXXXXX XXX XXX XXXXXXXXXX  X  XX XXX XXXXX XXXXXX XXX
CLLP          X           XX  X      X            XX X  X   X            XXX        X                  X                X
CMB  X X XX X XXX XX XXXX  XX      XX X XXXX X  XXXX XXX  XXX  XX XX XXXXX X XX   X X   X   XX XXXXX   X      XX X   X  XXXX    X
CMP      XXXX  X  X  XXX   X   X  XX XX  XX  XX  XXXXX XX XX X            XXXXXX X XX  XXX X   X  XX  XXX X   XX  X    XXX    X
CMS    X XX       XXXXXXX XXX  X  X   X  X  XX   XXX   X  X    XXX X X   X      XXX     X     XXX X   XX X X  XX XX     X X  X XX
CN2   XXXXXXXX    XXXXXXX  XXX X  XXX X XXX XXX  XXXXX X  XX X X   XXXXXXXXX XX X X XX XX XX  XXXXX  X X   X  X   X   XXXXXXX  XX
CNB     XX       XX X XX  XX  X  X   X          X        X X  X      X    X     X  X    X X   XXXX   XX           X   X XXX  XXXX
CNCB XXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXX   X XXXXX X XXXXXXXXXXXXXXXX XX  X   XXXXXXXXX        X   X
CNPM  XX  XXXXX XX X    X   X XXX   X X   XX XX  X X X X   XX   X    X X X  XX X XX X  XX  X  X   XX   XX   X      X     X X  XXX
CNZ     XX       X    X                     XX       X    X                                X
COLF        X          X                  X          X  X XX                X  X     X                          XX
COO     XX X   X XXXXXXX XXX     X   X   X XX   X     X  X    X X   X  XXX            X     XXX X   XX X X     XX   X   X  X X
COOL  X  XX X   X XX X X  XX X X  X   XX XX  X X XXX XXX  X    X    X   XXX           XX X  XXX  X   X X X      X       X
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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
COP    X XX X    XX                                          X  X   X XX    X            XX X    X      X
CPD   X   X   XX           X   XX     X             XX X  X   X X          XXX        X                          X
CPW  XXX      X X          X X X    X  X  X         XXXXX  X X   X   XXX         X       X           X       X       X
CRE  X X XX XX  XXXXXXXX X XX XXX X XXXXX XX XXX XXXXXXX XXX X  X X  XXXXXX XX XXXXX X XXXX X XXXXXX    X X   X XX  X   X X XX
CRF                      X X X    X     X          X   X  X           X         X       X          X             X
CRM     X X  XX     X     X         XX              X   X      X        X X   X                          X   X  X        X X
CROR X X                 X X X    X            X   XXXXXX X X       XXX              X         X       X       X       X
CRPM               X            X    X                                X     X   X               X                      X
CROM   X  XX X   X                     X    XX      X          X    X XX   XX   XX    XX        XX  X XX   X      X      XX XXXX
CSI     XXX X   X XX X     XXXX     X X X X  X   XX  X X  XXX   X  X X  XXX XX XX  X X X X     XX X       X   X  X    X  X     XX
CSS     XXX       X  XXX X X                    XXXXXX  X   X X X  X XXXX X            X    XXXXX  XX       XX X   XXX XXX  X
CSY  X XXXX XX X XXXXX XXXXXXXXXXX  XXXX X  XXX XXXXXX X X X  XXX    X XX X XX   X  XX XXX  XXX X XX    XX X X X XXX X  XX  X X X
CTA   XX XXX      X      XX   XX XX  XX     XXXX  X XXXXXXXXXXXXXXX XXX XXXXXXXX XXXXXXXXX XXXXXXX XXX           X  XXX X   XXX
CTAO XX  XX XX   XXX XXXXXXXXX    X X XX XX  X   XXX XXXXXXX XXXXX XXX  XXXX XX X XXX  XXX  X XXXXXX  XX XXX X XXXX  X  X XXXXXX
CTGM   X  XX X                          X     X      X          X    X  X   XX    X        X     X   X X    X            XX XX
CTI         X  X   X X        X              XXXX  X                  X  XX  X   X X    X  X     X        X  X      X
CTT  XXXXXXXX  X  XXXXXX  X    XX  XX XXX     XXXXXXXXX  XXX XX XXX XXXXXXXXXX XXX  XXXXXXX  X   X XXXXXX   XXX XXXXXX X X  XX
CUT       XXXXX    X    X X   XXX   X X X XX X X    XX X   XX   X  X   X X  XXX  XX X  XX XX  XX  XX   XX   X      X       X  XXX
CVA   X  X  X                  X             X    X X          X      XX    X                    X    XX                X
CVP  XXXXXXX     XXXXXXXX    XXXXXXXXXXXX XX            XX XXX XXXXX        X XXXXXXXX
CWC                                                                          XXX      X    X     X  XX X   X      XX  X     X
CYA  X   XXX         X X   XX   X    X   X XX   XX  X    X   X X   X  XX    XX  X   X  X     X  XX   XX  X         X  XX  XX   X
CZI    XXX XX  XXXX X  XXXXXXXXX   X X XXXX X  XXX  X XX XXX   XXXX XX XXX XX XX  X X X X XX  XXXX       X   X  XX   XX X   XXXX
CZM  XX       X               X         X  X      X   XXX XX   X   X   XXX          X       X       X       X X
DAG     XX                                                                           X     X  X XX        X               X        X
DAU   X  X   X    X                  X               XX  X            X    X                X   XXX    X
DAV   X XX  X X  XX XXX   X XX  XX      XX XX X     X X  X        X X   X X       XX   X X  X X         X       X            X
DBN   X X  X     XX  X    X          X              X X  X           X   X        X            X    X      X
DBO  X                              X  X           XX X X           XXX                X
DCN   X XX X     XX  X    X       XX X  XX X        X X  X                 X    X X    X    XX XX X    X         X   X  X   X
DEG   X X    X  X          X  XX   X  X  XXX X  X       X     XXX X    XXXXX   XXX     XX XX XXXX   X     X     X  X    X   XXXX
DEV     XXX  X   XX                            XXXXXXXX XXXX           XXXXXXXXXXXX   XX XX  X  XX  X X X  X  X X   X XX X  XX
DFR  XX  XXXXX XX X    X X X XXX   X X X XX X   X XXX X   XX   X  X X X X  XXXX XX X  XX XX  X   X     XX   X      X     X X  X
DHR     X  X     X  XXX   X   X     X             X  X X                X              XX X   XX X      XX   X
DHW2          X           X X X    X                X   X              X            X          X
DIM     X     X  X                  X    XX      X    X  XX X X          X XXXX X            XX  X           X        XXX X  X
DIX             X   XX    X    X   X X  XX      XX XX X  X    X   XX      X  X     X          XX XXX   X                X
DL2  XX X   X    XXXXXX   X             XX  X       X X  XX   X   X X   XX       X     X  X  XXX X       _XX  X          X      X
DLF   X XX X                          X     X  X X  X    X           X      X    X    X  XX X    X         X   X  X   X   X
DMK  XXXXXXX  X  XXX  X        X XXX XX XXX XXXXXXX  X  XX
DMN  XXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXX XXX XXXXXXXXXXXXXXX XXX
DMU   X XX X    XXX  X    X  X    XX X  XX X     X  X X  X    X   X       X XX X X    X    XX XX X    X         X   X  X   X
DOG                                          X     X     XX   X    XX    X       XX  X X XX          X     X  X        X XX
DOI       XX  X  XXX X    X  X X X X XX  XXX XX  X    XX   X XXX  XX    X  X     X          XX XX   XX              X XXX
DOU   XXXXXX  XX XX XXXXX XX X    XX XXXXX X  X XXXXX X  X  X XXXXXX XX                      X X     XXXXXX XX XXX      X
DPW   X  X     X          XXX X    X                 X  X           X X XX              X X        X X
DRA        X      X                            XXX X XX  X              XXXXXX X   X     X                    X     X
DSI    XX            X X   X        X X          X   X  XX              XX       X     X X   XX  X          XX X   X   X
DST                            XXXXXXXXXX  XXXXXXXXXX  XX XXXXXXX XXXXXXXXXXX XXX
DUG   X  X   X    X               X                 XX  X           X    X       X             XXX    X
DUI      XX X X  XX  XX     XXX     X X XXX  XXX XXX X X  X       X  X  X    X     X X X X   XXXX    X    X                    X
DZM  XXXXXXXXX XXXXXXXXXXXXXXXXXX XXXXX XXXXXXXXXXXX XXXXX X XXXXXXX XXXXX XXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXX  XXXXXXXXXXX
EBAN  X  X          X      X  X     X             X  X    X           X    X                    X                    X       X
EBG  X        X          X X X    X             X   X XXXX X          X X X         X       X       X       X       X
EBR   X X  X     XX  X    X        X X   X   X   X  X X  X       X  X    XX       X    X      X  XX   X              XX       X
ECB      X X     XX  X    X        X X  XX          X X  X              X       X   X              X
ECH     XX X X   X   XXX  XX       X X  XX X    XX  X X  X  X XXX X  XXX X XX     X      X  XXX   X XXX              XX
ECHE  X  X X      X  X    X  X     X                X   XX        X    X    X                X  X
ECOG                                             X  X X XX        X       X X   X               X    X                    X       X
ECP      X X     XX  X    X          X  XX          X X  X                        X   X               X                       X
ECRI      X        X        X  X     X               X    X        X                                                    X       X
EDC    X XXX  X   XXXXXXXX     X XXX  X XX     X XXX XX  XX   X XX     X X XX X XXX  X  XXXX  X     XXXXX    XXX XXX XX XX  XXXX
EGD      X    XX X   XX          XX XX   XX XX           XX           X  X         X       XX XX           X X X              X
EGUA     X X       X  X    XX            X  X   XX        X       X X   X             X  X    X               X       X
EHOR  X  X        X X     X  X    X               X    X         X      X                X    X               X       X
EHUE     X      X X X     X  X    XX             X  X   XX        X  X    X X                X  X    X               X
EJIF  X  X        X X     X  X    XX              X X  X                X                    X    X               X       X
EKA  XXXXXXXX X  XXXXXXX   X X X   XX X  XXXXX   XX  X X XXX   X  XX X XX XXXXX X XXXX XXXXXXX XXXXXXX X  X  XX  XX XX XXX  X  XX
ELC     X                      X   X X          X  X    X        X   X   X      X                    X
ELL  XXXXXXXXXX   X  XX       XX X   XXX X XXX X X X XXXXX X   XXXXXX XXX XX XXXXX  XXXXX XXX  XXXXXX  XXXXXXXXXX XXXXXXXXXXXXXXX
ENIJ     X      X X        X  X      X            X  X   XX           X    X X                    X                    X       X
ENN   XXXX X  X XXX  XXX  X        X X XXX XX   XXX X X  X  X XXX XX XX  XXXX X   X   X X     XXXX XX X  X   X  X   X  X XX XXX
ENR     XXXX    XX   XX  XX   XX XXXX   XX XX    X XX XX X  XX X XXX     X  XX X  X  X     X  X XXXX  X X  X   XXX  XXXXXXX X X
EPF   X  XXX XX  XX  XX X XX X    XX X XXX      X  XX XX X      X   XXX  XXX X X  X   X     X XXXXX  XX  X X    X  XX X       X
EPLA  X  X        X XX    X  X    X               X  X X  X                X X                    X    X                X       X
EPRU  X  X X      X X     X  X                    X    X                    X                                           X       X
ERC               X       X       X           X  X X X  XX
ERK  XXX      X    X       X X X          X      X   XXXXXX X X   X   XXX         X       X          X       X       X X
EROO  X  X X      X  X    X  X    X                    X       X  X     X                  X  X                    X       X
ERUA     X        X       X  X    X                X    X                X X                                           X       X
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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
ESCF                   X    X  X                         X                   XX        X             X     XX       X     XX
ESD  XXX                    X X      X                XXXXXX           XXX         X        X          X       X       X X
ESEL      X X         X    X        X                X X XX                 X                    X  X
ETA       X X      X  X    X        X X   X           X X  X                 X       X   X                X                      X
ETER      X           X    X        X                X    X          X    X                        X                    X       X
ETOR   X  X X      X XX    X  X     X              X  X X  X       XX X    X                        X  X   X               X       X
ETW  X          X         X X X    X                 XX X  X            X X                X          X       X       X
EVAL   X  X        X        X  X                     X    X                 X                      X                    X       X
EVIA   X  X      X   XX     X  X     X              X  X X XX         X  X    X X                    X  X   X               X       X
EYL                   X          XX XX  XXX     X X   XX  XX XXXX        XX XXXX  XX  X  XXX   X  X  XXX   X  XXX X X  X XXX

EZN  XXXXXXX XX  XXX XXXXXX   XXXXXX XXXXX   XXXXXXXXXX  XX XXX XX  XXXXXX XXXX XXX  XX  XXXXXX   X XXX  X  XXX  XX  XX XX   XXX
FBA  XXXXXXXXXX XX  XXX  XX XXX    X X  XX  XX  XXX XXX   XXX X X X XXX XXXXXX XXX XX XX XXXXXX XXX  XXX X X XX XX XXXXXXXXXXX
FDF  X  X X  XX      X     X   X     XX             X    X      X        X X   X                    X   X  X        X X
FEL     XX X X   XX  XXX  XX       X X  XX X    XXX X X  X  X XXX X  XXX XXXX    XX     XX  XXX   X XXX    X X X  X   XX XX   XX
FFC     XXXX X   XXXXXXX  XXX     XX XXXXX  X  XXX  XXXXXXXX XXX  X XXXXXXX X X  X XXXXX  XXXXX XX X  X      XX XX XX X XX  X
FHC     XX           X    X X     X  X   X     XX   XXX  XXX X    X  X          X             XX   X         X   X   X X    X
FIN     XXXX    XX  XXX  XX    X XXX       X     X XX XX X     X XXX     X  XX X  X             X  XXX  X        XXX  XXXXXXX
FL2  XXX      X    X       X X             X      X   XXX XX X X   X   XXX         X      XX          X       X       X X
FLN  X XXXXXX XXXXXXX XXX  XX X    XX X XXX XX    X XX X XX    X  XX XXXX XXX   XX X X X X XXX XXXX  X X    X XX X  XX XXXX  X X
FMW  XXX      X X  X       X X X    X  X  X      X   XXXXXX X X   X   XXX X       X       X          X       X       X X

FNA     XXXX XX X   XX  XXXXXX      X  XX X   XXXXX XXX XXXXX          X X  X         XXX  X XX XX XX    X    X XX    X X   XXX
FOO      X X  X      XX       X     XX                  X                 X       XX          X          X X    X       X X
FORR  XX XX    XX XXXXXXX X  X X  XX  XX XX XX   XX XXXX XXX XXX   XX    XXX  X X   X   XXXXX XXX X   XXXX X X X  X  XXX  XX
FOX      X           X    X X       X   X     X    XXX  XX          X                X     X   X              X   X      X
FRB   X XXXX X   XX XXX   X        X X  XX  X   XX XX X  XX   X         X X      X          X   XX X  X              X       X
FRF   X XXXX  X  XXX XX  XXX X X X XXX  XXXXX   XX XX XX X X  X   XX X X XXXXX X  X       XXX XXX    XX X   XX XXXX XXXXX XX  XX
FRI  X X XX X X   XX XXXX  XX      X  X X XX X  XXXX XXX  XX     X XX XXXXX X X    X X   X    X XX XX   X      XX X      X X
FRO      X X  X      XX       X     XX                  X                 X      XX          X          X X    X       X X
FRS   X XX       X XXX    X        X X X X    XX XX XXX  X           XX XXXXX   X XX  XX  X X X  XX X     X          XX      X
FUR     XX X     X   XX   X              X X     X  X X  X    X   X   X  X XX     X          XX  X                          X

FVI     XX X X    X XX    XXXX X   XXX X X XX X XXXXX X  XX X XX    X    XXXXX    X X X XX X XX     X    X X X  X          X X
FVM   X X  X X   XXXXXX   XX   X   X X   X      XX  XXX  XX    X  X   X  XX     XX  X XX    XXXXXX    X      X  XX XXXX
GAR                                                                                                  X X  X          X X XXX    X
GAZ  X X X  X    X  XXXXXX       X X         X     X X    XX  X    XXX    XX X X  XXX  XXX   XX   XXX X XXX   X  X X   XXX    X
GBA  XXXXXXXXXXX XX XXX XXXXXXXXXX X XXXXXXX XX XX   XXXXXXXXXXX  XXXXXXXXXXX XXXXXXXXXXXXXXX XXXXXXXXXX XXX  XX XXXXX X XX   X X
GBL                     X X X    X                 X      X          X X                X          X                X
GBZT  XX  X X XX  XX  X          XX  XX   X   XX X   XX  XX  XX  XX   X  XXXXXX  XX     XXX   X  XX XX  XXX  XXX X   XX X X  XX
GCC    X  X X X X XX  XX   XXX        X   XX    X  X XXX         X     X XX X         X    X   XX    X _     X X          X
GDH                                                X                                          X XXXX    X              X XX
GHO  XX  XXXXX XX X    X X X XXX   X X X XX XXX   XXX X   XX   X  X X XXX  XXXX XX X  XX XX  XX  XX   XX   X      X       X  XXX
GHW  X          X  X       X X                  X   XXXXXX   X   X                      X          X       X       X
GIB        X   XX  X      X XX              X   XXXXX   X  XX X    XX XX X XXXX      XX        X                      X   X  X
GKN  XXXXXXXXXXXXXX
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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

HHC   XXX X XXXX X XXXXXXX  XXX     XX X XXXXXXXX  X XX X  X   XX   XXXXXXXXXXX  X X XX XX  X  XXXXXX X X  XX  X   X  XXXXXXXX  XX
HIN     X  X  X              X              X     X X           X       XX     X                   X     XX                       X
HKC      XXX        X    X   X X X       X              X     X      XX        X       X      X   X   X       XX        X        XX       X
HLW      XX              X                           X  X X  X                 XX              X       X  X              XX X      X X
HMT     X  X  X              X              X     X X           X       XX     X                   X     XX                       X
HNR    XXXXX X  XXXXXXXXXX X X   X   X XX   XXX XXXXXX XXXXX   XX X  XX XXX  XX  XXXXXX XXXXXXX X X XXXXXXX XXXXX  XX   XXXX
HOF          X          X                X X     X            XX   X      X         X           X X         X
HOM    XX  XX X  XX X    X    X         X   XX       X  X  X   XX   X   X X    XX   XX X  XX  X  X           X     X       X     X X  X
HOOJ      XX X  X  XX XXX    X      X XX X XX  X     X    X XXX      XX   X        X XX X  X  X XX       XX XX    X                X   XX  X    X
HOL    X  XX   X    X   X    XXX XX  XXXXX   X  XX   XXX XX  X   XX   XX        XXX X   X  XX XXXX  XXXXXXX XX   XX   XX XXXXXXX XXX  X

HRI     XXXX X     X   XXX   X        X       X X     X X  X  XX    X    X        X        X     XX       XX X X              XX  X          X  X
HRT    XXXXXXX  XX XX XX         XXXX X XXXXXX XXXXXXX XXX  XX   XX X X XXXXXXXXXXX  XX   XX XXX X X  XX XXX XX   XXX X X  X XXX  XX
HSO   X         X                        X                XX X X               XXX                X
HSR   XX                 X X X           X                XXXXXX   X    X    XXX           X         XX             X          X          X
HTW   XXX         X   X      X X X                      X    XXX X     X          X X                X                X                   X
HUR        XXXXX            X X    XX     X       X   X X    XX            X   X    X X  XXX    XX X  X  XX   XX   XX    XX   X                X   X
HVAR      XX X X    XXX X     X     XX XXX   XXX  X    XXX X XX XX XXXX    XX X XX X   X X X X X X  XX   X        X   XX          X X     X
HVD     X X         X XXX     XX         X          XX   X X     X                                 X X   X   X       X
HYA        X     XX X    XX          XX X     XX X          XX        X    X   X      X   XX          X  XX                X X      X               X
HYB    XX X XXX     XX XXX    XXX      X   X X X   X    X    X X   XX    X    XX XXXXXX   X XX XX    X   XXXXXXXX X   X   XX   X   XX   X X XXX

IAS        XX                         X         X     X     XX X                  XX XX XX                        X  X                          X
IFR     XXXXXX    X XX XX XXXX  X         X  X XXXX        XX XX  XXX     X X            X     X     X   XX   XX X X   X   X        XX XX   XX
IGT       XX X X  X  XXX   X    X        X   XX      XXXX  X X   X XX    X    XX    XXX  X         X       X    XX    X  XX  X           X
IHA   X X X                X     X     X                X        XX    X                   X                 X                X          XX  X      X
IIDJ  X    X             XX    X        XX X XX   X           X X X X   X              XX   XX X   XXX     XXXXX          X      X  XXX  XX     X
III     X  X  X X X     X      X                X           X XXXXX X                    XX
IISM              X  X X     X                              X  XX    XXX   XXXXXXXXXXX X  XX XX X X    X XXXXXX   XXX X   X X X  X X     X  X
IIT       X       X     X    X                 X            X XXX    XXX       XXXX XX X  XX XX X X       XX XX       X X   X X X  X X     X  X
IMA    XX  XXXXX   X   XX    X XXX    XX X  X  XXXX  X   X X    X        X  X  X X       XX X   X XXX XX XXXX   XX    X XX X    XX  XXX X
IMI       XXXX     XX   XXX   XX    X XXX     XX XX     X XX XX X  XX X XXX    X  XX X  X          X XXX    X X   X    X X  XXXXXXX    X

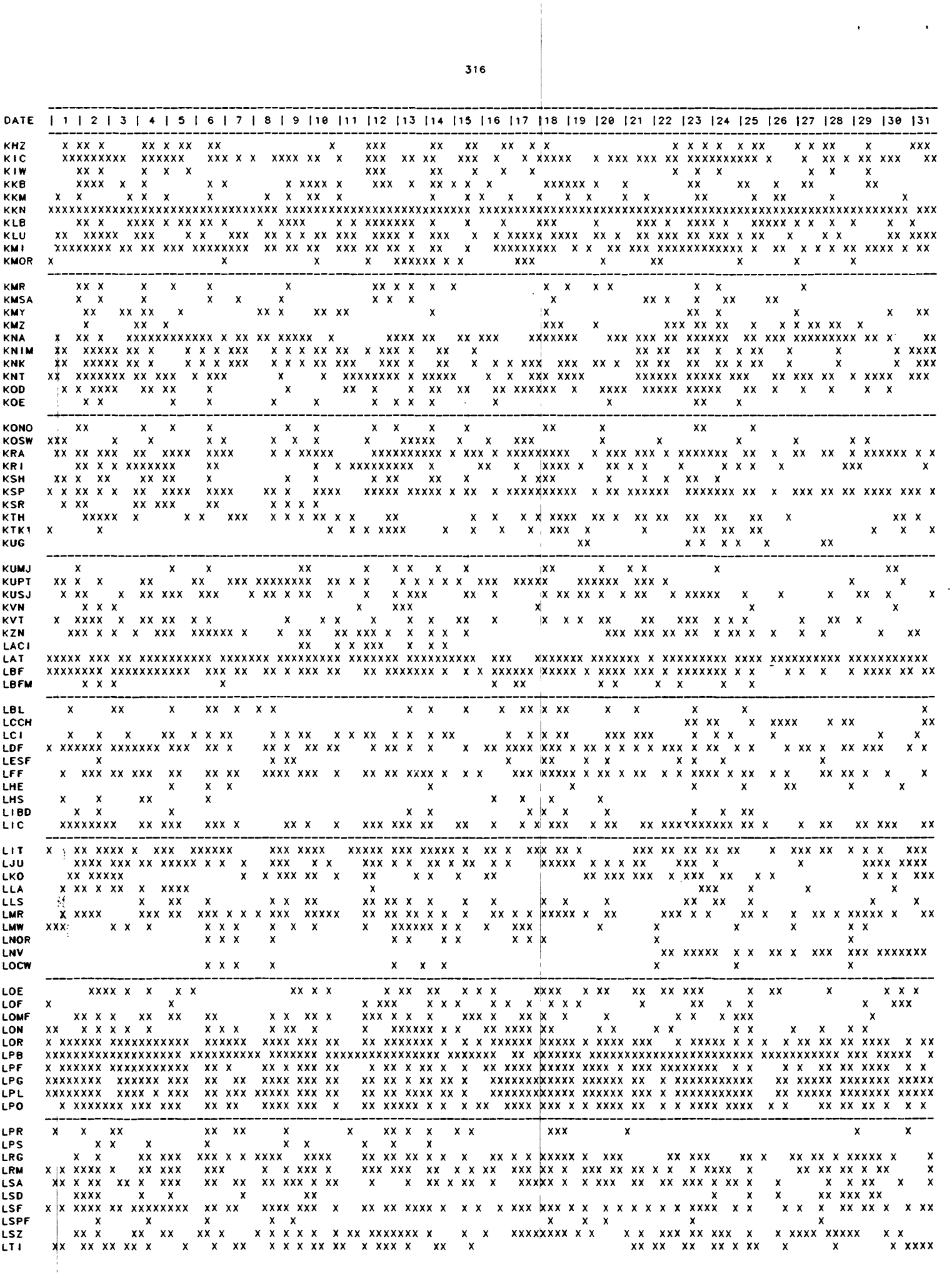
INK    XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XX XXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXX XXXX   XXXX   XXX X
IPM       X X       XX XXXX  X X       X X   XXXX    X     X  XXX   X   XXXX  XXXXXX X XXXXXXX       XXX XX    XXXXX       X XX  XXX X X X
IR1    XXXXX X     X  XXX XXXXXXX  XX X     X   XXXXXX X X XXX        X XXXXXXXXX    X       X  XXXXXX XXX   X     X XX XXXX XXXXXX   X X
IR4    XXXXX X     X  XXX XXXXXXX  XX X   XX X XXXXXX X X XXX XXX     X XXXXXXXXX    X       X  XXXXXX XXX   X     X XX XXXX XXXXXX   X X
IR5    XXXXX X     X  XXX XXXXXXX  XX X   XX    XXXXXX X    XXX   X   X XXXX XX      X       X  XXX X   XXX   X     X XX   XXX X X   X   X
IR7    XXXXX X     X  XX  XXXXX X  XX X   XX X XXXXXX X X XXX   XX    X XXXXXXXXX    X       X  XXXXXX XXX   X     X XX XXXX XXXXXX   X X
IRK     X X  X      XX XXX    X        X X   XX X X    XXXX X  XX          X   XXX   X       X X XXX       XXXXXXX   X         X       X
ISA   X X XXX  X X XX  XXX   XX        X X   XX  X  XXXX XXX   X    XXX XX XXX   XXX      XXXX  XX    XX XXXXX   X       XXX XX X  X  XX
ISK     X  XX  X   XX X           XX X X XX   XX    XXXXX XXX  X      X X X    XX XXXX X   XX   XX XXX    X    X XXX        XXX X X     X X
ISR        XX      XXXXX   X                            X   X                           X   X X X    X X      XX   X X XX  XX   X                X

ISSF                     X      X  X                              X                       XX          X           X        X       XX         X      XX
ITB       X    X      X         X          X     X          X X                                              X  XX       X                X  X         X
ITB1    X X    X      X  X      XX         X                X X    X                                          X   XX     X                X             X
ITB7           X      X         X          X                  X                                                   XX     X                X  X
ITU     X X           X         X          X           X    XXX  X                       X   X             X            X    X         XX  X     X
IVA       XXXX  X XX X XXX   X X   XX   XX XXXX  X X XXX X XX X XX   X     XX X XX XX   X X   X X    X XX XX  XX    X      X X    X
IVS            XX X  X      X X X         X    XX XX  X X X X   XX          X      XX     X      XX  X             X    X
IZI                XXXXXXXXX      X XXXXXXXXXX  XXX XXXXXX  XX XXXXXXX XXXXXXXXXXX XXX  XXXXXXXXXX  X  XXXXXXX  XXX   XXX  XX
IZM    XXXXXXX XX  XXXXXXXXXX  XXX XXX XXXXXX   XXXXX XXX  X  XXX XX  XX XXX XXXX XXX XX  XXXXXXXXXXXXXXX XXX  XXXXXXXXXXXXXXXXXXX
JACH                                                                                          X  XXXXX    X  XXX      X XX    X      XX

JARJ                     X         X           X       X                   X                       X  XX      X  XX           X
JAU                      X     X  X                    X                     X                     X      X      XX        X       XX
JAY   XXXX                                        XXXXXXXX XXX                  XXX XXX XXXX                          XXXXX XXXX    X X
JBO   XX         X    X        X X X    X          X    XXX XX X X   X   XXX        X        X          X                X X
JCW    X         X X  X        X X X    X          X    XXXXXX   X   X   XXX        X        X          X         X        X X
JLK   XXX        X    X        X X X    X               XXXXXX       X   XXX        X       XX          X         X        X X
JMI           X    X             X X                     X       X            XX             XX                                            X
JNE           X    X             X X X                   X   X   X            XXX    X  X XX  X        X X X  X                            X
JNW    X      X    X             X X X          X        X   XX  X    X       XXX    X  X XX  X  X     X X X  X                            X
JOZ                                            XX  X X     X          X   X X          X          X X X    X        X          X X

JSC     X X  X X   XX XXX    XX          X         X    XXX  X      X   X   X X XX     X          XX XXXX    X        XX X   X
JVI     XXXX              X   X                 X                X   X          X          X       XX                  X  X X    X
KAF       XXXX  X  XX XXXX   XX XX X XX X XXX XX X XX XX XX XXX   XX   XXXXXXXXXXXX X X   XXX  X XXXXXXXX       X   X  XX   XXXXXXXX XXX
KAGJ      X               X   X          XXX      X       X        X              XX        X       X                X                XXX
KAKJ  X X XX    X  X  XX     XX      XX    XX  X   X    X X X X  XX   X       XX  X  X  XXXX     XXX X       X      X X    XXX X     X
KAS     X X XX     XX     XX X            X   X      X X  X X  X            X X     XXXX X   X     X    XX X X XX X    X  X X     X
KBA     XXXXXXX X  X  XX        X   X       X X    XXXXX X  X     X            X X     X      X   XX    X           X X        XXX  X
KBS       X  X        X   XX          X   X             X XX X              X       X             X  XX X
KDC    XX  XXXX   XX  XX     XXX       X X  XX XXX  X X X X   X   XX  X XXX   XXX   XX    XX       X    X     X      X     X        XX XX
KDZ       XX    X  X   X       X X      X XXXXXX    XX X X  XX X X  X           X X X             XX   X    X          XX           X X    X

KEK       X X X     XXX  XXXXXX X   X  X   XXX XXX  X X  X X  X   X   X   X X XX     XXX XXX XXX X  X XX X XX   X           X    XX
KER       X X    X  XXX   X   X X  X    X       X         X                                  X     X      X         X        X
KEV     X XXXX  X  XX XX    X       X  X  X      XX  X X  XX   XX  X   X   XX XX  X          X  X   X    X  XX    X XX
KFNJ         X                                  X         X                X                    XX       X  XX          X
KGM    XX XXXXXX   XX XXX   X X      X X  XX            X  X    X X X XX  XXX      X  X XXX   XXX X   X  XX     X  XX X X    XX
KGT       XXX XX  XXX XXX XX    XXXXX  XXXXX  XXXXXXX XXX X  XXX XX   X XXXXXX X XXX  XXXXXXXX        XXXXX  XXXXXXX XXXXXXX  XXX
KHC    XXXXXXXXXXXXXXXXXXX  XXXXXX  XXXX XXXXXX X XXXXX XXXXX X XX X XX XX XXXXXXXXXXXXX XXXXXXX XXXXXXXXXXX            XXXXXXXXXX
KHKI                                     XXXX          XXXXXX  X  XX  XX X XX XX  X XX              XXXX
KHL   XXXXXXXXX     X    X X       X X XX    X  X    X X   XX   XX X XX     XXX XX X  XX XXX XXX XXX XXX XXXXX    XXXXXXX XX XX XXX
KHT   XXX XXXX   X X  XX      X X X X  X X   XXX    X  X  X   XX      X XX XXXX       XX  XX  XX XXX 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
KHZ
KIC
KIW
KKB
KKM
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KLU
KMI
KMOR
KMR
KMSA
KMY
KMZ
KNA
KNIM
KNK
KNT
KOD
KOE
KONO
KOSW
KRA
KRI
KSH
KSP
KSR
KTH
KTK1
KUG
KUMJ
KUPT
KUSJ
KVN
KVT
KZN
LACI
LAT
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LBFM
LBL
LCCH
LCI
LDF
LESF
LFF
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LHS
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LIT
LJU
LKO
LLA
LLS
LMR
LMW
LNOR
LNV
LOCW
LOE
LOF
LOMF
LON
LOR
LPB
LPF
LPG
LPL
LPO
LPR
LPS
LRG
LRM
LSA
LSD
LSF
LSPF
LSZ
LTI

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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
LTZ     XX X     X  X  XX XX  X       X    XX   XXX     XXX   XX     X   X             X  X X X X    X     X X XX         XX
LVNJ  X    X     X  X     X          X                                 X      X                    X
LVP  XXX      X    X       X X      X  X  X      X   XXXXXX X X   X   XXX         X      XX          X       X       X X
LVVM                                                              X X XXXXX X  X  X  X        X   X      X     X X X  X X     X  X
LZH  XXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXX X X X XXXXXXXXXXXXXX XXX XXXX XXX XXXXXXXXXXXXXX
MADF                          X                          X                  XX        X       X     X     XX       X     XX
MAF  X XXXXXX XX  XXX XXX  XX XX   XXXX XXX  X   XX XX XXXX X  X X XXXXXX XXXXX X  XXX XXX XXX XXXXX X X X  X X  XX  X XX X X  XX
MAIO  XX XX XX XX XXXXXXXX XXXXX  XXX XXXXXXXXXX XX XX XXXXXX XXXX XXXXXXXXX XX X  XXXXXXXXXXXXXXXXXXXXX XXX XXXXXX X XXXXXX  XX
MAL   X XXXX  XX XXXXXX   X  X       X    X      XX X X  X       X   XX   X X   X X     XX      XX    X      XX X         X  X
MAO     X        X        X              X    X XXX X    X               X XX                XX
MAP  XX XXX XX XX XX X X     XXX XX XXXXXX XX                    X X    X   XXXX XXXXXXXXX XXXX
MAT  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX    XXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX  XX XXXXXXXXX XXXXXXXXXXX
MAW   X XX X  X  XX X XX  XXX X   X  XXX X X  X XXX X X XX    XX  X    XX X    XX X   XX    X XXX  X   X   XX    XXXXXXXX     XX
MBC  XXXXXXXXX XXXXXXXXX X XXXXXXXXX XXX XXXX XXXXXX XXXXXXXXXX XXXXXX XX XXXXXXXX XXXXXXXXXXXXXXXXX  XXXXX XXXX XXXXXXXX
MBH   X X  X          XX  X        X X   X       X    X  XX   X   X       XXX     X   X   X   XX XXX        XX  X  X X X
MBL                                                                                                      XX XX X   XXXXXXX  X  X X
MBO   X           X X     X          X            X X    X X            X             XX                      X
MBW            X  X       X   X       X               X            X X                X          X               X
MCK      XXXXX  X        X   XX    X     X  X X               X  X   X X XXX   XX X  XX     XX  X    XX   X             X  X
MCNL  XX   X     X X        X         X   X      X X X X   XX          X    XX X XX    XX  X           X    X      X      X
MCO                      X   X                            X      XX           X                      X   X          XX
MCP                        XX  XX     X        X    XX X
MCQ                                                  XX   X      XX    X           XX X  X X X X    X  XX   XX    XX
MCW           X X            X         X             X X XX           X           X       X X        X X             X
MDG  XX        XX X X X    XX   X    X X X XX X      X   X    XX              XX XXXXX  XX X  XXX XX     XXXX    X X        XX
MDI      XXXX    XXX XX    X  X X X X X   X X XX XX XX X
MDJ   XX XX X     XXXXXX   XXX     XX X XX  X    X  XXXX  XX                                  X                  X  X  X       X
MDM       XXXXX  X        X   XX    X     XX X X           XX   X  X   X X XXX   XX X  XX XX  XX   X   XX   X      X       XX X
MDW                       X X X    X            X     X XX X         X                    X          X              X
MDZ  XX  X XXX XX XX XXX X XX    XXXXXXX XXXXX X
MEM    XXXX X  XXXXX XXXXX X  X    XXXXXXXX XX   XX XX X  X  X X X XX  X  X XX   X X   X            X X  X  XXXXX  XX XXX   X  X
MEO  X XXXXXX X   XX XXX   XXX  X  XX X   X      XX XXXX  X X X X XXXXXX  XX X  XXX X  X    XXXXXX XX  XXX XX  XXXX XX XX  XX  XX
MEU     X       XXX            X               XX   X   X   X      XX    X XXXX     XXX XX      X  XXX X   X   X  X       XX XXX
MEW  XX       X                X            X          X  XXX          X            X       X       X       X      X       X
MFF  X XXXXXX XX  XXX XXX  XX X    XX X XXX  X      XX X XX    X  XXX XXX XXXXX XXXX X XXX   XXXXXX   XX    X XX X   X X XX    X
MGG     X    X            X  X    X  X         X              XX         X     X X     XX  X X XX   XX    X     X  X    X   XXXX
MGH     X                          X                X         X                      X    X  X         X X   X  X       X X
MGP   X   X   XX           XX  XX     X                  X          XXX        X                    X          X      X
MGR     XXX X X X XX XXX X XXXXXXXX XXX XXXXXX X XXX X X  XXX   XX X X  XXX XX XX  XXX XXX     XXXX    X  X   X  X  X X  XX X X X
MHC   X XX X XX   X  XXX  XXX     X  X   XX X  XXXX   X  X    XX  X  X      X      X   X    X XXXX    X      XX X   X     X
MID   X  XX X        X        X              X                X    X  X    X   XX     X             X                X  X
MIN  X   XX X X   XX XX    X X        X   X  X  XX X XXX  XXX  X      XX X        X X        X    XX   X      X  X   X   XX     X
MJ2                       X X X    X                X  X X          X   X                X          X                X
MJMA                                                                                          XXX    XX   X   X XX      X
MKS  X X X  X            XX                    X        XX  X              X       XX X          XXX         XX      XX
MKT    X                                                  X    X              X                     X         XX         X
MLR   XXXXXX XX XXXXXXXX  XX     X XXXXXXXXXXXX XXXXXXXXXX XXXXXX XXXX XXXXXXXXXXX XXXXXXXXXX XXXXXXXXX XXXX X XXX XXX XXXXX
MMB      XXX  X  X        X X X      X XXXXXX    XX   X  X  X X  X       X XXXX X   X     X  XX  X  XX   X    X       X X X  X
MME     XX X    XX  XXX   XX X   XXX X  XX  X XXXXXXX X  X    XX        XX XX  X XXX       XXXX  X   X       X  XX     X
MMK             X   XX   X    X   X X  XX      XX XX X  X    X   XX     XX X     X     X      X XXX   X               X     X
MML   X            XXX             X                                                X                X   X   X  X
MMN    XXX X   X XX       X  X     X X  XX  X   XX  X X  XXX      X X  XXX XX XX  X X X X     XX X       X   X  X    X  X     XX
MNG   X XX X  X  XXXX XXX XX             X X    XXX     XXX   XX   XXXXX X                X        X  X    X X  X    X     X
MNI  X XX      XXXXX X XXXXXX                        X XX    XX   XXX         XXX
MNO     X  X   XX         X X              X   X  XX   X  XX      XX XX X X XXX     XX         X  X       X   X          XX XXX X
MNS  X    X X X XXXXX XXXX XXX   X  X XX XXX XXX XXX   X  X     X    X    X XX  X  X   X    X XXXXX  XX XXXX                XX
MOF     XX X X   X   XXX  XX       X X  XX X    XXX X X  X  X XXX X  XXX X  X     X      X  XXX   X XXX              XX
MOL      X X         XX             X  X XX  X          X       X       X          X         XX            X X X    X  X   X   XX
MOMI                                 X                  X   X    X   X   X                          X X                X    X
MOR7                                          X X X    X X X    X X  X      XX       XX      XX   X  X               X   X X  X
MOX  X XXXX X XX  XX XXXX XX XX   X X X  XX XX   XXX X XXXXX X XX XX XXXXXXXXXX XXXXXX XXXXX XXXXXXX X X  X X XX XX X XXXX  XXXXX
MOZ                X                            XX       X    X          X                X   X X              XX    X      X
MRRJ     XX X     XX XXX  XX     X XX X XX       X   X XXX     X          X X     X  X XX     XXX X               X   XX  X     X
MRW   X XX X     X  X  X                        XXX      XX   XX   X    XX                X  X  X  X  X    X X XX    X      X
MRWA  X XX X     XX XXX  XX X X  X      XX XX   X XX XX  XX   X   X     XXX
MRX         X X X    X                X          X   XXX XXX   X  XXX X X X  XX  X X X      XX XX      X X     X X  X    X  X  X
MSL   XXXX X     XX XXX X X X X X XXXX   X XX   XXXXXXX  XX  XXXX X X X XXXXX     X    XXXX  XX XXXXXX    X  XXX X XX    X    XXX
MSU   X  X X X   XX          X     X  X            XXX    X           X    X         X       X   XXX    X      XX X   X     X
MSZ   X XX       X  X         X                  XXX      X           X                      XX  X              X
MTD     XX X X XXXXXXXX   XX              X  X XXXXXXXXX  X      XX   X  XXX                     XXXX X   X  X   X XXXX       X
MTHF          X    X        X        X                                  X X   X              X   X             X
MTMJ  X X XX       XX XXX   X       XX X XX  X   X    X X X X   X   X       XX  XX X   XXX      XXXX        X       X   XX  XX   XX
MTMW  XXX      X X  X       X X X    X  X  X      X   XXXXX X X   X   XXX         X      XX          X       X       X X
MTN  XXXXXXXX XXXXXXXXXXXXX X XXXXX XXXXXX XX   XXX XXXXXXXXXXXXXXX XXXXXXXXXXXXXXX XXX    XX XXXXXX  XX XXXXXXXXX XXX XXX XXX
MTU   XX  XXXXX XX X    X      XX     X X XX  X  X XXX X   XX   X                    XX  X           XX   X      X       X
MTUR                                   X   XXXX XX      X   X X    XXXXXX XXXX          XX      XX  X   XX        X
MTW                X  X  X                                    XX X                  X  X            X  X
MUN   X  XX X   XXXX X XX XX X X  X   XX XX XX X XXXXXXX  X    X      X  XXX     X     XXX    XXXX X   XXXXX X X  X       X   X
MVIF       X          X   X     X          XX        X    X X     X X     X   X        X              X  X   X        X
MVM   X  X X  XX           X   X     XX              X    X      X        X     X
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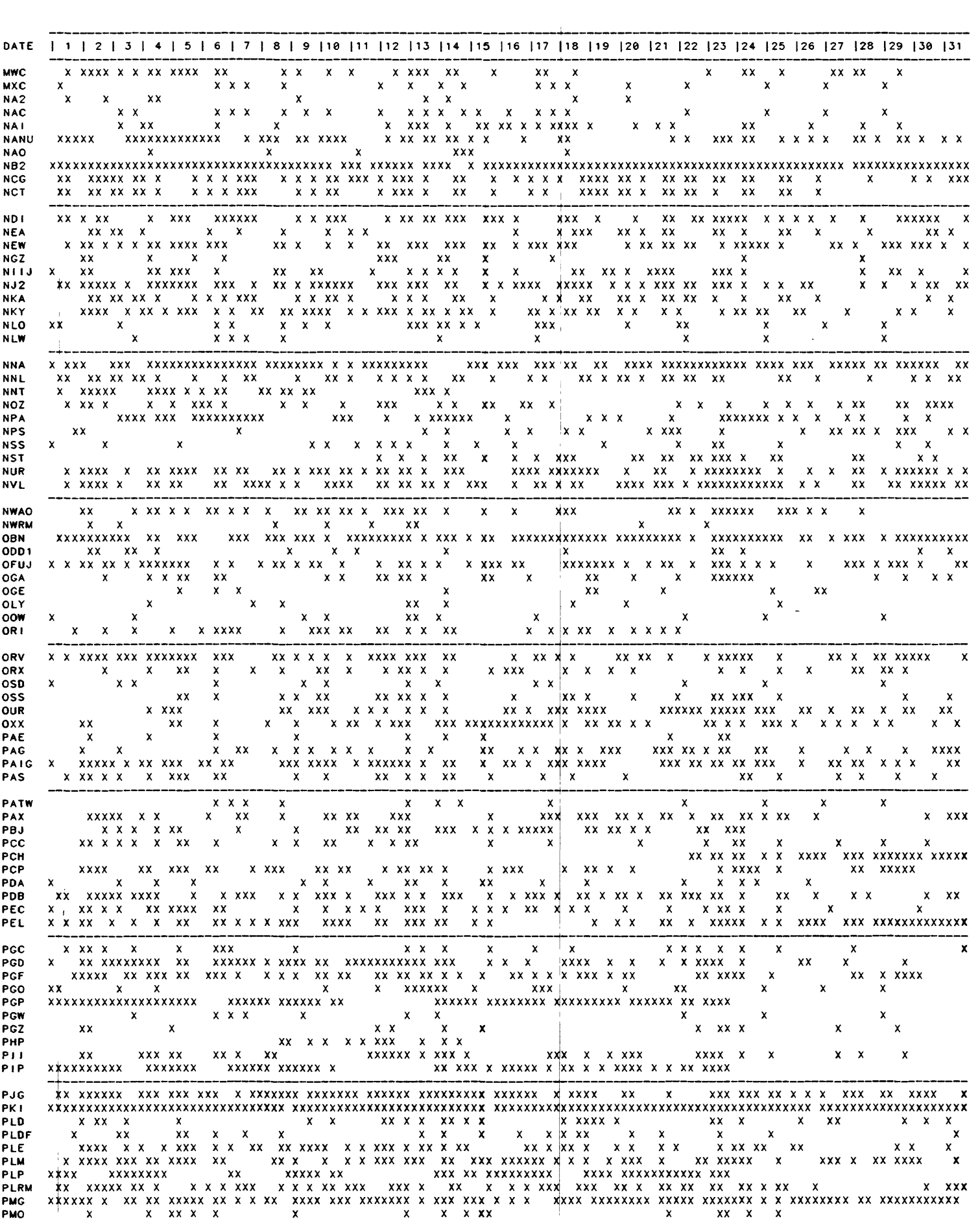
DATE
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31
MWC
MXC
NA2
NAC
NAI
NANU
NAO
NB2
NCG
NCT
NDI
NEA
NEW
NGZ
NIIJ
NJ2
NKA
NKY
NLO
NLW
NNA
NNL
NNT
NOZ
NPA
NPS
NSS
NST
NUR
NVL
NWAO
NWRM
OBN
ODD1
OFUJ
OGA
OGE
OLY
OOW
ORI
ORV
ORX
OSD
OSS
OUR
OXX
PAE
PAG
PAIG
PAS
PATW
PAX
PBJ
PCC
PCH
PCP
PDA
PDB
PEC
PEL
PGC
PGD
PGF
PGO
PGP
PGW
PGZ
PHP
PIJ
PIP
PJG
PKI
PLD
PLDF
PLE
PLM
PLP
PLRM
PMG
PMO

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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
PMR   XX XXXXXX   X  XXXX  X X X   X  X  X XXX X  XX XXX   X   XX  X XXXXX XXXX XXX X  XX XXX XXX XX   XX     XX X  XX   XXX XXX
PMS   X   XXXXX XX X    X X X XXX   X X X XX XXX X XXX X   XX   X  X X XXX  XXXX XX X  XX XX  XX  XX   XX   X      X       X  XXX
PNJ   XX X                X           X             XXX  X             X X                     X    X
PNL    X  XX     X                      X     X    X        XX   X    X  X   XX    X      XX X     X   X       X             XX X
PNT  X X XXXX XXX XX XXX   XXXX    XX X  XX  XXX XXX XXX  XXX XXX XX  XXX XX X  XXX X  XX X XXXXXXXX X X      XX X XXXXXX X  X  X
POO   XX XXXXX X  X  XX  X X          X   X          X X  X    X          XX           X     XX      X           X       X
POW      X        XX              X   X                    X                    X         X   X      X       X
PPCY    X             X                          X   XX  X              XX X            X     X XX           XX X   X   X
PPD                                              XXXXXXX  XXXXXX XX X XXX                          XX   XX XX XXXX   XX   X
PPE                       X        XX        XXX   X   XX                 XX X                       X
PPM    X XX X XXX  X XX    X  X       X    X XX  X XXXXX XXX XXXXXXXXXXX X  XX XX X X    X XXXXX    XXX X   X X X  X X  X  X  X
PPN       X       X  XX    X                          X    X  X X                 X      XX       X
PPR  XX  X  XX    XXX XX     X X X XX X  XX X            X     XXX            X   XX  XXX X    XX
PPT       X       X  XX    X             X              X    X  X X                 X      XX       X
PRI    X XX X X X XX XXXX  XX      XX X   XX X   XXX X    X    XX X   XXXX X X    X     X    X XXXXX   X      XX X        XX
PRK     XXX X                   X   X   XX       XX  X X  X             X X XX X X     X X     X  X   X   X  XX XXX   X X    X X
PRM    X          X          X              X                X   X   X      X                 X
PRNI    X         X   X    X                    X  X                 X              X   XX X      X       X          X
PRS  X X XX X XXX XX XXXX  XX      XX X X XX X  XXXX   X   X   XX  X   XXX   X    X X   X    X XXXX    X      XX X        XX
PRU   XXXXXXXXXX XXXXXXXX  X XXX  X XXX XXXXXX X XXX         XXXX  XXX XXXXXXXX XX XX  XX  X XXXXXXXX  X  XXXXXXXXX XX XXXXXXXX X
PRW                        X X X    X               XX  XX X X       X   X               X         X               X
PRY      XX       X X                          XX XX X X  X              X X               X X X  XX                X
PSI   X  X X      XX XXXX XX X  X  XX XX XX  X   X                                        XX    XXX XXX  X XX       XXXX
PSN      X X      X                      X       X    X  XX X            X  X              X
PSO  X X X         XXX     X          XX         XX   X    XX           X                 X    X  XX     X              X
PSZ      XX X     X  XXX              XX  XX      XXXXXXXX XX XXXX         X  XXX X XX  X X XX  X  X   X X X     X XX  X  XX   X
PT10   XXX XX XX   X XXXXX XXXX      XX        X X   X    X   XX XX   XXX  X   X    XX X   X    XXX   X    X  X XX     X  X    XX
PTJ      XXXX XX  XX XXXX  XX X   XXXXX XXXXX  X XXXXXXXX XX X XX  X X   XXXXXXX XXXXX X XXX  XX XXX   XX X   X      X  XXX XXXXX
PTT      XXXX X   X                         X    X    X  XX              X  XX  X             X  X   X   X                  X
PTZ      XX X    XXX XX           X X X X X    XX XXXXXXX X    X  X   XXXXXXXX   X    X X   X  XX XXXX     X XXXX X XXXX
PUZ    X                                  X    XXX X   XXX   XX   XXXXX X              X  X   X X  X  X  X   X XX    XX  XXXX
PV09     XX X XX  XX XXXX   X          X       X   X        XX    X X      X  X    XX          XXX   XX  X      XX XX XX   XX     X
PVC  X  X X      XX X    XXXXXX       XX  X XX  XXX X  X X   X XXXX X        XX X XXX    XX   XXX X   X  X  X X XX   XXXX  XX  X
PVL        XX  X  X   X                X   X       XXX  X   X X X            XXXXXX X            XX  X       X   XXX       XX X  X
PVY      XXXX  X  X X XXX  X X  XX  XX XXXX  X X XXX X XX X XX  X    XX X XX XX  X X   X X     X XX XX   XX     X      X X    X
PWA   X   XXXXX  X   X  X X   XXX   X X X XX X X    XX X   XX   X  X   X X XXXX  XX X  X  XX  XX  XX   XX   X X            X  XXX
PWLA                          X                  X  XXX  X        X   X   X              X          X
PYM    X     XX       XX   XX  X  X X                X  X    X   X  XX X XX     X   X       X                          X
PZI      XX        X         X        X                X  X                X        X         X         X
PZZ      XXXX    XX   XX  XX   XX XXXX   XX XX    X XX XX X   X X XXX     X  XX X  X  X        X XXX   X   XX   XXX XXXXXXXX X X
QCP  X       X X             X              X            X                X              X              X       X            X
QIS  XXXXXX XX XXXXXXXXXXXXXX XX XX XXX XX XX   XXX XXX XXX XXX X X    XXXXX XXXXXXX  XXX  X XXXXXX  XXXXXX X XXXXXXX XX X    XX
QIZ   XX X XXXX   X  XX    X X    X X X  XX XX           XX XX     XX   XXX    X XX   XX XX   XX X    X  X       X  X   X
QLP    X XX X   X XX XXX   XX     XX     XX XX    X    X XX    XX  X    XXX     XXX    X     XXX     X   X X   XX       X  X X
QUE   XXXXXXXX  XXXXXXXXX  X   X      X   X XX   XX X  XXXXXX      XX  XX          XX  XXX XX XXXXXXXX X  XX  X XXXX X XX XXX  XX
QUR     XX   X        X    X                    X        X      X                XX          XX   XX    X           X
QZH  X X XX       X  XX    X              XX XX   X     X  XX  XX  X X   X   X  X X     X    XXX         X          X
RAB   XXX  XX     XXXXX    XX X X   X  XX   XX X   XXXXXXXX XX  XX     X X X     X    X X XX  X XX X       XXX  X    XXXX     X
RAGM   X  X  X                 X              X    X X          X      XX    X                    X    XX                X
RAR    X  X                X                      X X             XX                          X             X             X
RDN   X   XX XX XX X    X X X XXX   X X X XX X   X XXX X   XX   X  X X X X  XXXX XX X  XX XX  XX  XX   XX   X      X     X X  XX
RDO     XXX X        X   X      X   XX  XX   X   XX  X X  X          X  X X XX X X X X X X    XX    XXX   X   XX XXX   X X    X X
RDP      XX       X   X    XX     X          XX XXX X                    X                                                X
RDS       X XXX           X   XX    X        X X                      XX
RDT    X  XXXXX XX X    X X X XXX   X X X XX X   X XXX X   XX   X    X X X  XXXX XX X  XX XX  XX  XX   XX   X      X     X X  XX
RDW   X   XXXXX XX X    X X X XXX     X X XX X   X XXX X   XX   X    X X    XXXX XX X  XX XX  X   X    XX   X      X     X X  XX
RED                                        X   X XXX X    X   X    X X    XXXX XX X  XX XX  XX  X    XX   X      X     X X  XX
REF  XX  XXXXX XX X    X X X XXX   X X X XX X   X XXX X   XX   X    X X X  XXXX XX     XX XX  X   XX   XX   X      X     X X  XXX
REMW XXX      X            X X            X          X  XX            XX                 XX          X       X       X
RFI      XX X     XX         X            X      XXX X X  X             X    X     X X X      XX          X
RGS          X   X  X  X                            X    X        X       X                  XX       XX                  X
RIY  X   X  X     XX  X X  X        XXX   XXX X  XXX X XX XX X     X X    X XX   X X   X      XX  X   X                  X X X
RJF    X XXXXXXX XXX  XXX  XX XX   XX X XXX  X   XX XXXXXXX    X XXXXXXXX XXXXX X XXXX X X X X X XXX XXX  X X X  XX XX X  X    X
RKG   X  XX       X  X     X X    X   X  XX X         X   X    X           X           X      XXX X    XX    X    XX
RLO                                                                        XXX   X X
RMN      X        X        X              X   X  X                        X            X      X  X       X        X
RMP    X  X    XX        X     XX X         X   XX X X  X   X            XX X  X      XX     XX  X  X   X            X    X
RMQ  XXXXX X  XX XXXXXXX XXX   XX X   XXXXX XX   XXXX  X XXX X XX  X   XXXX  X  XXXX    XX X  XXX XXX XXXX X   XXXX   X X X  XXXX
RMW  XX   X X X X  X       X X X    X  X  X          XXX XX   X   X  X X XX      X       X          X       X   X   X X
RND      XXXXX         X X   XX    X     XX X X    XX X        X  X   X X XXXX  XX X  XX XX  XX  XX   XX   X              X  XX
ROB      XXXX    XX  XXX  XX   XX XXX    XX XX    X XX XX X  XX X XXX     X  XX X  X           X XXXX  X X  X   XXX  XXXXXXX   X
ROCH                                                                                            XX XX    X  XXX     X XX  X       X
ROI    XXX X   X X  X     XXXX     X X   X  X   XX  X X  X X   X  X X  X X XX XX  X X X       XX        X   X         X
RPW  X         X  X       X X X    X  X            XXXXXX       X   X X          X        X          X          X
RRL      XXXX     X   XX   X    X  XX    XX XX    X XX X  X     X XXX     X  XX X  X          X XX    X   XX    XX XXX XX     X
RS2  XX  XX XX XX X    X X X XXX     X X
RSL  X   X        X                X X  X          XX X  X    X          X XX     X           X                  X
RSM  X   XX X   X XX XX     XX      X XXX   XX  XX XXX X X XXX    X     X   X  XXX   X         X XXX X       X     X X     X
RSO  XX  XXXXX XXXX XXXX XXXXXXX   X X XX                                  XX X  XX XX  X   XX   XX   X      X     X X  XX
RSP      XXXX    XX   XX   X    X  XX    XX XX    X XX XX X     X XXX     X  XX X  X           X XXX   X   X     XX XXX XX     X
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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
--------------------------------------------------------------------------------------------------------------------------------
RSSD  X X XX X XX  XXXXXXX  XX   X  X  X   X  X   XX  XXX  XX  XXX  X   X X XX   XX  X XXX X XXXXXXX   X    XX XX XXXX XXX   X
RSW               X      X X X    X              X   X XXXX X X   X    XXX X       X         X      X
RTBS  X XXX     X    X X X XX  XX   X  X    X  X XX  XXXX X  XX X  XXX       X X XXX  XXXXXX  X X    XXX  X  X
RTLL  XXXXXXXXX  X    X X X XXXXXXXX XX X X  X  X XX  XXXX X  XX XXXXXXX   X XX  X XX  XXXX X X XXX  XXXXXX XX XXX XX XXX  X XX
RUP                                                                      X     X     X           X    XX              X   X X
RUV       X      X    X X  X          X              X     X  X XX              X      XX   X   X
RVC   XXX      X X  X                                                                        X     X    X   X X
RVR     X XXXX X   XX XXXX  XX         X   X  X   XXX XXX  X    XX    XX   X     X   X  XX  XXXX  X   XXX XX X  X  X X
RVW   XX       X    X       X          X  X      X  XXXXXX X X   X   XXX       X      XX       X     X       X
RYD       X        X  XXX  XX  X    XX    X      XX  X X  X           XXX       X  X  X XXXX   X    X              X
--------------------------------------------------------------------------------------------------------------------------------
RZN       X XX  X  X   X    X X X     X XXXXXX   XXXX X  XX X X   X    X X         X  XX  X   X   X   XXX      XXX X  X
SAL       XX        X XX    X  X            X   XX XX   X     X       XXXX   X X      X XX                       X    X
SALF        X  X            X         X XX                              X                    X  XX
SALJ       X          X               X           X        X             X            X   X       X  XX        X
SAN                                                                                 XX X     X  X X   XX  XXX XX  X  X
SAO        X X X X    XXX  XXX     X  X   XX X  XX X X X    X  XX     X XX X    X       X   X     X     X X   X    X
SAOF       X X        X    X      X         XX         X      X      X    X  X        X         X  X   X        X
SBA     X XXXX XX  X  X XX  XX         X       X   XXX X    X  XXX   X   X X X    X  X    X     XXXX X          XX     X  X   X
SBB   X X XXXX X X XX XXXX  XX        X X   XX  X  XXXX XXX  XX   XXX XXXXXX XXXX   XX X  XX   XX XXXXX   X    XXX XX X  X  XXX  X
SBF     XXXXXX   X XX  XX   XXX XXX XXX X  XXXXX   X XXX XXXX X  X    XX X X XXXX  X  XX   X   XX XXXX   X  X   XX XXXX XX XXXXX  X
--------------------------------------------------------------------------------------------------------------------------------
SCH     X X XX X   X XXXX   XX X     X X  XX  X      XX X  X    X          X  X          XXX XX X  X     XX XX     X      X
SCM    XX  XXXXX         X       X                   X         X       X                            X                     X X
SCX       XX   X    X X     X      X   X     XX  X XXX   X    X X X   XXX    X  XX          X  XX X  XXX    X   X  X X     X
SDA                                   X  XXX  X X XXX    X
SDG     X  XXXXX        X    XX    X     XX XX      XX       X      X XXX  XXX  XX X  X  XX  XX  XX X XX                X  XXX
SDI      X X X X XXX XXXXXX X XX  XX XXX XXX  XXX XXXXX X  XXXX  XXX XX X XXXX  XX X X XXX    XXX X  X  XXX   X  X    XXX   XXX
SDN    X   X     X  XX    X      X  X              X               X    X     X    XX     XX      X        X  X
SEG       X                X       X    X    X       X       XX       XX    X       XX  X X XX       X     X  X      XXX
SEK                X XXXXX          XX XXX X    XX XX XXX  X          XXXX    X XX   XX  X X X  XX X    X          XX
SES          X X   XX XXXX  XX X    XX X  XX  X   XXX XXX    X XXX XX XXXX XXX   XXX    XX  X   XXXXX  XX  X   XX X    X  XX   X
--------------------------------------------------------------------------------------------------------------------------------
SEW    XX  XX XX XX X    X X X XXX    X X X XX XX  X XXX X   XX    X     X X X  XX X XX X  XX XX  XX  XX   XX       X     X  XXX
SFG       X                X    X  X     X    X      X               XX     X        X   X X XX     X    X   X      X X
SFI   X   XX XXXXXXXXXXXX   XXXXXX XXXXXXXXXX XXXXXXXXXXX XXX XXXX X  XXXXXXXXXXXXXXXXXX XX X X XXX XX   XXX X XX  X   X X XX
SGAM    X  X  X                X            X    X X        X      XX   X           X     XX         X
SGE       XX       X                                                            X      XX    X        X       X     X
SGO      XXX X X XXXX XX  X XXXX XX  XXX XXXXXX XXXXXXX X  XXX    X    X  XXX XX  X  XXX X X  X XXXXX    X   X  XX  X   X  XX X X X
SHK     X X      X  XXX   X          X            X X  XX                  X       X      X X
SHL   XXXXXXXX    XXXXXXX      XXX    XX XX XXXX  X XXXXX XXXXXX    XXX   XXXX      XXX  XX      XX XX    XX      XXXX XXXX
SHNJ      XX              X           XX          X X      X              X       X      X        X                    XX
SHW   XX   X   X X  X        X       X       X   XXXXXX X     X   XXX  X            XX          X         X         X
--------------------------------------------------------------------------------------------------------------------------------
SIT        X          X    X            X X      X  X X      X    XX        X     X          X                           XX XX
SIV   XXXXX XXXX XXXXXXXXXX XXXXXXX  XXXXXXXXXX XXXXXX   XXXXXXXXXXXX XXXXX  X   X XXXXXXXXXXXXXXXXXXXXXXXXXXX XX
SJG    X   X   XX         X   XX     X            XX X  X     X        XXX        X                                     X
SKO     XXXXXXXXX XXXXXXXXXXXXXXX X XXXX XXXXXXXXXXXXXXXXX XXXX XXXXX  XXXXXXXXXX XXXXX XXX   XXXXXXXXXXX XXX XX XX XX XXXXXXXXXX
SKT    X    XXXXX XX X    X X X XXX   X X X XX XXX   XXX X   XX   X   X   X X XXXXX XX X  XX XX  XX  XX    XX   X       X      XX XXX
SLA   X   X   X    X  X     XX          X          XX    X  XX XX X   X                X     X      X     X
SLE                X    X   X    X   X X         XX  X X  X    X    XX    XX X    X     X    X  XX   X                   X     X
SLKM   XX XXXXXX XXXX XXXX XXXXXXX   X X XXXX XXX XXXXX X  XXX  XX      X XXX  XXXXXXX X  XX XX  XXX XX   XX   X      X  XX X X  XXX
SLR   X X XX  X    X XXXX   X    X    XXXX X  X XX XX XXX  X     XX      XX  XXXX   XX X XXX  XXX X  XX X     X  X X X        XXX
SLY       XX X     X XXXXX  X   X    XX   XX                                X             X   X    XXXXX       X   X X
--------------------------------------------------------------------------------------------------------------------------------
SMF   X XXXXXX  X XXXXXXXX  XXX XX  XXXX XXX  X   X  XX XXXX X  X X XXXXXX XXXXX X XXXX XXX XXXXX XXXXX X X   XX XX  XXXXX  X  XX
SML    XX                   X X X    X                 X                 X X          X          X
SMW   X         X           X X X    X  X  X         X   X                X            X          X       X         X
SMY        X        X   X            X     X    X      X X        X   X        X X    X       X          X       X          X
SNA    X   X X X      X     XX                                 X X              X     X X    X X      XX X             X    XX
SNF     X XX       XX                                                X X XX  X  X XX     X    X             X X     X  XX  X XX   X
SNG    XX X X X  X XX XXX X        XX                   XX         XX  XXX       XX      XXXX  XX       X XX     XX  X XXXX X
SNY    XX XXXXX XX XX XXXX  X X    XX   XXX XXX   X XX X  XX XXX   X XXXXXXX  X   X X X X X  XXXXX        X  X   X   XX XX    X
SOB1    X XXXXXXX XXXXXX X  XXX     XX X XXXX XXXXXXXXX XX   XXXX XX  X XXXX   X   X  XX X XXXXXXX    X      XX XX   XX X XX  X
SOD     X XXXX     X  X          XXXX   X     XX XX X  XX    XX   X XX  XXXXXX   X   XXX  X  XX XXX   X  X   X  XX   X   XX    X
--------------------------------------------------------------------------------------------------------------------------------
SOH   XX  XX    X XX XXX  X XX X    XXX XXXX  XXXXXXXX XXXXX X X  X  X XXXX XXXX      XXXX    XXXXX XXX   XX   X XX  X XXX   XXX
SOI       XXX XX  XXX  XX  X XXXXX X  XXX XXXX X  XXX XX X  XXX X XXXX XX XXXXXX  X   X XXX X   XX X   X   X   X  X  X  XXXX XX  X
SOSW  XXX       X    X      X X       X  X     X   XXXXXX   X   X   XXX       X        X          X        X       X X
SPA     XXXXXX  XX XXX      XX    XX X XX    XX   XXXXX XXXXX X XX   X    XX      X X    X X X  XXXXX  XX    X   X   XX   XXXX  X X XX
SPC     X XX X  X X X XXXX  XXXXX    X X  XXXXX X XXXXX XX XX X XX    X    XX    X    XX   XXX X  XXXXXX XXX XXX X        XXXXXX X X
SPU    XX  XXXXX XX X     X X X XXX   X X X XX XXX X XXX X   XX    X   X X X X  XXXX XX X  XX XX  XX  XX   XX   X      X     X X  XXX
SPW             X           X X                  XX  X                               X          X         X         X
SRO    X  XX X XX XXXXXXXX  XX  X   XXX  XXXX      X    XX X    XX  X    XX XXXXXX X XX  XXX X XXXXXXX   XX X  X       XXXXX  XX X
SRS   XX  XXXXX X XX XXX  X XXXX    XX XXXX  XXXXXXXX XX XX X X  XX X XXXX XXXX       XXXX X XXXXX XXX   XX   XX XX   X XXXX    XX
SSB   X                  X     X     X    X            X XX X X  X     X  X    X   X                          XX
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SSE   XXXXXXXXX XX XXXXXXXXXXXXXX XXXX XXXXX XXXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXX XXXXXXXXXXXXXXXXXX XXX  X XXX XXXXXXX XXX XXXXXXXX
SSF   XXXXXXXX  XXXXXXXXXX  XXXXXX  XXXX XXX XX   XX XX XXXX X  X X XXXXXX XXXXX X XXXX XXX XXX XXXXX X X X  X XX XX  X XXXX XX XX
SSR                                                XXXX X  XXX           XX XXXX    XX XX    XXXXX    XXX  X     XXXX    X
STD   XXX      X    X      X X X      X  X    X   XXXXXX      X    X X       X       X          X       X        X X
STK   XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXX XXXXXXXXXXXXX XXXXXXXXXXXXXXXXXX  XXXXXXXXXXXXXXXXXXX  XX XXXXXX XXXXXXXXXXXXXXXXXXXX
STS                 X      X  X     X            X     X                 X X                                        X      X
STV       XXXX    XX    XX   XX   XX XXXX   XX XX    X XX XX X  XX X XXX    X  XX X  X  X     X  X XXXX  X X  X   XXX   XXXXXX X X
SUA        XXXXX XX X    X X X XXX   X X X XX X X  XXX X   XX   X     X X X  XXXX XX X  XX XX  XX  XX   XX   X      X      X  XXX
SUE        X    XX X   XX            X X X  XX  X            XX       X     X        XX        X  XX         X X X   X        X
SVW    XX XXXXXX X XX XXXX XX X X   XX X  XXXXX    X  XXX  XX    XX   X X XX XXXXXXXXX X  XX XXX XXXXX   XXX   X        XXX  XXX XX
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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

SYI    XX  X   XX X       X         X   X   X  X X X X   XX   X    X X    XX   XX    XX  X  X          X     X              X  X
SYP     X XX X X   X                                                            X          X          X       X              XX
SZP   X X    XXX XXXXXXXX    X XXXX XXXXXX X             XX XX  XXXXX      X   X X  X     XX  X
TAB     XXXX XX X  XX XXX    X X X   X      X  XX  X XX X X  XX    X       XXXXX X        XX XX XXXXXXXXXX    X  X     X          X
TAC               X        X X                          X    X   XX       X X   X      X            X          X        X X  X         X
TACH                                                                                               XX XX XX  X X  XXXX  XXX XXXX XX XXXXX
TAU     X XXX    X XX X XX  X   X  X  XX     XX   XX     X  X    X   X     X                        XXX          X      X    X  X    X
TBH        X      X         X           X  X             X     X         XX           X X        X         X    X X
TBM            X    X       X X X    X  X                XX  X  X X   X   X X X              X          X       X         X
TBR     X X  X     XX X     X           X                XXX  X     X          X          X          X   X    X       X        X

TCE    X   X      X         X           X  X             X     X         XX           X X        X         X    X X
TCF   XXXXXXXXXXXXXXXXXXXX  XX XXX  XXXX XXX  X   XX XXXXXXX X  X XX XXXX  XXXXX X  XXX XXX XXXXXXXXXX X X X  X X  XX XX XXX     XX
TCO                                                      XXX X    X          X               X                   X          X
TCW       XX X      X  X  X                         XXX      XX   XX   X   X X              X  XX X  X          X XX    X
TDH                                           X      X   XXXXXX X X      XXX X         X         X          X       X       X
TDL   XXX       X X  X      X X X    X  X  X         X   XXXXXX X X   X   X X          X         X          X       X       X X
TDS      XXX XXX X XX XX  X XXXX     XXX XXX  X  XXX XX X  XXX    X  X X  X X XX  X  X X XXX   X
TEH                 X     X X      X                XX  X     X X  X        X  X         X X  X  X X     X X  X    X                X
TGL     X  XX X   X         X          X  X  X     XXX         X     X XXX  XX    XX     XX  X     XXX X XX   X                 XX XXXX
THE   X   XX XX X XX  XX  X X          X  XXXX    XXXXX  X  X X     X   X XX X XX    -     XXXX X XX  X XXX   X   XX XX  X   X      X

THZ        XX X     X  X XXX X  X               XX    XXX      XX    XX        X                 X XXX X    X      X   XX             XX
TIA   XXX XXXXX  X XX XXXX  X X      XX X XXXXXX    XX XX X  XX  XX    XXX  XXXXX    X X XXXXX  X   XXXXXXX      XX  X           XXX XX XXX
TIC     X  XXX      XX XX  XXXX      X XX X   X     XXX  XX XX   X     XX  XXX XXX    X X X  XX X  XXXXXXX XX          XX   XX XXX   X
TIM       X  X     X  XX    X                        XXXX XX XXXX                         XX       XX  X                              XX
TIO    XXXXXXXXX XX XXX X   X XX XXX X X X X    XX XXXXX   XX XXXXXXXXX XX XXXXXXX XXX  XXX  X XXX  XXXX X X X XXXX XXX XXXXXX  XX
TIR                                  XX  XXX  X X XXX   X  X X
TIY   XXX XXXXXX X XXXXXXX  XXX X    XX X XXXXXXXX XXXXX X  XX XXX    XXXXXXXXXX X X X XXXXX XXX  X XXX X X  XX  X   X XXXXXXXXX XXX
TKSJ       XX       X  XX   X        X    X                X                X         X      X            X                     XX
TLB                    X   X  X                       X    X  XX      XX      XX X X X            XXXXX    X   XX X                   X
TLC     X  X        X           X             X      X X      X   X                                                     X

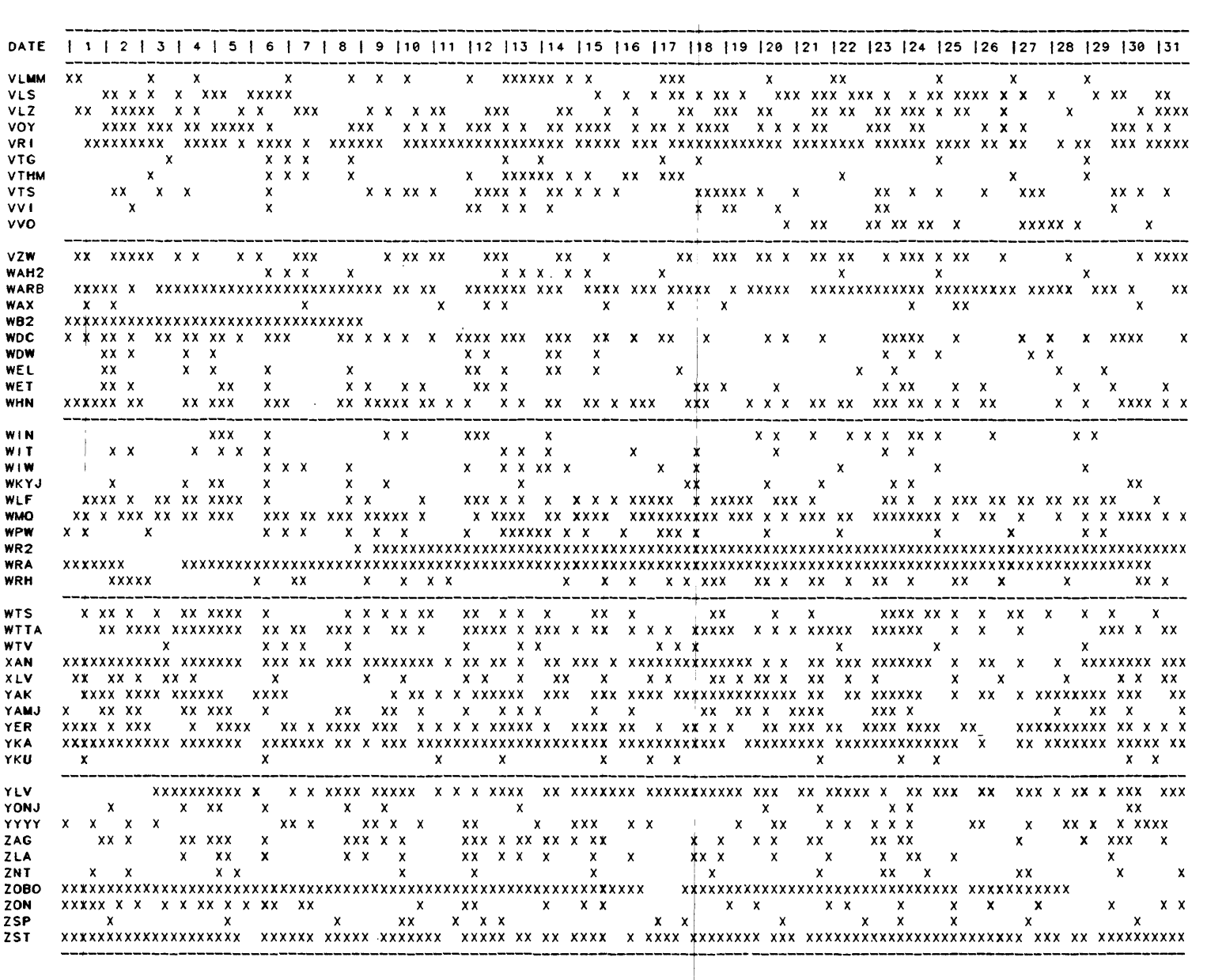
TMA                    XX   X    X   X X  XX       XX    X  X    X   XX      XX X      X     X     XX X     X                  X     X
TNP   X X XXXX XX  XXXXXXX XXX       XX X    X  X XXXXXXXXXXXXXXXXXX XXXXXXXXXX XX  XXXXX X  X XX XXXX    X       XX XX XX XXXX      X
TNR        XXXX     X   X          X X          XX    XXXXX
TNS        XX X     XX  X    X      X    X   X X     X  X X  X        X       XXXX     X           XX X  X X       X  X
TOA    XX    XXX    XX XX X XX XXXX    X X   XXXXXXX  XXXX             X  X    XXX XXXX   XX X  XX XX  XX XXX X XX   X     X      X   X XXXX
TOO   XXX XXX    XX XX XXXX XXXX X         XX XXX  X     XX  X     XXX X X    XXX              X     XXXX X          X       X  XX    X XXXX
TOUF          X       X  X   X     X            XX          X  X X X      X X     X   X             X                X   X    X        X
TPC     X XXXX X X XX XXXX  XX         X X    X  X    XXX XXX  XX    XX  X  XX    X X    X      X     XX XXXXX   X    XXX X      X
TPP    X   X                X           X  X             X                  X           X X          X        X    X̄            X
TPT        X        X   X X X           X                X     X  X XX                          X      XX  X    X

TPX        X  X X       X      X        X               XXXXX   X       X    XXX    X  XX          X   XXX    XX      X   X  X       X
TRF         XXXXX  X       X X   XXX    X X X XX X X     XX X    XX    X  X   X X XXXX  XX X  XX XX  XX  XX    XX     X     X        XX XXX
TRI   X    XX X X    XX XX    X  X X X XXX X XXX XX XXXXX XX XX XXXX XX XXX  XXXXX  X X X X       XX   XX    X  X X X        XX XXXX XX
TRN    XX XX X X  X XX        X          X  X            X    XX          XX         X X          X    X    X    X X             X
TRO   X   X  X               X           X   X X     XX  X    X X               X  X X XX X    X       XX X X  X                X    X
TRT    XX X X XXX XXXXXXXXXXX X X   X XXX  X        XX    XX XXX    X         X  X    XXXX  XX X  XXXX     XXXXXX   X   X X  X        XX
TSM    X  X  X   XXXX X X  XX XX    X      XX  X  X      X  X    X        XXX  X XXXXX  XXXX   XXX  X      XX                XXX
TSRJ  X X XX           XXX   X        XX   XX  XX        X       X          X   XX X   XXX    XXX X    X  X        X          XX    XX
TTA    X   XXXXX    X    X    X  XX    X X  XX XXXX  X  X X       XX   X  XX XXXXX  XXX X  X  X X XXXXXX   XX    X XX X          XXX X
TTG        XXXX  X XX X XXX  X X  XX  XX XXXX  X X XXX X XX X XX  X     XX X XX XX   X X    X X    X XX XX   XX     X         X X    X

TUL      XXXX XXX       XXXXX XXXX XX XX XX XXXXX  XXXXXXXXXXXXXXXXXXX XXXXXXX X X XXXXX XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX XXXXXXXX
TVO         X       X  XX      X                         X    X  X XX                            X      XX     X
TWC                X X     XX  X   X  X        XX          X  X          X X      X  X  X                                X     XX
TWD                  X     X   X      X        X          XX             X           X  X                                X     XX
TWF1               X X         X      X        XX                        X   X       X  X                                X     XX
TWG                XX          X               X                         X   X          X                                      XX
TWK                        X   X      X        XX          XX  X                 X  X  X                                 X     X
TWQ                            X      X        X            X  X                     X  X                                X
TZL         XX X                  XX          X XX      XX          X       X X  XXX  XX     X  XX  XX  XX     X                    X   XXX
UCC      X XX X     X    X    X          X X    X        X  X X  X     X          X            X                 X          X         X

ULC         XXXX  X XX X XXX  X X       XX XXXX  X X XX  X XX X XX  X     XX X XX XX  X X   X X    X XX XX   XX     X       X X    X
UNM                           X                         X X       X       X X                X X       X             X       X X  X
UPA   XXXXXXXXXXXXXXXXXX X  XXX XXXXX XX X X XX  XXXXXXXXX XX XXXX X X XXXXXXXXX XX X   XXXXX XXXXXXXX     XX XXXXX XXX XXXX  X   XX
UPP      X XXXX  X  X  XXX X X XXX  XXX X  XX      XX XX X  XX    X    X X X XXXXXX  XX X XXX      XXX XXX  X  X    X  XX  XXX XXXX   X
USI         X        X        X X                X   X X X  XX       X     X              XX          X
UZD        XX X      XX   X                         XXX X XX X  X X        X XX    X        X X  XX  X     X      X X         XX     X
VAH         X        X   X X  X            X             X    X  X X                       X      XX  X   X
VAL        XX X      X   X    XX           X   X   X     X X  X                X        X   X                                       X
VAO   X X X XXXXXXXXXXX XX  XX  X    XXXX XX XXX XXXX X XX  X X X  X XX    X  XXX  X     XXX  X X XX XX  XX XX  XXXX      X   XX   XX
VAY   XX  XXXXXXX XX XXXXXXXXXXXX    XXXXXXXXXXX XXXXXXXXXX XXXX XXXXX   XXXXXXXXX X XXX XXX    XXXXXXXXXXX XXX XX XX     XXXXX XXXX

VBEM  XXX      X              X X X    X  X        X    XXXX   X X         XXX            X        X           X         X         X
VBY    X  XXXXXX X X  XXXXX X X  X X XXXXX X X X  XXX X XX XX X XX   X XXXX XXXXX  X X X XX  X XXX XXX        X   X           XXX   XXX
VDL                   X                  X    XX     XX XX X  X    X    XX     XX X      X     X   XX X                              X       X
VFP   XX       X     X        X X          X  X          XXX X  X X          X X             X          X             X         X        X
VGB   X    X   X              X X X    X                 X    XXX XX X X   X   XXX X                    X             X         X        X X
VIPM   XX      X     X        X X X    X  X  X           X    XXXXXX X X       XXX X         X          X             X         X        X
VITF      XX X X   X   XXX    XX       X X  XX X      X X X X  X  X XXX    XXX X X  X   X      X  XXX  X XXX                         XX
VKA       XX X     X  XX X  X           X    X X      XX X XX XX X XX  X       XX XX   X X  X X              XX XX   X  X  X                    X
VLI      XXX   X  X  XXX  X XXXX X   XX  XX  XXX XXX XX X  X    X  X  X XX X XX X   XXX XXX XXX X  X XX XXXX X XX XX X XXXX   XX X
VLL   XX       X              X X X    X  X              XXX X  X X          XXX             X          X             X         X        X
```



The following stations each reported less than 10 readings:

AAHD	ACI	ACTN	ACU	AGAL	AGMR	AGRW	AKSR	ALB	ALJ	ALM	AMAN	ANGL	APA	APR	ARO	ASW	ATX
AYN	BBB	BBU	BCPM	BDBC	BDH	BGG	BGM	BGMT	BIB	BISH	BKB2	BKR	BLF	BLP	BLW	BNAB	BNB
BOH	BOM	BOT	BPIL	BQB	BTB	BURJ	BUT	BVA	CAYA	CBB	CBD	CBM	CBSW	CCM	CCW	CEH	CFTV
CGL	CIR	CIS	CIW	CKO	CLI	CLK	CMW	COL	COR	COTA	CPB	CPE	CPI	CRU	CRX	CRZF	CSB
CSIL	CSTJ	CTFE	CVD	CVL	CVO	CVT	CWB	DAQ	DHLJ	DIW	DLA	DLB	DOMF	DON	DPQ	DRV	DRZ
DSH	DWY	EAB	EALH	EAU	EBH	EBL	ECD	ECO	EDB	EDI	EDR	EDU	EEO	EGRA	ELF	ELO	ELYF
EMEL	EMM	EMN	EMON	EMS	ENSF	EPH	ESK	ESY	ET3	ETB	EZAM	FAM	FCV	FG3	FG4	FKBC	FMA
FRU	FSB	FUQ	FYU	GBTN	GCG	GDR	GGC	GGP	GHZJ	GIBL	GIO	GLH	GMB	GMO	GMOM	GOIL	GRB1
GRFO	GRQ	GRT	GSH	GSMM	GUM2	HATI	HBF	HBMT	HIA	HITJ	HNB	HOJ	HON	HQN	HRV	HRY	HSHJ
HUA	HYF	HYT	IIA	IIS	IKP	IKZ	ILT	IXG	JAT	JHP	JMB	JRDJ	KBB	KBR	KIP	KLL	KLM
KOT	KRO	LDMO	LDN	LFU	LIB	LIJA	LISJ	LMN	LPA	LRS	LSK	LST	LTCM	LTMT	LTX	LVI	MAJO
MASJ	MBU	MCMT	MDSJ	MEMT	MENF	MFT	MFTN	MGB	MHZ	MIM	MKRJ	MLS	MMCZ	MNDI	MNQ	MNT	MOH
MOW	MPOR	MSTB	MUB	NAB	NAQJ	NAV	NDB	NDE	NDF	NEV	NKM	NMMO	NRMS	OBC	OBH	OD2	OFK
OHR	OHTN	OHW	OJEN	OKG	ONR	OPA	ORO	OSG	OT2	OTR	OTT	OVA	OZB	PAF	PCB	PCF	PCJ
PCT	PEM	PERF	PET	PFB	PGA	PGB	PHAM	PHC	PIG	PKEM	PLAT	PLBC	PLH	POF	PORP	PT08	PT09
PTI	PTO	PTS	PUL	PVPS	QTO	QTRJ	QUIL	QZA	RAC	RBA	RC1	RDJ	REMR	REVF	REY	RIV	RKT
RVCM	SAP	SAW	SBC	SCE	SCI	SCP	SCY	SEA	SFS	SFTX	SGS	SHB	SHBJ	SHMJ	SHWJ	SIM	SIO
SJAS	SJB	SLB	SLM	SLP	SLW	SNB	SOA	SONG	SPJ	SOTA	SRN	SSK	SSS	STB	STH	STR	STU
STW	SVA	SVB	SVV	SXM	TAF	TAZ	TBI	TBT	TCBC	TER	THI	THY	TID	TIK	TKL	TLG	TME
TMW	TNN	TOD	TPE	TPR	TPZ	TRGS	TRQ	TSI	TTH	TUH	TUNG	TVI	TWM1	TWW	TWZ	TXNY	UDU
UTU	UZH	VC1	VDB	VDCF	VGZ	VHO	VIB	VIE	VIR	VLO	VNM	VPD	VSG	VSM	VSS	VUN	WATA
WBO	WG3	WGAR	WHB	WHC	WHH	WLS	WLZ	WPB	WPI	WRD	WVLY	YAKW	YANA	YHJ	YPE	YSS	YUP

STATIONS ADDED SINCE STATION BOOK (OF 85-714) WAS PRINTED

Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
A11	R	St. Roch-des-Aulnoies	47 14 33.0 N	70 11 52.0 W	61.0	CLTN
		Quebec, Canada	(47.2425)	(70.1978)		
		opened 19770830.				
A16	R	Riviere Ouelle	47 28 14.0 N	70 00 23.0 W	15 0	CLTN
		Quebec, Canada	(47.4706)	(70.0064)		
		opened 19770830.				
A21	R	St. Andre	47 42 13.0 N	69 41 23.0 W	46.0	CLTN
		Quebec, Canada	(47.7036)	(69.6897)		
		opened 19770830.				
A54	R	Misere	47 27 24.0 N	70 24 45.0 W	381.0	CLTN
		Quebec, Canada	(47.4567)	(70.4125)		
		opened 19770830.				
A61	R	Sainte Mathilde	47 41 35.0 N	70 05 24.0 W	358.0	CLTN
		Quebec, Canada	(47.6931)	(70.0900)		
		opened 19810605.				
A64	R	Saint Simeon	47 49 35.0 N	69 53 32.0 W	137.0	CLTN
		Quebec, Canada	(47.8264)	(69.8922)		
		opened 19770830.				
AAHD		Abu Hadid	23 44 46.8 N	32 45 10.2 E	...	HLW
		Egypt	(23.7463)	(32.7528)		
		opened 1982? HLW code AHD.				
AAPN		Arroyo Pinares	37 18 27.6 N	4 07 15.6 W	1160.0	CRT
		Spain	(37.3077)	(4.1210)		
AAT	R	Almo-Ata	...	...	...	
		Kozakhstan				
ABH		Alteburg	49 52 54.0 N	7 32 51.0 E	620.0	KRW
		Rheinland-Pfalz, Germany	(49.8817)	(7.5475)		
ABHA		Abha	18 15 .. N	42 45 .. E	2200.0	RYD
		Saudi Arabia	(18.2500)	(42.7500)		
		opened 198811.				
ABR	R	El Abra	19 48 25.2 N	96 32 02.4 W	520.0	IIM
		Veracruz, Mexico	(19.8070)	(96.5340)		
ABVM	R	Arroyo Blanco	...	...	...	UNM
		Veracruz, Mexico				
ACHM		Chimeneas	37 06 18.0 N	3 49 46.8 W	862.0	CRT
		Spain	(37.1050)	(3.8297)		
ACP	R	Acatlan	18 12 28.2 N	98 03 34.8 W	1250.0	UNM
		Puebla, Mexico	(18.2078)	(98.0597)		
ACTN		Antioch Church	36 20 49.2 N	89 18 36.0 W	143.0	SLM
		Tennessee, U.S.A.	(36.3470)	(89.3100)		
AEA	R	East Anglia University	52 37 14.9 N	1 14 25.1 E	45.0	BGS
		England, United Kingdom	(52.6208)	(1.2403)		
		opened 1984.				
AECU	C	Ecuador Network	0 16 13.8 S	78 24 25.2 W	3000.0	QDI
		Ecuador	(0.2705)	(78.4070)		
AEI	F	(magnitude source code for AEIC)				
AEIC	F	Alaska Earthquake Information Center, Fairbanks				
AEKI		Aeknobara	2 06 06.0 N	98 27 13.0 E	840.0	DJA
		Sumatera, Indonesia	(2.1017)	(98.4536)		
		opened 1991.				
AFAR		Ash Flat	36 08 00.0 N	91 31 52.2 W	239.0	TEIC
		Arkansas, U.S.A.	(36.1333)	(91.5312)		
AFH	RD	Ashford Hill	51 20 38.0 N	1 13 11.0 W	91.0	BKN
		England, United Kingdom	(51.3439)	(1.2197)		
AFIF		Afif	24 06 03.6 N	43 10 48.0 E	950.0	RYD
		Saudi Arabia	(24.1010)	(43.1800)		
		opened 199003.				
AFL	R	Alpe Faloria	...	...	...	TRI
		Veneto, Italy				
AGAL		Gebel Alisa	23 25 42.6 N	32 49 31.8 E	...	HLW
		Egypt	(23.4285)	(32.8255)		
		opened 1982? HLW code GAL.				
AGD	D	Arta Grotte	11 31 48.0 N	42 49 12.0 E	450.0	ARO GEOS
		Djibouti	(11.5300)	(42.8200)		
		opened 19850509.				
AGG		Agios Georgios	39 01 20.0 N	22 19 49.0 E	540.0	THE
		Greece	(39.0222)	(22.3303)		
AGMR		Gebel Marawa	23 32 15.6 N	32 32 25.8 E	...	HLW
		Egypt	(23.5377)	(32.5405)		
		opened 1982? HLW code GMR.				
AGO		Saint Agoulin	46 03 08.6 N	3 07 51.8 E	523.0	CFF
		Auvergne, France	(46.0524)	(3.1311)		
		opened 1984?				
AGRW		Gebel Rewrow	23 38 42.0 N	32 48 34.8 E	...	HLW
		Egypt	(23.6450)	(32.8097)		
		opened 1982? HLW code GRW.				
AGU		Augustine-Summit	59 21 36.0 N	153 25 50.4 W	1226.0	GIA
		Western Alaska, Alaska, U.S.A.	(59.3600)	(153.4307)		
		opened 19900901. GIA code AUS.				
AGX	D	Aguascalientes	21 52 43.2 N	102 18 03.6 W	...	UNM
		Aguascalientes, Mexico	(21.8787)	(102.3010)		
		opened 1988.				
AKGH		Akosombo	6 14 36.0 N	0 02 25.0 E	377.0	KUK
		Ghana	(6.2433)	(0.0403)		
		opened 1987.				
AKIJ	R	Akita 2	39 45 00.0 N	140 08 30.0 E	65.0	JMA
		Honshu, Japan	(39.7500)	(140.1417)		
		opened 19900425.				
AKL		Akola	20 07 .. N	77 07 .. E	310.0	NDI
		Maharashtra, India	(20.1167)	(77.1167)		

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Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
AKRL		Khor El Romi	23 39 36.0 N (23.6600)	32 42 36.0 E (32.7100)	...	HLW
		Egypt opened 1982? HLW code KRL.				
AKSR		Khor Sakr	23 38 13.8 N (23.6372)	33 01 15.0 E (33.0208)	...	HLW
		Egypt opened 1982? HLW code KSR.				
AKUR		Kurkur	23 53 38.4 N (23.8940)	32 46 33.6 E (32.7760)	...	HLW
		Egypt opened 1982? HLW code KUR.				
ALBI	R	Allahabad	25 29 .. N (25.4833)	81 50 .. E (81.8333)	107.0	NDI
		Uttar Pradesh, India				
ALJ		Aljibe	36 40 25.2 N (36.6737)	5 36 14.4 W (5.6040)	1091.0	SFS
		Spain				
ALME	R	Alemayo	9 25 48.0 N (9.4300)	42 02 24.0 E (42.0400)	2133.0	
		Ethiopia				
ALN		Alexandroupolis	40 53 50.0 N (40.8972)	26 02 44.0 E (26.0456)	110.0	THE
		Greece opened 198906.				
ALOJ		Lojo	37 06 32.4 N (37.1090)	4 06 18.0 W (4.1050)	1340.0	CRT
		Spain				
ALPW		Alpine	43 09 02.3 N (43.1506)	110 59 52.1 W (110.9978)	1792.0	USBR
		Wyoming, U.S.A. opened 198601.				
AMAN		Manom	23 56 00.0 N (23.9333)	32 56 02.4 E (32.9340)	...	HLW
		Egypt opened 1982? HLW code MAN.				
AMRP		Almeirim	39 09 30.0 N (39.1583)	8 34 30.0 W (8.5750)	160.0	INMG
		Portugal opened 199002?				
AMW		Mount Adams	41 18 34.0 S (41.3094)	175 45 39.0 E (175.7608)	...	WELW
		North Island, New Zealand opened 19910211.				
ANAL		New Aliso	23 24 36.0 N (23.4100)	32 40 40.8 E (32.6780)	...	HLW
		Egypt opened 1982? HLW code NAL.				
ANCC		Alto Anchicoyo	3 30 55.2 N (3.5153)	76 52 00.0 W (76.8667)	540.0	UVC
		Colombia opened 1987.				
ANGC	R	Angol	37 47 00.0 S (37.7833)	72 42 30.0 W (72.7083)	...	
		Araucania, Chile				
ANGL			0 23 34.4 S (0.3929)	77 32 39.8 W (77.5444)	3360.0	QUI
		Ecuador opened 199008.				
ANGV	R	Angosturo	9 42 18.0 N (9.7050)	69 31 18.1 W (69.5217)	680.0	CAR
		Venezuela opened 1984.				
ANGW		Angle Mountain	43 49 54.6 N (43.8318)	110 11 24.8 W (110.1902)	2743.0	USBR
		Wyoming, U.S.A. opened 199009.				
ANMR		North Mavowa	23 40 37.2 N (23.6770)	32 32 32.4 E (32.5423)	...	HLW
		Egypt opened 1982? HLW code NMR.				
ANTI		Antisana	0 27 30.0 S (0.4583)	78 09 41.4 W (78.1615)	4500.0	QUI
		Ecuador opened 19910805.				
ANTR		Antelope Ridge	32 14 57.6 N (32.2493)	103 24 16.8 W (103.4047)	1056.0	SNM
		New Mexico, U.S.A. opened 1991.				
AOI		Ancona (Monte Conero)	43 33 00.0 N (43.5500)	13 36 07.2 E (13.6020)	530.0	SSO
		Marche, Italy				
AOM3	R	Aomori 3	40 46 36.0 N (40.7767)	140 49 00.0 E (140.8167)	150.0	JMA
		Honshu, Japan opened 19900421.				
APHE		Pico Herrero	36 57 07.2 N (36.9520)	3 41 16.8 W (3.6880)	1360.0	CRT
		Spain				
APKP	F	(phase code designation)				
APM		Augspurger Mountain	45 44 10.0 N (45.7361)	121 40 50.0 W (121.6806)	865.0	SEA
		Washington, U.S.A. opened 198110. SEA code AUG.				
APW		Alpha Peak	46 39 06.0 N (46.6517)	122 38 51.0 W (122.6475)	457.0	SEA
		Washington, U.S.A.				
AQBJ		'Aqaba	29 43 40.8 N (29.7280)	35 03 00.0 E (35.0500)	170.0	JSO
		Jordan opened 1989.				
ARA0		Arcess	69 32 05.6 N (69.5349)	25 30 21.2 E (25.5059)	403.0	BER
		Norway				
ARL			17 24 43.2 N (17.4120)	93 07 04.8 W (93.1180)	...	UNM
		Chiapas, Mexico				
ARMA		Armidale	30 25 11.3 S (30.4198)	151 37 40.8 E (151.6280)	1130.0	AUST
		New South Wales, Australia				
ARNI		Argonne North	43 40 00.0 N (43.6667)	112 37 24.6 W (112.6235)	1553.0	USGS
		Idaho, U.S.A. opened 19900814.				
ARTJ		Al Aritein	32 14 48.0 N (32.2467)	36 49 42.0 E (36.8283)	1058.0	JSO
		Jordan opened 1987.				
ARTL		Arthez-de-Bearn	43 27 22.0 N (43.4561)	0 35 17.0 W (0.5881)	210.0	STR
		Aquitaine, France				
ARVI		'Arava Valley	30 39 00.0 N (30.6500)	35 10 48.0 E (35.1800)	...	JER
		Israel				

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Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
AS01	R	Alice Springs Array Northern Territory, Australia AUST opened 1986.	23 39 53.0 S (23.6647)	133 57 03.0 E (133.9508)	550.0	AUST
AS02	R	Alice Springs Array Northern Territory, Australia AUST opened 1986.	23 40 45.0 S (23.6792)	133 56 13.0 E (133.9369)	550.0	AUST
AS03	R	Alice Springs Array Northern Territory, Australia AUST opened 1986.	23 40 28.0 S (23.6744)	133 55 11.0 E (133.9197)	550.0	AUST
AS04	R	Alice Springs Array Northern Territory, Australia AUST opened 1986.	23 39 35.0 S (23.6597)	133 55 45.0 E (133.9292)	550.0	AUST
AS05	R	Alice Springs Array Northern Territory, Australia AUST opened 1986.	23 38 57.0 S (23.6492)	133 56 51.0 E (133.9475)	550.0	AUST
AS06	R	Alice Springs Array Northern Territory, Australia AUST opened 1986.	23 38 51.0 S (23.6475)	133 58 17.0 E (133.9714)	550.0	AUST
AS07	R	Alice Springs Array Northern Territory, Australia AUST opened 1986.	23 39 56.0 S (23.6656)	133 58 11.0 E (133.9697)	550.0	AUST
AS08	R	Alice Springs Array Northern Territory, Australia AUST opened 1986.	23 40 53.0 S (23.6814)	133 57 36.0 E (133.9600)	550.0	AUST
AS09	R	Alice Springs Array Northern Territory, Australia AUST opened 1986.	23 41 58.0 S (23.6994)	133 56 29.0 E (133.9414)	550.0	AUST
AS10	R	Alice Springs Array Northern Territory, Australia AUST opened 1986.	23 41 49.0 S (23.6969)	133 54 50.0 E (133.9139)	550.0	AUST
AS11	R	Alice Springs Array Northern Territory, Australia AUST opened 1986.	23 40 42.0 S (23.6783)	133 53 52.0 E (133.8978)	550.0	AUST
AS12	R	Alice Springs Array Northern Territory, Australia AUST opened 1986.	23 39 59.0 S (23.6664)	133 54 16.0 E (133.9044)	550.0	AUST
AS13	R	Alice Springs Array Northern Territory, Australia AUST opened 1986.	23 39 07.0 S (23.6519)	133 53 40.0 E (133.8944)	550.0	AUST
AS14	R	Alice Springs Array Northern Territory, Australia AUST opened 1986.	23 39 06.0 S (23.6517)	133 54 37.0 E (133.9103)	550.0	AUST
AS15	R	Alice Springs Array Northern Territory, Australia AUST opened 1986.	23 38 08.0 S (23.6356)	133 54 44.0 E (133.9122)	550.0	AUST
AS16	R	Alice Springs Array Northern Territory, Australia AUST opened 1986.	23 38 13.0 S (23.6369)	133 55 48.0 E (133.9300)	550.0	AUST
AS17	R	Alice Springs Array Northern Territory, Australia AUST opened 1986.	23 39 52.0 S (23.6644)	133 59 30.0 E (133.9917)	550.0	AUST
AS18	R	Alice Springs Array Northern Territory, Australia AUST opened 1986.	23 41 24.0 S (23.6900)	133 58 51.0 E (133.9808)	550.0	AUST
AS19	R	Alice Springs Array Northern Territory, Australia AUST opened 1986.	23 42 16.0 S (23.7044)	133 57 45.0 E (133.9625)	550.0	AUST
ASAR	R	..... Northern Territory, Australia	...	...	...	AUST
ASKD		Sinn el Koddob Egypt opened 1982? HLW code SKD.	23 39 34.8 N (23.6597)	32 23 04.8 E (32.3847)	...	HLW
ASME	R	Asmera Ethiopia	15 21 00.0 N (15.3500)	38 55 48.0 E (38.9300)	2420.0	
ASMO		Sierro Morrones Spain	37 21 28.8 N (37.3580)	3 44 34.8 W (3.7430)	1170.0	CRT
ASPF		Aspremont Provence-Cote d'Azur, France	43 46 05.4 N (43.7682)	7 15 29.9 E (7.2583)	850.0	STR
ASR		Mount Adams--Stagmon Ridge Washington, U.S.A.	46 09 02.4 N (46.1507)	121 35 33.6 W (121.5927)	1280.0	SEA
ATEJ		Tejedo Spain	36 54 54.0 N (36.9150)	4 00 50.4 W (4.0140)	1480.0	CRT
ATN		Antennomare (Messina) Sicilia, Italy	38 09 38.0 N (38.1606)	15 27 46.0 E (15.4628)	350.0	ERC
ATR1	R	Atar 1 Israel	30 58 12.0 N (30.9700)	34 37 48.0 E (34.6300)	200.0	JER
ATZ		Mount Atzmon Israel opened 19860528.	32 49 17.8 N (32.8216)	35 16 11.0 E (35.2697)	510.0	JER
AUP		Augustine Pinnacle Western Alaska, Alaska, U.S.A. opened 19770922.	59 21 44.4 N (59.3623)	153 25 13.8 W (153.4205)	1033.0	AGS
AURF		Auriere Provence-Cote d'Azur, France	43 53 14.4 N (43.8873)	7 19 39.0 E (7.3275)	1040.0	STR
AUW		Augustine West Western Alaska, Alaska, U.S.A. 198607-19900829. Reopened 199008.	59 22 12.3 N (59.3701)	153 28 14.9 W (153.4708)	276.0	GIA
AVN		Avellones Spain Sent to NEIS by MDD.	41 53 01.2 N (41.8837)	0 45 06.6 E (0.7518)	630.0	MRB

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Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
AVOW		Apres Vaux Peak Wyoming, U.S.A. opened 198601.	43 36 39.8 N (43.6111)	110 48 50.3 W (110.8140)	2036.0	USBR
AWAL		West Alisa Egypt opened 1982? HLW code WAL.	23 22 45.0 N (23.3792)	32 34 57.0 E (32.5825)	...	HLW
AWDQ		Awoongo Dam No. 3 Queensland, Australia opened 19870701. QDM code AWD.	24 02 52.1 S (24.0478)	151 18 56.5 E (151.3157)	110.0	QDM
AWKL		West Kolabsha Egypt opened 1982? HLW code WKL.	23 25 30.6 N (23.4252)	32 26 49.2 E (32.4470)	...	HLW
AYK	R	Aydincik Turkey opened 198801.	36 09 08.0 N (36.1522)	33 19 37.0 E (33.3269)	50.0	ISK
AYN		Al 'Uyaynah Saudi Arabia opened 1986.	28 52 12.0 N (28.8700)	36 00 00.0 E (36.0000)	...	RYD
AZI		Avezzano Abruzzo, Italy opened 1987.	41 59 18.4 N (41.9884)	13 26 08.4 E (13.4357)	...	ROM
AZO	R	 Oaxaca, Mexica	15 57 57.6 N (15.9660)	97 24 28.8 W (97.4080)	...	UNM
BADA		Al Bad' Saudi Arabia opened 1986.	28 31 22.8 N (28.5230)	35 00 07.2 E (35.0020)	...	RYD
BAE1	RD	Brasilia Array Site E1 Distrito Federal, Brazil opened 197101?	15 39 00.0 S (15.6500)	47 56 49.0 W (47.9469)	1200.0	BDF
BAE2	RD	Brasilia Array Site E2 Distrito Federal, Brazil opened 197101?	15 39 00.0 S (15.6500)	47 56 49.0 W (47.9469)	1200.0	BDF
BAE3	RD	Brasilia Array Site E3 Distrito Federal, Brazil opened 197101?	15 39 25.0 S (15.6569)	47 55 35.0 W (47.9264)	1200.0	BDF
BAE4	D	Brasilia Array Site E4 Distrito Federal, Brazil opened 197101?	15 39 51.0 S (15.6642)	47 54 11.0 W (47.9031)	1260.0	BDF
BAE5	RD	Brasilia Array Site E5 Distrito Federal, Brazil opened 197101?	15 40 21.0 S (15.6725)	47 52 51.0 W (47.8808)	1200.0	BDF
BAEE	RD	Brasilia Array Site EE Distrito Federal, Brazil opened 197101?	15 44 19.0 S (15.7386)	47 37 12.0 W (47.6200)	1200.0	BDF
BALA		Baldy Mountain Alaska Peninsula, Alaska, U.S.A. PAL code BAL.	55 11 35.6 N (55.1932)	162 47 12.5 W (162.7868)	360.0	PAL
BAS1	RD	Brasilia Array Site S1 Distrito Federal, Brazil opened 197101?	15 39 22.0 S (15.6561)	47 59 59.0 W (47.9997)	1200.0	BDF
BAS2	RD	Brasilia Array Site S2 Distrito Federal, Brazil opened 197101?	15 40 41.0 S (15.6781)	48 00 25.0 W (48.0069)	1200.0	BDF
BAS3	RD	Brasilia Array Site S3 Distrito Federal, Brazil opened 197101?	15 41 55.0 S (15.6986)	48 00 53.0 W (48.0147)	1200.0	BDF
BAS4	RD	Brasilia Array Site S4 Distrito Federal, Brazil opened 197101?	15 43 09.0 S (15.7192)	48 01 20.0 W (48.0222)	1200.0	BDF
BAS5	RD	Brasilia Array Site S5 Distrito Federal, Brazil opened 197101?	15 44 31.0 S (15.7419)	48 01 50.0 W (48.0306)	1200.0	BDF
BASE	RD	Brasilia Array Site SE Distrito Federal, Brazil opened 197101?	15 57 26.0 S (15.9572)	48 04 14.0 W (48.0706)	1200.0	BDF
BAUT		Boutismo Venezuela opened 1984.	10 30 23.4 N (10.5065)	66 28 55.2 W (66.4820)	1976.0	CAR
BAW1	D	Brasilia Array Site W1 Distrito Federal, Brazil opened 197101?	15 37 42.0 S (15.6283)	48 00 46.0 W (48.0128)	1200.0	BDF
BAW2	RD	Brasilia Array Site W2 Distrito Federal, Brazil opened 197101?	15 37 17.0 S (15.6214)	48 01 07.0 W (48.0186)	1200.0	BDF
BAW3	RD	Brasilia Array Site W3 Distrito Federal, Brazil opened 197101?	15 36 46.0 S (15.6128)	48 03 27.0 W (48.0575)	1200.0	BDF
BAW4	RD	Brasilia Array Site W4 Distrito Federal, Brazil opened 197101?	15 36 19.0 S (15.6053)	48 04 46.0 W (48.0794)	1200.0	BDF
BAWE	D	Brasilia Array Site WE Distrito Federal, Brazil opened 197101?	15 35 28.0 S (15.5911)	48 04 50.0 W (48.0806)	1200.0	BDF
BBB		Bella Bella British Columbia, Canada opened 19861205.	52 11 04.9 N (52.1847)	128 06 47.9 W (128.1133)	14.0	OTTR
BBTK		Belbasi Turkey	39 50 32.0 N (39.8422)	32 45 37.0 E (32.7603)	1200.0	
BBTN		Blue Bank Bayou Tennessee, U.S.A.	36 23 13.2 N (36.3870)	89 27 25.2 W (89.4570)	88.0	SLM

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Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
BBU		Al Budayyi'	26 12 54.0 N (26.2150)	50 27 24.0 E (50.4567)	...	BMU
		Bahrain opened 1986.				
BCI		Bajram Curri	42 21 59.8 N (42.3666)	20 04 03.0 E (20.0675)	...	TIR
		Albania				
BCP		Baguio City	16 25 04.8 N (16.4180)	120 36 36.0 E (120.6100)	...	MAN
		Luzon, Philippines				
BCYI	R	Bear Canyon	...	...	...	USGS
		Idaho, U.S.A.				
BCZ		Broida Crags	46 00 24.0 S (46.0067)	167 50 23.0 E (167.8397)	120.0	WEL
		South Island, New Zealand opened 19900527.				
BDBC		Bennett Dam	56 10 27.0 N (56.1742)	122 16 57.0 W (122.2825)	700.0	
		British Columbia, Canada opened 198510.				
BDMQ		Boondooma Dam	26 06 44.3 S (26.1123)	151 26 39.8 E (151.4444)	320.0	QDM
		Queensland, Australia opened 19800729. QDM code BDM.				
BDNM		Bernardo	34 29 26.4 N (34.4907)	106 55 03.6 W (106.9177)	...	SNM
		New Mexico, U.S.A. opened 1990. SNM code BDO.				
BEAW		Beaver Mountain	43 15 03.4 N (43.2509)	110 36 48.2 W (110.6134)	2960.0	USBR
		Wyoming, U.S.A. opened 199009.				
BEB		Belem	1 27 00.0 S (1.4500)	48 26 42.0 W (48.4450)	15.0	
		Para, Brazil opened 1987.				
BECU	C	Ecuador Network	0 28 28.8 S (0.4747)	78 35 46.2 W (78.5962)	3320.0	OUI
		Ecuador				
BEE		Al Areen	26 01 00.0 N (26.0167)	50 31 18.0 E (50.5217)	...	BMU
		Bahrain opened 1986.				
BERA		Berat	40 42 09.7 N (40.7027)	19 56 57.8 E (19.9494)	...	TIR
		Albania				
BERF		Bertagne	43 18 46.8 N (43.3130)	5 41 26.5 E (5.6907)	1030.0	STR
		Provence-Cote d'Azur, France				
BEVG		Clark Hill Reservoir	34 05 21.5 N (34.0893)	82 44 00.0 W (82.7333)	158.0	ATL
		Georgia, U.S.A.				
BFO	R	Black Forest Observatory (Schiltach)	48 19 52.0 N (48.3311)	8 19 49.0 E (8.3303)	589.0	KRW
		Rheinland-Pfalz, Germany opened before 197410.				
BFT		Belfast	25 41 12.0 S (25.6867)	30 02 36.0 E (30.0433)	1868.0	PRE
		Transvaal, South Africa opened 1986.				
BGL		Barrier Glacier	61 15 48.6 N (61.2635)	152 23 25.8 W (152.3905)	1173.0	AGS
		Western Alaska, Alaska, U.S.A. opened 1989.				
BGMT		Barton Gulch	45 14 00.0 N (45.2333)	112 02 25.8 W (112.0405)	2172.0	BUT
		Montana, U.S.A. opened 19871021.				
BGRQ	R	Glenroy	20 32 57.1 S (20.5492)	147 06 18.7 E (147.1052)	160.0	QDM
		Queensland, Australia opened 19810216. QDM code BGR.				
BHB		Bricherasio	44 50 30.0 N (44.8417)	7 15 48.0 E (7.2633)	530.0	GEN
		Piemonte, Italy opened 19900517.				
BHC	R	Bohunice	48 34 43.0 N (48.5786)	17 31 44.0 E (17.5289)	...	PRU
		Czechoslovakia				
BHM	D	Barham	51 12 46.0 N (51.2128)	1 10 27.0 E (1.1742)	100.0	BKN
		England, United Kingdom				
BIAC		(Alternate Abbreviation for DIAC)				
BIP		Bislig	8 13 30.0 N (8.2250)	126 15 00.0 E (126.2500)	...	MAN
		Mindanao, Philippines				
BISH		Bishah	20 00 03.6 N (20.0010)	42 35 56.4 E (42.5990)	800.0	RYD
		Saudi Arabia opened 199105.				
BIX		Bixby	35 58 40.8 N (35.9780)	95 50 46.0 W (95.8461)	195.0	
		Oklahoma, U.S.A. opened 19900801. Sent to NEIS byt TUL.				
BJA		Jawa	25 59 30.0 N (25.9917)	50 36 30.0 E (50.6083)	...	BMU
		Bahrain opened 1986.				
BJU	R		16 52 36.5 N (16.8768)	93 10 44.8 W (93.1791)	...	IIM
		Chiapas, Mexico				
BKE		Bekescsaba	46 36 45.0 N (46.6125)	17 53 34.8 E (17.8930)	95.0	BUD
		Hungary opened 1987.				
BKJ		Big Koniuji Island	55 09 24.0 N (55.1567)	159 33 31.9 W (159.5589)	146.0	PAL
		Alaska Peninsula, Alaska, U.S.A.				
BKM		Butta a Klahm	17 40 06.0 S (17.6683)	168 14 36.0 E (168.2433)	270.0	NOU
		Vanuatu				
BKO		Bakassa	4 25 04.8 N (4.4180)	9 08 27.6 E (9.1410)	380.0	YND
		Cameroon opened 19850213.				
BKOA			25 59 .. N (25.9833)	91 16 .. E (91.2667)	50.0	JHI
		Assam, India				
BLH		Bald Hill	47 50 12.6 N (47.8368)	122 01 55.8 W (122.0322)	198.0	SEA
		Washington, U.S.A. opened 198407. SEA code BHW.				

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BLHA	C	Block Hill Alaska Peninsula, Alaska, U.S.A. closed 199007. PAL code BLH.	55 42 09.0 N (55.7025)	162 03 57.0 W (162.0658)	390.0	PAL
BLLO		Bulolo New Guinea, Papua New Guinea opened 19880610.	7 12 07.2 S (7.2020)	146 37 12.0 E (146.6200)	700.0	PMG
BLPI		Bilaspur Madhya Pradesh, India NDI code BLP.	22 05 .. N (22.0833)	82 25 .. E (82.4167)	85.0	NDI
BLS		Blasjo Norway opened 1985.	59 23 24.0 N (59.3900)	6 26 56.4 E (6.4490)	1170.0	BER
BLS1		Blasjo Norway opened 198610.	59 23 27.6 N (59.3910)	6 49 37.2 E (6.8270)	1160.0	BER
BLS2		Blasjo Norway opened 198610.	59 17 38.4 N (59.2940)	6 55 37.2 E (6.9270)	1190.0	BER
BLS3		Blasjo Norway opened 198610.	59 25 30.0 N (59.4250)	6 30 54.0 E (6.5150)	1130.0	BER
BMD	R	Beni Messoud Morocco	35 46 49.0 N (35.7803)	5 41 59.0 W (5.6997)	...	CNRM
BMNM		Beor Mountains New Mexico, U.S.A. SNM code BMT.	34 16 30.0 N (34.2750)	107 15 36.6 W (107.2602)	1972.0	SNM
BMU	R	Al Muharraq Bahrain opened 1986.	26 14 06.0 N (26.2350)	50 39 36.0 E (50.6600)	...	BMU
BMW	D	Baistfort Mountain Washington, U.S.A. opened 198011. USTN opened 1988. SEA code BOW.	46 28 30.0 N (46.4750)	123 13 41.0 W (123.2281)	870.0	SEA USTN
BNAB		Bonilla British Columbia, Canada opened 19871204.	53 29 36.0 N (53.4933)	130 38 14.0 W (130.6372)	16.0	OTTR
BNI		Bardonecchia Piemonte, Italy	45 03 09.7 N (45.0527)	6 40 30.7 E (6.6752)	1395.0	ROM
BNM		Barren Site New Mexico, U.S.A. SNM code BAR.	34 08 31.2 N (34.1420)	106 37 40.8 W (106.6280)	2120.0	SNM
BOB	D	Bobbio (Coli) Emilia-Romagna, Italy	44 46 01.2 N (44.7670)	9 26 53.5 E (9.4482)	930.0	ROM
BPBC		Brooks Peninsula British Columbia, Canada opened 199110.	50 09 25.9 N (50.1572)	127 46 14.9 W (127.7708)	732.0	WCTN
BRCI		Bahraich Uttar Pradesh, India NDI code BRC.	27 34 .. N (27.5667)	81 35 .. E (81.5833)	123.0	NDI
BRF		Ar Rifa' Bahrain opened 1986.	26 04 24.0 N (26.0733)	50 35 00.0 E (50.5833)	...	BMU
BRNI		Bet Oren Israel opened 199112.	32 43 12.0 N (32.7200)	34 59 24.0 E (34.9900)	400.0	JER
BRNL	RD	Berlin--Lankwitz Berlin, Germany opened 19910406.	52 25 40.1 N (52.4278)	13 21 28.7 E (13.3580)	42.0	
BRTN		Brown Mountain Tennessee, U.S.A. opened 19860605.	36 21 24.0 N (36.3567)	82 52 04.2 W (82.8678)	630.0	TVA
BRUT		Bromley Salt Lake County, Utah, U.S.A. opened 19900822.	40 37 22.8 N (40.6230)	111 52 43.2 W (111.8787)	1337.0	SLC
BRVW		Black Rock Valley Washington, U.S.A. opened 198312. SEA code BRV.	46 29 07.2 N (46.4853)	119 59 29.4 W (119.9915)	925.0	SEA
BS01	R	Boso O.B.S. 1 Honshu, Japan	34 39 12.0 N (34.6533)	140 58 42.0 E (140.9783)	-4011.0	JMA
BS02	R	Boso O.B.S. 2 Honshu, Japan	34 45 06.0 N (34.7517)	140 45 18.0 E (140.7550)	-2090.0	JMA
BS03	R	Boso O.B.S. 3 Honshu, Japan	34 48 06.0 N (34.8017)	140 30 36.0 E (140.5100)	-1898.0	JMA
BS04	R	Boso O.B.S. 4 Honshu, Japan	34 59 24.0 N (34.9900)	140 20 18.0 E (140.3383)	-658.0	JMA
BSD		Bornholm Skovbrynet Denmark opened 199003.	55 06 36.0 N (55.1100)	14 54 36.0 E (14.9100)	88.0	COP
BSLQ	RD	Bruslee Queensland, Australia opened 19840302. ODM code BSL.	20 52 01.2 S (20.8670)	146 33 50.4 E (146.5640)	185.0	ODM
BSZ	D	Bushy Park North Island, New Zealand opened 19900619.	39 47 55.4 S (39.7987)	174 55 52.4 E (174.9312)	150.0	WEL
BTA	R	Bajo Talamanca Costa Rica	...	...	...	HDC
BTE	R	Batoke Cameroon opened 19850301.	4 02 52.8 N (4.0480)	9 05 13.2 E (9.0870)	90.0	YND

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BTH		Betharram Aquitaine, France opened 198608.	43 07 23.0 N (43.1231)	0 12 25.0 W (0.2069)	300.0	
BUE	R	Buenavista Veracruz, Mexico	19 26 16.8 N (19.4380)	96 33 32.4 W (96.5590)	200.0	IIM
BUGC		Bugo Colombia	3 53 35.8 N (3.8933)	76 15 24.7 W (76.2569)	1200.0	UVC
BUNI		Buntu Toipa Sulawesi, Indonesia	3 39 28.0 S (3.6578)	120 19 23.0 E (120.3231)	240.0	DJA
BUW	D	Bucklebury West England, United Kingdom	51 24 34.0 N (51.4094)	1 13 28.0 W (1.2244)	125.0	BKN
BUWY		Burn England, United Kingdom	53 44 34.4 N (53.7429)	1 03 59.4 W (1.0665)	5.0	OMB
BVTM	R	 Michoacan, Mexico UNM code BVT.	18 53 36.0 N (18.8933)	102 15 54.0 W (102.2650)	...	UNM
BVW		Beverly Washington, U.S.A. opened 198609.	46 48 37.8 N (46.8105)	119 52 54.1 W (119.8817)	707.0	SEA
BW01	R	Boulder Array Wyoming, U.S.A.	42 47 09.1 N (42.7859)	109 34 49.7 W (109.5805)	2200.0	NEIS
BW02	R	Boulder Array Wyoming, U.S.A.	42 47 19.8 N (42.7888)	109 33 49.6 W (109.5638)	2200.0	NEIS
BW03	R	Boulder Array Wyoming, U.S.A.	42 47 12.7 N (42.7869)	109 32 46.8 W (109.5463)	2200.0	NEIS
BW04	R	Boulder Array Wyoming, U.S.A.	42 46 44.8 N (42.7791)	109 34 18.3 W (109.5717)	2190.0	NEIS
BW05	R	Boulder Array Wyoming, U.S.A.	42 46 52.0 N (42.7811)	109 33 50.0 W (109.5639)	2200.0	NEIS
BW06	D	Boulder Array Wyoming, U.S.A. opened 19860718.	42 46 40.0 N (42.7778)	109 33 20.0 W (109.5556)	2200.0	NEIS USTN
BW07	R	Boulder Array Wyoming, U.S.A.	42 46 51.0 N (42.7808)	109 32 30.5 W (109.5418)	2200.0	NEIS
BW08	R	Boulder Array Wyoming, U.S.A.	42 46 10.4 N (42.7696)	109 34 51.9 W (109.5811)	2200.0	NEIS
BW09	R	Boulder Array Wyoming, U.S.A.	42 46 20.2 N (42.7723)	109 33 50.9 W (109.5641)	2200.0	NEIS
BW10	R	Boulder Array Wyoming, U.S.A.	42 46 10.8 N (42.7697)	109 33 13.8 W (109.5538)	2200.0	NEIS
BW11	R	Boulder Array Wyoming, U.S.A.	42 45 45.8 N (42.7627)	109 34 26.7 W (109.5741)	2200.0	NEIS
BW12	R	Boulder Array Wyoming, U.S.A.	42 45 55.5 N (42.7654)	109 33 36.3 W (109.5601)	2200.0	NEIS
BW13	R	Boulder Array Wyoming, U.S.A.	42 45 55.5 N (42.7654)	109 32 46.8 W (109.5463)	2200.0	NEIS
BWN		Browne Central Alaska, Alaska, U.S.A. opened 19890919.	64 10 18.0 N (64.1717)	149 27 55.2 W (149.4653)	365.0	GIA
BWZ		Berwen Station South Island, New Zealand opened 19910120.	44 31 54.0 S (44.5317)	169 52 59.0 E (169.8831)	...	WEL
CABA		Cabalio Blanco Venezuela opened 1984.	7 51 20.9 N (7.8558)	71 30 07.9 W (71.5022)	1600.0	CAR
CAE	D	Canevo Friuli-Venezia Giulia, Italy opened 19830423.	46 00 24.0 N (46.0067)	12 26 12.0 E (12.4367)	870.0	TRI
CAMM	R	 Veracruz, Mexico IIM code CAM.	19 35 16.8 N (19.5880)	96 27 36.0 W (96.4600)	190.0	IIM
CAY	RD	Cayenne French Guiana opened 19850722.	4 57 00.0 N (4.9500)	52 19 12.0 W (52.3200)	25.0	GEOS
CAYA		Cayambe Ecuador opened 198904.	0 04 48.0 N (0.0800)	77 59 00.0 W (77.9833)	4000.0	OUI
CBD		Cypress Bend Missouri, U.S.A. opened 19850621. SLM code CBMO.	36 19 01.2 N (36.3170)	89 39 03.6 W (89.6510)	84.0	SLM
CBSW		Chelan Butte South Washington, U.S.A. opened 1987. SEA code CBS.	47 48 16.7 N (47.8046)	120 02 27.6 W (120.0410)	1073.0	SEA
CBTI		Cedar Butte Idaho, U.S.A. opened 19860711.	43 23 15.0 N (43.3875)	112 54 41.4 W (112.9115)	1754.0	USGS
CBZM	R	 Michoacan, Mexico UNM code CBZ.	18 00 54.0 N (18.0150)	102 24 18.0 W (102.4050)	...	UNM
CC5	R	Presa El Caracol No. 5 Guerrero, Mexico	17 32 24.0 N (17.5400)	99 16 40.8 W (99.2780)	...	IIM
CCHE		Chesterland Ohio, U.S.A.	41 33 40.2 N (41.5612)	81 21 43.2 W (81.3620)	365.0	CLE
CCMO		Creve Coeur Missouri, U.S.A.	38 43 12.0 N (38.7200)	90 28 01.2 W (90.4670)	152.0	SLM
CCMX		Caleta de Campos Michoacan, Mexico Strong-motion station.	18 03 12.0 N (18.0533)	102 45 00.0 W (102.7500)	...	LJC

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CDAM	R	Ciudad Altamirana	18 21 .. N	100 39 .. W	300.0	UNM
		Guerrero, Mexico	(18.3500)	(100.6500)		
		UNM code CDA.				
CDFW		Cedar Flats	46 06 58.2 N	122 02 51.0 W	780.0	SEA
		Washington, U.S.A.	(46.1162)	(122.0475)		
		opened 198003. SEA code CDF.				
CDZ	UD	Cobb Dam	41 05 43.8 S	172 42 46.8 E	780.0	WEL
		South Island, New Zealand	(41.0955)	(172.7130)		
		19891130-19900425.				
CECL		East Claridon	41 32 49.2 N	81 06 07.2 W	362.0	CLE
		Ohio, U.S.A.	(41.5470)	(81.1020)		
CECU	C	Ecuador Network	0 28 34.2 S	77 52 13.2 W	2220.0	QUI
		Ecuador	(0.4762)	(77.8703)		
CEDI		Cerro Diablo	7 39 14.4 N	71 53 06.0 W	900.0	CAR
		Venezuela	(7.6540)	(71.8850)		
		opened 1984.				
CENE		Cerro Negro	7 45 50.4 N	71 19 22.1 W	400.0	CAR
		Venezuela	(7.7640)	(71.3228)		
		opened 1984.				
CEO	R	Cerro Encantada	16 14 00.0 N	97 01 06.0 W	3000.0	UNM
		Oaxaca, Mexica	(16.2333)	(97.0183)		
CEOS		Cerro El Oso	9 01 50.5 N	68 20 02.8 W	800.0	CAR
		Venezuela	(9.0307)	(68.3341)		
		opened 198612.				
CESL		Cescau	43 24 07.0 N	0 31 55.0 W	220.0	STR
		Aquitaine, France	(43.4019)	(0.5319)		
CFC	R	Cairnmuir Flats	45 11 03.0 S	169 17 32.0 E	576.0	WELC
		South Island, New Zealand	(45.1842)	(169.2922)		
CFS		Cross Fire Station	33 16 43.3 N	80 10 09.5 W	26.0	USGS
		South Carolina, U.S.A.	(33.2787)	(80.1693)		
		opened 19880530.				
CFTV		Fuerteventura	28 24 49.8 N	14 05 00.0 W	540.0	MDD
		Canary Islands, Spain	(28.4138)	(14.0833)		
		opened 198512.				
CGG		.....	16 40 30.0 N	98 27 27.0 W	400.0	UNM
		Guerrero, Mexica	(16.6750)	(98.4575)		
CGRR		Girdled Road	41 40 43.4 N	81 08 30.6 W	334.0	CLE
		Ohio, U.S.A.	(41.6787)	(81.1418)		
CGY		Coligny	26 20 54.0 S	26 22 30.0 E	...	PRE
		Transvaal, South Africa	(26.3483)	(26.3750)		
		opened 1986.				
CHAF		Chalampe	47 48 44.0 N	7 32 25.0 E	-285.0	STR
		Alsace, France	(47.8122)	(7.5403)		
CHIE		El Hierro Las Playas	27 43 37.2 N	17 57 38.5 W	170.0	MDD
		Canary Islands, Spain	(27.7270)	(17.9607)		
		opened 198906.				
CHIM	C	Chimborazo	1 25 13.0 S	78 51 41.0 W	4100.0	QUI
		Ecuador	(1.4203)	(78.8614)		
		199001-1991?				
CHKT	R	Ch'eng-kung	23 05 57.2 N	121 21 55.4 E	33.5	TAP
		China (Taiwan)	(23.0992)	(121.3654)		
CHMZ		Chamo	16 50 .. S	27 04 .. E	1278.0	LSZ
		Zambia	(16.8333)	(27.0667)		
		opened 1987.				
CHOC	R	.....	49 46 08.4 N	18 33 39.6 E	...	PRU
		Czechoslovakia	(49.7690)	(18.5610)		
CHOI		Coyote Hollow	43 18 45.0 N	111 12 45.9 W	2103.0	USBR
		Idaho, U.S.A.	(43.3125)	(111.2127)		
		opened 198601.				
CHOR		Cabbage Hill	45 35 27.0 N	118 34 45.0 W	1076.0	SEA
		Oregon, U.S.A.	(45.5908)	(118.5792)		
		opened 198608. SEA code CHO.				
CHPM		Chiautla de Tapia	18 17 55.0 N	98 36 47.6 W	1030.0	UNM
		Puebla, Mexica	(18.2986)	(98.6132)		
		UNM code CHP.				
CIO		Camerino (Monte d'Ario)	43 11 42.0 N	13 08 38.4 E	956.0	SSO
		Marche, Italy	(43.1950)	(13.1440)		
CIPM		.....	17 57 43.2 N	97 51 14.4 W	...	UNM
		Puebla, Mexica	(17.9620)	(97.8540)		
		UNM code CIP.				
CIQ	R	Chicoutimi	48 16 20.4 N	70 47 27.0 W	273.0	OTTR
		Quebec, Canada	(48.2723)	(70.7908)		
		opened 19890511.				
CJR1		Cluj	46 45 58.0 N	23 33 05.0 E	345.0	BUC
		Romania	(46.7661)	(23.5514)		
		opened 19851201.				
CKL		Chakachamna Lake	61 11 47.4 N	152 20 16.2 W	1265.0	AGS
		Western Alaska, Alaska, U.S.A.	(61.1965)	(152.3378)		
		opened 1989.				
CLLP		Cerrillos	18 04 48.0 N	66 34 36.0 W	...	MPR
		Puerto Rico	(18.0800)	(66.5767)		
		opened 199104.				
CLMC		Lago Calima	3 52 52.9 N	76 33 46.8 W	1480.0	UVC
		Colombia	(3.8814)	(76.5630)		
CLN6		Carlsbad	32 31 15.0 N	103 52 45.0 W	1100.0	SNM
		New Mexico, U.S.A.	(32.5208)	(103.8792)		
		SNM code CL6.				
CLNB		Carlsbad	32 15 51.6 N	103 52 42.6 W	1045.0	SNM
		New Mexico, U.S.A.	(32.2643)	(103.8785)		
		SNM code CL2B.				

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Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
CLTN	F	G.S.C. Charlevoix Local Telemetered Network				
CMB	D	Columbia College	38 02 06.0 N (38.0350)	120 23 06.0 W (120.3850)	719.0	BRK DWSS USTN
		Tuolumne County, California, U.S.A. opened 19861106. MNLO code CMBB.				
CMCZ		Cairnmuir Mts.	45 08 57.0 S (45.1492)	169 16 30.0 E (169.2750)	1039.0	WELC
		South Island, New Zealand				
CME	R	Menerdue Farm	50 10 33.6 N (50.1760)	5 11 25.1 W (5.1903)	178.0	BGS
		England, United Kingdom opened 1982.				
CMEN		Mentor	41 41 02.4 N (41.6840)	81 24 14.4 W (81.4040)	188.0	CLE
		Ohio, U.S.A.				
CMG2		Lo Cumbre 2	14 39 39.0 N (14.6608)	89 47 12.0 W (89.7867)	1710.0	GCG
		Guatemala opened 1988. GCG code CM2.				
CMX		(Alternate Abbreviation for COLM)				
CNBA		Chernabura Island	54 49 13.2 N (54.8203)	159 35 18.0 W (159.5883)	90.0	PAL
		Alaska Peninsula, Alaska, U.S.A. PAL code CNB.				
CNCI	R	Crows Nest Canyon	...	...	...	USGS
		Idaho, U.S.A.				
CNIL		Conil	36 22 10.2 N (36.3695)	6 03 06.6 W (6.0518)	80.0	SFS
		Spain Also sent to NEIS by MDD.				
CNS		Constantine	36 22 12.0 N (36.3700)	6 36 45.0 E (6.6125)	670.0	ALG
		Algeria opened 19870907.				
COAS		Cootepeque	13 53 12.0 N (13.8867)	89 34 19.0 W (89.5719)	1260.0	SSS
		El Salvador SSS code COA.				
COLF		Collangettes	45 31 04.3 N (45.5179)	3 41 42.4 E (3.6951)	725.0	STR
		Auvergne, France				
COLM		Colima	19 10 51.0 N (19.1808)	103 41 27.5 W (103.6910)	779.3	UNM
		Colima, Mexico opened 1986. UNM code COL.				
COLW		Colter Canyon	43 57 14.2 N (43.9539)	110 41 45.6 W (110.6960)	2079.0	USBR
		Wyoming, U.S.A. opened 198601.				
COM2	R	Comitan 2	16 14 30.0 N (16.2417)	92 08 13.8 W (92.1372)	...	UNM
		Chiapas, Mexico				
COMI	R	Craters of the Moon	...	...	...	USGS
		Idaho, U.S.A.				
COOL		Coolgardie	30 53 01.8 S (30.8838)	121 08 40.8 E (121.1447)	500.0	AUST
		Western Australia, Australia opened 198808.				
COTA		Cotacachi	0 20 06.0 N (0.3350)	78 20 16.2 W (78.3378)	4020.0	QUI
		Ecuador opened 198809.				
CPO5		(Alternate Abbreviation for CPOT)				
CPS	R	Cap Spartel	35 47 23.0 N (35.7897)	5 34 32.0 W (5.5756)	...	CNRM
		Morocco				
CPY		CP-1	36 55 43.8 N (36.9288)	116 03 31.8 W (116.0588)	1368.0	USGS
		Nevada, U.S.A. opened 19910114.				
CPZ	R	Penzance	50 09 21.6 N (50.1560)	5 35 00.6 W (5.5835)	198.0	BGS
		England, United Kingdom opened 1981.				
CRBI		Circular Butte	43 49 49.2 N (43.8303)	112 38 04.2 W (112.6345)	1543.0	USGS
		Idaho, U.S.A. opened 198711.				
CRNM		Carthage	33 57 09.0 N (33.9525)	106 44 04.2 W (106.7345)	1662.0	SNM
		New Mexico, U.S.A. SNM code CAR.				
CROR		Criterion Ridge	44 58 58.2 N (44.9828)	120 59 17.4 W (120.9882)	1015.0	SEA
		Oregon, U.S.A. opened 198708. SEA code VCR.				
CRQ2	R	Rosemanowes 2	50 10 00.8 N (50.1669)	5 10 07.3 W (5.1687)	152.0	BGS
		England, United Kingdom opened 1981.				
CRQM		Cirque	60 45 24.0 N (60.7567)	143 08 21.0 W (143.1392)	1853.0	AGS
		Central Alaska, Alaska, U.S.A. opened 19880701. AGS code CRQ.				
CRZF	D	Crozet Islands	46 25 46.7 S (46.4296)	51 51 40.4 E (51.8612)	140.0	STR GEOS
		Crozet Islands opened 19860201.				
CSO	D	Cosso	46 16 24.0 N (46.2733)	12 19 26.0 E (12.3239)	1070.0	TRI
		Friuli-Venezia Giulia, Italy opened 19880101.				
CSTJ			31 07 12.0 N (31.1200)	36 40 19.2 E (36.6720)	760.0	JSO
		Jordan opened 199003.				
CSY		Casey Station	66 17 21.8 S (66.2894)	110 31 44.0 E (110.5289)	56.0	AUST
		Greater Antarctica, Antarctica				
CSZ	D	Casera Razza	46 28 23.0 N (46.4731)	12 37 02.0 E (12.6172)	1825.0	TRI
		Friuli-Venezia Giulia, Italy opened 19880101.				
CTAS	R	Couto	13 44 56.0 N (13.7489)	89 51 55.0 W (89.8653)	355.0	SSS
		El Salvador SSS code CTA.				
CTB		Cotabato	7 12 .. N (7.2000)	124 12 .. E (124.2000)	...	MAN
		Mindanao, Philippines				

Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
CTFE		Tenerife--Las Mesas Canary Islands, Spain opened 198301.	28 28 46.4 N (28.4796)	16 15 43.7 W (16.2621)	270.0	MDD
CTHA		Thorn Acres Ohio, U.S.A.	41 32 31.8 N (41.5422)	81 06 39.0 W (81.1108)	362.0	CLE
CTOM		Thompson Ohio, U.S.A.	41 41 30.0 N (41.6917)	81 08 50.4 W (81.1473)	387.0	CLE
CTRI	R	Great Rift Idaho, U.S.A.	...	...	...	USGS
CUMC		Nevado de Cumbol Colombia opened 1989.	0 57 38.4 N (0.9607)	77 52 20.4 W (77.8723)	3950.0	UVC
CUPM		Cuyaoca Puebla, Mexico UNM code CUP.	19 36 13.0 N (19.6036)	97 37 07.0 W (97.6186)	2450.0	UNM
CUSS		Cusmapa El Salvador SSS code CUS.	13 54 33.0 N (13.9092)	89 56 50.0 W (89.9472)	678.0	SSS
CUT		Chulitna Central Alaska, Alaska, U.S.A. opened 19860718.	62 24 16.8 N (62.4047)	150 16 10.2 W (150.2695)	168.0	GIA
CVLO	R	Collinsville Queensland, Australia opened 19850430. QDM code CVL.	20 35 24.0 S (20.5900)	147 36 32.4 E (147.6090)	102.0	QDM
CVM	R	Colonia del Valle Distrito Federal, Mexico	19 22 55.7 N (19.3821)	99 10 42.5 W (99.1785)	...	UNM
CVT		Castelvetrano Sicilia, Italy	37 40 40.8 N (37.6780)	12 47 31.2 E (12.7920)	...	ERC
CVVD		Valverde--Aguarija Canary Islands, Spain opened 198502.	27 49 15.0 N (27.8208)	17 56 10.0 W (17.9361)	450.0	MDD
CWZ		Cowlitz River Washington, U.S.A. opened 198003. SEA code COW.	46 29 27.6 N (46.4910)	122 00 43.6 W (122.0121)	305.0	SEA
CXP		..... Puebla, Mexico	18 16 31.4 N (18.2754)	97 08 30.3 W (97.1418)	...	UNM
CYK		Cape Yakataga Central Alaska, Alaska, U.S.A. opened 1989.	60 04 58.8 N (60.0830)	142 29 04.8 W (142.4847)	3.0	AGS
CZM		Crazy Man Mountain Washington, U.S.A. opened 198004. SEA code CMM.	46 26 07.0 N (46.4353)	122 30 21.0 W (122.5058)	620.0	SEA
DAQ		Lac Daran Quebec, Canada opened 19881215.	47 57 52.0 N (47.9644)	71 14 33.0 W (71.2425)	939.0	ECTN
DBCT		Belle View Chopil Dominica opened 198912.	15 16 10.6 N (15.2696)	61 21 12.2 W (61.3534)	527.0	TRN
DBO		Dodson Butte Oregon, U.S.A. opened 199008.	43 07 09.0 N (43.1192)	123 14 34.0 W (123.2428)	984.0	SEA
DBV	R	Dien Bien Phu Vietnam	21 23 24.0 N (21.3900)	103 01 30.0 E (103.0250)	1050.0	PLV
DBVM	R	Das Bocos Veracruz, Mexico	...	...	...	UNM
DBY	C	Dobravo Slovenija, Yugoslavia 19890814-19890817.	45 59 56.4 N (45.9990)	13 31 40.8 E (13.5280)	100.0	LJU
DCO	R	Combe Farm England, United Kingdom opened 1982.	50 19 12.0 N (50.3200)	3 52 20.6 W (3.8724)	410.0	BGS
DCP		Dickinson College Pennsylvania, U.S.A. opened 19900114.	40 12 14.4 N (40.2040)	77 11 49.2 W (77.1970)	143.0	
DCZ	RD	Deep Cove South Island, New Zealand opened 19910528.	45 28 42.0 S (45.4783)	167 09 15.0 E (167.1542)	10.0	WEL
DEG		La Desirade Guadeloupe opened 198803.	16 18 47.5 N (16.3132)	61 03 35.3 W (61.0598)	575.0	FDF
DEK		DeKalb Illinois, U.S.A. opened 198701.	41 55 59.2 N (41.9331)	88 45 54.0 W (88.7650)	259.0	
DFR		Drift River Western Alaska, Alaska, U.S.A. opened 19880815.	60 35 31.2 N (60.5920)	152 41 10.2 W (152.6862)	1097.0	AGS
DGBT		Grand Bay Dominica	15 14 20.4 N (15.2390)	61 19 44.4 W (61.3290)	70.0	TRN
DHJN		Dhoran Janab Saudi Arabia opened 19900613.	17 39 36.0 N (17.6600)	43 29 20.4 E (43.4890)	2400.0	RYD
DHLJ		Dahl Jordan	30 49 12.0 N (30.8200)	35 24 07.2 E (35.4020)	-80.0	JSO
DHW2		Dyer Hill 2 Washington, U.S.A. opened 198506. SEA code DY2.	47 59 06.9 N (47.9853)	119 46 13.0 W (119.7703)	884.0	SEA
DIAC		La Diana Colombia opened 1987.	3 17 28.8 N (3.2913)	76 11 50.4 W (76.1973)	1520.0	UVC

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DIW	D	D'Urville Island South Island, New Zealand opened 199006.	40 48 08.0 S (40.8022)	173 55 19.0 E (173.9219)	460.0	WELW
DJE		Delta Juntion East Central Alaska, Aloska, U.S.A. opened 19900607.	64 01 40.8 N (64.0280)	145 40 45.0 W (145.6792)	378.0	GIA
DKH	R	Dar Khorkhour Moracco	35 29 31.0 N (35.4919)	5 21 39.0 W (5.3608)	...	CNRM
DLBQ	RD	Dalbeg Queensland, Australia opened 19840409. ODM code DLB.	20 09 03.6 S (20.1510)	147 15 50.4 E (147.2640)	70.0	ODM
DLF		Lyons Farm Eire opened 199104.	53 17 45.0 N (53.2958)	6 31 53.0 W (6.5314)	96.0	DIAS
DLG		Dolgoi Island Alaska Peninsula, Alaska, U.S.A.	55 08 27.6 N (55.1410)	161 50 09.0 W (161.8358)	367.0	PAL
DMMT	C	Dalton Mountain Montana, U.S.A. opened 19871119.	46 51 44.4 N (46.8623)	112 42 52.8 W (112.7147)	2039.0	BUT
DMS		Dublin Merrian Square Eire opened 199011.	53 20 26.0 N (53.3406)	6 14 55.0 W (6.2486)	5.0	DIAS
DMW	C	Delta Microwave Central Alaska, Alaska, U.S.A. opened 1986.	64 03 22.8 N (64.0563)	145 43 52.2 W (145.7312)	346.0	GIA
DNGQ	RD	Doongara Queensland, Australio opened 19840229. ODM code DNG.	20 33 18.0 S (20.5550)	146 28 30.0 E (146.4750)	280.0	ODM
DOI	D	San Damiano Macra Piemante, Italy	44 30 12.8 N (44.5036)	7 14 43.4 E (7.2454)	1015.0	ROM
DOMF		Dompierre-sur-Helpe Nord-Pas-de-Calais, France	50 07 43.7 N (50.1288)	3 51 39.6 E (3.8610)	145.0	
DOT		Dot Lake Central Alaska, Alaska, U.S.A. opened 1986.	63 38 55.2 N (63.6487)	144 03 45.0 W (144.0625)	671.0	GIA
DPI		Dunn Peak Idaho, U.S.A. opened 198710.	47 17 19.2 N (47.2887)	116 53 55.8 W (116.8988)	1709.0	
DPMT		Pointe Michel Dominica	15 15 32.4 N (15.2590)	61 23 06.0 W (61.3850)	50.0	TRN
DPQ		Saint-Jean-des-Piles Quebec, Canada	46 40 49.8 N (46.6805)	72 46 38.4 W (72.7773)	167.0	ECTN
DPW	D	Davenport Washington, U.S.A. opened 198611. USTN opened 1988.	47 52 14.3 N (47.8706)	118 12 10.2 W (118.2028)	892.0	SEA USTN
DR01		Juana Nunez Dominican Republic	19 18 36.6 N (19.3102)	70 41 48.6 W (70.6968)	...	SDD
DR02	R	Janica Daminican Republic SDD code DR2.	19 21 06.6 N (19.3518)	70 46 31.2 W (70.7753)	...	SDD
DR03		Pinalito Dominican Republic	19 16 21.0 N (19.2725)	70 46 07.8 W (70.7688)	...	SDD
DR04		Monte Llana Dominican Republic	19 27 55.8 N (19.4655)	70 21 28.2 W (70.3578)	...	SDD
DR05		La Lamata Dominican Republic	19 37 59.4 N (19.6332)	70 51 34.8 W (70.8597)	...	SDD
DR06		La Diferencia Dominican Republic	19 13 58.2 N (19.2328)	70 59 29.4 W (70.9915)	...	SDD
DR07	R	Jarabacoa Daminican Republic SDD code DR7.	19 04 59.4 N (19.0832)	70 36 18.6 W (70.6052)	...	SDD
DR08		Loma La Naviza Dominican Republic SDD code NAVI.	18 57 28.8 N (18.9580)	70 01 50.4 W (70.0307)	...	SDD
DR09	R	Piedra Blanca Dominican Republic SDD code DR9.	18 48 40.8 N (18.8113)	70 24 59.6 W (70.4166)	...	SDD
DR1		(Alternate Abbreviation for DR01)				
DR10	R	Alto de la Bandera Daminican Republic	18 48 29.4 N (18.8082)	70 41 16.2 W (70.6878)	...	SDD
DR11	R	La Yayitas Dominican Republic	18 28 13.8 N (18.4705)	70 14 04.2 W (70.2345)	...	SDD
DR12		Lama Yerba Buena Dominican Republic	18 47 15.0 N (18.7875)	69 22 52.2 W (69.3812)	...	SDD
DR13	R	Sanchez Daminicon Republic	19 14 25.8 N (19.2405)	69 35 19.2 W (69.5887)	...	SDD
DR14	R	Sierra Prieta Daminican Republic	18 38 40.8 N (18.6447)	70 00 28.2 W (70.0078)	...	SDD
DR15	R	Siete Picos Dominican Republic	18 45 01.2 N (18.7503)	70 10 38.4 W (70.1773)	...	SDD
DR3		(Alternate Abbreviation for DR03)				
DR4		(Alternate Abbreviation for DR04)				
DR5		(Alternate Abbreviation for DR05)				
DR6		(Alternate Abbreviation for DR06)				
DR8		(Alternate Abbreviation for DR08)				
DRE	D	Drenchia Friuli-Venezia Giulia, Italy opened 19821220.	46 10 24.0 N (46.1733)	13 38 36.0 E (13.6433)	810.0	TRI

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DRRA		Deer Island Alaska Peninsula, Alaska, U.S.A. PAL code DRR.	54 55 24.6 N (54.9235)	162 16 59.4 W (162.2832)	380.0	PAL
DRTN		Dyersburg Tennessee, U.S.A. opened 19890808.	36 08 13.2 N (36.1370)	89 21 54.0 W (89.3650)	137.0	TEIC
DSC		Scotts Head Dominica	15 12 30.3 N (15.2084)	61 21 54.6 W (61.3652)	50.0	TRN
DSD2	R	Dead Sea Dam 2 Israel	31 10 48.0 N (31.1800)	35 26 24.0 E (35.4400)	-390.0	JER
DSI		Dead Sea--Maunt Hatzatzan Israel opened 19860717.	31 34 12.0 N (31.5700)	35 22 48.0 E (35.3800)	200.0	JER
DSIT	F	DSI--State Water Works Division, Ankara, Turkey				
DSVT		Soufriere Village Dominica	15 13 44.4 N (15.2290)	61 22 12.0 W (61.3700)	5.0	TRN
DSZ		Denniston North South Island, New Zealand opened 19900219.	41 44 49.0 S (41.7469)	171 48 09.0 E (171.8025)	630.0	WEL
DTMT		Tete Morne Dominica	15 13 58.8 N (15.2330)	61 21 07.2 W (61.3520)	496.0	TRN
DUT		Dutch Harbor Aleution Islands, Alaska, U.S.A.	53 53 54.0 N (53.8983)	166 32 12.0 W (166.5367)	60.0	GIA
DVD		David Panama opened 198606.	8 26 09.0 N (8.4358)	82 27 02.0 W (82.4506)	20.0	UPA
DWK		... Meghalaya, India	25 11 12.0 N (25.1867)	92 01 21.6 E (92.0227)	...	JHI
DYA	R	Yadsworthy England, United Kingdom opened 1982.	50 26 06.7 N (50.4352)	3 55 51.2 W (3.9309)	280.0	BGS
EALH		Alhama de Murcia Spain opened 198601.	37 51 29.0 N (37.8581)	1 25 11.0 W (1.4197)	294.0	MDD
EAP	F	(phase code designation)				
EAPC	F	(phase code designation)				
EAPD	F	(phase code designation)				
EBAN		Banos de la Encina Spain opened 198611.	38 09 51.6 N (38.1643)	3 47 08.4 W (3.7857)	460.0	MDD
EBG		Ellensburg Washington, U.S.A. SEA code ELL.	46 54 35.0 N (46.9097)	120 34 06.0 W (120.5683)	805.0	SEA
EBI		Elk Butte Idaho, U.S.A. opened 1987.	46 50 15.0 N (46.8375)	116 07 06.0 W (116.1183)	1765.0	
ECHE		Chera Spain opened 198611.	39 35 27.0 N (39.5908)	0 58 04.0 W (0.9678)	643.0	MDD
ECO		Colon Panama opened 19901017.	9 21 49.7 N (9.3638)	79 41 37.3 W (79.6937)	468.0	UPA
ECOG		Cogollos-Vega Spain opened 19900613.	37 16 37.9 N (37.2772)	3 33 58.9 W (3.5664)	1176.0	MDD
ECRI		Cripan Spain opened 198610.	42 36 32.0 N (42.6089)	2 30 36.0 W (2.5100)	807.0	MDD
EDR	D	Drumtochty Scotland, United Kingdom opened 19890112.	56 55 08.2 N (56.9189)	2 32 20.9 W (2.5391)	388.0	BGS
EGD		Espegrend Norway opened 199103.	60 16 16.2 N (60.2712)	5 13 32.4 E (5.2257)	20.0	BER
EGRA	D	Grous Spain opened 19901212.	42 11 42.7 N (42.1952)	0 18 57.4 W (0.3159)	...	MDD
EGUA	D	Guojares Spain opened 19910110.	36 50 01.4 N (36.8337)	3 33 55.5 W (3.5654)	386.0	MDD
EHUE	D	Huescar Spain opened 19901113.	37 48 53.2 N (37.8148)	2 35 33.6 W (2.5927)	980.0	MDD
EJC	R	Estacion Juarez Chiapas, Mexico	17 36 16.0 N (17.6044)	93 11 44.0 W (93.1956)	...	UNM
EJIF		Jimena de la Frontera Spain opened 19880520.	36 27 04.8 N (36.4513)	5 28 07.8 W (5.4688)	260.0	MDD
EJIM	C	Jimena de la Frontera Spain 198704-19880519.	36 27 05.0 N (36.4514)	5 28 08.0 W (5.4689)	260.0	MDD
EKB	RD	Eskdalemuir Scotland, United Kingdom	55 20 15.0 N (55.3375)	3 10 38.0 W (3.1772)	356.0	BKN
EKC		Ekona Cameroon opened 19841201.	4 12 36.0 N (4.2100)	9 19 37.2 E (9.3270)	450.0	YND
EKR		Elk River Humboldt County, California, U.S.A. opened 19740620; BRK opened 1986. MNLO code EKRT.	40 41 43.2 N (40.6953)	124 08 22.2 W (124.1395)	49.0	BRK

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Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
ELMO		Cerro Morro Venezuela opened 1984.	8 00 46.8 N (8.0130)	71 43 00.8 W (71.7169)	2100.0	CAR
ELPA		Filo Paraiso Venezuela opened 1984.	7 47 30.1 N (7.7917)	71 43 31.1 W (71.7253)	1285.0	CAR
ELYF		Eloudy Aquitaine, France opened 198502?	43 10 12.0 N (43.1700)	0 59 30.0 W (0.9917)	700.0	PAR
EMEL		Melilla Ceuta and Melilla, Spain opened 198802.	35 18 00.0 N (35.3000)	2 57 24.0 W (2.9567)	85.0	MDD
EMI	R	Eightmile Canyon Idaho, U.S.A.	...	...	...	USGS
EMN		Eldorado Mountains Nevada, U.S.A. opened 19880811.	35 55 17.9 N (35.9216)	114 45 15.2 W (114.7542)	789.5	USGS
EMON		Mondonedo Spain opened 198807.	43 26 10.0 N (43.4361)	7 19 47.4 W (7.3298)	615.0	MDD
EMUT		Emma Park Carbon County, Utah, U.S.A.	39 48 50.4 N (39.8140)	110 48 55.2 W (110.8153)	2268.0	SLC
ENH	D	Enshi Hubei, China (Mainland) opened 1987.	30 16 18.5 N (30.2718)	109 29 12.5 E (109.4868)	...	BJI
ENR		Entracque Piemonte, Italy	44 13 35.8 N (44.2266)	7 25 13.1 E (7.4203)	1040.0	GEN
ENSF		Ens Midi-Pyrenees, France	42 48 17.0 N (42.8047)	0 20 08.0 E (0.3356)	1300.0	STR
EPBC	F	(phase code designation)				
EPBD	F	(phase code designation)				
EPCP	F	(phase code designation)				
EPCR	F	(phase code designation)				
EPCS	F	(phase code designation)				
EPCU	F	(phase code designation)				
EPDR	F	(phase code designation)				
EPDU	F	(phase code designation)				
EPGC	F	(phase code designation)				
EPGD	F	(phase code designation)				
EPH		Ephrata Washington, U.S.A. opened 198303.	47 21 12.8 N (47.3536)	119 35 46.2 W (119.5962)	628.0	SEA
EPKP	F	(phase code designation)				
EPKS	F	(phase code designation)				
EPM		Echo Peak Nevada, U.S.A. opened 19900918.	37 13 34.2 N (37.2262)	116 20 04.8 W (116.3347)	2408.0	USGS
EPNC	F	(phase code designation)				
EPND	F	(phase code designation)				
EPP	F	(phase code designation)				
EPPP	F	(phase code designation)				
EPPS	F	(phase code designation)				
EPRU		Pruna Spain opened 198611.	36 57 57.6 N (36.9660)	5 13 52.8 W (5.2313)	560.0	MDD
EPS	F	(phase code designation)				
EPSS	*F	(phase code designation)				
ERK		Elk Rock Washington, U.S.A. opened 198005. SEA code ELK.	46 18 20.0 N (46.3056)	122 20 27.0 W (122.3408)	1270.0	SEA
EROQ		Roquetas del Mar Spain opened 198702.	40 49 23.4 N (40.8232)	0 24 31.8 E (0.4088)	284.0	MDD
ERT	C	Erto Friuli-Venezia Giulia, Italy 19821124-19880101.	46 16 36.0 N (46.2767)	12 22 36.0 E (12.3767)	775.0	TRI
ERUA		La Rua Spain opened 198705.	42 23 33.6 N (42.3927)	7 08 33.0 W (7.1425)	431.0	MDD
ERZT		Erzurum Turkey	39 54 24.1 N (39.9067)	41 15 11.9 E (41.2533)	1955.0	MTAT
ES01	RD	SONSECA Array Site 01 Spain opened 19890731.	39 40 12.9 N (39.6702)	3 56 50.9 W (3.9475)	743.8	MDD
ES02	RD	SONSECA Array Site 02 Spain opened 19890731.	39 40 37.5 N (39.6771)	3 56 07.7 W (3.9355)	734.5	MDD
ES03	RD	SONSECA Array Site 03 Spain opened 19890731.	39 39 58.8 N (39.6663)	3 56 00.3 W (3.9334)	732.6	MDD
ES04	RD	SONSECA Array Site 04 Spain opened 19890731.	39 39 20.7 N (39.6558)	3 56 32.2 W (3.9423)	740.9	MDD
ES05	RD	SONSECA Array Site 05 Spain opened 19890731.	39 39 44.6 N (39.6624)	3 57 32.3 W (3.9590)	763.0	MDD
ES06	RD	SONSECA Array Site 06 Spain opened 19890731.	39 40 32.6 N (39.6757)	3 57 07.6 W (3.9521)	745.8	MDD

Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
ES07	RD	SONSECA Array Site 07	39 41 14.3 N	3 57 06.8 W	734.5	MDD
		Spain	(39.6873)	(3.9519)		
		opened 19890731.				
ES08	RD	SONSECA Array Site 08	39 41 32.4 N	3 55 30.2 W	721.5	MDD
		Spain	(39.6923)	(3.9251)		
		opened 19890731.				
ES09	RD	SONSECA Array Site 09	39 40 41.1 N	3 53 58.5 W	753.1	MDD
		Spain	(39.6781)	(3.8996)		
		opened 19890731.				
ES10	RD	SONSECA Array Site 10	39 39 28.7 N	3 54 09.2 W	758.2	MDD
		Spain	(39.6580)	(3.9025)		
		opened 19890731.				
ES11	RD	SONSECA Array Site 11	39 38 55.2 N	3 55 12.0 W	758.2	MDD
		Spain	(39.6487)	(3.9200)		
		opened 19890731.				
ES12	RD	SONSECA Array Site 12	39 38 19.4 N	3 56 34.3 W	761.1	MDD
		Spain	(39.6387)	(3.9429)		
		opened 19890731.				
ES13	RD	SONSECA Array Site 13	39 39 00.2 N	3 57 57.7 W	762.5	MDD
		Spain	(39.6501)	(3.9660)		
		opened 19890731.				
ES14	RD	SONSECA Array Site 14	39 39 06.6 N	3 59 18.7 W	779.7	MDD
		Spain	(39.6518)	(3.9885)		
		opened 19890731.				
ES15	RD	SONSECA Array Site 15	39 39 51.0 N	4 00 01.4 W	776.1	MDD
		Spain	(39.6642)	(4.0004)		
		opened 19890731.				
ES16	RD	SONSECA Array Site 16	39 41 12.5 N	3 59 39.6 W	775.4	MDD
		Spain	(39.6868)	(3.9943)		
		opened 19890731.				
ES17	RD	SONSECA Array Site 17	39 42 01.3 N	3 58 21.9 W	766.6	MDD
		Spain	(39.7004)	(3.9728)		
		opened 19890731.				
ES18	RD	SONSECA Array Site 18	39 42 36.6 N	3 56 57.5 W	750.1	MDD
		Spain	(39.7102)	(3.9493)		
		opened 19890731.				
ES19	RD	SONSECA Array Site 19	39 42 02.3 N	3 53 56.8 W	720.8	MDD
		Spain	(39.7006)	(3.8991)		
		opened 19890731.				
ESCP	F	(phase code designation)				
ESCS	F	(phase code designation)				
ESD		East Dome	46 11 50.4 N	122 09 00.0 W	1609.0	SEA
		Washington, U.S.A.	(46.1973)	(122.1500)		
		opened 198006. SEA code EDM.				
ESEL		Selva	39 46 05.4 N	2 53 39.6 E	231.0	MDD
		Balearic Islands, Spain	(39.7682)	(2.8943)		
		opened 198807.				
ESKP	F	(phase code designation)				
ESKS	F	(phase code designation)				
ESLA	RD	SONSECA Array	39 40 27.3 N	3 57 47.3 W	752.0	MDD
		Spain	(39.6742)	(3.9631)		
		opened 19890731.				
ESPP	F	(phase code designation)				
ESSP	F	(phase code designation)				
ESSS	F	(phase code designation)				
ET2		Eltopia	46 32 06.0 N	118 57 01.2 W	330.0	SEA
		Washington, U.S.A.	(46.5350)	(118.9503)		
		opened 19890405.				
ET3		Eltopia	46 34 37.0 N	118 56 11.0 W	305.0	SEA
		Washington, U.S.A.	(46.5769)	(118.9364)		
		opened 19900912.				
ETER		Terrodas	42 18 05.4 N	2 51 19.8 E	238.0	MDD
		Spain	(42.3015)	(2.8555)		
		opened 198803.				
ETOR		Torete	40 49 10.0 N	2 03 18.6 W	1018.0	MDD
		Spain	(40.8194)	(2.0552)		
		opened 198803.				
ETW		Entiot	47 36 16.2 N	120 19 51.6 W	1475.0	SEA
		Washington, U.S.A.	(47.6045)	(120.3310)		
		opened 198610.				
EVIA		Vionos	38 38 19.0 N	2 30 09.0 W	1110.0	MDD
		Spain	(38.6386)	(2.5025)		
		opened 198511.				
EVR		Evritonia	38 55 00.0 N	21 48 31.2 E	1050.0	ATH
		Greece	(38.9167)	(21.8087)		
		opened 198906.				
EVV		El Vigia	18 27 23.4 N	95 20 57.6 W	...	UNM
		Veracruz, Mexico	(18.4565)	(95.3493)		
		opened 1988.				
EWZ		Erewhon	43 30 42.0 S	170 51 09.0 E	...	WEL
		South Island, New Zealand	(43.5117)	(170.8525)		
		opened 19910321.				
EXP	F	(phase code designation)				
EXPC	F	(phase code designation)				
EXPD	F	(phase code designation)				
EXS	F	(phase code designation)				
EYL		Eskiyaylo	40 33 57.6 N	30 09 27.0 E	1160.0	ISK
		Bangladesh	(40.5660)	(30.1575)		
		opened 199001.				

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EZAM		Zomons Spain opened 198612.	42 08 56.4 N (42.1490)	8 41 42.0 W (8.6950)	398.0	MDD
FAM		Fomogusta Cyprus opened 198702.	34 59 46.0 N (34.9961)	34 00 07.0 E (34.0019)	68.0	CSS
FARM	R	 Verocruz, Mexico IIM code FAR.	19 37 33.6 N (19.6260)	96 23 34.8 W (96.3930)	...	IIM
FAU	R	Forcella Aurine Veneto, Italy	...	...	...	TRI
FDKY		Freedom Kentucky, U.S.A. opened 19870327.	36 47 24.0 N (36.7900)	85 47 39.0 W (85.7942)	306.0	TVA
FG2		Serracopriola Puglio, Italy Sent to NEIS by ROM.	41 48 13.0 N (41.8036)	15 10 17.0 E (15.1714)	200.0	FOG
FG3		Monte Sant'Angelo Puglia, Italy Sent to NEIS by ROM.	41 42 02.5 N (41.7007)	15 57 01.0 E (15.9503)	830.0	FOG
FG4		Candela Puglia, Italy Sent to NEIS by ROM.	41 08 05.0 N (41.1347)	15 31 14.0 E (15.5206)	450.0	FOG
FG5		Orsara di Puglia Puglia, Italy Sent to NEIS by ROM.	41 16 56.0 N (41.2822)	15 16 09.0 E (15.2692)	...	FOG
FGO2		Fuego 2 Guatemala opened 198611? GCG code FG2.	14 26 19.2 N (14.4387)	90 50 09.0 W (90.8358)	1335.0	GCG
FGTQ	R	Fig Tree Queensland, Australia opened 19870803. QDM code FGT.	20 58 12.4 S (20.9701)	147 46 35.4 E (147.7765)	220.0	QDM
FIA0	R	FINESA Array Site A0 Finland	61 26 39.8 N (61.4444)	26 04 45.5 E (26.0793)	...	HEL
FIA1	R	FINESA Array Site A1 Finland opened 199006.	...	...	...	HEL
FIA2	R	FINESA Array Site A2 Finland	...	...	...	HEL
FIA3	R	FINESA Array Site A3 Finland	...	...	...	HEL
FIB0	R	FINESA Array Site B0 Finland	...	...	...	HEL
FIB1	R	FINESA Array Site B1 Finland	...	...	...	HEL
FIB2	R	FINESA Array Site B2 Finland	...	...	...	HEL
FIB3	R	FINESA Array Site B3 Finland	...	...	...	HEL
FIC0	R	FINESA Array Site C0 Finland	...	...	...	HEL
FIC1	R	FINESA Array Site C1 Finland	...	...	...	HEL
FIC2	R	FINESA Array Site C2 Finland	...	...	...	HEL
FIC3	R	FINESA Array Site C3 Finland	...	...	...	HEL
FID0	R	FINESA Array Site D0 Finland	...	...	...	HEL
FID1	R	FINESA Array Site D1 Finland	...	...	...	HEL
FID2	R	FINESA Array Site D2 Finland	...	...	...	HEL
FID3	R	FINESA Array Site D3 Finland	...	...	...	HEL
FIG		Monte Figa Portugal opened 19840330.	37 06 02.0 N (37.1006)	7 49 42.0 W (7.8283)	310.0	INMG
FIN		Finale Ligure Liguria, Italy	44 12 33.0 N (44.2092)	8 12 30.0 E (8.2083)	590.0	GEN
FIPE		Filo de Piedra Venezuela opened 1984.	7 58 10.9 N (7.9697)	71 15 04.0 W (71.2511)	600.0	CAR
FISA		Filo de Sacuragua Venezuela opened 198612.	11 15 53.3 N (11.2648)	69 20 00.0 W (69.3333)	600.0	CAR
FITZ	R	Fitzroy Crossing Western Australia, Australia	18 06 54.0 S (18.1150)	125 38 21.6 E (125.6393)	...	AUST
FKBC		Forrest Kerr British Columbia, Canada opened 19891010.	56 47 05.0 N (56.7847)	130 37 05.0 W (130.6181)	1175.0	OTTR
FKO		Franklin Oklahoma, U.S.A. opened 1987.	35 15 40.7 N (35.2613)	97 23 10.0 W (97.3861)	351.0	TUL
FL2		Flat Top 2 Washington, U.S.A.	46 11 47.0 N (46.1964)	122 21 01.0 W (122.3503)	1378.0	SEA
FLKY		Flemingsburg Kentucky, U.S.A. opened 19890215.	38 25 33.6 N (38.4260)	83 45 03.6 W (83.7510)	280.0	BHKY

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FLOM	R	Florido	17 13 31.8 N	100 23 19.2 W	840.0	UNM
		Guerrero, Mexico	(17.2255)	(100.3887)		
FMKY		Fulghom (Clinton)	36 39 50.4 N	88 54 32.4 W	152.0	BHKY
		Kentucky, U.S.A.	(36.6640)	(88.9090)		
		opened 19861030.				
FNA		Florino	40 47 01.8 N	21 22 34.2 E	750.0	THE
		Greece	(40.7838)	(21.3762)		
		opened 198912.				
FONT		Fontmortino	41 45 42.0 N	2 26 00.0 E	...	
		Spoin	(41.7617)	(2.4333)		
		Sent to NEIS by MDD.				
FORR		Forrest	30 51 .. S	128 06 .. E	...	AUST
		Western Austrolia, Austrolio	(30.8500)	(128.1000)		
		opened 1988.				
FOXC	R	Fox Airport	34 43 58.8 N	118 13 50.4 W	716.0	PAS
		Los Angeles County, Californio, U.S.A.	(34.7330)	(118.2307)		
		opened 198103. PAS code FOX.				
FRS		Fouresmith	29 45 00.0 S	25 19 18.0 E	...	PRE
		Orange Free State, South Africa	(29.7500)	(25.3217)		
		opened 1985.				
FSI		Fosdinovo	44 07 34.0 N	10 01 31.0 E	...	ROM
		Toscono, Itoly	(44.1261)	(10.0253)		
FSP	C	Folse Poss	54 57 12.0 N	163 27 24.0 W	200.0	PAL
		Alosko Peninsula, Alosko, U.S.A.	(54.9533)	(163.4567)		
		closed 199007.				
FST	C	Fort Simpson	61 50 24.0 N	121 16 30.0 W	175.0	OTTR
		Northwest Territories, Conodo	(61.8400)	(121.2750)		
		19860109-19870331.				
FST1	C	Fort Simpson	61 47 09.0 N	121 15 32.0 W	175.0	OTTR
		Northwest Territories, Conoda	(61.7858)	(121.2589)		
		19851006-19860109. Temporary station,				
		reploced by FST.				
FUG		Fuego 3	14 26 52.2 N	90 50 31.2 W	1505.0	GCG
		Guotemalo	(14.4478)	(90.8420)		
		opened 198703.				
FVI	D	Forni Avoltri	46 35 35.7 N	12 46 51.3 E	...	ROM
		Friuli-Venezio Giulio, Italy	(46.5932)	(12.7809)		
GALE		Golera	0 49 16.8 N	80 00 48.0 W	25.0	OUI
		Ecuodor	(0.8213)	(80.0133)		
		opened 19911103.				
GAM	R	Garm	...	...	...	
		Tojikistan				
GANF		Gonogobie	43 59 51.3 N	5 54 31.2 E	650.0	STR
		Provence-Cote d'Azur, France	(43.9976)	(5.9087)		
GAZ		Goziantep	37 10 19.7 N	37 12 40.8 E	100.0	ISK
		Turkey	(37.1721)	(37.2113)		
		opened 198907.				
GBZT		Gebze	40 47 20.0 N	29 26 42.0 E	184.0	
		Turkey	(40.7889)	(29.4450)		
GCAZ		Grond Conyon	36 02 38.4 N	112 07 40.8 W	...	FLAG
		Arizona, U.S.A.	(36.0440)	(112.1280)		
		opened 1987.				
GCD	R	Costle Douglas	54 51 49.7 N	3 56 30.1 W	189.0	BGS
		Scotland, United Kingdom	(54.8638)	(3.9417)		
		opened 1989.				
GCL	R	Cushendall	55 04 33.6 N	6 07 48.0 W	275.0	BGS
		Northern Ireland, United Kingdom	(55.0760)	(6.1300)		
		opened 1989.				
GEA0	R	GERESS Array Site A0	48 50 12.5 N	13 42 06.8 E	1027.6	BUG
		Boyern, Germany	(48.8368)	(13.7019)		
GEA1	R	GERESS Array Site A1	48 50 10.6 N	13 42 14.1 E	1009.3	BUG
		Boyern, Germany	(48.8363)	(13.7039)		
GEA2	R	GERESS Array Site A2	48 50 19.0 N	13 42 06.5 E	1059.0	BUG
		Boyern, Germany	(48.8386)	(13.7018)		
GEA3	R	GERESS Array Site A3	48 50 06.0 N	13 42 00.1 E	1017.0	BUG
		Boyern, Germany	(48.8350)	(13.7000)		
GEB1	R	GERESS Array Site B1	48 50 20.0 N	13 42 27.1 E	1015.0	BUG
		Boyern, Germany	(48.8389)	(13.7075)		
GEB2	R	GERESS Array Site B2	48 50 22.3 N	13 41 55.0 E	1092.9	BUG
		Boyern, Germany	(48.8395)	(13.6986)		
GEB3	R	GERESS Array Site B3	48 50 13.0 N	13 41 45.5 E	1058.8	BUG
		Boyern, Germany	(48.8370)	(13.6960)		
GE84	R	GERESS Array Site B4	48 49 57.8 N	13 41 55.9 E	1006.0	BUG
		Boyern, Germony	(48.8327)	(13.6989)		
GEB5	R	GERESS Array Site B5	48 50 04.4 N	13 42 21.4 E	976.9	BUG
		Boyern, Germony	(48.8346)	(13.7059)		
GEC1	R	GERESS Array Site C1	48 50 28.4 N	13 42 35.7 E	1027.7	BUG
		Boyern, Germony	(48.8412)	(13.7099)		
GEC2		GERESS Array Site C2	48 50 42.4 N	13 42 05.6 E	1137.1	BUG
		Boyern, Germany	(48.8451)	(13.7016)		
GEC3	R	GERESS Array Site C3	48 50 32.5 N	13 41 30.1 E	1075.7	BUG
		Boyern, Germony	(48.8424)	(13.6917)		
GEC4	R	GERESS Array Site C4	48 50 06.7 N	13 41 15.0 E	1103.3	BUG
		Boyern, Germany	(48.8352)	(13.6875)		
GEC5	R	GERESS Array Site C5	48 49 46.6 N	13 41 44.5 E	1009.4	BUG
		Boyern, Germony	(48.8296)	(13.6957)		
GEC6	R	GERESS Array Site C6	48 49 36.4 N	13 42 32.6 E	942.2	BUG
		Boyern, Germony	(48.8268)	(13.7090)		
GEC7	R	GERESS Array Site C7	48 50 07.6 N	13 42 52.1 E	986.0	BUG
		Boyern, Germony	(48.8354)	(13.7145)		

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GECU		Ecuador Network Ecuador	0 19 01.8 S (0.3172)	78 11 22.8 W (78.1897)	4350.0	QUI
GED1	R	GERESS Array Site D1 Bayern, Germany	48 51 06.5 N (48.8518)	13 42 53.2 E (13.7148)	1060.9	BUG
GED2	R	GERESS Array Site D2 Bayern, Germany	48 51 11.6 N (48.8532)	13 41 47.2 E (13.6964)	999.3	BUG
GED3	R	GERESS Array Site D3 Berlin, Germany	48 50 47.4 N (48.8465)	13 40 54.5 E (13.6818)	949.9	BUG
GED4	R	GERESS Array Site D4 Bayern, Germany	48 50 18.9 N (48.8386)	13 40 46.7 E (13.6796)	1039.8	BUG
GED5	R	GERESS Array Site D5 Bayern, Germany	48 49 28.6 N (48.8246)	13 40 50.5 E (13.6807)	1085.6	BUG
GED6	R	GERESS Array Site D6 Bayern, Germany	48 49 09.9 N (48.8194)	13 41 47.9 E (13.6966)	1083.5	BUG
GED7	R	GERESS Array Site D7 Bayern, Germany	48 49 15.3 N (48.8209)	13 42 57.3 E (13.7159)	959.6	BUG
GED8	R	GERESS Array Site D8 Bayern, Germany	48 49 59.4 N (48.8332)	13 43 33.9 E (13.7261)	938.2	BUG
GED9	R	GERESS Array Site D9 Bayern, Germany	48 50 36.3 N (48.8434)	13 43 25.6 E (13.7238)	987.0	BUG
GELF		Grande-Etoile Provence-Cote d'Azur, France	43 23 00.9 N (43.3836)	5 25 39.0 E (5.4275)	550.0	STR
GGP		Guaguo Pichincho Ecuador opened 198809. QUI code REFU.	0 10 28.2 S (0.1745)	78 35 45.6 W (78.5960)	4600.0	QUI
GHZJ		... Jordan opened 198912.	30 34 48.0 N (30.5800)	36 19 30.0 E (36.3250)	1048.0	JSO
GIBL		Gibalbin Spain	36 49 35.4 N (36.8265)	5 57 10.2 W (5.9528)	412.0	SFS
GIM	R	North Isle of Man Isle of Man, United Kingdom opened 1989.	54 17 32.3 N (54.2923)	4 28 01.2 W (4.4670)	366.0	BGS
GIO		Monte San Gregorio Sicilia, Italy opened 198902.	37 34 00.0 N (37.5667)	15 06 30.0 E (15.1083)	330.0	ERC
GKN		Gorkha Nepal opened 198307.	28 00 10.8 N (28.0030)	84 38 13.2 E (84.6370)	1478.0	DMN
GL2		New Galdendale Washington, U.S.A.	45 57 35.0 N (45.9597)	120 49 22.5 W (120.8229)	1000.0	SEA
GLH		Golan--Tel Qazir Israel opened 19860626.	32 42 36.0 N (32.7100)	35 39 36.0 E (35.6600)	330.0	JER
GLK		Glacier Lake Washington, U.S.A.	46 33 50.2 N (46.5639)	121 36 30.7 W (121.6085)	1320.0	SEA
GMB		Gambarie d'Aspromonte Calabria, Italy	38 10 03.0 N (38.1675)	15 51 48.0 E (15.8633)	1350.0	ERC
GMG		Grassy Mountain Georgia, U.S.A. opened 198511.	34 51 45.6 N (34.8627)	84 40 13.2 W (84.6703)	1097.0	TEIC
GMK	R	Mull of Kintyre Scotland, United Kingdom opened 1989.	55 20 45.2 N (55.3459)	5 35 37.0 W (5.5936)	160.0	BGS
GMM	R	Mourne Mountains Northern Ireland, United Kingdom opened 1989.	54 14 20.4 N (54.2390)	5 57 03.6 W (5.9510)	140.0	BGS
GMO		Grizzlie Mountain Oregon, U.S.A. opened 19870827.	44 26 20.8 N (44.4391)	120 57 22.3 W (120.9562)	1689.0	SEA
GNI	R	...	...	...	...	DJA
GOGC	R	Isla Gorgona Colombia	...	...	...	UVC
GRAI		Grandview Point Idaho, U.S.A.	43 48 33.5 N (43.8093)	111 20 08.6 W (111.3357)	2231.0	USBR
GRBF		Gourbit Midi-Pyrenees, France opened 198901.	42 50 29.0 N (42.8414)	1 32 12.0 E (1.5367)	875.0	STR
GRI	D	Girifalco Calabria, Italy	38 49 01.7 N (38.8171)	16 25 12.5 E (16.4201)	480.0	ROM
GRI*		(Alternate Abbreviation for GR1TX)				
GROR		Grindstone Mountain Oregon, U.S.A. opened 198605. SEA code GRO.	45 21 04.5 N (45.3512)	123 39 43.0 W (123.6619)	945.0	SEA
GT2		Goat Mountain Oregon, U.S.A. opened 198509. SEA code VG2.	45 09 20.0 N (45.1556)	122 16 15.0 W (122.2708)	823.0	SEA
GUAC		Guacamayo Venezuela opened 198706.	10 11 31.2 N (10.1920)	67 16 16.0 W (67.2711)	1330.0	CAR
GUAN		Valle Guanape Venezuela opened 1984.	9 57 27.0 N (9.9575)	65 38 52.1 W (65.6478)	1107.0	CAR
GUAY	R	Guayacanes Dominican Republic opened 19860710.	18 26 24.0 N (18.4400)	69 26 00.0 W (69.4333)	...	SDD
GUB	R	Gubo	10 40 .. S (10.6667)	26 26 .. E (26.4333)	...	

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Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
GULW		Guler Mountain Washington, U.S.A. opened 19860731. SEA code GUL.	45 55 27.0 N (45.9242)	121 35 44.0 W (121.5956)	1189.0	SEA
GUM2		Guadalajara 2 Jalisco, Mexico	20 40 .. N (20.6667)	103 18 .. W (103.3000)	1543.0	UNM
GUN		Gumba Nepal opened 198503.	27 54 38.2 N (27.9106)	85 52 45.8 E (85.8794)	2900.0	DMN
GUO	R	... Oaxaca, Mexico	16 05 55.2 N (16.0987)	97 03 39.6 W (97.0610)	244.0	UNM
GVMR		Giv'at Hamore Israel opened 199112.	32 37 12.0 N (32.6200)	35 22 12.0 E (35.3700)	90.0	JER
GWY		Greenwater Valley Inyo County, California, U.S.A. opened 19880401.	36 11 06.6 N (36.1852)	116 40 10.8 W (116.6697)	1540.0	USGS
HAE	R	Alders End England, United Kingdom opened 1982.	52 02 15.4 N (52.0376)	2 32 51.0 W (2.5475)	224.0	BGS
HAH		Hahryggur Iceland	64 07 06.6 N (64.1185)	21 16 58.1 W (21.2828)	...	
HAKY		Hadley Quad Kentucky, U.S.A. opened 19870626.	37 06 20.5 N (37.1057)	86 35 05.8 W (86.5849)	169.0	TVA
HAT		Hattorf Hessen, Germany opened before 1981.	50 49 46.9 N (50.8297)	9 56 39.1 E (9.9442)	-592.0	
HATI		Hayti Missouri, U.S.A.	36 10 37.2 N (36.1770)	89 40 33.6 W (89.6760)	83.0	SLM
HAVC	R	Havirov Czechoslovakia	49 45 46.8 N (49.7630)	18 28 37.2 E (18.4770)	...	PRU
HAYW		Haystack Fork Wyoming, U.S.A. opened 199009.	43 38 22.5 N (43.6396)	110 19 57.0 W (110.3325)	2835.0	USBR
HBL2	R	Bonnylands England, United Kingdom opened 1991.	52 03 02.9 N (52.0508)	3 02 18.2 W (3.0384)	400.0	BGS
HBMT		Mount Humbug Montana, U.S.A. opened 1990080B.	45 47 34.8 N (45.7930)	112 36 28.2 W (112.6078)	2481.0	BUT
HBO		Huckleberry Mountain Oregon, U.S.A. opened 19900919.	43 50 39.6 N (43.8443)	122 19 11.9 W (122.3200)	1615.0	SEA
HDW		Hoodsport Washington, U.S.A.	47 38 54.6 N (47.6485)	123 03 15.2 W (123.0542)	1006.0	SEA
HEA	D	Headley England, United Kingdom	51 21 30.0 N (51.3583)	1 15 50.0 W (1.2639)	114.0	BKN
HEX	R	Exmoor England, United Kingdom opened 1991.	51 04 00.5 N (51.0668)	3 48 09.0 W (3.8025)	278.0	BGS
HGH	R	Gray Hill Wales, United Kingdom opened 1980.	51 38 16.8 N (51.6380)	2 48 23.0 W (2.8064)	210.0	BGS
HHAI	R	Hells Half Acre Idaho, U.S.A.	...	...	...	USGS
HHH		Horse Heaven Hills Washington, U.S.A. opened 198703. SEA code HH2.	46 10 18.0 N (46.1717)	119 23 01.0 W (119.3836)	490.0	SEA
HHWY	R	High Hayland England, United Kingdom	53 35 12.1 N (53.5867)	1 35 50.6 W (1.5974)	205.0	OMB
HIA	D	Hailar Heilongjiang, China (Mainland) opened 198703.	49 16 00.0 N (49.2667)	119 44 30.0 E (119.7417)	610.0	BJI
HIRJ	R	Hiroshima 2 Hiroshima, Honshu, Japan	34 25 42.0 N (34.4283)	132 33 54.0 E (132.5650)	412.0	JMA
HITJ		... Jordan opened 1989.	29 44 34.8 N (29.7430)	35 50 27.6 E (35.8410)	1235.0	JSO
HLBJ		Hallabat Jordan 1987-19871024; reopened 1989.	32 04 39.0 N (32.0775)	36 18 09.0 E (36.3025)	827.0	JSO
HLGA	R	Haflong Assam, India opened 198408.	25 09 36.0 N (25.1600)	93 01 00.0 E (93.0167)	662.0	JHI
HLH		Cerro de Hule Honduras opened 1990?	13 50 15.0 N (13.8375)	87 15 30.0 W (87.2583)	...	
HLZ	R	Helez Israel	31 36 00.0 N (31.6000)	34 38 24.0 E (34.6400)	100.0	JER
HMCY		Holy Mount Cemetery New York, U.S.A. opened 198512. PAL code HMC.	40 57 53.4 N (40.9648)	73 48 11.4 W (73.8032)	245.0	PAL
HMDT		Nahal Hemdat Israel opened 199105.	32 15 36.0 N (32.2600)	35 31 12.0 E (35.5200)	125.0	JER
HMNA	R	Hamren Assam, India opened 198501.	25 55 24.0 N (25.9233)	92 36 30.0 E (92.6083)	...	JHI
HNV	R	Hanoi Vietnam	21 02 53.0 N (21.0481)	105 47 50.0 E (105.7972)	6.0	PLV

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Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
HOBC		El Hobo Colombia opened 1987.	4 21 17.4 N (4.3548)	76 08 07.8 W (76.1355)	1180.0	UVC
HOGH		Ho Ghana opened 1987.	6 36 33.0 N (6.6092)	0 26 42.0 E (0.4450)	372.0	KUK
HOI		Hoima Uganda opened 199107.	1 25 04.8 N (1.4180)	31 20 31.2 E (31.3420)	1094.0	
HOLB	R	holberg British Columbia, Canada opened 199108.	50 38 25.8 N (50.6405)	128 07 54.5 W (128.1318)	564.0	WCTN
HONU		Honeyville Coche County, Utah, U.S.A. opened 19890613.	41 36 36.0 N (41.6100)	111 55 01.2 W (111.9170)	1515.0	SLC
HOOC		La Horqueta Colombia opened 1987.	3 28 04.8 N (3.4680)	76 38 01.2 W (76.6337)	2220.0	UVC
HPE	R	Pembroke Wales, United Kingdom opened 1990.	51 56 13.6 N (51.9371)	4 46 28.2 W (4.7745)	355.0	BGS
HOL		Haql Saudi Arabia opened 1986.	29 16 12.0 N (29.2700)	35 03 00.0 E (35.0500)	75.0	RYD
HRSH	R	Kfar Ka'haresh Israel	32 42 00.0 N (32.7000)	35 16 48.0 E (35.2800)	416.0	JER
HSA	R	Swansea Wales, United Kingdom opened 1987.	51 44 52.1 N (51.7478)	4 09 15.5 W (4.1543)	274.0	BGS
HSHJ		... Jordan opened 198909.	29 42 06.0 N (29.7017)	35 40 00.0 E (35.6667)	1100.0	JSO
HSO		Harness Mountain Oregon, U.S.A. opened 19900920.	43 31 33.0 N (43.5258)	123 05 24.0 W (123.0900)	1020.0	SEA
HSR		South Ridge Washington, U.S.A. opened 198508.	46 10 22.2 N (46.1728)	122 10 58.2 W (122.1828)	1774.0	SEA
HTMS		Hot Meso New Mexico, U.S.A. opened 1991.	32 28 21.0 N (32.4725)	103 38 03.0 W (103.6342)	1192.0	SNM
HTR	R	Trewern Hill Wales, United Kingdom opened 1982.	52 04 44.4 N (52.0790)	3 16 10.9 W (3.2697)	329.0	BGS
HUG		Huitzitzil Guatemala opened 198712.	14 01 14.4 N (14.0207)	91 19 24.0 W (91.3233)	...	GCG
HUO	R	Hudson Ontario, Canada opened 19861002.	50 04 50.0 N (50.0806)	92 05 53.0 W (92.0981)	367.0	OTTR
HURP	R	Huarmaca Peru	5 34 58.8 S (5.5830)	78 25 58.8 W (78.4330)	2000.0	LIM
HUTI	R	Huta Ginjang Sumatera, Indonesia	2 18 55.0 N (2.3153)	98 58 16.0 E (98.9711)	1600.0	DJA
HVAR		Hvar Hrvatska (Croatia), Yugoslavia opened 19861001.	43 10 40.8 N (43.1780)	16 26 52.8 E (16.4480)	250.0	ZAG
HWSI	R	Howe Scarp Idaho, U.S.A.	...	...	...	USGS
IAP	F	(phase code designatian)				
IAPC	F	(phase code designation)				
IAPD	F	(phase code designation)				
ICI	R	Italian Canyon Idaho, U.S.A.	...	...	...	USGS
IECU	C	Ecuador Network Ecuador	0 28 30.0 S (0.4750)	78 18 24.0 W (78.3067)	3720.0	OUI
IGT		Igaumenitsa Greece opened 198906.	39 31 57.0 N (39.5325)	20 19 57.0 E (20.3325)	320.0	THE
IHA		Instituta Hidragrafica de la Armada Valparaisa, Chile apened 198801.	33 01 32.7 S (33.0257)	71 38 27.9 W (71.6411)	88.5	
IHC	R	Ixhuatan Mexico	17 17 26.0 N (17.2906)	93 00 30.0 W (93.0083)	...	IIM
IIA		Altzomoni Mexico, Mexico Sent to NEIS by UNM.	19 08 58.2 N (19.1495)	98 39 30.0 W (98.6583)	...	IIM
IIJ		Jacotitlan Mexico, Mexico Alsa sent to NEIS by UNM.	19 44 02.4 N (19.7340)	99 44 02.4 W (99.7340)	3900.0	IIM
IIO	R	... Tlaxcala, Mexica	19 35 31.2 N (19.5920)	98 43 26.4 W (98.7240)	...	IIM
IISM		Ciudad Serdan Puebla, Mexica Alsa sent ta NEIS by UNM. IIM and UNM code IIS.	18 59 16.8 N (18.9880)	97 22 36.6 W (97.3768)	...	IIM
IKL		Isikli Turkey apened 198801.	36 14 19.0 N (36.2386)	33 41 07.0 E (33.6853)	120.0	ISK

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ILIM		Iliamna Western Alaska, Alaska, U.S.A. AGS code ILI.	60 04 48.6 N (60.0802)	152 57 34.2 W (152.9595)	823.0	AGS
IMI		Imperio Liguria, Italy	43 54 36.6 N (43.9102)	7 53 21.6 E (7.8893)	860.0	GEN
IMM	R	Islas Marias Nayarit, Mexico	...	...	...	UNM
IMU		Iron Mountain Millard County, Utah, U.S.A. opened 19880929.	38 37 59.2 N (38.6331)	113 09 30.2 W (113.1584)	1832.0	SLC
INE		Iliamna North East Western Alaska, Alaska, U.S.A. opened 19900829.	60 03 39.0 N (60.0608)	153 03 45.0 W (153.0625)	1585.0	GIA
INGI	R	Ingas Bali, Nusa Tenggara, Indonesia	8 49 06.0 S (8.8183)	115 08 41.0 E (115.1447)	202.0	DJA
INW		Iliamna Nort West Western Alaska, Alaska, U.S.A. opened 19900829.	60 04 03.6 N (60.0677)	153 07 57.0 W (153.1325)	1219.0	GIA
IPA		Iponguacu Rio Grande do Norte, Brazil opened 198708.	5 41 45.0 S (5.6958)	36 51 22.0 W (36.8561)	65.0	
IPBC	F	(phase code designation)				
IPBD	F	(phase code designation)				
IPCP	F	(phase code designation)				
IPCR	F	(phase code designation)				
IPCS	F	(phase code designation)				
IPCU	F	(phase code designation)				
IPDR	F	(phase code designation)				
IPDU	F	(phase code designation)				
IPGC	F	(phase code designation)				
IPGD	F	(phase code designation)				
IPKP	F	(phase code designation)				
IPKS	F	(phase code designation)				
IPNC	F	(phase code designation)				
IPND	F	(phase code designation)				
IPP	F	(phase code designation)				
IPPP	F	(phase code designation)				
IPPS	F	(phase code designation)				
IPS	F	(phase code designation)				
IPSS	F	(phase code designation)				
IRCI		Inel Research Center Idaho, U.S.A. opened 19900315.	43 30 55.2 N (43.5153)	112 02 00.0 W (112.0333)	1442.0	USGS
ISCP	F	(phase code designation)				
ISCS	F	(phase code designation)				
ISKP	F	(phase code designation)				
ISKS	F	(phase code designation)				
ISPP	F	(phase code designation)				
ISSP	F	(phase code designation)				
ISSS	F	(phase code designation)				
ITU		Istanbul Turkey opened 19890102.	41 06 22.2 N (41.1062)	29 00 53.4 E (29.0148)	98.0	IST WWSS
IVAG	C	Clark Hill Reservoir Georgia, U.S.A. closed 1986.	34 16 19.6 N (34.2721)	82 44 45.6 W (82.7460)	168.0	ATL
IVF	C	Ivanof Bay Alaska Peninsula, Alaska, U.S.A. closed 199007.	55 53 45.0 N (55.8958)	159 31 48.0 W (159.5300)	275.0	PAL
IVS		Iliamna South Western Alaska, Alaska, U.S.A. opened 19900829.	60 00 33.0 N (60.0092)	153 04 51.0 W (153.0808)	2332.0	GIA
IXC	R	Ixtacomitan Chiapas, Mexico	17 25 38.0 N (17.4272)	93 06 03.0 W (93.1008)	...	UNM
IXP	F	(phase code designation)				
IXPC	F	(phase code designation)				
IXPD	F	(phase code designation)				
IXS	F	(phase code designation)				
IZI		Iznik Turkey opened 199001.	40 20 12.6 N (40.3368)	29 28 22.2 E (29.4728)	910.0	ISK
JARJ		Jarash Jordan	32 14 15.0 N (32.2375)	35 56 46.8 E (35.9463)	840.0	JSO
JBO		Jordan Butte Oregon, U.S.A. opened 198209.	45 27 41.7 N (45.4616)	119 50 13.2 W (119.8370)	645.0	SEA
JCM		Jacotitlan Mexico, Mexico opened 1988.	19 44 03.0 N (19.7342)	99 45 40.0 W (99.7611)	...	UNM
JDN	R	Jardin Chiapas, Mexico	17 09 54.0 N (17.1650)	92 30 00.0 W (92.5000)	920.0	IIM
JEHI		Jehsonih Bali, Nusa Tenggara, Indonesia	8 05 00.0 S (8.0833)	115 12 45.0 E (115.2125)	60.0	DJA
JFO		Juiz de Fora Minas Gerais, Brazil opened 199008?	21 43 37.6 S (21.7271)	43 19 30.0 W (43.3250)	750.0	VAO
JHNI	R	Jhansi Uttar Pradesh, India	25 27 .. N (25.4500)	78 37 .. E (78.6167)	250.0	NDI
JIL	R	Jilatepec Veracruz, Mexico	19 37 50.4 N (19.6307)	96 56 00.0 W (96.9333)	1330.0	IIM

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JIZN		Jizan Saudi Arabia opened 198902.	16 57 32.4 N (16.9590)	42 49 30.0 E (42.8250)	100.0	RYD
JLK		June Lake Washington, U.S.A. opened 198003. SEA code JUN.	46 08 48.0 N (46.1467)	122 09 10.8 W (122.1530)	1049.0	SEA
JLP	R	Les Platons Channel Islands, United Kingdom opened 1981.	49 14 34.1 N (49.2428)	2 06 14.0 W (2.1039)	131.0	BGS
JMU		Jammu Jammu and Kashmir, India	32 43 .. N (32.7167)	74 54 .. E (74.9000)	...	NDI
JRDJ		... Jordan	30 43 40.8 N (30.7280)	35 39 57.6 E (35.6660)	1365.0	JSO
JRSJ		... Jordan	30 15 39.6 N (30.2610)	35 13 58.8 E (35.2330)	357.0	JSO
JSA	R	Saint Aubin Channel Islands, United Kingdom opened 1981.	49 11 16.4 N (49.1879)	2 10 15.2 W (2.1709)	21.0	BGS
JTS		Juntas de Abangares Costa Rica opened 198806.	10 17 27.0 N (10.2908)	84 57 09.0 W (84.9525)	340.0	HDC
JVI		Jordan Valley--Rimmonim Israel opened 19860717.	31 55 48.0 N (31.9300)	35 21 00.0 E (35.3500)	680.0	JER
JVM	R	Valle D.L. Mare Channel Islands, United Kingdom opened 1981.	49 13 00.8 N (49.2169)	2 12 24.5 W (2.2068)	64.0	BGS
KAC	R	Achnashellach Scotland, United Kingdom opened 1983.	57 29 59.6 N (57.4999)	5 17 53.5 W (5.2982)	330.0	BGS
KALI		Kaliastana Jawa, Indonesia	7 06 23.0 S (7.1064)	106 39 32.0 E (106.6589)	810.0	DJA
KAP		Karpathos Greece opened 1988.	35 33 03.0 N (35.5508)	27 10 28.8 E (27.1747)	250.0	ATH
KARJ	R	... Jordan	31 07 12.0 N (31.1200)	35 39 10.8 E (35.6530)	124.0	JSO
KBB		Kelsey Bay British Columbia, Canada opened 19860823.	50 23 05.0 N (50.3847)	126 01 39.0 W (126.0275)	1310.0	OTTR
KBC		Kumba Cameroon opened 19841116; moved slightly 19850317. Old position 4.652N, 9.412E, 375m.	4 39 10.8 N (4.6530)	9 24 46.8 E (9.4130)	375.0	YND
KBI	R	Kettle Butte Idaho, U.S.A.	...	...	...	USGS
KBR		Kanchanaburi Thailand opened 198807.	14 01 .. N (14.0167)	99 32 .. E (99.5333)	28.0	CHG
KEDI		Kedamdang Lambak, Nusa Tenggara, Indonesia opened 1991.	8 01 05.0 S (8.0181)	116 04 45.0 E (116.0792)	560.0	DJA
KEK		Kerkira Greece opened 198903.	39 42 46.8 N (39.7130)	19 47 55.2 E (19.7987)	280.0	ATH
KELI		Kelakatan Bali, Nusa Tenggara, Indonesia	8 13 00.0 S (8.2167)	114 29 27.0 E (114.4908)	591.0	DJA
KERI	R	Keren Israel	30 59 24.0 N (30.9900)	34 29 24.0 E (34.4900)	360.0	JER
KHL		Karahalli Turkey opened 198808.	38 19 23.5 N (38.3232)	29 31 23.5 E (29.5232)	940.0	ISK
KHZ	D	Kahutara South Island, New Zealand opened 198811.	42 25 04.8 S (42.4180)	173 32 25.2 E (173.5403)	50.0	WEL
KIL		Kilembe Uganda opened 199107.	0 12 00.0 N (0.2000)	30 00 28.8 E (30.0080)	1372.0	
KIV	D	Kislavadsk Stavropolskiy Kray, Russia IDA opened 1988.	43 57 .. N (43.9500)	42 41 .. E (42.6833)	1200.0	MOS IDA IRIS
KKB		Krupnik Bulgaria opened 1988.	41 52 00.1 N (41.8667)	23 04 59.9 E (23.0833)	434.0	SOF
KLP	R	Kalpa Himachal Pradesh, India	31 32 .. N (31.5333)	78 15 .. E (78.2500)	2724.0	NDI
KMC		Kampina Cameroon opened 19841214.	4 23 09.6 N (4.3860)	9 34 40.8 E (9.5780)	85.0	YND
KMOR		Kings Mountain Oregon, U.S.A. opened 198209. SEA code KMO.	45 38 07.8 N (45.6355)	123 29 22.2 W (123.4895)	975.0	SEA
KMTA		Khamis Mushayt Saudi Arabia opened 19900613.	18 09 57.6 N (18.1660)	42 51 54.0 E (42.8650)	2000.0	RYD
KNM	R	Kinmen China (Taiwan)	24 15 00.0 N (24.2500)	118 15 36.0 E (118.2600)	13.7	TAP
KOGH		Koforidua Ghana opened 1987.	6 05 10.0 N (6.0861)	0 14 38.0 W (0.2439)	483.0	KUK

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KOSW		Kosmos Washington, U.S.A. opened 198105. SEA code KOS.	46 27 40.8 N (46.4613)	122 11 25.8 W (122.1905)	828.0	SEA
KOT		Kottomio Egypt	29 55 48.0 N (29.9300)	31 49 48.0 E (31.8300)	...	HLW
KPL		Plockton Scotland, United Kingdom opened 19860418.	57 20 20.8 N (57.3391)	5 39 09.7 W (5.6527)	36.0	BGS
KSB	R	Shell Bridge Scotland, United Kingdom opened 1983.	57 12 35.3 N (57.2098)	5 25 22.8 W (5.4230)	70.0	BGS
KSHJ	R	... Jordan	30 16 26.4 N (30.2740)	36 57 57.6 E (36.9660)	1005.0	JSO
KSHT		Keshet Israel opened 199105.	32 59 24.0 N (32.9900)	35 49 48.0 E (35.8300)	700.0	JER
KSK	R	Scovol Scotland, United Kingdom opened 1989.	57 27 55.1 N (57.4653)	6 42 07.2 W (6.7020)	250.0	BGS
KSL		Kastellorizon Greece opened 1988.	36 07 08.4 N (36.1190)	29 35 00.0 E (29.5833)	100.0	ATH
KSY	R	Syston England, United Kingdom opened 1988.	52 57 51.1 N (52.9642)	0 35 14.3 W (0.5873)	123.0	BGS
KSZ	R	Kasoma Zambia	...	...	...	
KTD		Kolmit Rheinland-Pfalz, Germany opened before 197410.	49 19 12.6 N (49.3202)	8 05 01.2 E (8.0837)	670.0	KRW
KTH		Kantishna Hills Central Alaska, Alaska, U.S.A. opened 19880815.	63 33 10.8 N (63.5530)	150 55 18.0 W (150.9217)	975.0	GIA
KTJJ	R	Kamata 2 Honshu, Japan opened 19900320.	34 55 30.6 N (34.9252)	139 03 50.4 E (139.0640)	175.0	JMA
KTK1		Kautokeino Norway opened 1989.	69 00 42.1 N (69.0117)	23 14 13.7 E (23.2371)	340.0	BER
KTK2		Koutokeino Norway opened 1989.	69 00 27.0 N (69.0075)	23 14 14.5 E (23.2374)	...	BER
KTK3		Koutokeino Norway opened 1989.	69 00 24.0 N (69.0067)	23 14 06.7 E (23.2352)	...	BER
KTK4	R	Kautokeino Norway	69 00 29.0 N (69.0081)	23 14 05.1 E (23.2347)	...	BER
KTK5	R	Kautokeino Norway	69 00 34.5 N (69.0096)	23 13 38.3 E (23.2273)	...	BER
KTK6		Koutokeino Norway	69 00 36.0 N (69.0100)	23 14 09.6 E (23.2360)	340.0	BER
KTL	R	Katole Zaire	1 19 28.8 S (1.3247)	29 23 01.8 E (29.3838)	1600.0	LWI
KUF	R	Ufford England, United Kingdom opened 1988.	52 37 03.0 N (52.6175)	0 23 22.2 W (0.3895)	35.0	BGS
KUZ	D	Kuootunu North Island, New Zealand opened 19901011.	36 44 49.5 S (36.7471)	175 43 11.6 E (175.7199)	40.0	WEL
KWE	R	Weaver Farm England, United Kingdom opened 1988.	53 00 58.7 N (53.0163)	1 50 36.6 W (1.8435)	320.0	BGS
KYR	R	Koyrok Turkey opened 198801.	36 21 06.0 N (36.3517)	33 31 31.0 E (33.5253)	1210.0	ISK
KZIT	R	Kziot Israel	30 55 12.0 N (30.9200)	34 26 24.0 E (34.4400)	200.0	JER
LACI		Laci Greece opened 198704.	41 38 10.7 N (41.6363)	19 42 33.8 E (19.7094)	40.0	TIR
LACL		Locq Aquitaine, France	43 26 06.0 N (43.4350)	0 43 37.0 W (0.7269)	195.0	STR
LACU	R	Lo Cuchilla Venezuela opened 1984.	7 52 36.1 N (7.8767)	71 23 26.2 W (71.3906)	800.0	CAR
LADA	R	Lo Danto Venezuela opened 1984.	7 56 20.4 N (7.9390)	71 36 46.8 W (71.6130)	1200.0	CAR
LAGL		Lagor Aquitaine, France	43 24 22.0 N (43.4061)	0 39 54.0 W (0.6650)	190.0	STR
LAGM	R	... Oaxaca, Mexico UNM code LAG.	16 06 15.0 N (16.1042)	97 04 40.2 W (97.0778)	201.0	UNM
LAGU	R	Laguneto Venezuela	9 46 12.0 N (9.7700)	69 45 54.0 W (69.7650)	800.0	CAR
LAL		Leola Alabama, U.S.A. opened 19890328.	34 26 12.0 N (34.4367)	87 20 13.8 W (87.3372)	320.0	TVA

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Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
LAPE	R	La Pedrera Venezuela opened 1984.	7 33 28.8 N (7.5580)	71 34 32.2 W (71.5756)	327.0	CAR
LARI	R	Lau Rambong Sumatera, Indonesia	2 53 08.0 N (2.8856)	98 09 26.0 E (98.1572)	820.0	
LAZ		Ladron New Mexico, U.S.A.	34 24 07.2 N (34.4020)	107 08 21.6 W (107.1393)	1853.0	SNM
LAZM	R	Lozoro Cardenas Michoacan, Mexico UNM code LAZ.	18 02 09.6 N (18.0360)	102 12 18.0 W (102.2050)	...	UNM
LBH	R	Morecambe 8102 England, United Kingdom opened 1990.	54 01 56.6 N (54.0324)	2 54 20.9 W (2.9058)	-85.0	BGS
LBL		Loubilhac Auvergne, France	45 13 57.0 N (45.2325)	3 14 49.0 E (3.2469)	950.0	STR
LBO	R	Bowland England, United Kingdom opened 1989.	53 58 44.4 N (53.9790)	2 34 22.1 W (2.5728)	320.0	BGS
LCCH		Las Cruces Santiago, Chile opened 19871117.	33 28 31.2 S (33.4753)	71 34 10.8 W (71.5697)	180.0	SAN
LCK	R	Crook England, United Kingdom opened 1989.	54 21 34.2 N (54.3595)	2 52 17.4 W (2.8715)	200.0	BGS
LCP	R	Cassap England, United Kingdom opened 1991.	54 44 12.5 N (54.7368)	1 28 26.8 W (1.4741)	185.0	BGS
LDBL		Lucq-de-Beorn Aquitoine, France	43 19 08.0 N (43.3189)	0 36 50.0 W (0.6139)	250.0	STR
LDMO		Linda Missouri, U.S.A. opened 19800719.	36 24 39.6 N (36.4110)	89 33 46.8 W (89.5630)	86.0	SLM
LDU	R	Leeds University England, United Kingdom opened 1983.	53 48 09.0 N (53.8025)	1 33 19.1 W (1.5553)	230.0	BGS
LDVG		Clark Hill Reservoir Georgia, U.S.A.	34 08 52.1 N (34.1478)	82 41 00.0 W (82.6833)	162.0	ATL
LEGH		Legan Ghana opened 1987?	5 38 54.0 N (5.6483)	0 10 53.0 W (0.1814)	91.0	KUK
LENM		Lemitor New Mexico, U.S.A. SNM code LEM.	34 09 55.8 N (34.1655)	106 58 27.0 W (106.9742)	1698.0	SNM
LESF		Lescure Midi-Pyrenees, France opened 198901.	43 01 52.0 N (43.0311)	1 17 02.0 E (1.2839)	460.0	STR
LEVU		Levan Juab County, Utah, U.S.A. opened 199201.	39 30 24.6 N (39.5068)	111 48 49.8 W (111.8138)	2016.0	SLC
LFK		Lefkose Cyprus opened 19870101.	35 16 45.1 N (35.2792)	33 31 57.0 E (33.5325)	690.0	ISK
LFU		La Fuente El Salvadar	13 44 55.2 N (13.7487)	89 06 49.8 W (89.1138)	732.0	SSS
LHIS		Lihir Island New Ireland, Papua New Guinea opened 19870622.	3 07 01.2 S (3.1170)	152 37 58.8 E (152.6330)	10.0	PMG
LHO	R	Holmfirth England, United Kingdam opened 1991.	53 32 42.4 N (53.5451)	1 51 17.3 W (1.8548)	460.0	BGS
LIBD		Limburg Baden-Wurttemberg, Germany sent to NEIS by STR.	48 09 01.5 N (48.1504)	7 36 08.2 E (7.6023)	200.0	
LIBM		..... Chiapas, Mexico UNM code LIB.	17 17 38.4 N (17.2940)	93 00 43.2 W (93.0120)	...	UNM
LIJA		Lijar Spain opened 198711.	36 53 54.0 N (36.8983)	5 24 42.0 W (5.4117)	970.0	SFS
LIMM	R	..... Veracruz, Mexico IIM code LIM.	19 40 49.2 N (19.6803)	96 31 41.3 W (96.5281)	200.0	IIM
LISJ		El Lison Jordan opened 199003.	31 14 24.0 N (31.2400)	35 28 51.6 E (35.4810)	-327.0	JSO
LJI		Lemhi Junction Idaho, U.S.A. opened 19900515.	43 49 15.0 N (43.8208)	112 50 38.4 W (112.8440)	1600.0	USGS
LJO		Ljotipollur Iceland	64 01 24.6 N (64.0235)	19 01 22.8 W (19.0230)	...	
LJS	R	..... Mexico	17 59 34.8 N (17.9930)	93 29 16.8 W (93.4880)	...	IIM
LJY		La Joya New Mexico, U.S.A.	34 20 11.4 N (34.3365)	106 53 45.0 W (106.8958)	1532.0	SNM
LKGA		Lookout Mountain Georgia, U.S.A. opened 19851205.	34 37 24.0 N (34.6233)	85 28 19.8 W (85.4722)	655.0	TVA
LKL	R	Kirkby Lonsdale England, United Kingdom opened 1989.	54 13 06.6 N (54.2185)	2 32 04.2 W (2.5345)	396.0	BGS

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LKO		Korhogo Cote d'Ivoire opened 198906.	9 32 39.8 N (9.5444)	5 35 20.0 W (5.5889)	435.0	LIC
LLAV		El Llonito Venezuela opened 1988.	10 28 30.0 N (10.4750)	66 48 28.8 W (66.8080)	907.0	CAR
LLJ		... Guerrero, Mexico	16 33 51.0 N (16.5642)	98 53 04.8 W (98.8847)	...	UNM
LLO	R	Longridge England, United Kingdom opened 1989.	53 51 01.1 N (53.8503)	2 33 35.3 W (2.5598)	247.0	BGS
LLRI		Little Last River Idaho, U.S.A. opened 19900606.	43 43 22.8 N (43.7230)	112 55 58.8 W (112.9330)	1471.0	USGS
LLY	R	Lytham Saint Anne's England, United Kingdom opened 1989.	53 47 51.4 N (53.7976)	2 54 24.8 W (2.9069)	33.0	BGS
LMI	R	Millom England, United Kingdom opened 1989.	54 13 14.2 N (54.2206)	3 18 25.2 W (3.3070)	140.0	BGS
LMK	R	Market Rasen England, United Kingdom opened 1991.	53 27 24.8 N (53.4569)	0 19 35.8 W (0.3266)	130.0	BGS
LMX		La Mesa de Andrade Sonora, Mexico opened 1988.	32 06 31.2 N (32.1087)	114 57 37.8 W (114.9605)	...	ECX
LMZ		Lake Moeraki South Island, New Zealand opened 19901109.	43 43 06.0 S (43.7183)	169 16 13.0 E (169.2703)	...	WEL
LNO	D	Leonard Oklahoma, U.S.A. opened 19881207.	35 54 45.0 N (35.9125)	95 47 21.1 W (95.7892)	-506.0	TUL
LNOR	D	Linton Mountain Oregon, U.S.A. opened 198608. SEA code LNO. USTN opened 1988.	45 52 15.8 N (45.8711)	118 17 06.0 W (118.2850)	768.0	SEA USTN
LOCW		Rockwell Inc. Station Washington, U.S.A. opened 198211. SEA code LOC.	46 43 04.8 N (46.7180)	119 25 54.6 W (119.4318)	201.0	SEA
LOF		Lofoten Norway opened 198701.	68 07 51.6 N (68.1310)	13 32 31.2 E (13.5420)	80.0	BER
LOHW		Long Hollow Wyoming, U.S.A. opened 198601.	43 36 44.7 N (43.6124)	110 36 13.5 W (110.6037)	2121.0	USBR
LOMF		Lomont du Chomesol Franche Comte, France	47 21 03.0 N (47.3508)	6 49 39.0 E (6.8275)	1000.0	STR
LOMO	R	Lomo en Medio Dominican Republic	18 52 36.0 N (18.8767)	68 51 40.8 W (68.8613)	...	SDD
LORO		Los Roques Venezuela opened 1984.	11 57 28.1 N (11.9578)	66 40 27.1 W (66.6742)	20.0	CAR
LPD		Lampedusa Italy opened 198905.	35 30 41.0 N (35.5114)	12 35 42.2 E (12.5951)	20.0	ERC
LPI		Lipari Lipari Islands, Italy opened 19871211.	38 29 22.0 N (38.4894)	14 56 00.0 E (14.9333)	594.0	ERC
LPL		La Plagne Rhone-Alpes, France opened 198608.	45 30 59.2 N (45.5164)	6 43 56.6 E (6.7324)	2070.0	LDG
LRCZ		Leaning Rock South Island, New Zealand	45 03 55.0 S (45.0653)	169 20 46.0 E (169.3461)	1533.0	WELC
LRDO		Lorado Arkansas, U.S.A. opened 198812.	35 58 09.0 N (35.9692)	90 41 43.2 W (90.6953)	137.0	TEIC
LRN	R	Richmond England, United Kingdom opened 1991.	54 25 00.1 N (54.4167)	1 47 08.9 W (1.7858)	300.0	BGS
LSCZ		Lilico Spur South Island, New Zealand	45 06 59.0 S (45.1164)	169 22 09.0 E (169.3692)	759.0	WELC
LSD		Ceresole Reale Piemonte, Italy	45 27 27.6 N (45.4577)	7 09 20.4 E (7.1557)	2284.0	GEN
LSK		Leskovik Albania	40 09 .. N (40.1500)	20 36 .. E (20.6000)	920.0	TIR
LSO	R	Little Silver Creek Oklahoma, U.S.A.	...	...	...	TUL
LSP2		Los Mesas Puerto Rico Moved from LSP.	18 08 45.0 N (18.1458)	66 58 52.0 W (66.9811)	...	MPR
LSPF		Lesparou Midi-Pyrenees, France	42 56 53.0 N (42.9481)	1 54 15.0 E (1.9042)	450.0	STR
LSR	D	Lussari Friuli-Venezia Giulia, Italy opened 19880101.	46 28 33.0 N (46.4758)	13 31 40.0 E (13.5278)	1750.0	TRI
LTH		Lepaterique Honduras opened 1990?	14 04 15.0 N (14.0708)	87 20 45.0 W (87.3458)	...	
LTI		Latouche Kenai Peninsula, Alaska, U.S.A. opened 19880701.	60 02 25.8 N (60.0405)	147 51 15.0 W (147.8542)	302.0	AGS

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LTMT		Little Table Mountain Montana, U.S.A. opened 19890914.	44 31 33.0 N (44.5258)	112 06 36.0 W (112.1100)	2603.0	BUT
LTZ	D	Lake Taylor South Island, New Zealand opened 19891010.	42 46 58.2 S (42.7828)	172 16 07.8 E (172.2688)	640.0	WEL
LUTC	R	 Czechoslovakia	49 53 02.4 N (49.8840)	18 24 57.6 E (18.4160)	...	PRU
LUV	R	Lai Chau Vietnam	22 03 07.0 N (22.0519)	103 09 34.0 E (103.1594)	1100.0	PLV
LVGX		La Villita Guerrero, Mexico Strong-motion station.	18 02 42.0 N (18.0450)	102 10 30.0 W (102.1750)	...	LJC
LVI		Isola di Levanza Sicilia, Italy	37 59 08.1 N (37.9856)	12 20 14.7 E (12.3374)	20.0	ERC
LVMM		 Veracruz, Mexico UNM code LVM.	19 36 05.2 N (19.6014)	96 23 43.8 W (96.3955)	160.0	UNM
LVP		Lakeview Peak Washington, U.S.A. opened 198004.	46 04 06.0 N (46.0683)	122 24 30.0 W (122.4083)	1170.0	SEA
LVVM		Laguna Verde Veracruz, Mexico opened 1988. UNM code LVV.	19 44 16.8 N (19.7380)	96 26 55.8 W (96.4488)	...	UNM
LWH	R	Whinny Nab England, United Kingdom opened 1991.	54 20 00.6 N (54.3335)	0 40 17.0 W (0.6714)	265.0	BGS
LXQ	R	La Grande 3 Quebec, Canada opened 19861216.	53 43 20.4 N (53.7223)	76 01 20.0 W (76.0222)	195.0	OTTR
MAF		Mazirot Auvergne, France opened 19850711.	46 13 17.3 N (46.2215)	2 33 59.2 E (2.5664)	470.0	LDG
MAHZ		Mahia North Island, New Zealand	39 11 18.0 S (39.1883)	177 52 51.0 E (177.8808)	336.0	WELH
MAMI	R	Mei-Ami Israel	32 30 .. N (32.5000)	35 09 .. E (35.1500)	460.0	JER
MANM	R	 Veracruz, Mexico IIM code MAN.	19 35 24.0 N (19.5900)	96 25 00.0 W (96.4167)	2.0	IIM
MARA		Maracay Venezuela opened 1984.	10 19 26.0 N (10.3239)	67 36 24.8 W (67.6069)	1200.0	CAR
MARI	R	Martimbang Sumatera, Indonesia	1 57 37.0 N (1.9603)	98 58 05.0 E (98.9681)	1679.8	DJA
MARM	R	 Chiapas, Mexico IIM code MAR.	17 13 04.8 N (17.2180)	92 41 34.8 W (92.6930)	...	IIM
MASH	R	Mash'abbe Sade Israel	31 00 .. N (31.0000)	34 51 .. E (34.8500)	200.0	JER
MAVI		Loma El Jobobon Dominican Republic opened 19860907.	19 14 44.4 N (19.2457)	69 54 42.0 W (69.9117)	...	SDD
MBET		Bethel Montserrat opened 198907.	16 44 29.0 N (16.7414)	62 09 47.2 W (62.1631)	350.0	TRN
MBH		Mount Berech Israel opened 19860618.	29 46 12.0 N (29.7700)	34 52 48.0 E (34.8800)	840.0	JER
MCMT		McKenzie Canyon Montana, U.S.A. opened 19890914.	44 49 39.6 N (44.8277)	112 50 55.8 W (112.8488)	2323.0	BUT
MCPQ	RD	Mount Cooper Queensland, Australia opened 19840223. ODM code MCP.	20 33 07.2 S (20.5520)	146 48 21.6 E (146.8060)	300.0	ODM
MCT		Monte Cammarata Sicilia, Italy	37 37 52.0 N (37.6311)	13 38 01.0 E (13.6336)	1565.0	ERC
MCWV	D	Mont Choteau West Virginia, U.S.A. opened 199104.	39 39 29.2 N (39.6581)	79 50 44.2 W (79.8456)	280.0	USNN USTN
MDI		Monti di Nese Lombardia, Italy	45 46 38.0 N (45.7772)	9 42 41.0 E (9.7114)	...	ROM
MDL		Mandileni Cape Province, South Africa opened 1988.	30 42 36.0 S (30.7100)	28 48 00.0 E (28.8000)	1320.0	PRE
MDM		Murphy Dome Central Alaska, Alaska, U.S.A. opened 19900216.	64 57 31.8 N (64.9588)	148 13 46.2 W (148.2295)	634.0	GIA
MDO	R	Dochfour Scotland, United Kingdom opened 1981.	57 26 27.6 N (57.4410)	4 21 46.8 W (4.3630)	366.0	BGS
MDSJ		Mudaysisat Jordan	31 37 55.2 N (31.6320)	36 15 07.2 E (36.2520)	970.0	JSO
MECU	C	Ecuador Network (Micotambo) Ecuador	0 32 15.0 S (0.5375)	78 14 39.0 W (78.2442)	4090.0	QUI
MEKA		Meekatharra Western Australia, Australia opened 19860501.	26 36 51.1 S (26.6142)	118 32 01.0 E (118.5336)	390.0	AUST

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MEMT		Mount Ellis Montana, U.S.A. opened 19871015.	45 36 14.4 N (45.6040)	110 58 10.8 W (110.9697)	1951.0	BUT
MENF		Mencas Picardie, France	50 33 28.6 N (50.5579)	2 09 17.9 E (2.1550)	100.0	
MENI		Mendum Tagoi Irian Jaya, Indonesia opened 1991.	2 30 37.0 S (2.5103)	140 25 00.5 E (140.4168)	300.0	DJA
MEP		Monte del Estado Puerta Rico opened 199007.	18 08 45.0 N (18.1458)	66 58 52.0 W (66.9811)	...	MPR
MEU		Monte Lauro Sicilia, Italy	37 06 04.0 N (37.1011)	14 55 48.0 E (14.9300)	985.0	ERC
MEW		McNeil Island Washington, U.S.A. opened 198503.	47 12 07.0 N (47.2019)	122 38 45.0 W (122.6458)	98.0	SEA
MFI	R	Fishrie Scotland, United Kingdom opened 1988.	57 36 41.8 N (57.6116)	2 17 43.1 W (2.2953)	220.0	BGS
MFTN		Millsfield Tennessee, U.S.A.	36 09 39.6 N (36.1610)	89 23 34.8 W (89.3930)	113.0	SLM
MGR	D	Marigerati Campania, Italy	40 08 15.4 N (40.1376)	15 33 17.4 E (15.5548)	260.0	ROM
MGRP	R	Monte Groppo Veneto, Italy	...	...	...	TRI
MHD		Mile High Drive Salt Lake County, Utah, U.S.A. opened 19901004.	40 39 38.4 N (40.6607)	111 48 03.0 W (111.8008)	1597.0	SLC
MHPQ	RD	Mount Hope Queensland, Australia opened 19840410. ODM code MHP.	21 23 45.6 S (21.3960)	146 48 07.2 E (146.8020)	200.0	ODM
MILT		Milan Tennessee, U.S.A. opened 198511.	35 50 56.0 N (35.8489)	88 43 58.4 W (88.7329)	146.0	TEIC
MIO	R	Marion Island Prince Edward Islands	46 57 30.0 S (46.9583)	37 54 00.0 E (37.9000)	10.0	PRE
MIV		Mineville/Witherbee New York, U.S.A. opened 198506.	44 04 27.0 N (44.0742)	73 31 48.0 W (73.5300)	...	PAL
MIYJ	R	Miyako 2 Honshu, Japan opened 19900423.	39 34 24.0 N (39.5733)	141 49 18.0 E (141.8217)	200.0	JMA
MJ2		Rockwell Inc. Station Washington, U.S.A. opened 19890313.	46 33 28.0 N (46.5578)	119 21 50.0 W (119.3639)	150.0	SEA
MJMA		Al Majma'ah Saudi Arabia opened 199003.	25 51 18.0 N (25.8550)	45 17 20.4 E (45.2890)	650.0	RYD
MMCZ		Mount Michael South Island, New Zealand	45 00 13.0 S (45.0036)	169 07 52.7 E (169.1313)	1163.0	WELC
MME		Monte Cimone Emilia-Romagna, Italy	44 11 37.0 N (44.1936)	10 42 00.0 E (10.7000)	2160.0	ERC
MMI	F	(Mercalli intensity descriptor)				
MML		Mount Malkishua Israel opened 19860501.	32 26 06.3 N (32.4351)	35 24 47.9 E (35.4133)	510.0	JER
MMR		Mount Meron Israel opened 199105.	32 59 24.0 N (32.9900)	35 25 12.0 E (35.4200)	1108.0	JER
MNCI	R	Minicoy Lakshadweep, India	7 18 .. N (7.3000)	73 06 .. E (73.1000)	...	NDI
MNGI	R	Mangalore Karnataka, India	12 52 .. N (12.8667)	74 52 .. E (74.8667)	...	NDI
MNO		Monte Soro Sicilia, Italy	37 55 52.0 N (37.9311)	14 41 42.0 E (14.6950)	1840.0	ERC
MOC		Mount Cameroan Cameroon opened 19851123.	4 17 13.2 N (4.2870)	9 13 01.2 E (9.2170)	2475.0	YND
MOE		Montemor-a-Nova Portugal opened 19830219.	38 31 21.9 N (38.5228)	8 21 02.1 W (8.3506)	263.0	INMG
MOH	D	Mohaka North Island, New Zealand opened 19870319.	39 07 57.0 S (39.1325)	177 08 52.2 E (177.1478)	245.0	WELH
MOKY		Morganfield Kentucky, U.S.A. opened 1989.	37 28 49.2 N (37.4803)	87 54 03.6 W (87.9010)	204.0	BHKY
MOL		Malde Norway opened 198702.	62 34 12.0 N (62.5700)	7 32 52.8 E (7.5480)	98.0	BER
MOLL		Mallejon Venezuela opened 1984.	7 44 06.0 N (7.7350)	71 37 44.4 W (71.6290)	900.0	CAR
MOMI		Mamias Spain Also sent to NEIS by MDD.	36 19 18.0 N (36.3217)	5 43 14.4 W (5.7207)	344.0	SFS
MONL		Mant Aquitaine, France	43 25 58.0 N (43.4328)	0 39 02.0 W (0.6506)	100.0	STR

STATIONS ADDED SINCE STATION BOOK (OF 85-714) WAS PRINTED

Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
MOOW		Moose Ponds Wyoming, U.S.A. opened 198601.	43 44 54.9 N (43.7486)	110 44 41.4 W (110.7448)	2128.0	USBR
MOPM		Molcaxac Puebla, Mexico UNM code MOP.	18 44 .. N (18.7333)	97 55 .. W (97.9167)	1840.0	UNM
MOR1	C	Mai Rana Norway 1989-19891212.	66 14 14.8 N (66.2374)	14 46 19.5 E (14.7721)	650.0	BER
MOR2	C	Mai Rana Norway 1989-19891212.	66 14 11.6 N (66.2366)	14 46 26.6 E (14.7741)	...	BER
MOR3	U	Mai Rana Norway closed 19891212.	66 14 08.7 N (66.2357)	14 46 20.6 E (14.7724)	...	BER
MOR4	C	Mai Rana Norway 1989-19891212.	66 14 12.1 N (66.2367)	14 46 00.6 E (14.7668)	...	BER
MOR5	U	Mai Rana Norway closed 19891212.	66 14 15.8 N (66.2377)	14 45 59.0 E (14.7664)	...	BER
MOR6	C	Mo i Rana Norway 198602-19891212.	66 14 13.2 N (66.2370)	14 46 01.2 E (14.7670)	650.0	BER
MOR7		Mai Rana Norway opened 19900523.	66 17 06.0 N (66.2850)	14 44 06.0 E (14.7350)	435.0	BER
MORO		Morrocoy Venezuela opened 1984.	10 52 19.9 N (10.8722)	68 18 57.6 W (68.3160)	920.0	CAR
MOTA		Moosalm Austria opened 19910209.	47 20 41.3 N (47.3448)	11 06 13.4 E (11.1037)	1575.0	VIE
MOZ	D	Mahoenui North Island, New Zealand opened 19900426.	38 30 21.0 S (38.5058)	174 48 10.8 E (174.8030)	160.0	WEL
MPOR		Mary's Peak Oregon, U.S.A. opened 199008. SEA code MPO.	44 30 17.4 N (44.5048)	123 33 00.6 W (123.5502)	1249.0	SEA
MQZ	D	McQueen's Valley South Island, New Zealand opened 19891011.	43 42 28.2 S (43.7078)	172 39 07.8 E (172.6522)	60.0	WEL
MRB		Montserrat Spain	41 35 41.4 N (41.5948)	1 50 13.8 E (1.8372)	890.0	MRB
MRH	D	Marewa North Island, New Zealand opened 19870319.	39 29 57.0 S (39.4992)	176 53 18.0 E (176.8883)	4.0	WELH
MRPI	R	Mariponipan Sumatera, Indonesia	1 36 45.0 N (1.6125)	99 19 02.0 E (99.3172)	1100.0	DJA
MRX	D	Morelia Michoacan, Mexico opened 1988.	19 42 16.2 N (19.7045)	101 11 30.0 W (101.1917)	...	UNM
MSCZ		Mautere Station South Island, New Zealand	45 05 35.0 S (45.0931)	169 24 42.0 E (169.4117)	701.0	WELC
MSDA		Masada Israel	31 19 12.0 N (31.3200)	35 17 24.0 E (35.2900)	400.0	JER
MSF	R	Mooselka Finland	65 54 40.0 N (65.9111)	29 02 40.0 E (29.0444)	...	HEL
MSTB		Masset British Columbia, Canada opened 19871204.	54 00 12.0 N (54.0033)	132 07 05.0 W (132.1181)	91.0	OTTR
MTAT	F	MTA--Mineral Research and Exploration Inst, Ankara				
MTHF		Mouthoumet Languedoc-Rousillon, France opened 198901.	42 56 19.0 N (42.9386)	2 32 02.0 E (2.5339)	620.0	STR
MTLO	R	Montella Veneto, Italy opened 1987.	...	...	...	TRI
MTMW		Mount Mitchell Washington, U.S.A. opened 198003. SEA code MTM.	46 01 31.8 N (46.0255)	122 12 42.0 W (122.2117)	1121.0	SEA
MTO	R	Montecristo El Salvador	14 23 23.0 N (14.3897)	89 24 18.0 W (89.4050)	1380.0	SSS
MTRO	R	Mount Read Tasmania, Australia	41 50 49.2 S (41.8470)	145 32 13.2 E (145.5370)	...	TAU
MTST	R	Ma-tsu China (Taiwan)	26 05 24.0 N (26.0900)	119 33 36.0 E (119.5600)	113.0	TAP
MTUR		Matau Romania opened 198808.	45 13 34.0 N (45.2261)	25 03 47.0 E (25.0631)	1018.0	BUC
MUDI		Mud Lake Idaho, U.S.A. opened 198601.	43 37 07.9 N (43.6189)	111 04 37.4 W (111.0771)	2124.0	USBR
MUDJ		..... Jordan	29 25 19.2 N (29.4220)	35 49 12.0 E (35.8200)	900.0	JSO
MUX		Union Juarez Chiapas, Mexico	15 04 44.4 N (15.0790)	92 04 26.4 W (92.0740)	...	UNM
MVIF		Mont Vial Provence-Cote d'Azur, France	43 53 46.8 N (43.8963)	7 09 09.0 E (7.1525)	1480.0	STR

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MVO		Moncorvo Portugal opened 19800801.	41 09 52.0 N (41.1644)	7 01 43.9 W (7.0289)	860.0	INMG
MXC		Moxie City Washington, U.S.A. opened 198410. SEA code MOX.	46 34 38.0 N (46.5772)	120 17 35.0 W (120.2931)	540.0	SEA
MZDA		Masada Israel opened 199105.	31 19 12.0 N (31.3200)	35 17 24.0 E (35.2900)	-300.0	JER
NAC		Naches Washington, U.S.A.	46 44 03.8 N (46.7344)	120 49 33.2 W (120.8259)	738.0	SEA
NAIN	C	Natchez Trace State Park Tennessee, U.S.A. 19850327-19870306.	35 51 21.6 N (35.8560)	88 14 24.0 W (88.2400)	198.0	TVA
NAIU		Northern Antelope Island Davis County, Utah, U.S.A. opened 19911113.	41 00 58.2 N (41.0162)	112 13 40.8 W (112.2280)	1472.0	SLC
NANS		Nanahuazin El Salvador SSS code NAN.	13 42 54.0 N (13.7150)	89 30 33.0 W (89.5092)	1160.0	SSS
NANU		Nanutarra Western Australia, Australia opened 19871022.	22 33 43.2 S (22.5620)	115 31 44.4 E (115.5290)	80.0	AUST
NAOJ		Naqb Ishtar Jordan	30 00 00.0 N (30.0000)	35 30 18.0 E (35.5050)	164.0	JSO
NCA	C	Nelchina Central Alaska, Alaska, U.S.A. opened 19860717.	61 59 37.2 N (61.9937)	146 49 27.0 W (146.8242)	741.0	GIA
NCG		North Copps Glacier Western Alaska, Alaska, U.S.A. opened 19890807.	61 24 13.2 N (61.4037)	152 09 24.0 W (152.1567)	1244.0	AGS
NCT		North Crescent Western Alaska, Alaska, U.S.A. opened 19880814.	60 33 42.0 N (60.5617)	152 55 46.8 W (152.9297)	1166.0	AGS
NDB		Naden British Columbia, Canada	53 57 18.0 N (53.9550)	132 56 30.0 W (132.9417)	686.0	OTTR
NE01	CD	Goteborg Sweden 198302-198601.	57 48 03.6 N (57.8010)	12 07 55.2 E (12.1320)	55.0	NARS
NE02	D	Mansted Denmark opened 198302.	56 27 32.4 N (56.4590)	9 10 12.0 E (9.1700)	60.0	NARS
NE03	D	Lagumkloster Denmark opened 198302.	55 02 42.0 N (55.0450)	9 09 10.8 E (9.1530)	25.0	NARS
NE04	D	Witteveen The Netherlands opened 198207.	52 48 48.0 N (52.8133)	6 40 06.0 E (6.6683)	17.0	NARS
NE05	D	Utrecht The Netherlands 198203-198406; reopened 198601.	52 05 16.8 N (52.0880)	5 10 19.2 E (5.1720)	2.0	NARS
NE06	D	Dourbes Belgium opened 198207.	50 05 49.2 N (50.0970)	4 35 42.0 E (4.5950)	225.0	NARS
NE07	D	Villiers-Adam Ile-de-France, France opened 198311.	49 04 27.8 N (49.0744)	2 13 54.8 E (2.2319)	70.0	NARS
NE08	CD	Aigurande Centre, France 198211-198412.	46 25 12.0 N (46.4200)	1 43 48.0 E (1.7300)	360.0	NARS
NE09	CD	Les Eyzies Aquitaine, France 198211-198602.	44 51 07.2 N (44.8520)	0 58 51.6 E (0.9810)	160.0	NARS
NE10	D	Arette Aquitaine, France opened 198211.	43 05 09.6 N (43.0860)	0 41 56.4 W (0.6990)	480.0	NARS
NE11	D	Ainzon Spain opened 1983.	41 48 50.4 N (41.8140)	1 31 01.2 W (1.5170)	440.0	NARS
NE11*	CD	La Almunia Spain 198305-198311.	41 28 37.2 N (41.4770)	1 22 19.2 W (1.3720)	370.0	NARS
NE12	CD	Valle de los Caidos Spain 198305-198502.	40 38 31.2 N (40.6420)	4 09 18.0 W (4.1550)	1280.0	NARS
NE13	D	Puertollano Spain opened 198305.	38 41 06.0 N (38.6850)	4 05 27.6 W (4.0910)	700.0	NARS
NE14	D	Granada Spain opened 198305.	37 11 24.0 N (37.1900)	3 35 42.0 W (3.5950)	774.0	NARS
NE15	D	Valkenburg The Netherlands opened 198406.	50 52 01.2 N (50.8670)	5 47 06.0 E (5.7850)	100.0	NARS
NE16	D	Clermont Ferrand Auvergne, France opened 198411.	45 45 46.0 N (45.7628)	3 06 09.0 E (3.1025)	80.0	NARS
NE17	D	Toledo Spain opened 198502.	39 52 53.0 N (39.8814)	4 02 55.0 W (4.0486)	480.0	NARS

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NE18	D	Les Rejaudaux Limousin, France opened 198602.	45 18 16.0 N (45.3044)	1 30 59.0 E (1.5164)	410.0	NARS
NECR	R	Nordeste de Costa Rica Costa Rica	...	...	...	HDC
NEO		Neokhori Greece opened 1988.	39 18 24.0 N (39.3067)	23 13 24.6 E (23.2235)	500.0	ATH
NGI		Nogai Island Alaska Peninsula, Alosko, U.S.A.	55 02 21.6 N (55.0393)	160 04 09.0 W (160.0692)	240.0	PAL
NGJA		... Assam, India	26 42 24.0 N (26.7067)	91 40 30.0 E (91.6750)	60.0	JHI
NGNA		Nongstoin Meghalaya, India	25 31 18.0 N (25.5217)	91 16 19.2 E (91.2720)	...	JHI
NGP	R	Nogpur Maharoshtra, India	21 09 .. N (21.1500)	79 03 .. E (79.0500)	311.0	NDI
NINI		Niniconang Sulowesi, Indonesia opened 1991.	4 25 21.0 S (4.4225)	119 45 23.0 E (119.7564)	1463.0	DJA
NJJJ	R	Nii-shima 2 Banin Islands, Japan	34 24 .. N (34.4000)	139 17 .. E (139.2833)	180.0	JMA
NKC		Navy Kastel Czechaslavakia	50 13 58.8 N (50.2330)	12 26 52.8 E (12.4480)	...	PRU
NLO		Nicalai Mauntain Oregan, U.S.A.	46 05 18.0 N (46.0883)	123 27 00.0 W (123.4500)	900.0	SEA
NLW		Nelson Butte Washington, U.S.A. opened 198505. SEA code NEL.	48 04 41.8 N (48.0783)	120 20 17.7 W (120.3383)	1490.0	SEA
NMMO		New Madrid Missouri, U.S.A.	36 35 16.8 N (36.5880)	89 33 07.2 W (89.5520)	90.0	SLM
NOC	RD	Naumea New Caledania opened 19851209.	22 10 12.0 S (22.1700)	166 15 00.0 E (166.2500)	5.0	NOU GEOS
NOZ	D	North Gisbarne North Island, New Zealand opened 19900305.	38 37 04.8 S (38.6180)	178 02 12.0 E (178.0367)	60.0	WEL
NPRI		New Productian Reactor Idaha, U.S.A. opened 19900814.	43 35 51.0 N (43.5975)	112 49 37.8 W (112.8272)	1513.0	USGS
NRZ	D	Ngariki Road North Island, New Zealand opened 199006.	39 20 15.0 S (39.3375)	173 55 59.0 E (173.9331)	300.0	WEL
NSD	R	Nasudden Sweden opened 1991.	65 11 43.8 N (65.1955)	18 49 24.6 E (18.8235)	...	HFS
NSS		Namsas Narway opened 198702.	64 31 48.0 N (64.5300)	11 58 01.2 E (11.9670)	102.0	BER
NUF	R	... Finland	...	...	...	HEL
NUXM	R	Nuxco Guerrera, Mexico	17 12 39.0 N (17.2108)	100 45 16.8 W (100.7547)	80.0	UNM
NWC		North Woods Club New York, U.S.A. opened 198610.	43 50 42.0 N (43.8450)	74 09 00.6 W (74.1502)	...	PAL
OBC		Olympics--Banidu Creek Washingtan, U.S.A. opened 198007.	48 02 07.1 N (48.0353)	124 04 39.0 W (124.0775)	938.0	SEA
OBH		Olympics--Burnt Hill Washington, U.S.A.	47 19 34.5 N (47.3262)	123 51 57.0 W (123.8658)	383.0	SEA
OC2		Ocas 2 Guatemala opened 1988.	14 33 37.8 N (14.5605)	92 11 09.6 W (92.1860)	5.0	GCG
OCM		Ochamaga Costa Rica	9 53 41.4 N (9.8948)	83 57 39.0 W (83.9608)	1660.0	HDC
OD2		Odessa Site #2 Washington, U.S.A. opened 198906.	47 23 27.6 N (47.3910)	118 42 38.4 W (118.7107)	590.0	SEA
ODD1		Odda Narway opened 19871203.	59 54 43.2 N (59.9120)	6 37 40.8 E (6.6280)	684.0	BER
ODZ		Otahua Dawns Sauth Island, New Zealand opened 19900831.	45 02 43.0 S (45.0453)	170 38 40.0 E (170.6444)	270.0	WEL
OFK		Olympics--Forks Washingtan, U.S.A. opened 198007.	47 57 00.0 N (47.9500)	124 21 28.1 W (124.3578)	134.0	SEA
OGTN		Old Graveyard Slaugh Tennessee, U.S.A.	36 25 12.0 N (36.4200)	89 29 09.6 W (89.4860)	91.0	SLM
OHTN		Owl Hoat Tennessee, U.S.A.	36 09 00.0 N (36.1500)	89 31 12.0 W (89.5200)	82.0	SLM
OJEN		Ojen Spain Alsa sent to NEIS by MDD.	36 06 00.0 N (36.1000)	5 32 13.2 W (5.5370)	804.0	SFS
OLLA		Las Ollas Venezuela opened 1984.	10 01 08.4 N (10.0190)	66 48 14.4 W (66.8040)	947.0	CAR
OLQ		Olympics--Lake Quinalt Washington, U.S.A. apened 198007.	47 39 58.1 N (47.6661)	123 48 31.5 W (123.8087)	121.0	SEA

Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
OLT		Olot Spain opened 1986. Sent to NEIS by MDD.	42 08 39.6 N (42.1443)	2 28 27.6 E (2.4743)	700.0	MRB
OLW		Olympia Washington, U.S.A. opened 19860802	47 04 22.0 N (47.0728)	122 55 21.0 W (122.9225)	37.0	
OMWY	R	Oxenhope Moor England, United Kingdom	53 47 27.2 N (53.7909)	1 58 47.6 W (1.9799)	438.0	OMB
ONAJ	R	Onahama 2 Honshu, Japan opened 19900423.	37 07 00.0 N (37.1167)	140 47 54.0 E (140.7983)	660.0	JMA
ONF		Office National des Forets Aquitaine, France opened 198502?	43 05 42.0 N (43.0950)	0 42 57.6 W (0.7160)	30.0	PAR
ONR		Olympics--North River Washington, U.S.A. opened 198007.	46 52 37.5 N (46.8771)	123 46 16.5 W (123.7713)	257.0	SEA
OOW		Octopus West Washington, U.S.A. opened 198406.	47 44 12.0 N (47.7367)	124 11 22.0 W (124.1894)	743.0	SEA
OR1		(Alternate Abbreviation for ORI)				
ORGA		Alberta, Canada Sent to NEIS by PGC.	49 33 14.0 N (49.5539)	114 06 02.9 W (114.1008)	1257.0	
ORX		Oropa Piemonte, Italy	45 37 57.0 N (45.6325)	7 58 54.0 E (7.9817)	1250.0	GEN
OSCM		Ostuacan Chiapas, Mexico UNM code OSC.	17 24 20.0 N (17.4056)	93 20 05.0 W (93.3347)	...	UNM
OSD		Olympics--Snow Dome Washington, U.S.A. opened 198410.	47 49 15.0 N (47.8208)	123 42 06.0 W (123.7017)	2010.0	SEA
OSG		Oseberg A Platform Norway opened 1988.	60 29 49.2 N (60.4970)	2 52 33.6 E (2.8760)	-100.0	BER
OSM	R	Ostula Michoacan, Mexico	18 29 50.0 N (18.4972)	103 28 19.0 W (103.4719)	...	UNM
OSP		Olympics--Soaes Peak Washington, U.S.A. opened 198310.	48 17 05.5 N (48.2849)	124 35 23.3 W (124.5898)	585.0	SEA
OT2		Othello Washington, U.S.A. opened 198812.	46 43 17.0 N (46.7214)	119 14 05.0 W (119.2347)	355.0	SEA
OTR		Olympics--Tyee Ridge Washington, U.S.A. opened 198406.	48 05 00.0 N (48.0833)	124 20 39.0 W (124.3442)	712.0	SEA
OUZ		Omahuta North Island, New Zealand opened 19910312.	35 13 17.0 S (35.2214)	173 35 46.0 E (173.5961)	40.0	WEL
OXFB	R	Oxford Borehole Mississippi, U.S.A.	34 28 30.4 N (34.4751)	89 20 36.0 W (89.3433)	-390.0	
PAB		San Pablo de los Montes Spain	39 32 45.0 N (39.5458)	4 20 54.0 W (4.3483)	938.0	MDD
PACI		Pancar Gunung Jawa, Indonesia opened 199110.	6 35 34.0 S (6.5928)	106 54 37.0 E (106.9103)	850.0	DJA
PACM	R	La Paz Baja California Sur, Mexico	21 10 06.0 N (21.1683)	110 12 42.0 W (110.2117)	..	UNM
PACW		Pacific Creek Wyoming, U.S.A. opened 198601.	43 54 08.3 N (43.9023)	110 29 07.0 W (110.4853)	2140.0	USBR
PAHZ		Ponekirikiri North Island, New Zealand	38 51 33.0 S (38.8592)	177 03 15.0 E (177.0542)	563.0	WELH
PALM	R	Palmichal Venezuela opened 1984.	10 12 16.6 N (10.2046)	64 26 19.7 W (64.4388)	1100.0	CAR
PALR		Palma Real Venezuela opened 1984.	11 00 00.0 N (11.0000)	63 54 39.6 W (63.9110)	920.0	CAR
PANV		Panamint Range Inyo County, California, U.S.A. opened 19880401.	36 23 54.0 N (36.3983)	117 05 57.0 W (117.0992)	1830.0	USGS
PASI		Pasiripis Jawa, Indonesia opened 199110.	6 41 22.0 S (6.6894)	105 35 20.0 E (105.5889)	220.0	DJA
PATW		Paterson Washington, U.S.A. SEA code PAT.	45 52 50.1 N (45.8806)	119 45 40.1 W (119.7611)	300.0	SEA
PATZ		Paeroa North Island, New Zealand opened 1991.	38 22 53.0 S (38.3814)	176 15 30.0 E (176.2583)	940.0	WELT
PAY		Mexico	17 28 18.0 N (17.4717)	93 29 28.8 W (93.4913)	...	UNM
PCB		Port Clements British Columbia, Canada	53 42 22.0 N (53.7061)	132 34 03.0 W (132.5675)	634.0	OTTR
PCBI	R	Pancar Batu Sumatera, Indonesia	1 53 24.0 N (1.8900)	98 55 31.0 E (98.9253)	1000.0	DJA
PCG		Pacaya Guatemala opened 198705?	14 23 .. N (14.3833)	90 39 .. W (90.6500)	2550.0	GCG

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PCHP	R	Portachuelo Peru	6 01 58.8 S (6.0330)	79 40 58.8 W (79.6830)	150.0	LIM
PCP		Pian Castagno-Ponzone Piemonte, Italy opened 19890315.	44 32 30.6 N (44.5418)	8 32 42.6 E (8.5452)	770.0	GEN
PCYT	R	P'eng-chia Yu China (Taiwan)	25 37 46.0 N (25.6294)	122 04 16.5 E (122.0713)	101.7	TAP
PDCR		Pedra da Cavalo Reservoir Bahia, Brazil opened 19870101.	12 31 52.8 S (12.5313)	39 07 21.0 W (39.1225)	220.0	VAO
PDEM	R	Puerto del Eden Guerrero, Mexico	17 27 47.4 N (17.4632)	100 44 27.6 W (100.7410)	1620.0	UNM
PDUI		Pindiu New Guinea, Papua New Guinea opened 19880616.	6 26 49.2 S (6.4470)	147 30 39.6 E (147.5110)	950.0	PMG
PECU	C	Ecuadar Network Ecuadar	0 23 42.0 S (0.3950)	78 36 09.0 W (78.6025)	3550.0	QUI
PENI		Pendagan Sumatera, Indonesia opened 199110.	5 34 00.0 S (5.5667)	105 10 16.0 E (105.1711)	200.0	DJA
PENM	R	... Chiapas, Mexico IIM code PEN.	17 26 09.6 N (17.4360)	93 31 40.8 W (93.5280)	...	IIM
PEO	R	Puerta Escandida Oaxaca, Mexica	15 51 04.2 N (15.8512)	97 03 19.8 W (97.0555)	3.0	UNM
PEP		Pantabangan Luzan, Philippines	15 48 39.6 N (15.8110)	121 06 25.2 E (121.1070)	...	MAN
PERF		Col du Perthus Languedac-Rausillan, France opened 198901.	42 29 08.0 N (42.4856)	2 52 27.0 E (2.8742)	490.0	STR
PFH		Pahaa Fire House Hawaii, Hawaii, U.S.A. opened 1986.	19 29 48.8 N (19.4969)	154 56 55.0 W (154.9486)	201.0	HON
PGB		Panagyurishte Bulgaria opened 1988.	42 33 00.0 N (42.5500)	24 10 00.1 E (24.1667)	775.0	SOF
PGD		Paggia Sada Emilia-Ramagna, Italy Also sent ta NEIS by ROM.	43 52 31.0 N (43.8753)	11 43 17.0 E (11.7214)	1600.0	ERC
PGF		Piaggiala Carse, France opened 19891115.	42 32 54.0 N (42.5483)	8 59 58.0 E (8.9994)	1130.0	LDG
PGO		Gresham Oregan, U.S.A. opened 198206.	45 28 00.0 N (45.4667)	122 27 10.0 W (122.4528)	237.0	SEA
PGOM	R	Puerta del Gallo Guerrero, Mexico	...	...	...	UNM
PGW		Part Gamble Washington, U.S.A. opened 198504.	47 49 18.8 N (47.8219)	122 35 57.7 W (122.5994)	122.0	SEA
PGY		Peter Gray Mountain New York, U.S.A. opened 198611.	43 42 27.6 N (43.7077)	74 02 42.6 W (74.0452)	...	PAL
PGZ	D	Pangarae North Island, New Zealand opened 198804.	40 37 07.8 S (40.6188)	176 16 25.2 E (176.2737)	60.0	WEL
PICO		Pica Azares, Partugal opened 19880526.	38 30 03.0 N (38.5008)	28 25 32.0 W (28.4256)	775.0	PDA
PII	D	Pisa Tascana, Italy	43 43 16.3 N (43.7212)	10 31 25.8 E (10.5238)	50.0	ROM
PINI		Pine Creek Idaha, U.S.A. opened 198601.	43 30 27.4 N (43.5076)	111 20 44.6 W (111.3457)	1932.0	USBR
PINR		Pinar Spain	36 29 56.4 N (36.4990)	6 07 06.0 W (6.1183)	10.0	SFS
PKO		Pickens Oklahama, U.S.A. opened 19871016.	34 23 50.3 N (34.3973)	95 01 51.8 W (95.0311)	264.0	TUL
PLAT		Plata Spain Also sent ta NEIS by MDD.	36 07 15.6 N (36.1210)	5 45 30.6 W (5.7585)	460.0	SFS
PLAV		Platillan Venezuela opened 1984. CAR code PLAT.	9 52 26.4 N (9.8740)	67 30 08.6 W (67.5024)	1830.0	CAR
PLBC		Pleasant Camp British Calumbia, Canada opened 19900920.	59 27 24.0 N (59.4567)	136 21 54.0 W (136.3650)	280.0	OTTR
PLR		Palerma Sicilia, Italy	38 08 38.4 N (38.1440)	13 20 51.6 E (13.3477)	60.0	
PLRO	RD	Paularo Friuli-Venezia Giulia, Italy opened 19880101.	46 32 59.0 N (46.5497)	13 08 53.0 E (13.1481)	1420.0	TRI
PN1	R	Presa Penitas No. 1 Chiapas, Mexica	17 28 08.4 N (17.4690)	93 29 16.8 W (93.4880)	...	IIM
PN2	R	Presa Penitas No. 2 Chiapas, Mexica	17 26 16.8 N (17.4380)	93 27 01.8 W (93.4505)	...	IIM
PN3	R	Presa Penitas No. 3 Chiapas, Mexica	17 21 14.4 N (17.3540)	93 36 28.8 W (93.6080)	...	IIM

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Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
PN4	R	Presa Penitas No. 4	17 10 44.4 N	93 23 42.0 W	...	IIM
		Chiapas, Mexico	(17.1790)	(93.3950)		
PN6	C	Pavlof North-6	55 27 07.1 N	161 54 53.3 W	814.0	PAL
		Alaska Peninsula, Alaska, U.S.A.	(55.4520)	(161.9148)		
		closed 199007.				
POA2		Poas 2	10 10 37.8 N	84 15 03.0 W	2500.0	HDC
		Costa Rica	(10.1772)	(84.2508)		
		opened 19860506.				
POBI	C	Pontebba	46 30 48.0 N	13 16 36.0 E	860.0	TRI
		Friuli-Venezia Giulia, Italy	(46.5133)	(13.2767)		
		19830130-19880101.				
POF		Pofadder	29 22 54.0 S	19 57 00.0 E	...	PRE
		Cape Province, South Africa	(29.3817)	(19.9500)		
		opened 1986.				
POGM	R	Potrera Grande	17 22 30.6 N	100 37 16.8 W	650.0	UNM
		Guerrero, Mexico	(17.3752)	(100.6213)		
PORM	R	...	17 10 44.4 N	93 23 42.0 W	...	UNM
		Chiapas, Mexico	(17.1790)	(93.3950)		
		UNM code POR.				
PORP		Portuguez	18 03 13.7 N	66 38 13.2 W	218.0	MPR
		Puerto Rico	(18.0538)	(66.6370)		
		opened 198908.				
PPCY		Paphos	34 53 05.0 N	32 20 42.0 E	60.0	CSS
		Cyprus	(34.8847)	(32.3450)		
		opened 198702.				
PPD		Presidente Prudente	22 01 53.0 S	51 18 43.0 W	406.0	VAO
		Sao Paulo, Brazil	(22.0314)	(51.3119)		
		opened 198802.				
PPNM	R	Poponaa	17 18 01.8 N	101 02 16.2 W	260.0	UNM
		Guerrero, Mexico	(17.3005)	(101.0378)		
PPOM	R	El Papayo	17 01 12.0 N	100 14 24.0 W	100.0	UNM
		Guerrero, Mexico	(17.0200)	(100.2400)		
PRP		Porcupine Dome	65 31 04.2 N	145 31 20.4 W	1498.0	GIA
		Central Alaska, Alaska, U.S.A.	(65.5178)	(145.5223)		
		opened 19900216. GIA code PDP.				
PRSC	R	...	49 00 54.0 N	18 33 14.4 E	...	PRU
		Czechoslovakia	(49.0150)	(18.5540)		
PS4		Pavlof South-4	55 21 14.3 N	161 52 05.5 W	520.0	PAL
		Alaska Peninsula, Alaska, U.S.A.	(55.3540)	(161.8682)		
PSG2		Puerto de San Jose 2	13 57 07.8 N	90 48 55.8 W	5.0	GCG
		Guatemala	(13.9522)	(90.8155)		
		opened 1988. GCG code PS2.				
PSL	R	Pistoia	44 00 28.0 N	10 57 56.0 E	810.0	PRT
		Toscana, Italy	(44.0078)	(10.9656)		
PSM		Palmasola	16 42 17.4 N	95 02 27.6 W	750.0	UNM
		Oaxaca, Mexico	(16.7048)	(95.0410)		
		opened 199001.				
PSR		Paul Sauer Dam	33 40 48.0 S	24 24 36.0 E	360.0	PRE
		Cape Province, South Africa	(33.6800)	(24.4100)		
		opened 1988.				
PTF	R	Prato	43 57 34.0 N	11 04 11.0 E	550.0	PRT
		Toscana, Italy	(43.9594)	(11.0697)		
PTH		Pithoragarh	29 33 .. N	80 13 .. E	1669.0	NDI
		Uttar Pradesh, India	(29.5500)	(80.2167)		
PTS		Isola di Pantelleria	36 48 25.9 N	11 59 34.4 E	150.0	ERC
		Italy	(36.8072)	(11.9929)		
PTT		Piatra Neamt	46 56 05.0 N	26 23 10.0 E	350.0	BUC
		Romania	(46.9347)	(26.3861)		
		opened 19870115.				
PUCA	R	Punta Cana	18 35 16.8 N	68 24 10.2 W	...	SDD
		Dominican Republic	(18.5880)	(68.4028)		
PULI		Pulasari	6 20 42.0 S	105 58 32.0 E	1346.0	DJA
		Java, Indonesia	(6.3450)	(105.9756)		
PURC		Volcan Purace	2 19 19.8 N	76 21 42.0 W	3950.0	UVC
		Colombia	(2.3222)	(76.3617)		
		opened 1987.				
PUYF		Puyloubier	43 31 56.3 N	5 42 01.1 E	460.0	STR
		Provence-Cote d'Azur, France	(43.5323)	(5.7003)		
PUZ	D	Puketiti	38 04 24.0 S	178 15 25.8 E	420.0	WEL
		North Island, New Zealand	(38.0733)	(178.2572)		
		opened 19891211.				
PVF	R	Porvoo	...	...	...	HEL
		Finland				
PVV		Pavlof Volcano	55 22 27.1 N	161 47 23.9 W	164.0	PAL
		Alaska Peninsula, Alaska, U.S.A.	(55.3742)	(161.7900)		
PXO	R	...	15 44 52.2 N	96 18 10.8 W	25.0	UNM
		Oaxaca, Mexico	(15.7478)	(96.3030)		
PZCI		Patelzick Creek	44 20 27.6 N	112 19 01.2 W	2073.0	USGS
		Idaho, U.S.A.	(44.3410)	(112.3170)		
PZZ		Prazzo (Stroppa)	44 30 18.0 N	7 06 04.8 E	1420.0	GEN
		Piemonte, Italy	(44.5050)	(7.1013)		
QAP	F	(phase code designation)				
QASM		Qassim	26 05 24.0 N	43 31 58.8 E	675.0	RYD
		Saudi Arabia	(26.0900)	(43.5330)		
		opened 198801.				
QDM	F	Queensland Dept. of Mines, Australia				
QHW	R	Quartz Hill	41 15 07.0 S	174 41 26.0 E	190.0	WELW
		North Island, New Zealand	(41.2519)	(174.6906)		
		opened 19851015.				

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Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
QIS		Mount Isa ...	20 33 27.7 S	139 36 18.7 E	330.0	AUST
		Queensland, Australia	(20.5577)	(139.6052)		
		opened 19870615.				
QLP		Quilpie ...	26 35 01.3 S	144 14 05.3 E	210.0	AUST
		Queensland, Australia	(26.5837)	(144.2348)		
		opened 19890812.				
QPCP	F	(phase code designation)				
QPCS	F	(phase code designation)				
QPKP	F	(phase code designation)				
QPP	F	(phase code designation)				
QPPP	F	(phase code designation)				
QPPS	F	(phase code designation)				
QPSS	F	(phase code designation)				
QRHJ	R	...	29 41 06.0 N	35 19 19.2 E	810.0	JSO
		Jordan	(29.6850)	(35.3220)		
QRI		Quarto ...	40 52 40.8 N	14 08 44.9 E	...	ROM
		Campania, Italy	(40.8780)	(14.1458)		
QRZ		Quartz Range ...	40 49 39.0 S	172 31 44.0 E	260.0	WEL
		South Island, New Zealand	(40.8275)	(172.5289)		
		opened 1991.				
QSCP	F	(phase code designation)				
QSCS	F	(phase code designation)				
QSKP	F	(phase code designation)				
QSKS	F	(phase code designation)				
QSPP	F	(phase code designation)				
QSSP	F	(phase code designation)				
QSSS	F	(phase code designation)				
QTBJ		...	31 07 12.0 N	36 40 19.2 E	760.0	JSO
		Jordan	(31.1200)	(36.6720)		
		opened 199001.				
QTFJ		...	31 49 22.8 N	37 28 48.0 E	648.0	JSO
		Jordan	(31.8230)	(37.4800)		
		opened 199003.				
QTRJ		...	31 18 00.0 N	36 00 36.0 E	876.0	JSO
		Jordan	(31.3000)	(36.0100)		
		opened 199003.				
QUES	R	Lama Quito Espuela ...	19 21 10.8 N	70 08 52.8 W	...	SDD
		Dominican Republic	(19.3530)	(70.1480)		
		opened 19860902.				
QUIL		Quilotoa ...	0 45 25.2 S	78 55 30.7 W	3430.0	QUI
		Ecuador	(0.7570)	(78.9252)		
		opened 1991.				
QUTJ		Qutrana ...	31 17 55.2 N	36 00 36.0 E	876.0	JSO
		Jordan	(31.2987)	(36.0100)		
		opened 1987.				
QVP		Quezon City--PHIVOLCS ...	14 37 22.8 N	121 00 14.4 E	5.0	MAN
		Luzon, Philippines	(14.6230)	(121.0040)		
		opened 1991.				
QXP	F	(phase code designation)				
QXS	F	(phase code designation)				
QZA		Quezalapa ...	13 31 26.0 N	88 59 49.0 W	250.0	SSS
		El Salvador	(13.5239)	(88.9969)		
RAMW		Rammel Mountain ...	43 53 20.3 N	110 57 00.8 W	2512.0	USBR
		Wyoming, U.S.A.	(43.8890)	(110.9502)		
		opened 198601.				
RANI		Rangndo ...	8 27 09.0 S	114 56 58.0 E	500.0	DJA
		Bali, Nusa Tenggara, Indonesia	(8.4525)	(114.9494)		
RATI		Rato ...	8 43 24.0 S	115 31 56.0 E	400.0	DJA
		Bali, Nusa Tenggara, Indonesia	(8.7233)	(115.5322)		
RC1		Royal City ...	46 56 36.0 N	119 26 00.0 W	500.0	SEA
		Washington, U.S.A.	(46.9433)	(119.4333)		
		opened 19880527.				
RDN		Redoubt North ...	60 30 49.8 N	152 45 46.8 W	1372.0	AGS
		Western Alaska, Alaska, U.S.A.	(60.5138)	(152.7630)		
		opened 1988.				
RDO		Radhapi ...	41 08 46.2 N	25 32 15.0 E	100.0	ATH
		Greece	(41.1462)	(25.5375)		
		opened 1988.				
RDW		Redoubt West ...	60 28 57.6 N	152 48 34.2 W	1813.0	AGS
		Western Alaska, Alaska, U.S.A.	(60.4827)	(152.8095)		
		opened 19900907.				
RDX		Rancho Dowling ...	31 55 56.4 N	115 56 51.0 W	1680.0	ECX
		Baja California, Mexico	(31.9323)	(115.9475)		
		opened 19880929.				
RE1		(Alternate Abbreviation for RCL)				
RECU		(Alternate Abbreviation for VC1)				
REDW		Red Top Meadow ...	43 21 44.6 N	110 51 06.4 W	2192.0	USBR
		Wyoming, U.S.A.	(43.3624)	(110.8518)		
		opened 198601.				
REF		Redoubt East Flank ...	60 29 21.0 N	152 42 06.0 W	1801.0	AGS
		Western Alaska, Alaska, U.S.A.	(60.4892)	(152.7017)		
		opened 19900314.				
REMR		Mt. Rainier--Emerald Ridge ...	46 49 09.2 N	121 50 27.3 W	1756.0	SEA
		Washington, U.S.A.	(46.8192)	(121.8409)		
		opened 19890712. SEA code RER.				
REMW		Rembrandt ...	46 11 57.0 N	122 11 03.0 W	2102.0	SEA
		Washington, U.S.A.	(46.1992)	(122.1842)		
		opened 198701. SEA code REM.				
REVF		Revere ...	43 44 24.0 N	7 22 03.0 E	700.0	STR
		Provence-Cote d'Azur, France	(43.7400)	(7.3675)		

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Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
RFI		Roccamonfina Campania, Italy	41 18 01.6 N (41.3004)	13 59 05.2 E (13.9848)	...	ROM
RGRS		Roger Stewart South Carolina, U.S.A. opened 19860601. GLD code RGR.	32 54 19.8 N (32.9055)	80 11 37.7 W (80.1938)	-52.0	USGS
RGS		Rognes Norway opened 19851222.	63 01 15.6 N (63.0210)	10 26 06.0 E (10.4350)	120.0	BER
RIN2	C	Rincon de la Vieja 2 Costa Rica 19870520-19880826. Replaced by RIN3.	10 49 06.6 N (10.8185)	85 20 58.2 W (85.3495)	1400.0	HDC
RIN3		Rincon de la Vieja 3 Costa Rica opened 19880826.	10 47 27.0 N (10.7908)	85 22 43.2 W (85.3787)	900.0	HDC
RIY		Rijeka Hrvatska (Croatia), Yugoslavia opened 19890504.	45 20 38.4 N (45.3440)	14 23 09.6 E (14.3860)	75.0	ZAG
RND	D	Reindeer Central Alaska, Alaska, U.S.A. opened 1986. USTN opened 199101.	63 24 22.2 N (63.4062)	148 51 10.2 W (148.8528)	991.0	GIA USTN
ROBI	R	Boca de Chavon Dominican Republic opened 19860923.	18 24 36.0 N (18.4100)	68 50 24.0 W (68.8400)	...	SDD
ROKY	R	Rotten Point Kentucky, U.S.A.	37 54 32.4 N (37.9090)	83 55 33.6 W (83.9260)	433.0	BHKY
ROSA		Rosais Azores, Portugal opened 198907.	38 43 15.0 N (38.7208)	28 14 49.0 W (28.2469)	310.0	PDA
RPN	D	Rapa Nui Easter Island, Valparaiso, Chile opened 198707.	27 07 36.0 S (27.1267)	109 20 04.0 W (109.3344)	110.0	SAN IDA IRIS
RPW		Rockport Washington, U.S.A.	48 26 54.0 N (48.4483)	121 30 49.0 W (121.5136)	850.0	SEA
RRI2	D	Red Ridge Idaho, U.S.A. opened 19860702.	43 21 50.4 N (43.3640)	111 19 08.4 W (111.3190)	2566.0	REX USTN
RRL		Cesana Torinese Piemonte, Italy	44 55 12.6 N (44.9202)	6 47 04.2 E (6.7845)	2131.0	GEN
RS1		Redoubt South No. 1 Western Alaska, Alaska, U.S.A. opened 19900910.	60 27 36.6 N (60.4602)	152 45 28.8 W (152.7580)	1864.0	AGS
RS2		Redoubt South No. 2 Western Alaska, Alaska, U.S.A. opened 19900910.	60 27 46.8 N (60.4630)	152 45 26.4 W (152.7573)	1953.0	AGS
RSA	R	Sar-Sar Morocco	34 53 10.0 N (34.8861)	5 49 30.0 W (5.8250)	...	CNRM
RSHJ		... Jordan opened 198911.	30 15 39.6 N (30.2610)	35 13 58.8 E (35.2330)	357.0	JSO
RSM		Repubblica di San Marino San Marino opened 1988.	43 55 39.7 N (43.9277)	12 27 08.4 E (12.4523)	...	ROM
RSO		Redoubt South Western Alaska, Alaska, U.S.A. opened 19900301.	60 27 43.8 N (60.4622)	152 45 13.8 W (152.7538)	1921.0	AGS
RSP		Rena Superiore Piemonte, Italy	45 09 06.0 N (45.1517)	7 15 25.8 E (7.2572)	1250.0	GEN
RTC	R	Rabat Centre Morocco	33 58 .. N (33.9667)	6 50 .. W (6.8333)	...	CNRM
RTMM	R	Retamim Israel	31 03 00.0 N (31.0500)	34 40 48.0 E (34.6800)	200.0	JER
RUP		Ruppelstein Rheinland-Pfalz, Germany	49 42 06.0 N (49.7017)	7 03 37.0 E (7.0603)	750.0	KRW
RUWJ		... Jordan opened 1989.	32 28 30.0 N (32.4750)	38 49 40.8 E (38.8280)	960.0	JSO
RUZ		Raurimu North Island, New Zealand opened 19900814.	39 07 37.0 S (39.1269)	175 20 16.0 E (175.3378)	450.0	WEL
RVC		Mount Rainier--Voight Creek Washington, U.S.A. opened 198301.	46 56 34.5 N (46.9429)	121 58 17.3 W (121.9715)	1000.0	SEA
RVVM	R	Revivim Israel	31 02 24.0 N (31.0400)	34 43 12.0 E (34.7200)	200.0	JER
RVW		Rose Valley Washington, U.S.A. opened 198102.	46 08 58.2 N (46.1495)	122 44 37.2 W (122.7437)	460.0	SEA
RYD		Riyadh Saudi Arabia opened 1986.	24 43 12.0 N (24.7200)	46 36 36.0 E (46.6100)	650.0	RYD
RZN		Rozhen Bulgaria opened 1988.	41 41 16.8 N (41.6880)	24 42 57.6 E (24.7160)	1730.0	SOF
SACA		Loma Carmona Dominican Republic opened 19860712.	18 58 39.0 N (18.9775)	69 40 49.2 W (69.6803)	...	SDD
SADC	RD	Saddle Peak Los Angeles County, California, U.S.A. opened 197308. PAS code SAD.	34 04 51.6 N (34.0810)	118 39 54.0 W (118.6650)	732.0	PAS

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SAE		Statte	40 33 43.0 N (40.5619)	17 12 22.0 E (17.2061)	...	ROM
		Puglia, Italy				
SAGI		Saggi Highlands	30 13 12.0 N (30.2200)	34 39 36.0 E (34.6600)	560.0	JER
		Israel				
SAIU		Southern Antelope Island	40 51 17.4 N (40.8548)	112 10 53.4 W (112.1815)	1384.0	SLC
		Davis County, Utah, U.S.A. opened 19900510.				
SALC		Salvajina	2 58 22.5 N (2.9729)	76 41 42.6 W (76.6952)	1430.0	UVC
		Colombia				
SALF		Salau	42 45 36.0 N (42.7600)	1 11 22.0 E (1.1894)	900.0	STR
		Midi-Pyrenees, France opened 198901.				
SAOF		Saorge	43 59 11.0 N (43.9864)	7 33 19.0 E (7.5553)	600.0	STR
		Provence-Cote d'Azur, France				
SAON	R	Isla Saona	18 11 .. N (18.1833)	68 46 .. W (68.7667)	...	SDD
		Dominican Republic				
SASA		Sand Point	55 20 24.0 N (55.3400)	160 29 49.8 W (160.4972)	23.0	PAL
		Alaska Peninsula, Alaska, U.S.A. PAL code SAS.				
SBCZ		Sonora Basin	45 05 32.0 S (45.0922)	169 18 40.0 E (169.3111)	801.0	WELC
		South Island, New Zealand				
SBG		Sibinal	15 07 55.2 N (15.1320)	92 03 12.6 W (92.0535)	2860.0	GCG
		Guatemala opened 198603.				
SBM		South Baldy	33 58 30.6 N (33.9752)	107 10 50.4 W (107.1807)	3230.0	SNM
		New Mexico, U.S.A. SNM code SB.				
SCSP	F	(phase code designotian)				
SCX		San Cristabal de las Casas	16 44 09.0 N (16.7358)	92 38 04.2 W (92.6345)	...	UNM
		Chiapos, Mexica opened 1987.				
SDG		Sourdough	62 31 37.2 N (62.5270)	145 32 36.0 W (145.5433)	625.0	GIA
		Central Alaska, Alaska, U.S.A. opened 1986.				
SDI		San Donato Val di Comino	41 42 21.0 N (41.7058)	13 48 55.5 E (13.8154)	720.0	ROM
		Lazio, Italy				
SDOM		Mount Sodom	31 04 48.0 N (31.0800)	35 23 24.0 E (35.3900)	-200.0	JER
		Israel				
SEI	R	Scarperia	44 03 16.0 N (44.0544)	11 21 23.0 E (11.3564)	610.0	PRT
		Toscana, Italy				
SEJ	R	Sejang Station	62 13 15.0 S (62.2208)	58 45 10.0 W (58.7528)	18.0	
		South Shetland Islands, Antarctica				
SEMI		Sempanon	2 27 37.0 N (2.4603)	98 23 30.0 E (98.3917)	1750.0	DJA
		Sumatera, Indanesia				
SFI		Santa Safia	43 55 15.6 N (43.9210)	11 51 07.2 E (11.8520)	...	ROM
		Emilia-Ramagna, Italy opened 1987.				
SGB		San Diego Bay	55 32 45.0 N (55.5458)	160 27 13.8 W (160.4538)	275.0	
		Alaska Peninsula, Alaska, U.S.A.				
SGI	C	San Gemini	...	...	...	
		Italy				
SHBJ		Al Shahba	32 18 09.0 N (32.3025)	37 34 30.0 E (37.5750)	960.0	JSO
		Jordan 19871024-19890326.				
SHGH		Shai Hills	5 55 42.0 N (5.9283)	0 02 31.0 W (0.0419)	84.0	KUK
		Ghana opened 1987.				
SHMJ			32 43 37.2 N (32.7270)	35 45 50.4 E (35.7640)	363.0	JSO
		Jordan opened 198909.				
SHRJ	R	Shirakawa 2	37 04 36.0 N (37.0767)	140 14 00.0 E (140.2333)	395.0	JMA
		Honshu, Jopan opened 19900424.				
SHWJ			30 22 58.8 N (30.3830)	35 30 00.0 E (35.5000)	1734.0	JSO
		Jordan opened 198911.				
SIBI		Sibayak Dalak	3 14 27.0 N (3.2408)	98 30 16.0 E (98.5044)	2050.0	DJA
		Sumatera, Indanesia opened 199110.				
SILC		Silvia	2 41 16.8 N (2.6880)	76 20 22.8 W (76.3397)	3150.0	UVC
		Colambia opened 1990.				
SIMI	R	Simarbalatuk	2 41 20.0 N (2.6889)	98 56 49.0 E (98.9469)	1681.0	DJA
		Sumatera, Indonesia				
SINI		Singah	7 00 52.0 S (7.0144)	107 30 00.0 E (107.5000)	1000.0	DJA
		Jawa, Indonesia				
SIPM	R		17 13 22.8 N (17.2230)	93 09 25.2 W (93.1570)	...	UNM
		Chiapas, Mexico UMN code SIP.				
SIV		San Ignacia de Velasca	15 59 28.7 S (15.9913)	61 04 19.9 W (61.0722)	520.0	LPZ
		Bolivia opened 199003.				
SIZ		Stewart Island	46 52 30.0 S (46.8750)	168 07 59.0 E (168.1331)	...	WEL
		Stewart Island, New Zealand opened 19901212.				
SJAS		San Jacinto	13 40 .. N (13.6667)	89 10 .. W (89.1667)	1100.0	SSS
		El Salvador SSS code SJA.				

STATIONS ADDED SINCE STATION BOOK (OF 85-714) WAS PRINTED

Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
SJID		St. Joe Idaho, U.S.A. opened 198710.	47 21 50.4 N (47.3640)	116 24 40.2 W (116.4112)	1775.0	
SJMO		St. John's Bayou Missouri, U.S.A.	36 37 44.4 N (36.6290)	89 28 33.6 W (89.4760)	91.0	SLM
SJRM	R	San Jeronimo Guerrero, Mexico	17 08 16.8 N (17.1380)	100 28 26.4 W (100.4740)	40.0	UNM
SJX	R	San Joaquin Baja California, Mexico opened 1986.	31 45 46.2 N (31.7628)	115 57 31.2 W (115.9587)	...	ECX
SKDB		 Saint Christopher, Saint Christopher-Nevis	17 23 48.8 N (17.3969)	62 48 30.0 W (62.8083)	...	TRN
SKSP	F	(phase code designation)				
SLKY		(Alternate Abbreviation for FLKY)				
SLZ	R	Solwezi Zambia	...	...	...	
SMAM	R	San Marcos Guerrero, Mexico UNM code SMA.	16 47 07.8 N (16.7855)	99 23 53.4 W (99.3982)	...	UNM
SMBI	R	Sixmile Butte Idaho, U.S.A.	...	...	...	USGS
SMCN		San Marcos Nicaragua opened 1990. APY code SMC.	11 54 24.0 N (11.9067)	86 12 07.0 W (86.2019)	...	APY
SMG		Samos Greece opened 198906.	37 42 31.2 N (37.7087)	26 50 13.2 E (26.8370)	...	ATH
SMJM	R	Simojovel Chiapas, Mexico IIM code SMJ.	17 08 02.4 N (17.1340)	92 42 54.0 W (92.7150)	...	IIM
SMLT	R	Sun Moon Lake China (Taiwan)	23 52 58.8 N (23.8830)	120 53 59.6 E (120.8999)	1014.8	TAP
SMMM		San Miguel Ometusco Mexico, Mexico opened 1988. UNM code SMM.	19 44 23.4 N (19.7398)	98 44 25.8 W (98.7405)	...	UNM
SMNM		San Marcial New Mexico, U.S.A. SNM code SMC.	33 46 43.2 N (33.7787)	107 01 09.6 W (107.0193)	1560.0	SNM
SNKA	C	Sanak Island Alaska Peninsula, Alaska, U.S.A. closed 199007. PAL code SNK.	54 28 26.4 N (54.4740)	162 46 31.2 W (162.7753)	159.0	PAL
SNOW		Snow King Mountain Wyoming, U.S.A. opened 198601.	43 27 44.9 N (43.4625)	110 45 18.8 W (110.7552)	2390.0	USBR
SNQU		Santaquin Juab County, Utah, U.S.A. opened 19900830.	39 47 40.8 N (39.7947)	111 54 09.0 W (111.9025)	1853.0	SLC
SODA		Al Sooda Saudi Arabia	18 17 27.6 N (18.2910)	42 22 26.4 E (42.3740)	2600.0	RYD
SOG		Santioguito Guatemala opened 198602? GCG code STG.	14 46 34.8 N (14.7763)	91 35 15.6 W (91.5877)	2950.0	GCG
SOG2		Santioguito 2 Guatemala opened 198612? GCG code ST2.	14 43 01.8 N (14.7172)	91 34 13.2 W (91.5703)	1560.0	GCG
SOI	D	Samo Calabria, Italy	38 04 19.5 N (38.0721)	16 03 17.7 E (16.0549)	...	ROM
SOLO	R	Sioux Lookout Ontario, Canada opened 19881024.	50 01 16.7 N (50.0213)	92 04 52.3 W (92.0812)	373.0	OTTR
SONG		Songa Mozambique opened 198511.	15 36 12.0 S (15.6033)	32 46 42.0 E (32.7783)	900.0	LMM
SOO	R	Sioux Lookout Ontario, Canada opened 19870607.	50 04 34.2 N (50.0762)	91 53 16.8 W (91.8880)	358.0	OTTR
SOSW		Source of Smith Creek Washington, U.S.A. SEA code SOS.	46 14 12.0 N (46.2367)	122 08 12.0 W (122.1367)	1270.0	SEA
SPCI	R	Split Crater Idaho, U.S.A.	...	...	...	USGS
SQF		Squaw Harbor Alaska Peninsula, Alaska, U.S.A.	55 13 12.0 N (55.2200)	160 33 44.4 W (160.5623)	360.0	PAL
SQTA		Sankt Quirin Austria opened 19890501.	47 13 13.8 N (47.2205)	11 12 31.4 E (11.2087)	1307.0	VIE
SRAT		Sarat Abidah Saudi Arabia opened 19900613.	18 02 20.4 N (18.0390)	43 09 43.2 E (43.1620)	2300.0	RYD
SRDI		Scrowed Java, Indonesia opened 1991.	8 28 46.0 S (8.4794)	114 08 31.0 E (114.1419)	290.0	DJA
SRFA		Sharaf Saudi Arabia opened 1986.	28 55 48.0 N (28.9300)	35 11 16.8 E (35.1880)	...	RYD
SRNI		Srinagar Jammu and Kashmir, India NDI code SRN.	33 57 .. N (33.9500)	74 45 .. E (74.7500)	...	NDI
SRP		Santa Rosa Puebla, Mexico	18 53 48.0 N (18.8967)	97 46 48.0 W (97.7800)	...	UNM

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Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
SRQ		San Roque Spain Also sent to NEIS by MDD.	36 15 27.0 N (36.2575)	5 22 27.0 W (5.3742)	202.0	SFS
SRU		San Rafael Emery County, Utah, U.S.A. opened 19901110.	39 06 39.0 N (39.1108)	110 31 25.8 W (110.5238)	1804.0	SLC
SSO		Sasso d'Italia (Macerata) Marche, Italy opened 198705.	43 17 34.8 N (43.2930)	13 25 12.0 E (13.4200)	302.0	SSO
STAN	D	Stanford Santa Clara County, California, U.S.A. opened 19910415.	37 24 12.8 N (37.4035)	122 10 30.8 W (122.1752)	158.0	
STD		Studebaker Ridge Washington, U.S.A. opened 198205.	46 14 16.0 N (46.2378)	122 13 21.9 W (122.2227)	1268.0	SEA
STEW		Steamboat Mountain Wyoming, U.S.A. opened 198601.	44 02 59.0 N (44.0497)	110 40 54.0 W (110.6817)	2316.0	USBR
STF		Statfjord A Platform Norway	61 15 21.6 N (61.2560)	1 49 01.2 E (1.8170)	-148.0	BER
STKA	R	Stephens Creek New South Wales, Australia	...	...	...	AUST
SULJ	R	Sultana Jordan	31 05 12.0 N (31.0867)	36 04 36.0 E (36.0767)	951.0	JSO
SVTA	R	Shivta Israel	30 55 48.0 N (30.9300)	34 37 12.0 E (34.6200)	370.0	JER
SWO	D	Sudbury Ontario, Canada opened 198705.	46 43 58.0 N (46.7328)	80 59 58.0 W (80.9994)	372.0	ECTN
SXG		Sacranix Guatemala opened 1986. GCG code SCG.	15 30 21.0 N (15.5058)	90 25 10.8 W (90.4197)	1904.0	GCG
SXT		Sachs Harbour Northwest Territories, Canada opened 19860813.	71 59 21.0 N (71.9892)	125 14 23.0 W (125.2397)	77.0	OTTR
SYI		Shuyak Island Kodiak Island, Alaska, U.S.A. opened 19900827.	58 36 36.0 N (58.6100)	152 23 27.0 W (152.3908)	149.0	GIA
SZAF	R	Shezaf Israel	30 54 .. N (30.9000)	34 33 .. E (34.5500)	290.0	JER
SZH		Strozhitsa Bulgaria opened 1988.	43 16 .. N (43.2667)	25 56 .. E (25.9333)	310.0	SOF
SZO	D	Sudbury Ontario, Canada opened 19870124.	46 26 17.0 N (46.4381)	81 29 46.0 W (81.4961)	312.0	ECTN
TAHZ		Taraponui North Island, New Zealand	39 08 09.0 S (39.1358)	176 44 25.0 E (176.7403)	1297.0	WELH
TAIF		At Ta'if Saudi Arabia opened 198902.	21 17 31.2 N (21.2920)	40 21 14.4 E (40.3540)	1680.0	RYD
TANI		Tanete Lipujong Sulawesi, Indonesia opened 1991.	3 26 10.0 S (3.4361)	119 22 59.0 E (119.3831)	230.0	DJA
TANM	R	... Chiapas, Mexico UNM code TAN.	16 55 08.4 N (16.9190)	93 06 54.0 W (93.1150)	...	UNM
TARW		Grand Targhee Resort Wyoming, U.S.A. opened 198601.	43 45 49.7 N (43.7638)	110 59 26.9 W (110.9908)	2091.0	USBR
TATJ	R	Toteyama 2 Honshu, Japan opened 19900510.	35 02 00.0 N (35.0333)	139 53 24.0 E (139.8900)	42.0	JMA
TBC		Trig B South Island, New Zealand	45 08 47.0 S (45.1464)	169 19 49.0 E (169.3303)	619.0	WELC
TBM		Table Mountain Washington, U.S.A.	47 10 10.1 N (47.1695)	120 35 54.0 W (120.5983)	1064.0	SEA
TBO	R	Thunder Bay Ontario, Canada opened 19870123.	48 38 50.4 N (48.6473)	89 24 30.0 W (89.4083)	468.0	OTTR
TBW	R	Brentwood England, United Kingdom opened 1989.	51 39 17.6 N (51.6549)	0 17 28.0 E (0.2911)	82.0	BGS
TCBC		Telegraph Creek British Columbia, Canada opened 19891010.	57 55 23.0 N (57.9231)	131 16 55.0 W (131.2819)	1356.0	OTTR
TCG		Tacana Guatemala opened 198607.	15 07 22.2 N (15.1228)	92 05 09.0 W (92.0858)	3100.0	GCG
TCO		Three Creek Meadows Oregon, U.S.A. opened 19870827.	44 06 27.0 N (44.1075)	121 36 00.0 W (121.6000)	1975.0	SEA
TCPM	R	Tecamachalco Puebla, Mexico UNM code TCP.	18 53 24.0 N (18.8900)	97 41 22.0 W (97.6894)	...	UNM
TCR	R	Colchester England, United Kingdom opened 1989.	51 50 05.6 N (51.8349)	0 54 45.0 E (0.9125)	40.0	BGS
TCSI	R	Teichick Spring Idaho, U.S.A.	...	...	...	USGS

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Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
TCT		Tennessee City Tennessee, U.S.A. opened 19880310.	36 00 19.2 N (36.0053)	87 33 10.2 W (87.5528)	245.0	TVA
TCUT		Taane Canyon Morgan County, Utah, U.S.A. opened 198908.	41 07 05.4 N (41.1182)	111 24 38.4 W (111.4107)	2316.0	SLC
TDH		Tom, Dick, Harry Mountain Oregon, U.S.A. opened 198209.	45 17 23.4 N (45.2898)	121 47 25.2 W (121.7903)	1541.0	SEA
TDL		Tradedollar Lake Washington, U.S.A. opened 198311.	46 21 03.0 N (46.3508)	122 12 57.0 W (122.2158)	1400.0	SEA
TDS	D	Terranova di Sibari Calabria, Italy	39 39 31.8 N (39.6588)	16 20 16.3 E (16.3379)	273.0	ROM
TEB	R	Eastbourne England, United Kingdom opened 1989.	50 49 07.7 N (50.8188)	0 08 45.2 E (0.1459)	70.0	BGS
TEGH		Tema Ghana opened 1987.	5 38 12.0 N (5.6367)	0 00 05.0 W (0.0014)	14.0	KUK
TEHZ		Te Atua North Island, New Zealand	39 59 22.0 S (39.9894)	176 48 40.0 E (176.8111)	407.0	WELH
TEI	F	(magnitude source code for TEIC)				
TEO	R	Teotitlan Oaxaca, Mexica	18 08 17.6 N (18.1382)	97 04 30.6 W (97.0752)	1060.0	UNM
TETM	R	Tetitlan Guerrera, Mexico	17 09 42.0 N (17.1617)	100 37 49.8 W (100.6305)	50.0	UNM
TEYM	R	Tepich Yucatan, Mexico	20 12 12.0 N (20.2033)	88 20 12.0 W (88.3367)	...	UNM
TGL		Tana Glacier Central Alaska, Alaska, U.S.A. opened 19880701.	60 45 21.0 N (60.7558)	142 49 46.8 W (142.8297)	1234.0	GIA
TGY		Tagaytay Luzon, Philippines opened 1991.	14 06 10.8 N (14.1030)	120 56 02.4 E (120.9340)	...	MAN
THRI		Tanaharon Bali, Nusa Tenggara, Indanesia	8 22 10.0 S (8.3694)	115 32 35.0 E (115.5431)	1000.0	DJA
THY		Trims Highway Central Alaska, Alaska, U.S.A. opened 1986.	63 25 00.0 N (63.4167)	145 45 07.8 W (145.7522)	732.0	GIA
THZ	D	Taphouse South Island, New Zealand opened 19891130.	41 45 49.8 S (41.7638)	172 54 13.2 E (172.9037)	760.0	WEL
TIH		Tihany Hungary opened 1987.	46 54 00.0 N (46.9000)	17 53 34.8 E (17.8930)	187.0	BUD
TIZ	U	Tara Hills New Zealand	... 	... 	...	WEL
TLA		Tapachula Chiapas, Mexico	15 01 44.0 N (15.0289)	92 12 00.0 W (92.2000)	...	UNM
TLC		Trig L South Island, New Zealand	45 11 28.7 S (45.1913)	169 04 16.7 E (169.0713)	1393.0	WELC
TLI	D	Talmassans Friuli-Venezia Giulia, Italy opened 19851127.	45 55 18.0 N (45.9217)	13 06 07.0 E (13.1019)	25.0	TRI
TMDA		Turtle Mountain Alberta, Canada Sent to NEIS by PGC.	49 34 52.0 N (49.5811)	114 23 57.1 W (114.3992)	1541.0	
TME		Tecomasuche El Salvador	14 01 01.0 N (14.0169)	89 21 20.0 W (89.3556)	516.0	SSS
TMM2	R	Technologico de Monterrey 2 Nuevo Leon, Mexica	25 41 57.0 N (25.6992)	100 15 58.8 W (100.2663)	...	UNM
TMW	D	Tok Microwave Central Alaska, Alaska, U.S.A. opened 1986. USTN opened 199101.	63 19 28.2 N (63.3245)	142 59 48.0 W (142.9967)	495.0	GIA USTN
TNRJ	R	Tenryu Shizuoka, Honshu, Japan	34 54 28.1 N (34.9078)	137 53 06.7 E (137.8852)	66.0	CDPJ
TOD		Tramm Hessen, Germany opened before 197410.	49 36 20.4 N (49.6057)	8 48 13.8 E (8.8038)	570.0	KRW
TORT	R	La Tartuga Venezuela opened 1984.	10 54 30.2 N (10.9084)	65 18 50.0 W (65.3139)	40.0	CAR
TOUF		Mont Tournerait Provence-Cote d'Azur, France	44 00 48.6 N (44.0135)	7 14 53.9 E (7.2483)	1830.0	STR
TPAW		Tetan Pass Wyoming, U.S.A. opened 198601.	43 29 24.3 N (43.4901)	110 57 02.3 W (110.9506)	2512.0	USBR
TPE		Tepelena Albania opened 198404.	40 17 42.7 N (40.2952)	20 00 39.2 E (20.0109)	240.0	TIR
TPG	R	Tiapa Guerrero, Mexico	17 33 38.4 N (17.5607)	98 33 19.8 W (98.5555)	1100.0	UNM
TQTN		Tranquillity Tennessee, U.S.A. opened 19860716.	35 30 57.6 N (35.5160)	84 43 33.0 W (84.7258)	260.0	TVA
TREF		Trevaresse Provence-Cote d'Azur, France	43 37 26.8 N (43.6241)	5 23 02.0 E (5.3839)	460.0	STR

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Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
TRF		Thorofare Mountain Central Alaska, Alaska, U.S.A. opened 198908.	63 27 03.6 N (63.4510)	150 17 14.4 W (150.2873)	1717.0	GIA
TRGS		Torgassone Languedoc-Rousillon, France	42 30 08.0 N (42.5022)	1 58 00.0 E (1.9667)	1700.0	STR
TRXW		Triangle-X Ranch Wyoming, U.S.A. opened 198601.	43 44 57.3 N (43.7493)	110 33 36.5 W (110.5601)	2256.0	USBR
TSUJ	R	Tsu 2 Mie, Honshu, Japan	34 42 36.0 N (34.7100)	136 25 12.0 E (136.4200)	30.0	JMA
TSY	R	Tnine Sidi el Yamani Morocco	35 22 22.0 N (35.3728)	5 58 12.0 W (5.9700)	...	CNRM
TTH	D	Tarodale Trig North Island, New Zealand opened 19870319.	39 32 28.8 S (39.5413)	176 49 34.2 E (176.8262)	120.0	WELH
TU1		Tusconia Lazio, Italy	42 25 07.0 N (42.4186)	11 52 28.0 E (11.8744)	166.0	ROM
TULC	R	Montelora Colombia	... 	... 	...	UVC
TUNG		Tungurahua Ecuador opened 198906.	1 25 05.4 S (1.4182)	78 26 43.8 W (78.4455)	2774.0	QUI
TUU	R	Turnu Rosu Romania opened 19880615.	45 39 09.0 N (45.6525)	24 16 23.0 E (24.2731)	519.0	BUC
TUVM	RD	Tuzandepetl Veracruz, Mexico	18 01 58.9 N (18.0330)	94 25 20.2 W (94.4223)	...	UNM MDAS
TUZ		Tuapeka South Island, New Zealand opened 19910404.	45 57 22.0 S (45.9561)	169 37 56.0 E (169.6322)	...	WEL
TVGG	C	Rocky Mountain Net Georgia, U.S.A. closed 1989.	34 22 37.9 N (34.3772)	85 18 08.3 W (85.3023)	323.0	ATL
TWB		Tillmans-Whites Bay South Carolina, U.S.A. opened 19880301.	33 06 54.0 N (33.1150)	80 06 09.0 W (80.1025)	9.0	USGS
TWW		Teanaway Washington, U.S.A. opened 198610.	47 08 17.2 N (47.1381)	120 52 04.5 W (120.8679)	1046.0	SEA
TXNY		Tuxedo New York, U.S.A. opened 1990.	41 10 39.0 N (41.1775)	74 11 19.4 W (74.1887)	143.0	
TZL		Tazlina Central Alaska, Alaska, U.S.A. opened 199007.	62 02 40.2 N (62.0445)	145 25 25.8 W (145.4238)	366.0	GIA
TZR		Tezpur Assam, India	26 38 .. N (26.6333)	92 48 .. E (92.8000)	...	JHI
UJZ	R	 Chiapas, Mexico	15 04 30.0 N (15.0750)	92 05 00.0 W (92.0833)	...	UNM
UKAQ	RD	Ukalunda Queensland, Australia opened 19840328. QDM code UKA.	20 53 56.4 S (20.8990)	147 07 37.2 E (147.1270)	200.0	QDM
UMI		 India	25 31 .. N (25.5167)	92 44 .. E (92.7333)	...	JHI
UMT		Umtata Cape Province, South Africa opened 198808.	31 35 00.0 S (31.5833)	28 45 18.0 E (28.7550)	800.0	PRE
UON	R	Lo Union Guerrero, Mexico	17 58 12.0 N (17.9700)	101 48 54.0 W (101.8150)	...	UNM
UOSK		'Uqlat as Suqur Saudi Arabia opened 19900523.	25 47 20.4 N (25.7890)	42 21 36.0 E (42.3600)	950.0	RYD
URZ		Urewera North Island, New Zealand opened 19901009.	38 15 37.0 S (38.2603)	177 06 37.0 E (177.1103)	...	WEL
USBR	F	U.S. Bureau of Reclamation, Denver				
USH	RD	Wushi Xinjiang, China (Mainland)	41 12 .. N (41.2000)	78 36 .. E (78.6000)	...	
USIL		Lacq--Usine Aquitaine, France	43 25 01.0 N (43.4169)	0 38 16.9 W (0.6380)	95.0	STR
UTMA		University of Tennessee at Martin Tennessee, U.S.A. opened 198511. Station moved from UTM.	36 17 34.8 N (36.2930)	88 58 33.6 W (88.9760)	108.0	
UTSU	R	Utsunomiya Tochigi, Honshu, Japan opened 196202. UTSU code UTU.	36 32 49.3 N (36.5470)	139 55 01.4 E (139.9171)	110.0	UTSU
UVC	F	Universidad del Valle, Cali				
UYO		Union Valley Oklahoma, U.S.A. opened 19890415.	34 10 00.0 N (34.1667)	94 27 31.7 W (94.4588)	231.0	TUL
UZD		Uzd Hungary opened 1987.	46 35 33.0 N (46.5925)	18 34 54.5 E (18.5818)	207.0	BUD
VACR		Volcan Arenal Costa Rica opened 19860429.	10 28 22.8 N (10.4730)	84 40 39.0 W (84.6775)	360.0	HDC
VASS		Vassouras Rio de Janeiro, Brazil opened 1988.	22 23 58.0 S (22.3994)	43 39 08.0 W (43.6522)	448.0	RDJ

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Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
VBN		Buluson	12 43 55.2 N (12.7320)	124 01 30.0 E (124.0250)	...	MAN
		Luzon, Philippines				
VBU	R	Buco	14 05 13.2 N (14.0870)	120 59 13.2 E (120.9870)	...	MAN
		Luzon, Philippines				
VBY		Vinico-Bojanci	45 30 16.2 N (45.5045)	15 15 23.8 E (15.2566)	259.0	LJU
		Slovenija, Yugoslavia				
		opened 19B61030.				
VC1		Cotopaxi 1	0 38 22.2 S (0.6395)	78 24 24.0 W (78.4067)	4064.0	OUI
		Ecuador				
		opened 19B809.				
VCB		Cobagna-an	10 21 43.2 N (10.3620)	123 07 01.2 E (123.1170)	...	MAN
		Negros, Philippines				
VCN		Conloon	10 23 49.2 N (10.3970)	123 12 25.2 E (123.2070)	...	MAN
		Negros, Philippines				
VCT		Victoria	45 43 30.0 N (45.7250)	24 42 03.6 E (24.7010)	565.0	BUC
		Romania				
		opened 198904.				
VDCF		Villefranche-de-Conflent	42 35 27.0 N (42.5908)	2 21 56.0 E (2.3656)	600.0	STR
		Languedac-Rausillan, France				
		opened 198901.				
VDF	R	Valdeflores	16 45 39.6 N (16.7610)	96 49 19.2 W (96.8220)	...	UNM
		Oaxaca, Mexico				
VEA		Veona	44 53 21.5 N (44.8893)	9 37 08.4 E (9.6190)	...	GEN
		Emilia-Ramagna, Italy				
VFP		Flag Point	45 19 05.0 N (45.3181)	121 27 54.3 W (121.4651)	1716.0	SEA
		Oregon, U.S.A.				
		opened 198010.				
VGP			17 21 25.8 N (17.3572)	93 36 50.4 W (93.6140)	...	UNM
		Mexico				
VHH	R	Hibok Hibok	9 13 58.8 N (9.2330)	124 40 19.2 E (124.6720)	...	MAN
		Mindanao, Philippines				
VHTN	C	Van Hill	36 23 56.4 N (36.3990)	82 48 07.2 W (82.8020)	658.0	TVA
		Tennessee, U.S.A.				
		19860114-19860323.				
VIH		Vielha (Viella)	42 37 43.8 N (42.6288)	0 46 12.0 E (0.7700)	1700.0	MRB
		Spain				
		opened 19B6.				
VILF		Villemus	43 51 09.0 N (43.8525)	5 42 55.1 E (5.7153)	770.0	STR
		Provence-Cote d'Azur, France				
VIV	R	Vinh	18 32 51.0 N (18.5475)	105 42 00.0 E (105.7000)	5.0	PLV
		Vietnam				
VLH	R	Lignon Hill	13 09 39.6 N (13.1610)	123 43 30.0 E (123.7250)	...	MAN
		Luzon, Philippines				
VLI		Velioi	36 43 05.4 N (36.7182)	22 56 13.2 E (22.9370)	220.0	ATH
		Greece				
		opened 198906.				
VLL		Laurance Lake	45 27 48.0 N (45.4633)	121 40 45.0 W (121.6792)	1195.0	SEA
		Oregon, U.S.A.				
		opened 198010.				
VMG	R	Vicchio	43 57 42.0 N (43.9617)	11 32 38.0 E (11.5439)	450.0	PRT
		Toscana, Italy				
VMO	R	Villa Marinero	15 51 04.2 N (15.8512)	97 03 49.8 W (97.0638)	3.0	UNM
		Oaxoca, Mexico				
VMR		Mayon Resthause	13 17 06.0 N (13.2850)	123 40 04.8 E (123.6680)	...	MAN
		Luzon, Philippines				
VMS	R	Misericardia	13 15 00.0 N (13.2500)	123 45 18.0 E (123.7550)	...	MAN
		Luzon, Philippines				
VNM		Villo de Garcio	25 50 36.0 N (25.8433)	100 35 39.0 W (100.5942)	...	UNM
		Nueva Leon, Mexico				
		opened 198912.				
VNV	R	Volcan Villarrica	39 22 09.0 S (39.3692)	71 57 10.0 W (71.9528)	...	
		Araucania, Chile				
VPP		Pira-Piraso	14 02 06.0 N (14.0350)	121 00 03.6 E (121.0010)	...	MAN
		Luzon, Philippines				
VPT	R	Volcon Platanar	...	...	...	HDC
		Costo Rica				
VRAC		Vranov	49 18 32.4 N (49.3090)	16 35 42.0 E (16.5950)	...	
		Czechoslovakia				
		opened 19B912.				
VSM		Volcon San Miguel	13 25 41.0 N (13.4281)	B8 16 27.0 W (88.2742)	2129.0	SSS
		El Salvador				
VSS		Volcon San Salvador	13 44 30.0 N (13.7417)	89 14 30.0 W (89.2417)	1250.0	SSS
		El Salvador				
VTU		Volcon Turrialba	10 01 15.6 N (10.0210)	83 45 30.0 W (83.7583)	3329.0	HDC
		Costa Rica				
VVI		Villa di Villa	45 58 58.4 N (45.9829)	12 25 25.0 E (12.4236)	515.0	ERC
		Veneto, Italy				
		opened 19870610.				
WA4		Burakin	30 36 07.2 S (30.6020)	117 13 30.0 E (117.2250)	320.0	AUST
		Western Australia, Australia				
		opened 19860422.				
WAH2		Wahluke Slope	46 45 24.2 N (46.7567)	119 33 45.5 W (119.5626)	230.0	SEA
		Washington, U.S.A.				
		SEA code WA2.				
WAHZ		Wakarara	39 41 57.0 S (39.6992)	176 21 19.0 E (176.3553)	657.0	WELH
		North Island, New Zealand				
WAJH		Al Wajh	26 10 30.0 N (26.1750)	36 33 43.2 E (36.5620)	75.0	RYD
		Saudi Arabia				
		opened 19880620.				

STATIONS ADDED SINCE STATION BOOK (OF 85-714) WAS PRINTED

Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
WARB		Warburton Western Australia, Australia opened 19870628.	26 11 01.7 S (26.1838)	126 38 34.8 E (126.6430)	460.0	AUST
WATA		Waldenolm Austria opened 198910.	47 20 08.7 N (47.3357)	11 34 34.7 E (11.5763)	1492.0	VIE
WBAQ		Buaraba No. 3 Queensland, Australia opened 19840706. ODM code WBA.	27 21 09.7 S (27.3527)	152 18 29.5 E (152.3082)	...	ODM
WBR	R	Bronober Wales, United Kingdom opened 1985.	52 51 21.6 N (52.8560)	3 53 38.8 W (3.8941)	340.0	BGS
WCBC	C	Windy Craggy British Columbia, Canada 19880610-19900806.	59 37 40.1 N (59.6278)	137 42 57.6 W (137.7160)	750.0	OTTR
WCZ		Waipu Caves North Island, New Zealand opened 19901012.	35 56 28.0 S (35.9411)	174 20 40.0 E (174.3444)	140.0	WEL
WEGH		Weija Ghana opened 1987.	5 35 36.0 N (5.5933)	0 19 37.0 W (0.3269)	180.0	KUK
WELH	F	DSIR Hawkes Bay Network, Wellington, NZ				
WEN		Wenatchee Washington, U.S.A.	47 31 46.2 N (47.5295)	120 11 39.0 W (120.1942)	1061.0	SEA
WFB	R	Fairbourne Wales, United Kingdom opened 1985.	52 40 58.8 N (52.6830)	4 02 16.1 W (4.0378)	325.0	BGS
WG2		Wallula Gap Washington, U.S.A. opened 198704.	46 01 50.2 N (46.0306)	118 51 20.0 W (118.8556)	511.0	SEA
WG3		Wallula Gap Washington, U.S.A. opened 199001.	46 01 43.0 N (46.0286)	118 51 24.0 W (118.8567)	480.0	SEA
WGAR		Walnut Grove Arkansas, U.S.A.	35 51 10.8 N (35.8530)	90 11 27.6 W (90.1910)	72.0	SLM
WHH	D	Whakatau North Island, New Zealand opened 19870301.	38 53 04.2 S (38.8845)	176 29 42.0 E (176.4950)	921.0	WELH
WIGH		Winneba Ghana opened 1987.	5 21 49.0 N (5.3636)	0 37 08.0 W (0.6189)	64.0	KUK
WIM	R	Isle of Man Isle of Man, United Kingdom opened 1985.	54 08 49.9 N (54.1472)	4 40 24.6 W (4.6735)	365.0	BGS
WLC	R	Llyn Canwy Wales, United Kingdom opened 1985.	52 59 44.2 N (52.9956)	3 46 43.7 W (3.7788)	440.0	BGS
WLZ	D	Whitehall North Island, New Zealand opened 19891217.	37 50 27.9 S (37.8411)	175 35 15.7 E (175.5877)	180.0	WEL
WMBQ		Mount Brisbane Queensland, Australia opened 19770318. ODM code WMB.	27 06 55.8 S (27.1155)	152 33 00.7 E (152.5502)	160.0	ODM
WME	R	Myndd Eilian Wales, United Kingdom opened 1985.	53 23 47.8 N (53.3966)	4 18 12.2 W (4.3034)	130.0	BGS
WMZ		Williams Arizona, U.S.A. opened 19860131.	35 09 29.0 N (35.1581)	112 19 13.0 W (112.3203)	2018.0	FLAG
WNS		Wenas Washington, U.S.A. opened 198407.	46 42 37.0 N (46.7103)	120 34 30.0 W (120.5750)	1000.0	SEA
WON	RD	Wolverton North England, United Kingdom	51 19 39.0 N (51.3275)	1 12 03.0 W (1.2008)	104.0	BKN
WPMQ	R	Pine Mountain Queensland, Australia opened 19770318. ODM code WPM.	27 32 08.5 S (27.5357)	152 44 07.8 E (152.7355)	35.0	ODM
WPO		West Portland Oregon, U.S.A. opened 198610.	45 34 24.0 N (45.5733)	122 47 22.4 W (122.7896)	334.0	SEA
WPW		White Pass Washington, U.S.A. opened 198003.	46 41 53.4 N (46.6982)	121 32 48.0 W (121.5467)	1250.0	SEA
WRCQ		Reedy Creek No. 5 Queensland, Australia opened 19840711. ODM code WRC.	27 11 14.6 S (27.1874)	152 39 47.2 E (152.6631)	...	ODM
WSSR		Wesser Bald North Carolina, U.S.A. opened 198511.	35 16 40.2 N (35.2778)	83 34 40.8 W (83.5780)	1390.0	TEIC
WST	R	Stwlan Wales, United Kingdom opened 1986.	52 58 30.0 N (52.9750)	3 59 20.4 W (3.9890)	850.0	BGS
WTGQ	R	Toogoolawah Queensland, Australia opened 19770318. ODM code WTG.	27 08 44.9 S (27.1458)	152 19 59.9 E (152.3333)	130.0	ODM
WTRQ		Thallon Road Queensland, Australia opened 19840523. ODM code WTR.	27 31 43.0 S (27.5286)	152 27 52.2 E (152.4645)	...	ODM

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Code		Station Name, Region and Comments	Latitude	Longitude	Elev.	Networks
WTTA		Wattenberg Austria opened 19910209.	47 15 49.7 N (47.2638)	11 38 10.7 E (11.6363)	1764.0	VIE
WTV		Waterville Washington, U.S.A. opened 197611. SEA code WAT.	47 41 55.0 N (47.6986)	119 57 15.0 W (119.9542)	900.0	SEA
WTX		Workman Tunnel New Mexico, U.S.A.	34 04 19.8 N (34.0722)	106 56 45.0 W (106.9458)	1555.0	SNM
WVR	R	Vyrnwy Wales, United Kingdom opened 1985.	52 47 50.6 N (52.7974)	3 36 18.4 W (3.6051)	580.0	BGS
WVZ		Waitaha Valley South Island, New Zealand opened 19900221.	43 04 35.0 S (43.0764)	170 44 10.0 E (170.7361)	75.0	WEL
WWHQ		Wivenhoe Hill No. 3 Queensland, Australia opened 19840712. ODM code WWH.	27 22 12.7 S (27.3702)	152 35 13.9 E (152.5872)	...	ODM
XLV		Seldovia Kenai Peninsula, Alaska, U.S.A. opened 1987.	59 27 16.8 N (59.4547)	151 43 18.0 W (151.7217)	380.0	GIA
XPKP	F	(phase code designation)				
XPP	F	(phase code designation)				
XSCS	F	(phase code designation)				
XSS	F	(phase code designation)				
YAKW		Yakima Washington, U.S.A. SEA code YAK.	46 31 15.8 N (46.5211)	120 31 45.2 W (120.5292)	619.0	SEA
YANA		Yana Ecuador opened 199008.	0 06 53.3 S (0.1148)	78 34 19.6 W (78.5721)	3730.0	QUI
YEL		Yellow Rock Washington, U.S.A. opened 198109.	46 12 35.0 N (46.2097)	122 11 16.0 W (122.1878)	1750.0	SEA
YERD	R	Yerdanie Rock Western Australia, Australia	31 11 08.6 S (31.1857)	120 37 41.2 E (120.6281)	...	AUST
YHV	R	'En Yahav Israel	...	...	...	JER
YKB0		Yellowknife Array Northwest Territories, Canada opened 1962.	62 36 21.4 N (62.6059)	114 36 18.1 W (114.6050)	221.6	OTTR
YKB1	R	Yellowknife Array Northwest Territories, Canada opened 1962.	62 24 08.6 N (62.4024)	114 36 19.6 W (114.6054)	172.5	OTTR
YKB2	R	Yellowknife Array Northwest Territories, Canada opened 1962.	62 25 29.2 N (62.4248)	114 36 19.5 W (114.6054)	180.0	OTTR
YKB3	R	Yellowknife Array Northwest Territories, Canada opened 1962.	62 26 55.0 N (62.4486)	114 36 18.7 W (114.6052)	187.6	OTTR
YKB4	R	Yellowknife Array Northwest Territories, Canada opened 1962.	62 28 15.9 N (62.4711)	114 36 17.8 W (114.6049)	192.9	OTTR
YKB5	R	Yellowknife Array Northwest Territories, Canada opened 1962.	62 29 35.6 N (62.4932)	114 36 19.1 W (114.6053)	196.7	OTTR
YKB6	R	Yellowknife Array Northwest Territories, Canada opened 1962.	62 30 59.5 N (62.5165)	114 36 18.0 W (114.6050)	202.6	OTTR
YKB7	R	Yellowknife Array Northwest Territories, Canada opened 1962.	62 32 20.4 N (62.5390)	114 36 19.0 W (114.6053)	204.4	OTTR
YKB8	R	Yellowknife Array Northwest Territories, Canada opened 1962.	62 33 41.6 N (62.5616)	114 36 16.9 W (114.6047)	197.9	OTTR
YKB9	R	Yellowknife Array Northwest Territories, Canada opened 1962.	62 34 58.6 N (62.5829)	114 36 13.9 W (114.6039)	213.1	OTTR
YKR0	U	Yellowknife Array Northwest Territories, Canada 1962-197605.	62 29 35.2 N (62.4931)	114 30 30.8 W (114.5086)	204.9	OTTR
YKR1		Yellowknife Array Northwest Territories, Canada opened 1962.	62 29 33.8 N (62.4927)	114 56 44.1 W (114.9456)	170.0	OTTR
YKR2	R	Yellowknife Array Northwest Territories, Canada opened 1962.	62 29 34.0 N (62.4928)	114 53 47.1 W (114.8964)	175.0	OTTR
YKR3	R	Yellowknife Array Northwest Territories, Canada opened 1962.	62 29 34.7 N (62.4930)	114 50 51.8 W (114.8477)	176.8	OTTR
YKR4	R	Yellowknife Array Northwest Territories, Canada opened 1962.	62 29 33.9 N (62.4927)	114 47 58.2 W (114.7995)	173.4	OTTR
YKR5	R	Yellowknife Array Northwest Territaries, Canada opened 1962.	62 29 35.8 N (62.4933)	114 44 59.8 W (114.7499)	182.9	OTTR
YKR6	R	Yellowknife Array Northwest Territories, Canada opened 1962.	62 29 36.0 N (62.4933)	114 42 04.9 W (114.7014)	192.2	OTTR

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YKR7	R	Yellowknife Array Northwest Territories, Canada opened 1962.	62 29 36.1 N (62.4934)	114 39 13.2 W (114.6537)	198.9	OTTR
YKR8		(Alternate Abbreviation for YKB5)				
YKR9	R	Yellowknife Array Northwest Territories, Canada opened 1962.	62 29 35.6 N (62.4932)	114 33 20.7 W (114.5558)	201.1	OTTR
YLL	R	Llanberis Wales, United Kingdom opened 1984.	53 08 24.7 N (53.1402)	4 10 13.4 W (4.1704)	162.0	BGS
YOMI		Yo Makiale Irian Jaya, Indonesia	2 38 34.0 S (2.6428)	140 33 35.0 E (140.5597)	260.0	DJA
YOO	R	..... Oaxaca, Mexico	17 45 00.0 N (17.7500)	97 49 30.0 W (97.8250)	1600.0	UNM
YPE		Yupe El Salvador	14 07 18.0 N (14.1217)	89 40 50.0 W (89.6806)	1581.0	SSS
YRC	R	Rhoscolyn Wales, United Kingdom opened 1984.	53 15 02.2 N (53.2506)	4 34 26.8 W (4.5741)	24.0	BGS
YRE	R	Yr Eifl Wales, United Kingdom opened 1984.	52 58 51.6 N (52.9810)	4 25 31.4 W (4.4254)	197.0	BGS
YRH		Rhiw Wales, United Kingdom opened 1984.	52 50 00.6 N (52.8335)	4 37 44.0 W (4.6289)	300.0	BGS
YTIR		Yattir Israel	31 21 00.0 N (31.3500)	35 07 12.0 E (35.1200)	900.0	JER
YYYY		Yankie New Guinea, Papua New Guinea opened 19880602.	6 14 31.2 S (6.2420)	145 57 57.6 E (145.9660)	1200.0	PMG
ZA1		Zafferana Sicilia, Italy	37 41 07.0 N (37.6853)	15 05 24.0 E (15.0900)	875.0	
ZAC	R	Zacaltic Chiapas, Mexico	17 15 00.0 N (17.2500)	92 45 39.6 W (92.7610)	380.0	IIM
ZAPC	R	..... Czechoslovakia	49 49 55.2 N (49.8320)	18 25 40.8 E (18.4280)	...	PRU
ZHGX		Zihuatenejo Guerrero, Mexico Strong-motion station.	17 36 30.0 N (17.6083)	101 27 54.0 W (101.4650)	...	LJC
ZLA		Zurich--Lagern Switzerland opened 198607.	47 28 55.6 N (47.4821)	8 23 21.3 E (8.3892)	780.0	ZUR
ZOU	D	Zoufplan Friuli-Venezia Giulia, Italy opened 19821017.	46 33 24.0 N (46.5567)	12 58 24.0 E (12.9733)	1896.0	TRI
ZZA	R	..... Chiapas, Mexico	15 08 .. N (15.1333)	92 19 .. W (92.3167)	...	UNM

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